



MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

Presented by direction of the British Government,
to

The Observatory at Hess.



OBSERVATIONS
MADE AT THE
MAGNETICAL AND METEOROLOGICAL
OBSERVATORY

AT
TORONTO IN CANADA.

PRINTED BY ORDER OF HER MAJESTY'S GOVERNMENT,

UNDER THE SUPERINTENDENCE OF

COLONEL EDWARD SABINE,
OF THE ROYAL ARTILLERY.

VOL. II.—1843, 1844, 1845.

WITH ABSTRACTS OF THE OBSERVATIONS TO 1848, AND IN SOME CASES
TO 1852, INCLUSIVE.

LONDON:

PUBLISHED FOR HER MAJESTY'S STATIONERY OFFICE, BY

LONGMAN, BROWN, GREEN, AND LONGMANS.

1853.

LONDON :
Printed by W. CLOWES and Sons, Stamford Street,
For Her Majesty's Stationery Office.

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ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

MAGNETICAL INSTRUMENTS.



ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

MAGNETIC DECLINATION.

Absolute Values.—In January 1845 a series of Observations was commenced at Toronto, for the purpose of determining the monthly values of the Declination by means of a Declinometer, placed in a detached building appropriated to that object only. The Declinometer was of the construction described in Captain Riddell's "Magnetical Instructions," page 15, having a collimator magnet of 3·85 inches in length. The Theodolite employed to measure the angle between the zero of the collimator scale and a fixed distant object (the west side of the lighthouse in the harbour of Toronto, distant 3½ miles nearly from the Observatory) was the original transit theodolite of the Observatory; it was placed in the same building with the Declinometer, but on a separate pedestal. The building was of wood, copper fastened, and was situated in the Observatory enclosure about 20 feet S.W. of the Observatory itself. Usually six determinations were made in each month, and at about the same part of the month. The centre wire of the telescope was made to coincide with the zero of the collimator scale at an instant previously arranged, so that an assistant might at the same instant note the scale reading of the Declinometer in the Observatory; by this means each independent determination became referable to the mean reading of the last-named instrument, *i. e.*, of the differential Declinometer, in the same month.

The astronomical bearing of the west side of the lighthouse from the Theodolite was ascertained by the mean of 16 determinations made at intervals in 1845, 1846, and 1847, to be S. 8° 36' 7" E.

The Declinometer Observations from January 1845 to December 1851 inclusive are given in detail in the latter part of this volume. An abstract of them is contained in the following Table:—

TABLE I.—*Monthly Determinations of the Declination from 1845 to 1851, inclusive.*

| DATES. | Mean Observed Declination. | Mean Reading of the Observatory Declinometer. | Mean Reading of the Observatory Declinometer. | Differences $\alpha - \beta$. | | Observed Declination reduced to the Mean Monthly Reading of the Observatory Declinometer. |
|---------------|----------------------------|---|---|--------------------------------|-------|---|
| | | | | Sc. Divisions. | Arc. | |
| 1845. | | α | β | | | |
| | $^{\circ}$ $'$ | Sc. Div. | Sc. Div. | | $'$ | $^{\circ}$ $'$ |
| January . . | 1 28·5 | 113·9 | 117·4 | — 3·5 | — 2·5 | 1 26·0 West. |
| February . . | 1 26·7 | 114·4 | 117·6 | — 3·2 | — 2·3 | 1 24·4 |
| March . . | 1 36·3 | 106·5 | 117·3 | — 10·8 | — 7·8 | 1 28·5 |
| April . . | 1 34·6 | 109·7 | 116·4 | — 6·7 | — 4·8 | 1 29·8 |
| May . . | 1 34·8 | 109·8 | 116·0 | — 6·2 | — 4·5 | 1 30·3 |
| June . . | 1 32·6 | 111·0 | 115·7 | — 4·7 | — 3·4 | 1 29·2 |
| July . . | 1 34·1 | 108·4 | 115·3 | — 6·9 | — 5·0 | 1 29·1 |
| August . . | 1 34·2 | 106·6 | 114·4 | — 7·8 | — 5·6 | 1 28·6 |
| September . . | 1 35·8 | 106·6 | 113·4 | — 6·8 | — 4·9 | 1 30·9 |
| October . . | 1 32·6 | 112·8 | 113·3 | — 0·5 | — 0·4 | 1 32·2 |
| November . . | 1 31·9 | 110·4 | 113·2 | — 2·8 | — 2·0 | 1 29·9 |
| December . . | 1 31·7 | 114·0 | 114·5 | — 0·5 | — 0·4 | 1 31·3 |
| Means . . | 1 32·8 | 110·3 | 115·4 | — 5·1 | — 3·7 | 1 29·1 |

TABLE I.—*Monthly Determinations of the Declination from 1845 to 1851, inclusive*—continued.

| DATES. | Mean Observed Declination. | Mean Reading of the Observatory Declinometer. | Mean Monthly Reading of the Observatory Declinometer. | Differences $\alpha - \beta$. | | Observed Declination reduced to the Mean Monthly Reading of the Observatory Declinometer. | |
|------------------|----------------------------|---|---|--------------------------------|-------|---|------------|
| | | | | Sc. Divisions. | Arc. | | |
| 1846. | | | | | | | |
| January . . | 1 32.3 | 113.7 | 114.8 | - 1.1 | - 0.8 | 1 31.5 West. | January. |
| February . . | 1 30.6 | 112.0 | 113.7 | - 1.7 | - 1.2 | 1 29.4 | February. |
| March . . . | 1 29.2 | 113.5 | 113.3 | + 0.2 | + 0.1 | 1 29.1 | March. |
| April . . . | 1 31.7 | 110.4 | 112.7 | - 2.3 | - 1.7 | 1 30.0 | April. |
| May | 1 33.4 | 107.4 | 112.2 | - 4.8 | - 3.5 | 1 29.9 | May. |
| June | 1 31.5 | 109.5 | 113.3 | - 3.8 | - 2.7 | 1 28.8 | June. |
| July | 1 34.4 | 109.6 | 113.5 | - 3.9 | - 2.8 | 1 31.6 | July. |
| August . . . | 1 36.0 | 105.3 | 112.9 | - 7.6 | - 5.5 | 1 30.5 | August. |
| September . | 1 35.6 | 107.4 | 112.2 | - 4.8 | - 3.5 | 1 32.1 | September. |
| October . . . | 1 33.8 | 110.2 | 113.1 | - 2.9 | - 2.1 | 1 31.7 | October. |
| November . . | 1 35.0 | 109.0 | 112.8 | - 3.8 | - 2.7 | 1 32.3 | November. |
| December . . | 1 34.0 | 111.4 | 114.0 | - 2.6 | - 1.9 | 1 32.1 | December. |
| Means . . . | 1 33.1 | 110.0 | 113.2 | - 3.2 | - 2.3 | 1 30.8 | |
| 1847. | | | | | | | |
| January . . . | 1 33.0 | 113.0 | 114.1 | - 1.1 | - 0.8 | 1 32.2 West. | January. |
| February . . | 1 36.9 | 106.0 | 111.8 | - 5.2 | - 3.8 | 1 33.1 | February. |
| March | 1 36.1 | 104.8 | 110.5 | - 5.7 | - 4.1 | 1 32.0 | March. |
| April | 1 37.8 | 103.6 | 110.0 | - 6.4 | - 4.6 | 1 33.2 | April. |
| May | 1 35.8 | 105.4 | 110.4 | - 5.0 | - 3.6 | 1 32.2 | May. |
| June | 1 36.9 | 104.1 | 110.4 | - 6.3 | - 4.6 | 1 32.3 | June. |
| July | 1 36.9 | 104.6 | 110.9 | - 6.3 | - 4.6 | 1 32.3 | July. |
| August | 1 37.8 | 104.1 | 111.1 | - 7.0 | - 5.1 | 1 32.7 | August. |
| September . . | 1 38.2 | 104.2 | 109.8 | - 5.6 | - 4.0 | 1 34.2 | September. |
| October | 1 35.9 | 109.6 | 111.1 | - 1.5 | - 1.1 | 1 34.8 | October. |
| November . . . | 1 37.9 | 106.6 | 111.0 | - 4.4 | - 3.2 | 1 34.7 | November. |
| December . . . | 1 35.5 | 110.3 | 110.8 | - 0.5 | - 0.4 | 1 35.1 | December. |
| Means | 1 36.5 | 106.4 | 111.0 | - 4.6 | - 3.3 | 1 33.2 | |
| 1848. | | | | | | | |
| January | 1 35.7 | 109.7 | 111.3 | - 1.6 | - 1.2 | 1 34.5 West. | January. |
| February . . . | 1 34.2 | 118.3 | 117.2 | + 1.1 | + 0.8 | 1 35.0 | February. |
| March | 1 38.6 | 111.1 | 116.7 | - 5.6 | - 4.0 | 1 34.6 | March. |
| April | 1 40.0 | 110.7 | 116.8 | - 6.1 | - 4.4 | 1 35.6 | April. |
| May | 1 38.6 | 110.0 | 115.6 | - 5.6 | - 4.0 | 1 34.6 | May. |
| June | 1 37.0 | 113.4 | 115.9 | - 2.5 | - 1.8 | 1 35.2 | June. |
| July | 1 40.7 | 108.0 | 116.4 | - 8.4 | - 6.1 | 1 34.6 | July. |
| August | 1 41.9 | 108.3 | 115.9 | - 7.6 | - 5.5 | 1 36.4 | August. |
| September . . | 1 39.7 | 109.7 | 115.2 | - 5.6 | - 4.0 | 1 35.7 | September. |
| October | 1 42.1 | 107.4 | 114.1 | - 6.7 | - 4.8 | 1 37.3 | October. |
| November . . . | — | — | — | — | — | 1 36.2 | November. |
| December . . . | 1 36.5 | 111.6 | 113.6 | - 2.0 | - 1.4 | 1 35.1 | December. |
| Means | 1 38.6 | 110.6 | — | — | - 3.2 | 1 35.4 | |

MAGNETIC DECLINATION.

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TABLE I.—*Monthly Determinations of the Declination from 1845 to 1851, inclusive—continued.*

| DATES. | Mean Observed Declination. | Mean Reading of the Observatory Declinometer. | Mean Monthly Reading of the Observatory Declinometer. | Differences $\alpha - \beta$. | | Observed Declination reduced to the Mean Monthly Reading of the Observatory Declinometer. | |
|-----------------|----------------------------|---|---|--------------------------------|-------|---|------------|
| | | | | Sc. Divisions. | Arc. | | |
| 1849. | | | | | | | |
| January . . . | 1 41.3 | 109.9 | 113.9 | - 4.0 | - 2.9 | 1 38.4 West. | January. |
| February . . . | 1 41.4 | 1096.8 | 1105.4 | - 8.6 | - 6.2 | 1 35.2 | February. |
| March . . . | 1 39.1 | 146.9 | 150.1 | - 3.2 | - 2.3 | 1 36.8 | March. |
| April . . . | 1 40.1 | 143.4 | 149.9 | - 6.5 | - 4.7 | 1 35.4 | April. |
| May . . . | 1 38.6 | 146.6 | 148.9 | - 2.3 | - 1.6 | 1 37.0 | May. |
| June . . . | 1 42.0 | 142.0 | 150.3 | - 8.3 | - 5.9 | 1 36.1 | June. |
| July . . . | 1 39.8 | 144.3 | 149.3 | - 5.0 | - 3.7 | 1 36.1 | July. |
| August . . . | 1 39.8 | 145.0 | 150.6 | - 5.6 | - 4.1 | 1 35.7 | August. |
| September . . . | 1 39.9 | 147.8 | 151.6 | - 3.8 | - 2.7 | 1 37.2 | September. |
| October . . . | 1 41.4 | 143.7 | 149.4 | - 5.7 | - 4.2 | 1 37.2 | October. |
| November . . . | 1 40.8 | 146.1 | 149.2 | - 3.1 | - 2.3 | 1 38.5 | November. |
| December . . . | 1 36.6 | 153.3 | 149.8 | + 3.5 | + 2.5 | 1 39.1 | December. |
| Means . . . | 1 40.0 | — | — | — | - 3.1 | 1 36.9 | |
| 1850. | | | | | | | |
| January . . . | 1 36.0 | 151.2 | 150.5 | + 0.7 | + 0.5 | 1 36.5 West. | January. |
| February . . . | 1 38.9 | 148.7 | 150.6 | - 1.9 | - 1.4 | 1 37.5 | February. |
| March . . . | 1 38.8 | 150.1 | 150.5 | - 0.4 | - 0.3 | 1 38.5 | March. |
| April . . . | 1 39.2 | 351.0 | 353.4 | - 2.4 | - 1.7 | 1 37.5 | April. |
| May . . . | 1 42.3 | 351.5 | 358.8 | - 7.3 | - 5.2 | 1 37.1 | May. |
| June . . . | 1 38.7 | 359.1 | 360.0 | - 0.9 | - 0.6 | 1 38.1 | June. |
| July . . . | 1 39.4 | 359.9 | 364.4 | - 4.5 | - 3.2 | 1 36.2 | July. |
| August . . . | 1 45.2 | 356.0 | 363.4 | - 7.4 | - 5.3 | 1 39.9 | August. |
| September . . . | 1 45.0 | 355.4 | 361.7 | - 6.3 | - 4.6 | 1 40.4 | September. |
| October . . . | 1 41.4 | 364.6 | 364.4 | - 0.2 | - 0.2 | 1 41.2 | October. |
| November . . . | 1 44.0 | 362.0 | 366.5 | - 4.5 | - 3.3 | 1 40.7 | November. |
| December . . . | 1 41.8 | 362.3 | 365.6 | - 3.3 | - 2.3 | 1 39.5 | December. |
| Means . . . | 1 40.9 | — | — | — | - 2.3 | 1 38.6 | |
| 1851. | | | | | | | |
| January . . . | 1 44.2 | 358.2 | 364.7 | - 6.5 | - 4.7 | 1 39.5 West. | January. |
| February . . . | 1 43.9 | 361.8 | 365.2 | - 3.4 | - 2.5 | 1 41.4 | February. |
| March . . . | 1 41.7 | 362.7 | 365.5 | - 2.8 | - 2.1 | 1 39.6 | March. |
| April . . . | 1 44.2 | 359.6 | 364.7 | - 5.1 | - 3.7 | 1 40.5 | April. |
| May . . . | 1 44.8 | 357.5 | 362.9 | - 5.4 | - 3.9 | 1 40.9 | May. |
| June . . . | 1 41.8 | 362.1 | 363.2 | - 1.1 | - 0.8 | 1 41.0 | June. |
| July . . . | 1 43.4 | 357.6 | 362.3 | - 4.7 | - 3.4 | 1 40.0 | July. |
| August . . . | 1 47.2 | 355.5 | 363.1 | - 7.6 | - 5.5 | 1 41.7 | August. |
| September . . . | 1 46.5 | 354.2 | 360.1 | - 5.9 | - 4.2 | 1 42.3 | September. |
| October . . . | 1 44.8 | 356.3 | 360.7 | - 4.4 | - 3.2 | 1 41.6 | October. |
| November . . . | 1 44.5 | 355.1 | 361.3 | - 6.2 | - 4.4 | 1 40.1 | November. |
| December . . . | 1 47.7 | 351.6 | 360.5 | - 8.9 | - 6.4 | 1 41.3 | December. |
| Means . . . | 1 44.6 | — | — | — | - 3.7 | 1 40.9 | |

Secular Change.—The monthly determinations in Table I. furnish 84 equations of the form $\psi = \psi' + ay$, in which ψ is the most probable value of the Declination at the mean epoch July 1, 1848; ψ' the observed Declination in any other month; a the interval in months between the date of ψ' and July 1, 1848, negative if that date is earlier than July 1, 1848, positive if later; and y is the monthly secular change. From these equations are obtained $\psi = 1^\circ 34' \cdot 91$, the Declination at the mean epoch, July 1, 1848; and $y = 0' \cdot 1627$, or $12y = 1' \cdot 952$, the mean annual increase of West Declination in the years 1845 to 1851 inclusive.

Probable Error of the Monthly Determinations in Table I.—From the 84 equations furnished by Table I. we derive $\psi'_1 = 1^\circ 34' \cdot 9 + 0' \cdot 1627a_1$, $\psi'_2 = 1^\circ 34' \cdot 9 + 0' \cdot 1627a_2$, $\psi'_{84} = 1^\circ 34' \cdot 9 + 0' \cdot 1627a_{84}$ as the most probable values of the Declination in the several months from January 1845 to December 1851. From the differences between these, and the values actually observed in those months, we obtain by the known method $\pm 0' \cdot 75$ as the probable error of a single monthly determination; and $\pm 0' \cdot 08$ as the probable error of the mean determination $1^\circ 34' \cdot 9$ on July 1, 1848, assuming the true bearing of the west side of the lighthouse from the Theodolite to have been S. $8^\circ 36' 07''$ E., according to Captain Lefroy's determination. The "probable errors" include the irregularities produced by the magnetic disturbances. The differences from which the probable errors have been computed include the effects of the mean annual variation; these have not been eliminated because, as will presently be seen, they are so small that they may practically be disregarded.

Annual Variation.—The hourly observations of the differential declinometer during those years in which its indications can be shown to have been intercomparable, furnish the most unexceptionable means for this investigation. In the first vol. of the Toronto Observations, p. viii., the zero of the scale of the differential declinometer, or the division of the scale corresponding to the magnetic axis of its magnet, is stated to have been 143·4, as determined by Captain Younghusband on 4th June 1841. A redetermination by Captain Lefroy, in February 1849, before the declinometer was dismantled to make room for the self-recording instruments, gave also 143·4. The declination corresponding to the scale division 143·4 is given, for each month of the years 1845, 1846, and 1847, by the intercomparison of the mean monthly readings of the declinometer shown in Table I., with the most probable values of the declination corresponding to the same periods, derivable from the independent monthly determinations in the same Table by the general equation, $\psi' = 1^\circ 34' \cdot 9 + 0' \cdot 1627 a'$. The declination corresponding to the division 143·4, in the different months thus obtained, is shown in the following Table:—

MAGNETIC DECLINATION.

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TABLE II.

| MONTHS. | 1845 1°+ | 1846 1°+ | 1847 1°+ | Means 1°+ | Differences $\alpha - \beta$ |
|---------------|-------------|-------------|-------------|------------------|---------------------------------|
| January . . | 9'41 | 9'46 | 10'93 | 9'94 = α | + 0'71 |
| February . . | 9'72 | 8'86 | 9'45 | 9'34 = α | + 0'11 |
| March . . . | 9'66 | 8'74 | 8'67 | 9'02 = α | - 0'21 |
| April . . . | 9'18 | 8'47 | 8'47 | 8'71 = α | - 0'52 |
| May | 9'05 | 8'27 | 8'92 | 8'75 = α | - 0'48 |
| June | 9'00 | 9'22 | 9'09 | 9'10 = α | - 0'13 |
| July | 8'88 | 9'53 | 9'61 | 9'34 = α | + 0'11 |
| August . . . | 8'39 | 9'26 | 9'91 | 9'19 = α | - 0'04 |
| September . | 7'83 | 8'92 | 9'15 | 8'63 = α | - 0'60 |
| October . . . | 7'92 | 9'73 | 10'24 | 9'30 = α | + 0'07 |
| November . . | 8'02 | 9'68 | 10'33 | 9'34 = α | + 0'11 |
| December . . | 9'11 | 10'70 | 10'35 | 10'05 = α | + 0'82 |
| Means . . . | 8'85 | 9'24 | 9'59 | 9'23 = β | — |

We may derive two conclusions from this Table: 1st, that the scale division corresponding to the magnetic axis of the declinometer magnet underwent little if any change during the years 1845, 1846, and 1847, and consequently that the indications of that instrument may be regarded as intercomparable in those years; and, 2nd, that the *mean* annual variation, or that which is obtained by comparing the mean monthly readings with each other, can only be of very small amount. Of the two elements of comparison from which the values in Table II. are derived, one, viz., the most probable monthly values of the declination, is unaffected by the irregularities of the magnetic disturbances; whilst the other, viz., the mean monthly readings of the declinometer, necessarily includes them. The small differences in the declination values in the three first columns of Table II. are probably, for the most part, occasioned by those irregularities; and the differences in the final column may not be altogether uninfluenced by them.

We may also take from Table II. 1° 09'·2 as the declination value corresponding to the 143·4 division of the declination scale during the years 1845, 1846, and 1847.

Annual Variation at the different Observation Hours.—Having shown that the observations of the differential declinometer were intercomparable during the years 1845 to 1847, and that the zero of the scale corresponded to 1° 09'·2 of west declination, we may combine the observations in the different months and at the different hours in those years so as to form a *mean year* corresponding to the middle year (January to December 1846). This is done in Table III., the values inserted in this Table being in every case a mean of the declinations observed at the specified hour and in the specified month in the three years commencing 1st January 1845 and ending 31st December 1847:—

TABLE III.

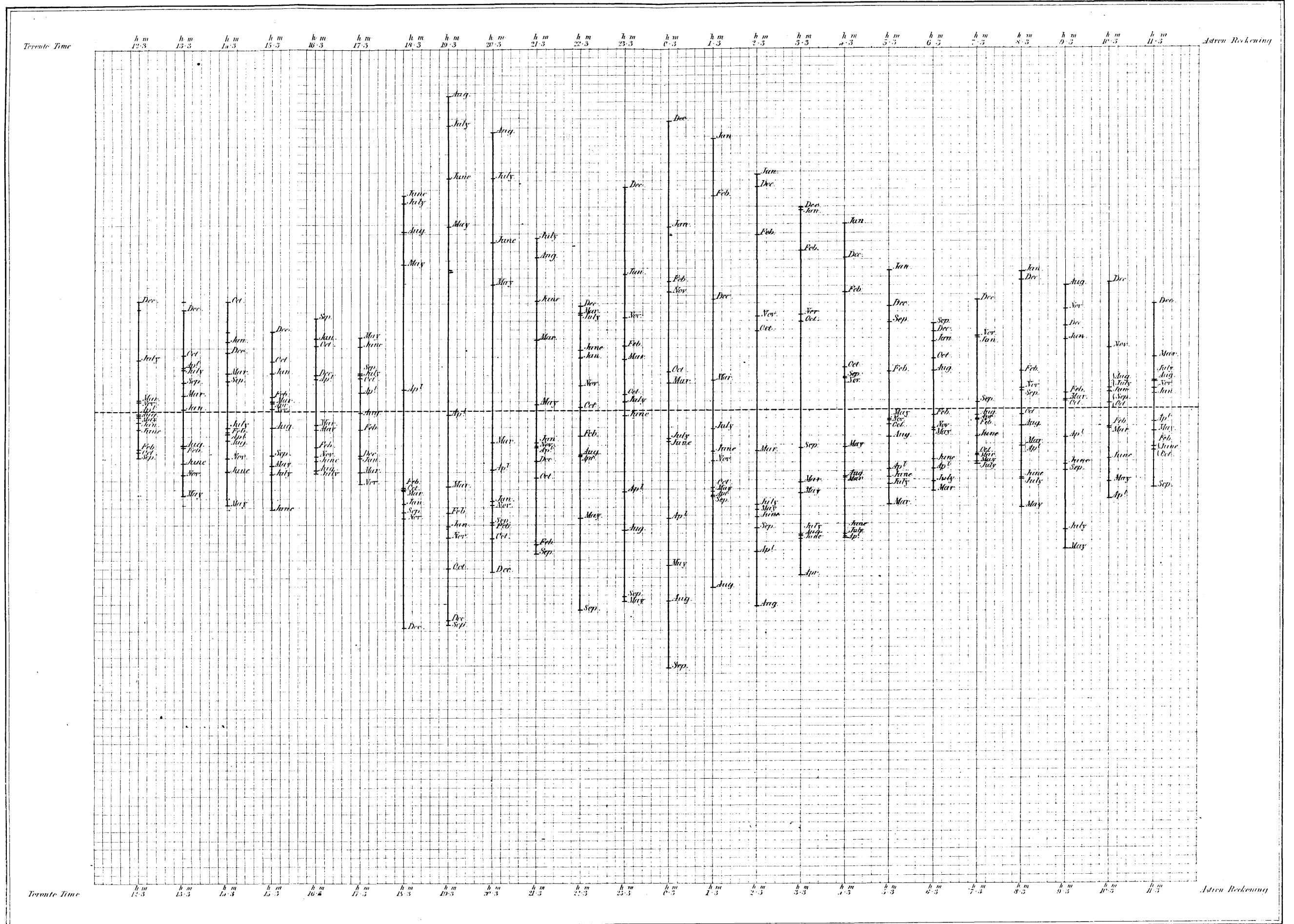
Showing the Mean (West) Declination at every Observation Hour in every Month of the Year 1846, derived from Three Years of Hourly Observations.

| Toronto Time, Astronomical Reckoning. | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Mean Declination at each Observa- tion Hour, cor- responding to the Mean Epoch, July 1st, 1846. |
|---|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| | | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ | 1°+ |
| H. | M. | | | | | | | | | | | | | |
| 12 | 3 | 29.41 | 29.90 | 29.50 | 29.80 | 30.01 | 30.32 | 29.70 | 30.47 | 31.13 | 31.24 | 30.81 | 29.86 | 30.18 -0.55 |
| 13 | 3 | 29.43 | 30.03 | 29.60 | 29.44 | 31.06 | 30.86 | 29.96 | 30.98 | 30.44 | 30.29 | 31.81 | 30.13 | 30.34 -0.70 |
| 14 | 3 | 28.74 | 29.92 | 29.42 | 30.26 | 31.24 | 31.02 | 30.68 | 30.99 | 30.47 | 29.74 | 31.68 | 30.65 | 30.40 -0.64 |
| 15 | 3 | 28.84 | 29.27 | 29.48 | 29.66 | 30.54 | 31.19 | 30.96 | 30.59 | 30.05 | 30.17 | 30.87 | 30.17 | 30.15 -0.59 |
| 16 | 3 | 28.08 | 29.47 | 29.37 | 29.02 | 29.76 | 30.28 | 30.57 | 30.70 | 29.16 | 29.62 | 31.03 | 30.28 | 29.78 -1.24 |
| 17 | 3 | 28.72 | 28.55 | 29.20 | 28.46 | 28.02 | 28.28 | 28.75 | 29.33 | 29.07 | 29.28 | 30.64 | 30.49 | 29.07 -1.37 |
| 18 | 3 | 28.53 | 28.53 | 28.71 | 27.72 | 26.47 | 25.85 | 26.10 | 26.60 | 29.94 | 29.94 | 30.32 | 31.73 | 28.37 -2.57 |
| 19 | 3 | 28.17 | 28.20 | 28.06 | 27.40 | 25.44 | 25.05 | 24.62 | 24.43 | 30.61 | 30.13 | 29.94 | 31.04 | 27.76 -3.28 |
| 20 | 3 | 27.25 | 27.69 | 26.93 | 27.39 | 25.47 | 25.14 | 24.56 | 24.21 | 28.81 | 29.15 | 28.94 | 29.85 | 27.12 -3.92 |
| 21 | 3 | 27.43 | 28.74 | 26.58 | 27.94 | 27.64 | 26.65 | 26.06 | 26.44 | 29.99 | 29.28 | 29.09 | 29.43 | 27.94 -3.10 |
| 22 | 3 | 28.56 | 29.62 | 28.40 | 30.16 | 31.05 | 29.30 | 29.07 | 30.80 | 32.75 | 30.59 | 30.51 | 29.79 | 30.05 -0.99 |
| 23 | 3 | 30.45 | 31.45 | 31.75 | 33.42 | 34.84 | 32.88 | 32.88 | 34.49 | 35.41 | 33.29 | 32.60 | 31.27 | 32.89 +1.55 |
| 0 | 3 | 32.29 | 33.07 | 34.38 | 36.08 | 36.77 | 35.54 | 35.66 | 37.67 | 38.59 | 35.39 | 34.64 | 32.88 | 35.25 +4.21 |
| 1 | 3 | 32.86 | 33.69 | 35.94 | 37.40 | 37.53 | 37.24 | 37.13 | 39.10 | 38.24 | 38.30 | 38.16 | 36.49 | 36.84 +5.80 |
| 2 | 3 | 32.48 | 33.37 | 35.97 | 37.27 | 36.98 | 37.22 | 37.23 | 38.55 | 37.83 | 35.75 | 35.75 | 34.44 | 36.07 +5.03 |
| 3 | 3 | 31.86 | 32.48 | 35.27 | 36.49 | 35.72 | 36.41 | 36.51 | 36.68 | 35.86 | 34.59 | 34.68 | 33.62 | 35.01 +3.97 |
| 4 | 3 | 30.70 | 31.65 | 33.92 | 34.76 | 33.89 | 35.04 | 35.23 | 34.72 | 33.74 | 33.80 | 34.07 | 32.89 | 33.70 +2.55 |
| 5 | 3 | 29.92 | 31.25 | 32.91 | 32.67 | 32.26 | 33.09 | 33.31 | 32.94 | 31.82 | 33.14 | 33.25 | 32.12 | 32.39 +1.25 |
| 6 | 3 | 29.58 | 30.57 | 31.60 | 31.52 | 31.25 | 31.74 | 32.13 | 31.04 | 30.70 | 31.24 | 32.20 | 31.26 | 31.24 +0.20 |
| 7 | 3 | 29.10 | 30.21 | 30.75 | 30.52 | 31.16 | 31.03 | 31.51 | 31.12 | 31.14 | 31.90 | 30.71 | 30.47 | 30.80 -0.24 |
| 8 | 3 | 27.91 | 29.20 | 30.22 | 30.38 | 31.23 | 31.06 | 31.24 | 30.80 | 30.57 | 31.00 | 30.85 | 29.80 | 30.35 -0.69 |
| 9 | 3 | 28.02 | 28.80 | 29.03 | 29.62 | 31.06 | 30.26 | 31.16 | 28.54 | 30.81 | 30.18 | 29.30 | 29.67 | 29.70 -1.34 |
| 10 | 3 | 28.67 | 29.24 | 29.41 | 30.36 | 30.35 | 30.23 | 29.60 | 29.76 | 30.11 | 30.27 | 29.81 | 29.21 | 29.75 -1.29 |
| 11 | 3 | 28.66 | 29.43 | 28.57 | 29.47 | 29.74 | 30.13 | 29.49 | 29.75 | 31.03 | 30.78 | 30.15 | 29.44 | 29.72 -1.52 |
| Means . | | 29.40 30.30 | 30.18 30.91 | 30.62 31.19 | 31.13 31.54 | 31.23 31.47 | 31.08 31.16 | 31.00 30.92 | 31.28 31.04 | 32.01 31.60 | 31.63 31.05 | 31.74 31.01 | 31.12 32.33 | 31.04 |
| Corrections to be applied for Secular Change to reduce to the Mean Epoch, July 1st, 1846. | | | | | | | | | | | | | | |
| | | +0.90 | +0.73 | +0.57 | +0.41 | +0.24 | +0.08 | -0.08 | -0.24 | -0.41 | -0.57 | -0.73 | -0.90 | |

The values in the vertical column on the extreme right of this Table show the mean declination at the different hours corresponding to the mean epoch of the Table, July 1, 1846; they are the values which would have been obtained in each case had the observations been limited to a single hour only. The values which are placed respectively on the same horizontal line with the mean declination at each of the hours show the mean declination at the same hour in each month. When corrections for the secular change have been applied to these, and the differences are taken between the mean monthly values so corrected and the mean values in the twelve months at the same hours (in the vertical column on the extreme right), we have in these differences the Annual Variation at each of the observation hours, as it would have been observed if the observations in each case had been limited to that particular hour, and if the declination at Toronto had had a constant value instead of being affected by secular change. They are shown in Table IV.

Annual Variation of the Declination at each of the 24 Observation hours derived from three Years of observation.

Scale, One inch to one minute of Arc. The dotted horizontal line represents the mean Declination at each hour as obtained from Observations throughout the three years at that hour only.



MAGNETIC DECLINATION.

TABLE IV.

Annual Variation of the Declination at each of the Observation Hours.

+ denotes the North end of the needle being to the East, and - to the West of its mean or normal position in the year at the specified hour.

| Toronto Mean Time, Astronomical Reckoning. | | 1845 to 1847 inclusive. | | | | | | | | | | | |
|--|---|-------------------------|-----------|--------|--------|-------|-------|-------|---------|------------|----------|-----------|-----------|
| | | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. |
| 12 | 3 | -0.13 | -0.45 | +0.11 | -0.03 | -0.07 | -0.22 | +0.56 | -0.05 | -0.54 | -0.49 | +0.10 | +1.22 |
| 13 | 3 | +0.01 | -0.42 | +0.17 | +0.49 | -0.96 | -0.60 | +0.46 | -0.40 | +0.31 | +0.62 | -0.74 | +1.11 |
| 14 | 3 | +0.76 | -0.25 | +0.41 | -0.27 | -1.08 | -0.70 | -0.20 | -0.35 | +0.34 | +1.23 | -0.55 | +0.65 |
| 15 | 3 | +0.41 | +0.15 | +0.10 | +0.08 | -0.63 | -1.12 | -0.73 | -0.20 | -0.51 | +0.55 | +0.01 | +0.88 |
| 16 | 3 | +0.80 | -0.42 | -0.16 | +0.35 | -0.22 | -0.58 | -0.71 | -0.68 | +1.03 | +0.73 | -0.52 | +0.40 |
| 17 | 3 | -0.55 | -0.21 | -0.70 | +0.20 | +0.81 | +0.71 | +0.40 | -0.02 | +0.41 | +0.36 | -0.84 | -0.52 |
| 18 | 3 | -1.06 | -0.89 | -0.91 | +0.24 | +1.66 | +2.44 | +2.35 | +2.01 | -1.16 | -1.00 | -1.22 | -2.46 |
| 19 | 3 | -1.31 | -1.17 | -0.87 | -0.05 | +2.08 | +2.63 | +3.22 | +3.57 | -2.44 | -1.80 | -1.45 | -2.38 |
| 20 | 3 | -1.03 | -1.30 | -0.38 | -0.68 | +1.41 | +1.90 | +2.64 | +3.15 | -1.28 | -1.46 | -1.09 | -1.83 |
| 21 | 3 | -0.39 | -1.53 | +0.79 | -0.41 | +0.06 | +1.21 | +1.96 | +1.74 | -1.64 | -0.77 | -0.42 | -0.59 |
| 22 | 3 | +0.59 | -0.30 | +1.08 | -0.52 | -1.24 | +0.67 | +1.06 | -0.51 | -2.29 | +0.03 | +0.27 | +1.16 |
| 23 | 3 | +1.54 | +0.71 | +0.57 | -0.94 | -2.19 | -0.07 | +0.09 | -1.36 | -2.11 | +0.17 | +1.02 | +2.52 |
| 0 | 3 | +2.06 | +1.45 | +0.30 | -1.24 | -1.76 | -0.37 | -0.33 | -2.18 | -2.93 | +0.43 | +1.34 | +3.27 |
| 1 | 3 | +3.08 | +2.42 | +0.33 | -0.97 | -0.93 | -0.48 | -0.21 | -2.02 | -0.99 | -0.89 | -0.59 | +1.25 |
| 2 | 3 | +2.69 | +1.97 | -0.47 | -1.61 | -1.14 | -1.23 | -1.08 | -2.24 | -1.35 | +0.89 | +1.05 | +2.53 |
| 3 | 3 | +2.25 | +1.80 | -0.83 | -1.89 | -0.95 | -1.48 | -1.42 | -1.43 | -0.44 | +0.99 | +1.06 | +2.29 |
| 4 | 3 | +2.10 | +1.32 | -0.79 | -1.47 | -0.43 | -1.42 | -1.45 | -0.78 | +0.37 | +0.47 | +0.36 | +1.71 |
| 5 | 3 | +1.57 | +0.41 | -1.09 | -0.69 | -0.11 | -0.78 | -0.84 | -0.31 | +0.98 | -0.18 | -0.13 | +1.17 |
| 6 | 3 | +0.76 | -0.06 | -0.93 | -0.69 | -0.25 | -0.58 | -0.81 | +0.44 | +0.95 | +0.57 | -0.23 | +0.88 |
| 7 | 3 | +0.80 | -0.14 | -0.52 | -0.13 | -0.60 | -0.31 | -0.63 | -0.08 | +0.07 | -0.53 | +0.82 | +1.23 |
| 8 | 3 | +1.55 | +0.43 | -0.43 | -0.43 | -1.11 | -0.78 | -0.80 | -0.20 | +0.20 | -0.07 | +0.24 | +1.46 |
| 9 | 3 | +0.78 | +0.17 | +0.10 | -0.33 | -1.60 | -0.64 | -1.38 | +1.40 | -0.70 | +0.09 | +1.13 | +0.93 |
| 10 | 3 | +0.18 | -0.22 | -0.23 | -1.02 | -0.84 | -0.56 | +0.23 | +0.23 | +0.05 | +0.05 | +0.67 | +1.44 |
| 11 | 3 | +0.16 | -0.44 | +0.58 | -0.16 | -0.26 | -0.49 | +0.31 | +0.21 | -0.90 | -0.49 | +0.30 | +1.18 |

Plate I. has been drawn in illustration of this Table. The dark vertical lines show the comparative magnitude of the Annual Variation at the different hours, the scale being an inch to one minute of declination: the small cross lines with the names of the months annexed mark the position which the several months occupy in the respective ranges. The Annual Variation at each hour is projected independently of the other hours, and with reference only to its own mean or normal point, viz., the mean declination in the year at that particular hour: the dotted horizontal line passes through and marks these normal points.

Diurnal Variation.—Table V. exhibits the Diurnal Variation in each month of the year derived from the monthly means of the hourly observations from July 1842 to June 1848 inclusive; in computing the mean Diurnal Variation in each month corresponding to the observations of all these years, the months of August, September, and December 1847, and February and May 1848, have been omitted on account of the excessive disturbances which prevailed in those months. Table VI. exhibits in one view the mean Diurnal Variation in each month of the year derived from the results in Table V.; and Table VII. exhibits the mean hourly position of the magnet in each month of the year relatively to its mean position in that month.

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE V.

Diurnal Variation of the Declination in the several Months, from July 1842 to June 1848, inclusive.

The lowest Monthly Mean occurring at any observation hour is taken as the Zero for the

| Local Astronomical Time. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | |
|--------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------|
| JANUARY. | 1843 | 2.05 | 0.66 | 0.00 | 0.36 | 1.41 | 2.16 | 3.10 | 3.22 | 3.60 | 4.55 | 4.78 |
| | 1844 | 0.85 | 0.00 | 0.08 | 0.80 | 1.33 | 2.38 | 2.91 | 3.69 | 3.76 | 4.09 | 4.94 |
| | 1845 | 0.00 | 0.47 | 0.78 | 1.34 | 2.39 | 3.54 | 4.10 | 4.20 | 4.78 | 5.69 | 3.77 |
| | 1846 | 1.21 | 0.00 | 0.51 | 1.10 | 2.38 | 3.31 | 3.44 | 4.14 | 5.48 | 4.76 | 4.94 |
| | 1847 | 0.99 | 0.00 | 0.32 | 1.04 | 2.20 | 2.48 | 2.80 | 3.44 | 5.07 | 4.58 | 4.28 |
| | 1848 | 2.15 | 0.92 | 0.00 | 0.60 | 0.97 | 1.83 | 3.06 | 4.17 | 5.94 | 5.56 | 5.68 |
| Reduced Means | 0.93 | 0.06 | 0.00 | 0.59 | 1.50 | 2.34 | 2.95 | 3.53 | 4.49 | 4.59 | 4.45 | |
| FEBRUARY. | 1843 | 0.89 | 0.00 | 0.08 | 0.76 | 1.38 | 2.61 | 2.85 | 3.95 | 4.25 | 3.74 | 4.44 |
| | 1844 | 0.14 | 0.00 | 0.72 | 1.54 | 2.76 | 2.61 | 3.93 | 3.59 | 4.37 | 4.55 | 5.63 |
| | 1845 | 0.74 | 0.00 | 0.56 | 1.76 | 2.86 | 3.04 | 3.98 | 4.52 | 5.46 | 5.61 | 4.57 |
| | 1846 | 0.90 | 0.00 | 0.01 | 0.78 | 1.61 | 1.73 | 1.82 | 2.44 | 4.05 | 4.43 | 3.78 |
| | 1847 | 0.21 | 0.00 | 0.40 | 1.12 | 1.66 | 2.57 | 3.59 | 3.51 | 4.00 | 4.65 | 5.02 |
| | 1848 ^a | 4.39 | 2.42 | 0.72 | 0.00 | 1.88 | 2.07 | 2.61 | 3.26 | 4.47 | 11.19 | 7.35 |
| Reduced Means | 0.23 | 0.00 | 0.00 | 0.84 | 1.70 | 2.16 | 2.88 | 3.25 | 4.08 | 4.25 | 4.34 | |
| MARCH. | 1843 | 2.04 | 0.27 | 0.00 | 0.89 | 1.66 | 2.81 | 3.66 | 4.43 | 5.64 | 5.83 | 6.50 |
| | 1844 | 0.72 | 0.00 | 0.01 | 0.95 | 1.67 | 3.15 | 3.30 | 4.96 | 6.93 | 6.58 | 6.99 |
| | 1845 | 1.42 | 0.17 | 0.00 | 0.87 | 1.71 | 3.30 | 4.50 | 5.71 | 5.62 | 6.89 | 6.42 |
| | 1846 | 1.66 | 0.17 | 0.00 | 0.23 | 2.53 | 3.18 | 4.09 | 5.63 | 5.93 | 6.53 | 6.02 |
| | 1847 | 1.91 | 0.00 | 0.23 | 1.23 | 2.16 | 2.95 | 4.76 | 4.60 | 5.96 | 7.67 | 7.50 |
| | 1848 | 1.41 | 0.00 | 0.29 | 0.41 | 1.48 | 2.43 | 3.71 | 3.46 | 4.01 | 7.05 | 6.42 |
| Reduced Means | 1.44 | 0.01 | 0.00 | 0.67 | 1.78 | 2.88 | 3.91 | 4.71 | 5.59 | 6.67 | 6.55 | |
| APRIL. | 1843 | 1.12 | 0.00 | 0.07 | 1.12 | 2.36 | 3.21 | 4.94 | 5.74 | 7.27 | 6.79 | 7.36 |
| | 1844 | 0.82 | 0.04 | 0.00 | 1.02 | 2.24 | 3.52 | 4.21 | 4.75 | 5.84 | 6.54 | 7.27 |
| | 1845 | 1.85 | 0.00 | 0.04 | 0.82 | 2.50 | 5.15 | 6.38 | 6.63 | 7.09 | 7.07 | 7.87 |
| | 1846 | 1.38 | 0.00 | 0.19 | 0.41 | 2.41 | 3.01 | 4.97 | 6.81 | 6.12 | 7.57 | 8.03 |
| | 1847 | 0.72 | 0.00 | 0.16 | 1.50 | 3.01 | 6.06 | 6.33 | 7.20 | 7.87 | 8.73 | 5.27 |
| | 1848 | 1.61 | 0.07 | 0.00 | 0.75 | 3.07 | 3.80 | 4.27 | 5.96 | 7.63 | 7.18 | 7.08 |
| Reduced Means | 1.23 | 0.00 | 0.06 | 0.92 | 2.58 | 4.11 | 5.16 | 6.16 | 6.95 | 7.29 | 7.13 | |
| MAY. | 1843 | 0.75 | 0.01 | 0.00 | 0.92 | 2.43 | 4.27 | 5.51 | 5.21 | 5.56 | 6.09 | 6.57 |
| | 1844 | 1.44 | 0.21 | 0.00 | 0.80 | 2.37 | 4.10 | 4.89 | 6.00 | 5.04 | 6.29 | 7.81 |
| | 1845 | 0.17 | 0.00 | 0.79 | 2.40 | 4.41 | 6.18 | 6.70 | 6.76 | 6.65 | 6.29 | 6.41 |
| | 1846 | 1.02 | 0.00 | 0.51 | 1.61 | 3.34 | 4.66 | 5.89 | 6.44 | 6.38 | 7.61 | 9.12 |
| | 1847 | 1.11 | 0.00 | 0.34 | 1.41 | 3.17 | 5.01 | 6.27 | 5.94 | 5.89 | 5.56 | 6.04 |
| | 1848 ^a | 2.64 | 0.00 | 0.09 | 1.94 | 3.73 | 6.39 | 7.28 | 7.29 | 8.26 | 8.95 | 8.59 |
| Reduced Means | 0.86 | 0.00 | 0.29 | 1.39 | 3.10 | 4.80 | 5.81 | 6.03 | 5.86 | 6.33 | 7.15 | |
| JUNE. | 1843 | 0.72 | 0.00 | 0.22 | 0.82 | 2.58 | 3.73 | 4.30 | 4.86 | 4.69 | 5.70 | 5.72 |
| | 1844 | 1.09 | 0.00 | 0.53 | 1.55 | 3.06 | 4.65 | 5.43 | 5.83 | 6.23 | 6.34 | 6.38 |
| | 1845 | 1.29 | 0.00 | 0.06 | 0.95 | 2.68 | 4.73 | 5.88 | 6.02 | 5.98 | 6.58 | 6.09 |
| | 1846 | 2.72 | 0.35 | 0.00 | 0.63 | 1.41 | 3.68 | 5.71 | 6.81 | 6.52 | 8.61 | 8.31 |
| | 1847 | 1.43 | 0.00 | 0.36 | 1.28 | 2.87 | 4.42 | 5.29 | 6.19 | 6.44 | 6.13 | 7.04 |
| | 1848 | 2.02 | 0.66 | 0.00 | 1.43 | 3.60 | 5.89 | 7.10 | 7.95 | 7.76 | 7.62 | 7.41 |
| Reduced Means | 1.37 | 0.00 | 0.02 | 0.94 | 2.53 | 4.35 | 5.45 | 6.11 | 6.10 | 6.66 | 6.66 | |

^a Omitted in the Means, on account of the unusual magnitude of the disturbance.

DIURNAL VARIATION OF THE DECLINATION.

TABLE V.

Diurnal Variation of the Declination in the several Months, from July 1842 to June 1848, inclusive.

Month, and corresponds to the extreme Westerly position of the North end of the Magnet.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | Monthly Means. |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| 4.07 | 3.61 | 2.98 | 2.91 | 2.88 | 3.45 | 3.39 | 2.31 | 4.03 | 5.40 | 6.26 | 5.96 | 4.06 | 3.22 |
| 3.64 | 3.54 | 3.36 | 3.11 | 3.61 | 3.72 | 3.14 | 3.52 | 3.86 | 4.69 | 4.82 | 3.75 | 2.53 | 3.01 |
| 4.26 | 3.39 | 4.14 | 4.21 | 3.92 | 5.26 | 4.18 | 4.72 | 5.28 | 5.45 | 4.34 | 3.59 | 1.78 | 3.57 |
| 4.65 | 4.06 | 3.54 | 4.47 | 4.15 | 4.87 | 4.45 | 4.27 | 4.58 | 6.07 | 6.25 | 5.11 | 3.11 | 3.79 |
| 4.18 | 3.42 | 3.08 | 4.16 | 4.50 | 4.70 | 4.27 | 4.51 | 4.68 | 5.81 | 6.17 | 4.69 | 2.85 | 3.51 |
| 5.61 | 6.00 | 5.44 | 4.98 | 6.23 | 6.81 | 6.23 | 5.99 | 6.22 | 8.30 | 9.63 | 7.68 | 5.86 | 4.83 |
| 4.12 | 3.72 | 3.48 | 3.69 | 3.93 | 4.52 | 4.00 | 3.94 | 4.50 | 5.54 | 5.96 | 4.85 | 3.09 | 3.37 |
| 5.13 | 4.18 | 2.83 | 3.94 | 3.05 | 4.23 | 4.79 | 5.02 | 5.49 | 6.29 | 5.78 | 4.35 | 2.03 | 3.42 |
| 3.50 | 4.43 | 3.74 | 3.59 | 4.26 | 4.40 | 5.24 | 4.94 | 5.54 | 5.91 | 5.39 | 3.75 | 1.60 | 3.59 |
| 4.21 | 4.79 | 3.67 | 3.51 | 4.45 | 3.95 | 4.67 | 5.49 | 5.40 | 5.48 | 5.58 | 4.64 | 2.71 | 3.82 |
| 3.70 | 3.50 | 2.93 | 4.18 | 3.93 | 4.24 | 4.74 | 4.55 | 5.09 | 6.11 | 4.51 | 4.01 | 2.56 | 3.15 |
| 4.91 | 3.14 | 4.42 | 3.66 | 4.90 | 4.49 | 6.01 | 5.45 | 6.01 | 6.44 | 4.77 | 3.57 | 1.48 | 3.58 |
| 8.15 | 8.20 | 6.66 | 4.33 | 5.92 | 4.58 | 5.94 | 6.52 | 5.85 | 8.50 | 10.87 | 9.44 | 7.26 | 5.52 |
| 3.94 | 3.66 | 3.17 | 3.43 | 3.77 | 3.91 | 4.74 | 4.74 | 5.16 | 5.70 | 4.86 | 3.71 | 1.73 | 3.16 |
| 5.90 | 5.41 | 5.44 | 5.36 | 5.70 | 5.72 | 6.07 | 6.89 | 7.86 | 9.12 | 8.57 | 6.71 | 4.40 | 4.87 |
| 6.26 | 4.04 | 6.65 | 6.10 | 4.50 | 6.25 | 6.32 | 6.08 | 7.41 | 7.76 | 7.49 | 5.60 | 3.25 | 4.71 |
| 6.21 | 5.92 | 5.95 | 5.92 | 6.02 | 6.65 | 6.31 | 7.19 | 8.28 | 9.14 | 8.93 | 7.17 | 4.07 | 5.18 |
| 6.61 | 6.61 | 6.32 | 6.55 | 6.22 | 6.57 | 6.30 | 6.68 | 7.82 | 8.91 | 9.15 | 7.18 | 3.88 | 5.20 |
| 9.61 | 7.15 | 7.07 | 7.41 | 7.49 | 6.82 | 7.95 | 8.12 | 7.89 | 9.32 | 10.41 | 8.60 | 4.96 | 5.91 |
| 8.33 | 8.13 | 7.67 | 8.65 | 8.68 | 8.68 | 7.05 | 8.29 | 9.66 | 11.36 | 10.94 | 7.93 | 5.05 | 5.88 |
| 7.06 | 6.12 | 6.42 | 6.58 | 6.35 | 6.69 | 6.58 | 7.12 | 8.06 | 9.18 | 9.16 | 7.11 | 4.18 | 5.20 |
| 6.43 | 7.38 | 6.73 | 7.21 | 6.55 | 8.00 | 8.59 | 9.94 | 10.83 | 10.50 | 8.06 | 5.70 | 3.60 | 5.81 |
| 7.66 | 6.32 | 6.21 | 7.33 | 7.53 | 7.57 | 6.86 | 7.50 | 7.48 | 8.67 | 8.10 | 5.66 | 2.73 | 5.24 |
| 7.55 | 7.37 | 7.39 | 7.47 | 7.69 | 7.89 | 8.46 | 9.67 | 10.29 | 10.75 | 10.34 | 8.10 | 5.08 | 6.39 |
| 7.88 | 7.57 | 7.28 | 7.50 | 7.62 | 8.06 | 8.51 | 9.19 | 9.82 | 9.36 | 8.62 | 6.77 | 3.70 | 5.95 |
| 8.39 | 7.87 | 9.22 | 6.48 | 7.96 | 9.23 | 9.85 | 10.20 | 9.92 | 9.95 | 9.45 | 6.84 | 3.18 | 6.48 |
| 7.75 | 7.91 | 8.15 | 9.15 | 10.26 | 9.57 | 8.30 | 9.72 | 10.54 | 10.50 | 9.19 | 7.60 | 4.08 | 6.42 |
| 7.59 | 7.38 | 7.48 | 7.50 | 7.92 | 8.37 | 8.41 | 9.35 | 9.79 | 9.94 | 8.94 | 6.76 | 3.71 | 6.03 |
| 6.75 | 6.24 | 5.96 | 6.09 | 6.20 | 6.50 | 8.03 | 9.47 | 10.49 | 10.89 | 9.38 | 6.21 | 3.24 | 5.53 |
| 6.62 | 7.09 | 7.45 | 6.42 | 6.60 | 6.88 | 8.71 | 10.27 | 11.02 | 10.85 | 9.71 | 6.71 | 4.08 | 5.89 |
| 6.97 | 6.57 | 7.30 | 6.49 | 7.63 | 8.49 | 9.59 | 11.47 | 12.46 | 12.53 | 10.22 | 6.30 | 2.64 | 6.48 |
| 9.49 | 9.26 | 8.32 | 6.97 | 6.84 | 7.04 | 9.10 | 10.58 | 12.39 | 12.28 | 10.01 | 7.02 | 3.14 | 6.63 |
| 6.94 | 6.76 | 3.84 | 5.43 | 6.53 | 7.79 | 9.86 | 11.17 | 11.43 | 11.40 | 9.46 | 6.15 | 2.30 | 5.83 |
| 8.78 | 8.89 | 8.37 | 8.71 | 9.07 | 9.74 | 12.77 | 13.31 | 15.06 | 14.24 | 12.99 | 9.06 | 5.87 | 8.00 |
| 7.31 | 7.14 | 6.53 | 6.24 | 6.72 | 7.30 | 9.02 | 10.55 | 11.52 | 11.55 | 9.72 | 6.44 | 3.04 | 6.03 |
| 5.62 | 5.88 | 5.77 | 5.40 | 6.29 | 6.95 | 8.05 | 10.28 | 11.39 | 10.43 | 8.59 | 5.85 | 3.14 | 5.29 |
| 7.35 | 6.61 | 6.85 | 7.28 | 6.99 | 8.27 | 9.73 | 11.33 | 12.23 | 12.08 | 10.41 | 7.42 | 3.67 | 6.30 |
| 6.31 | 6.13 | 6.45 | 6.67 | 6.28 | 7.44 | 9.53 | 11.50 | 12.58 | 12.45 | 10.81 | 7.67 | 3.91 | 6.17 |
| 8.13 | 7.49 | 6.85 | 6.33 | 6.04 | 5.99 | 8.70 | 11.51 | 12.11 | 11.79 | 10.57 | 8.46 | 5.07 | 6.41 |
| 7.31 | 7.56 | 6.23 | 6.04 | 6.23 | 7.84 | 9.04 | 11.56 | 12.29 | 12.46 | 10.79 | 8.08 | 4.47 | 6.31 |
| 7.54 | 7.95 | 7.85 | 7.52 | 7.34 | 8.29 | 10.16 | 12.90 | 14.46 | 14.36 | 13.07 | 9.54 | 5.00 | 7.39 |
| 6.87 | 6.77 | 6.50 | 6.37 | 6.36 | 7.29 | 9.03 | 11.34 | 12.34 | 12.09 | 10.54 | 7.67 | 4.04 | 6.14 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE V.—*Diurnal Variation of the Declination in the several*

| Local Astronomical Time. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | |
|--------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-------|
| JULY. | 1842 | 1.65 | 0.63 | 0.00 | 1.10 | 2.22 | 4.00 | 5.19 | 5.99 | 8.37 | 6.89 | 7.82 |
| | 1843 | 1.66 | 0.00 | 0.51 | 1.23 | 2.36 | 4.44 | 5.71 | 5.89 | 5.69 | 7.05 | 7.29 |
| | 1844 | 1.74 | 0.30 | 0.00 | 1.04 | 2.66 | 4.04 | 5.22 | 5.75 | 5.68 | 5.58 | 6.72 |
| | 1845 | 2.38 | 0.30 | 0.00 | 1.02 | 2.51 | 4.29 | 6.06 | 7.07 | 6.53 | 7.03 | 8.03 |
| | 1846 | 1.95 | 0.68 | 0.04 | 0.00 | 0.84 | 2.67 | 3.88 | 5.26 | 6.43 | 6.65 | 7.25 |
| | 1847 | 1.05 | 0.00 | 0.66 | 1.84 | 3.37 | 5.53 | 6.10 | 5.54 | 5.76 | 5.25 | 8.36 |
| Reduced Means | 1.54 | 0.12 | 0.00 | 0.84 | 2.13 | 3.96 | 5.16 | 5.72 | 6.21 | 6.21 | 7.38 | |
| AUGUST. | 1842 | 0.40 | 0.00 | 1.27 | 3.07 | 5.19 | 6.18 | 7.03 | 6.63 | 7.96 | 7.47 | 7.43 |
| | 1843 | 0.84 | 0.00 | 0.60 | 2.59 | 4.54 | 6.09 | 6.84 | 6.84 | 7.05 | 6.94 | 6.76 |
| | 1844 | 1.13 | 0.00 | 0.84 | 2.71 | 4.24 | 5.97 | 7.55 | 7.50 | 8.34 | 7.73 | 8.18 |
| | 1845 | 0.91 | 0.00 | 0.98 | 2.87 | 5.01 | 6.76 | 8.10 | 8.39 | 7.61 | 9.59 | 9.17 |
| | 1846 | 1.93 | 0.30 | 0.00 | 1.55 | 3.11 | 4.87 | 7.42 | 7.15 | 8.75 | 11.88 | 10.11 |
| | 1847 ^a | 1.75 | 0.00 | 0.96 | 3.14 | 5.35 | 7.15 | 8.98 | 8.70 | 8.87 | 10.53 | 9.70 |
| Reduced Means | 0.98 | 0.00 | 0.68 | 2.50 | 4.36 | 5.91 | 7.33 | 7.24 | 7.88 | 8.66 | 8.27 | |
| SEPTEMBER. | 1842 | 0.53 | 0.00 | 0.57 | 2.69 | 3.84 | 5.27 | 5.45 | 6.61 | 7.54 | 6.89 | 6.51 |
| | 1843 | 0.00 | 0.15 | 1.30 | 2.58 | 4.40 | 5.31 | 5.73 | 5.72 | 6.63 | 8.06 | 7.09 |
| | 1844 | 0.00 | 0.76 | 1.41 | 3.82 | 6.22 | 6.93 | 7.12 | 7.52 | 8.79 | 9.98 | 8.97 |
| | 1845 | 0.00 | 0.57 | 1.79 | 3.29 | 5.50 | 6.89 | 7.30 | 7.31 | 7.65 | 8.50 | 9.04 |
| | 1846 | 0.00 | 0.12 | 0.68 | 2.48 | 3.83 | 5.69 | 7.65 | 7.49 | 7.19 | 6.25 | 7.52 |
| | 1847 ^a | 0.19 | 0.60 | 0.00 | 2.60 | 5.41 | 7.93 | 8.96 | 7.78 | 9.43 | 8.81 | 9.10 |
| Reduced Means | 0.00 | 0.21 | 1.04 | 2.86 | 4.65 | 5.91 | 6.54 | 6.82 | 7.45 | 7.83 | 7.72 | |
| OCTOBER. | 1842 | 0.43 | 0.00 | 0.17 | 0.76 | 2.12 | 2.88 | 3.81 | 5.02 | 5.22 | 5.67 | 6.36 |
| | 1843 | 0.51 | 0.00 | 0.17 | 0.95 | 1.80 | 2.77 | 3.32 | 3.89 | 4.53 | 5.15 | 4.57 |
| | 1844 | 0.17 | 0.00 | 0.71 | 2.17 | 3.26 | 4.13 | 4.11 | 4.71 | 5.02 | 5.96 | 5.47 |
| | 1845 | 0.00 | 0.05 | 0.59 | 1.54 | 1.92 | 2.56 | 3.24 | 3.55 | 4.14 | 4.86 | 4.56 |
| | 1846 | 0.85 | 0.00 | 0.05 | 1.57 | 2.81 | 2.94 | 5.27 | 5.24 | 6.27 | 8.07 | 7.85 |
| | 1847 | 0.87 | 0.19 | 0.00 | 1.03 | 1.79 | 3.00 | 5.70 | 3.44 | 4.53 | 4.49 | 4.73 |
| Reduced Means | 0.43 | 0.00 | 0.24 | 1.30 | 2.24 | 3.01 | 4.20 | 4.27 | 4.91 | 5.66 | 5.55 | |
| NOVEMBER. | 1842 | 0.33 | 0.00 | 0.50 | 2.06 | 2.80 | 3.26 | 4.92 | 5.19 | 5.75 | 5.74 | 5.83 |
| | 1843 | 0.60 | 0.00 | 0.66 | 1.47 | 2.35 | 2.82 | 3.87 | 4.47 | 4.62 | 5.23 | 4.27 |
| | 1844 | 0.30 | 0.00 | 0.53 | 1.66 | 2.58 | 3.54 | 4.24 | 4.98 | 5.51 | 6.13 | 5.67 |
| | 1845 | 0.40 | 0.00 | 0.56 | 1.70 | 2.71 | 3.42 | 4.13 | 5.04 | 5.00 | 5.68 | 5.53 |
| | 1846 | 1.92 | 0.24 | 0.00 | 0.86 | 1.47 | 3.06 | 3.11 | 5.89 | 5.11 | 5.93 | 5.37 |
| | 1847 | 1.56 | 0.33 | 0.00 | 1.21 | 1.44 | 1.62 | 4.00 | 4.77 | 5.19 | 8.35 | 7.53 |
| Reduced Means | 0.76 | 0.00 | 0.29 | 1.40 | 2.13 | 2.86 | 3.96 | 4.97 | 5.11 | 6.09 | 5.61 | |
| DECEMBER. | 1842 | 0.76 | 0.00 | 0.27 | 0.78 | 1.94 | 2.53 | 3.50 | 3.85 | 4.29 | 4.48 | 4.72 |
| | 1843 | 1.14 | 0.03 | 0.00 | 1.11 | 1.85 | 3.33 | 3.80 | 3.66 | 4.24 | 4.43 | 4.06 |
| | 1844 | 1.19 | 0.14 | 0.00 | 0.87 | 1.99 | 2.83 | 3.61 | 4.62 | 4.56 | 5.05 | 5.84 |
| | 1845 | 0.98 | 0.00 | 0.19 | 0.95 | 2.05 | 2.65 | 3.34 | 4.25 | 4.27 | 4.46 | 4.43 |
| | 1846 | 1.25 | 0.32 | 0.00 | 0.51 | 1.25 | 2.45 | 2.69 | 3.94 | 5.13 | 5.09 | 5.94 |
| | 1847 ^a | 5.01 | 3.29 | 2.35 | 3.55 | 3.92 | 4.44 | 6.07 | 6.27 | 7.09 | 7.35 | 7.92 |
| Reduced Means | 0.97 | 0.01 | 0.00 | 0.75 | 1.73 | 2.67 | 3.30 | 3.97 | 4.41 | 4.61 | 4.91 | |

^a Omitted in the Means, on account of the unusual magnitude of the disturbance.

DIURNAL VARIATION OF THE DECLINATION.

Months, from July 1842 to June 1848, inclusive—continued.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | Monthly Means. |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| 7.64 | 8.64 | 6.27 | 5.81 | 6.36 | 6.14 | 9.34 | 9.54 | 11.09 | 12.28 | 10.71 | 7.90 | 5.05 | 6.28 |
| 7.30 | 7.81 | 7.33 | 7.20 | 7.28 | 8.01 | 8.23 | 10.66 | 11.66 | 11.28 | 9.86 | 6.95 | 4.13 | 6.23 |
| 7.03 | 7.56 | 7.55 | 6.53 | 6.34 | 7.61 | 8.72 | 10.20 | 11.96 | 12.14 | 10.47 | 7.14 | 3.95 | 6.07 |
| 8.04 | 7.93 | 8.22 | 7.86 | 7.20 | 7.78 | 9.42 | 11.41 | 13.05 | 13.51 | 12.51 | 9.40 | 5.37 | 6.96 |
| 7.76 | 7.65 | 7.24 | 5.86 | 5.10 | 5.83 | 8.45 | 9.99 | 11.72 | 11.77 | 10.17 | 8.11 | 4.41 | 5.82 |
| 8.15 | 7.79 | 7.08 | 6.67 | 7.22 | 7.08 | 8.28 | 12.72 | 13.81 | 13.49 | 10.57 | 7.67 | 3.96 | 6.58 |
| 7.45 | 7.70 | 7.08 | 6.46 | 6.38 | 6.88 | 8.54 | 10.55 | 12.02 | 12.21 | 10.51 | 7.66 | 4.28 | 6.12 |
| 8.62 | 7.78 | 6.68 | 6.91 | 7.22 | 8.33 | 9.52 | 11.53 | 13.18 | 12.40 | 9.90 | 5.55 | 1.80 | 6.75 |
| 6.84 | 6.42 | 6.78 | 7.16 | 7.15 | 7.75 | 8.92 | 11.20 | 12.85 | 12.50 | 10.41 | 6.58 | 3.73 | 6.56 |
| 7.90 | 8.70 | 8.31 | 7.50 | 7.03 | 8.13 | 9.22 | 12.29 | 13.28 | 13.14 | 10.70 | 6.78 | 3.00 | 7.09 |
| 9.68 | 8.18 | 8.13 | 7.56 | 9.09 | 7.93 | 9.68 | 12.47 | 14.20 | 14.84 | 11.95 | 7.69 | 3.55 | 7.68 |
| 9.20 | 8.33 | 6.11 | 7.14 | 6.92 | 6.14 | 7.08 | 10.13 | 12.49 | 12.81 | 11.26 | 7.46 | 4.51 | 6.94 |
| 9.48 | 9.72 | 10.42 | 9.94 | 9.86 | 11.45 | 12.87 | 15.23 | 17.67 | 17.34 | 15.11 | 10.08 | 6.07 | 9.18 |
| 8.39 | 7.82 | 7.14 | 7.19 | 7.42 | 7.60 | 8.82 | 11.46 | 13.14 | 13.08 | 10.78 | 6.75 | 3.26 | 6.94 |
| 6.80 | 7.04 | 7.19 | 6.45 | 8.43 | 8.18 | 7.73 | 9.92 | 11.22 | 10.19 | 8.38 | 5.54 | 2.15 | 6.06 |
| 6.38 | 7.29 | 7.66 | 7.00 | 7.07 | 7.27 | 7.11 | 9.20 | 10.89 | 10.40 | 8.31 | 5.13 | 2.52 | 5.97 |
| 7.67 | 9.14 | 7.58 | 8.23 | 8.51 | 8.10 | 8.04 | 10.87 | 11.69 | 10.63 | 8.85 | 4.98 | 1.88 | 6.99 |
| 7.75 | 7.78 | 7.05 | 7.06 | 8.03 | 9.37 | 9.60 | 10.11 | 10.73 | 9.62 | 7.82 | 4.71 | 1.94 | 6.64 |
| 7.04 | 6.33 | 7.28 | 8.78 | 8.03 | 9.37 | 9.23 | 8.01 | 9.81 | 8.82 | 8.01 | 4.73 | 1.64 | 6.08 |
| 8.00 | 9.49 | 10.31 | 8.74 | 9.77 | 9.75 | 9.93 | 8.05 | 3.63 | 11.08 | 10.15 | 8.29 | 6.15 | 7.26 |
| 7.02 | 7.41 | 7.24 | 7.39 | 7.90 | 8.35 | 8.23 | 9.51 | 10.76 | 9.82 | 8.16 | 4.91 | 1.92 | 6.24 |
| 6.11 | 4.22 | 4.03 | 3.48 | 4.15 | 4.90 | 4.68 | 5.45 | 7.04 | 8.36 | 7.64 | 5.28 | 2.45 | 4.18 |
| 4.40 | 3.74 | 4.27 | 4.28 | 4.35 | 4.63 | 4.42 | 4.10 | 5.84 | 6.34 | 6.62 | 4.80 | 2.25 | 3.65 |
| 5.54 | 5.35 | 5.19 | 4.82 | 4.36 | 5.40 | 5.61 | 5.40 | 5.66 | 6.84 | 6.60 | 4.57 | 2.10 | 4.30 |
| 4.30 | 4.68 | 5.02 | 5.34 | 5.65 | 6.09 | 5.72 | 4.84 | 5.09 | 5.99 | 4.92 | 3.54 | 1.51 | 3.72 |
| 7.56 | 6.70 | 6.19 | 5.21 | 5.20 | 6.08 | 6.27 | 5.91 | 5.50 | 6.20 | 6.49 | 5.33 | 2.89 | 4.81 |
| 3.73 | 2.84 | 5.86 | 8.17 | 6.55 | 6.88 | 8.08 | 7.36 | 6.97 | 8.28 | 8.64 | 7.30 | 3.64 | 4.75 |
| 5.23 | 4.55 | 5.05 | 5.18 | 5.00 | 5.62 | 5.76 | 5.47 | 5.98 | 6.96 | 6.78 | 5.10 | 2.43 | 4.20 |
| 5.73 | 5.31 | 4.17 | 3.86 | 4.56 | 5.02 | 5.91 | 5.03 | 5.34 | 6.02 | 5.85 | 3.93 | 1.95 | 4.13 |
| 4.63 | 3.46 | 3.27 | 3.29 | 3.39 | 4.07 | 4.30 | 4.69 | 5.08 | 5.60 | 5.38 | 3.77 | 1.56 | 3.45 |
| 4.71 | 3.89 | 3.54 | 3.34 | 4.39 | 3.41 | 4.35 | 3.75 | 5.53 | 5.87 | 5.71 | 4.36 | 1.59 | 3.73 |
| 4.81 | 4.52 | 4.20 | 3.77 | 4.50 | 3.62 | 5.56 | 4.82 | 6.25 | 6.84 | 6.00 | 4.15 | 1.48 | 3.95 |
| 5.15 | 5.20 | 3.76 | 3.47 | 4.81 | 5.25 | 4.38 | 5.44 | 5.66 | 6.02 | 6.72 | 5.50 | 3.65 | 4.08 |
| 7.44 | 5.68 | 4.46 | 5.57 | 5.93 | 5.87 | 5.97 | 6.65 | 6.13 | 8.13 | 7.81 | 6.66 | 4.90 | 4.88 |
| 5.32 | 4.59 | 3.81 | 3.79 | 4.51 | 4.45 | 4.99 | 4.97 | 5.57 | 6.32 | 6.16 | 4.64 | 2.43 | 3.95 |
| 3.79 | 3.38 | 2.94 | 2.24 | 3.10 | 3.53 | 5.48 | 3.82 | 4.00 | 4.83 | 5.37 | 4.67 | 2.61 | 3.20 |
| 3.66 | 3.38 | 2.94 | 2.48 | 2.86 | 3.15 | 3.50 | 4.11 | 4.08 | 4.03 | 4.25 | 4.07 | 2.68 | 3.04 |
| 4.98 | 4.23 | 3.62 | 2.86 | 3.14 | 3.80 | 3.62 | 4.03 | 4.42 | 4.45 | 5.17 | 4.50 | 2.57 | 3.42 |
| 4.79 | 4.56 | 3.73 | 3.10 | 3.86 | 3.60 | 3.31 | 3.08 | 3.47 | 3.72 | 4.27 | 3.32 | 2.47 | 3.12 |
| 4.73 | 4.19 | 3.63 | 3.94 | 4.09 | 4.41 | 3.65 | 4.26 | 4.72 | 5.22 | 6.26 | 5.45 | 3.29 | 3.60 |
| 8.06 | 7.56 | 8.15 | 6.91 | 7.43 | 7.05 | 0.00 | 3.35 | 4.58 | 7.38 | 7.04 | 7.74 | 6.32 | 5.78 |
| 4.30 | 3.86 | 3.28 | 2.83 | 3.32 | 3.61 | 3.82 | 3.77 | 4.05 | 4.36 | 4.97 | 4.31 | 2.63 | 3.19 |

TABLE VI.

Exhibits in one view the Mean Diurnal Variation in each Month of the Year, derived from the results in Table V.

| Toronto Mean Astron. Time. } | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| January . . . | 0·93 | 0·06 | 0·00 | 0·59 | 1·50 | 2·34 | 2·95 | 3·53 | 4·49 | 4·59 | 4·45 | 4·12 |
| February . . . | 0·23 | 0·00 | 0·00 | 0·84 | 1·70 | 2·16 | 2·88 | 3·25 | 4·08 | 4·25 | 4·34 | 3·94 |
| March . . . | 1·44 | 0·01 | 0·00 | 0·67 | 1·78 | 2·88 | 3·91 | 4·71 | 5·59 | 6·67 | 6·55 | 7·06 |
| April . . . | 1·23 | 0·00 | 0·06 | 0·92 | 2·58 | 4·11 | 5·16 | 6·16 | 6·95 | 7·29 | 7·13 | 7·59 |
| May . . . | 0·86 | 0·00 | 0·29 | 1·39 | 3·10 | 4·80 | 5·81 | 6·03 | 5·86 | 6·33 | 7·15 | 7·31 |
| June . . . | 1·37 | 0·00 | 0·02 | 0·94 | 2·53 | 4·35 | 5·45 | 6·11 | 6·10 | 6·66 | 6·66 | 6·87 |
| July . . . | 1·54 | 0·12 | 0·00 | 0·84 | 2·13 | 3·96 | 5·16 | 5·72 | 6·21 | 6·21 | 7·38 | 7·45 |
| August . . . | 0·98 | 0·00 | 0·68 | 2·50 | 4·36 | 5·91 | 7·33 | 7·24 | 7·88 | 8·66 | 8·27 | 8·39 |
| September . . . | 0·00 | 0·21 | 1·04 | 2·86 | 4·65 | 5·91 | 6·54 | 6·82 | 7·45 | 7·83 | 7·72 | 7·02 |
| October . . . | 0·43 | 0·00 | 0·24 | 1·30 | 2·24 | 3·01 | 4·20 | 4·27 | 4·91 | 5·66 | 5·55 | 5·23 |
| November . . . | 0·76 | 0·00 | 0·29 | 1·40 | 2·13 | 2·86 | 3·96 | 4·97 | 5·11 | 6·09 | 5·61 | 5·32 |
| December . . . | 0·97 | 0·01 | 0·00 | 0·75 | 1·73 | 2·67 | 3·30 | 3·97 | 4·41 | 4·61 | 4·91 | 4·30 |
| Toronto Mean Astron. Time. } | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
| January . . . | 3·72 | 3·48 | 3·69 | 3·93 | 4·52 | 4·00 | 3·94 | 4·50 | 5·54 | 5·96 | 4·85 | 3·09 |
| February . . . | 3·66 | 3·17 | 3·43 | 3·77 | 3·91 | 4·74 | 4·74 | 5·16 | 5·70 | 4·86 | 3·71 | 1·73 |
| March . . . | 6·12 | 6·42 | 6·58 | 6·35 | 6·69 | 6·58 | 7·12 | 8·06 | 9·18 | 9·16 | 7·11 | 4·18 |
| April . . . | 7·38 | 7·48 | 7·50 | 7·92 | 8·37 | 8·41 | 9·35 | 9·70 | 9·94 | 8·94 | 6·76 | 3·71 |
| May . . . | 7·14 | 6·53 | 6·24 | 6·72 | 7·30 | 9·02 | 10·55 | 11·52 | 11·55 | 9·72 | 6·44 | 3·04 |
| June . . . | 6·77 | 6·50 | 6·37 | 6·36 | 7·29 | 9·03 | 11·34 | 12·34 | 12·09 | 10·54 | 7·67 | 4·04 |
| July . . . | 7·70 | 7·08 | 6·46 | 6·38 | 6·88 | 8·54 | 10·55 | 12·02 | 12·21 | 10·51 | 7·66 | 4·28 |
| August . . . | 7·82 | 7·14 | 7·19 | 7·42 | 7·60 | 8·82 | 11·46 | 13·14 | 13·08 | 10·78 | 6·75 | 3·26 |
| September . . . | 7·41 | 7·24 | 7·39 | 7·90 | 8·35 | 8·23 | 9·51 | 10·76 | 9·82 | 8·16 | 4·91 | 1·92 |
| October . . . | 4·55 | 5·05 | 5·18 | 5·00 | 5·62 | 5·76 | 5·47 | 5·98 | 6·96 | 6·78 | 5·10 | 2·43 |
| November . . . | 4·59 | 3·81 | 3·79 | 4·51 | 4·45 | 4·99 | 4·97 | 5·57 | 6·32 | 6·16 | 4·64 | 2·43 |
| December . . . | 3·86 | 3·28 | 2·83 | 3·32 | 3·61 | 3·82 | 3·77 | 4·05 | 4·36 | 4·97 | 4·31 | 2·63 |

HOURLY POSITION OF THE MAGNET.

TABLE VII.

Exhibits the Mean Hourly Position of the Magnet in each Month of the Year, relatively to its general Mean Position in the Month; the sign + implies that the North end of the Magnet is to the East, and - to the west of the Mean Position in the Month.

| Toronto Mean Astron. Time. } | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| January . . | -2.44 | -3.31 | -3.37 | -2.78 | -1.87 | -1.03 | -0.42 | +0.16 | +1.12 | +1.22 | +1.08 | +0.75 |
| February . . | -2.93 | -3.51 | -3.16 | -2.32 | -1.46 | -1.00 | -0.28 | +0.09 | +0.92 | +1.09 | +1.18 | +0.78 |
| March . . | -3.76 | -5.19 | -5.20 | -4.53 | -3.42 | -2.32 | -1.29 | -0.49 | +0.39 | +1.47 | +1.35 | +1.86 |
| April . . | -4.80 | -6.03 | -5.97 | -5.11 | -3.45 | -1.92 | -0.87 | +0.13 | +0.92 | +1.26 | +1.10 | +1.56 |
| May . . | -5.17 | -6.03 | -5.74 | -4.64 | -2.93 | -1.23 | -0.22 | 0.00 | -0.17 | +0.30 | +1.12 | +1.28 |
| June . . | -4.77 | -6.14 | -6.12 | -5.20 | -3.61 | -1.79 | -0.69 | -0.03 | -0.04 | +0.52 | +0.52 | +0.73 |
| July . . | -4.58 | -6.00 | -6.12 | -5.28 | -3.99 | -2.16 | -0.96 | -0.40 | +0.09 | +0.09 | +1.26 | +1.33 |
| August . . | -5.96 | -6.94 | -6.26 | -4.44 | -2.58 | -1.03 | +0.39 | +0.30 | +0.94 | +1.72 | +1.33 | +1.45 |
| September . | -6.24 | -6.03 | -5.20 | -3.38 | -1.59 | -0.33 | +0.30 | +0.58 | +1.21 | +1.59 | +1.48 | +0.78 |
| October . . | -3.77 | -4.20 | -3.96 | -2.90 | -1.96 | -1.19 | 0.00 | +0.07 | +0.71 | +1.46 | +1.35 | +1.03 |
| November . | -3.19 | -3.95 | -3.66 | -2.55 | -1.82 | -1.09 | +0.01 | +1.02 | +1.16 | +2.14 | +1.66 | +1.37 |
| December . | -2.22 | -3.18 | -3.19 | -2.44 | -1.46 | -0.52 | +0.11 | +0.78 | +1.22 | +1.42 | +1.72 | +1.11 |
| Toronto Mean Astron. Time. } | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
| January . . | +0.35 | +0.11 | +0.32 | +0.56 | +1.15 | +0.63 | +0.57 | +1.13 | +2.17 | +2.59 | +1.48 | -0.28 |
| February . . | +0.50 | +0.01 | +0.27 | +0.61 | +0.75 | +1.58 | +1.58 | +2.00 | +2.54 | +1.70 | +0.55 | -1.43 |
| March . . | +0.92 | +1.22 | +1.38 | +1.15 | +1.49 | +1.38 | +1.92 | +2.86 | +3.98 | +3.96 | +1.91 | -1.02 |
| April . . | +1.35 | +1.45 | +1.47 | +1.89 | +2.34 | +2.38 | +3.32 | +3.76 | +3.91 | +2.91 | +0.73 | -2.32 |
| May . . | +1.11 | +0.50 | +0.21 | +0.69 | +1.31 | +2.99 | +4.52 | +5.49 | +5.52 | +3.69 | +0.41 | -2.99 |
| June . . | +0.63 | +0.36 | +0.23 | +0.22 | +1.15 | +2.89 | +5.20 | +6.20 | +5.95 | +4.40 | +1.53 | -2.10 |
| July . . | +1.58 | +0.96 | +0.34 | +0.26 | +0.76 | +2.42 | +4.43 | +5.90 | +6.09 | +4.39 | +1.54 | -1.84 |
| August . . | +0.88 | +0.20 | +0.25 | +0.48 | +0.66 | +1.88 | +4.52 | +6.20 | +6.14 | +3.84 | -0.19 | -3.68 |
| September . | +1.17 | +1.00 | +1.15 | +1.66 | +2.11 | +1.99 | +3.27 | +4.52 | +3.58 | +1.92 | -1.33 | -4.32 |
| October . . | +0.35 | +0.85 | +0.98 | +0.80 | +1.42 | +1.56 | +1.27 | +1.78 | +2.76 | +2.58 | +0.90 | -1.77 |
| November . | +0.64 | -0.14 | -0.16 | +0.56 | +0.50 | +1.04 | +1.02 | +1.62 | +2.37 | +2.21 | +0.69 | -1.51 |
| December . | +0.67 | +0.09 | -0.36 | +0.13 | +0.42 | +0.63 | +0.58 | +0.86 | +1.17 | +1.78 | +1.12 | -0.56 |

Corrections to Monthly Mean Values for the different Observation Hours.—Table VII. furnishes corrections to be applied in each month to the Mean of the Observations taken at Toronto at any one of the observation hours in that month. By this table the Mean Declination, as it would have been obtained (according to the results of six years of hourly observation) by twenty-four observations at equal intervals in each day, may be assigned for the Mean of Observations taken at one only of the observation hours. The Declinations being West, the corrections must be applied with the same signs as those in the Table.

Remarks on the Annual and Diurnal Variations.—It is well known that in the middle latitudes, geographical and magnetical, of both hemispheres, the north end of the magnet, in its mean diurnal course, has its extreme east and west positions about the hours of 7 or 8 A.M. and of 1 or 2 P.M.; having in the northern hemisphere its eastern extreme at the earlier hour, and its western extreme at the later hour, and in the southern hemisphere conversely, its western extreme at the earlier or forenoon hour, and its eastern at the later or afternoon hour. The Abstracts in the first volumes of the Toronto and Hobarton Observations respectively, have shown that the mean diurnal variation at those stations is in conformity with this law; the precise epoch of both extremes is somewhat earlier at Toronto than at Hobarton; but passing by for the moment this small difference, we may state in general terms that the principal features of the mean diurnal variation at Toronto and Hobarton consist in the north end of the magnet being at about 7 or 8 A.M. at its greatest eastern extreme at Toronto and western at Hobarton, and at about 1 or 2 P.M. its greatest western extreme at Toronto and eastern at Hobarton; the north end of the magnet being thus at opposite extremes of its diurnal course at the same hours of local time in opposite hemispheres. Let us now direct our attention to the *Annual Variations* at these hours respectively, taking first the forenoon period, or 7 to 8 A.M.

We find at Toronto at this hour an annual variation, of which the principal feature is, that at the northern solstice the north end of the magnet is at the eastern extreme of a periodical movement, which, apart from, and independently of, all other movements whatsoever, has its opposite or western extreme at the period of the southern solstice, and returns into itself at the next return of the northern solstice. It is, therefore, strictly an *Annual Variation*, or a variation whose period is a year. Its amount at the hour of 7 to 8 A.M. is at Toronto about five minutes of Declination.

If now we turn our attention to Hobarton at the same hour of local time, we find an Annual variation existing there also, which in character and amount is almost precisely the same as that which has been described at Toronto. In the mean *Diurnal Variation* at these stations, as already mentioned, 7 or 8 A.M. is the local hour for the extreme *easterly* elongation at Toronto, and *westerly* at Hobarton; but such inversion does not take place in the *Annual Variation*. On the contrary, at Hobarton as well as at

Toronto, the period of the northern solstice is that of the eastern extreme in the annual variation which the north end of the magnet undergoes, whilst the southern solstice is in like manner at both stations the period of the western extreme of the annual variation.

If from Toronto and Hobarton we pass to the consideration of the phenomena at St. Helena, a station differing widely, both geographically and magnetically, from either of the others, and, as situated within the tropics, partaking but very slightly in those climatic peculiarities of *season* by which extra-tropical stations are affected, we find at the same hour of 7 to 8 A.M. an annual variation almost precisely similar in character and amount to the phenomena described at Toronto and Hobarton. The northern solstice is here also the epoch of greatest eastern elongation, and the southern solstice that of greatest western elongation in the annual variation which the direction of the north end of the magnet undergoes. The amount of the periodical movement is also about five minutes of declination.

The Cape of Good Hope presents likewise at the same hour phenomena of annual variation which are almost precisely similar to those described at the three preceding stations. A plate has been engraved in the Philosophical Transactions for 1851, Art. XXVIII., in which this accordant annual variation at the four stations can be examined in greater detail than it is here described.

So far, then, as these four stations, so widely separated from each other, and so diversely situated, justify a generalisation, we may arrive at the conclusion that at the local hour of 7 to 8 A.M. the magnetic declination is *everywhere* subject to a variation of which the period is a year, and which is everywhere similar in character and amount, consisting of a movement of the north end of the magnet from east to west between the northern and the southern solstice, and a return from west to east between the southern and northern solstice, the amplitude of the variation being about 5 minutes of arc.

Such is the first and leading view of the phenomena of the annual variation at the hour of 7 to 8 A.M.; they are, as we have seen, sensibly the same in character and numerical amount at all the stations which form the basis of the generalisation.

When we follow the annual variation (still at the same hour) into further details—into those, for example, which mark the *periods of the year* which are the turning periods of the variation—we find a no less remarkable accordance. The turning periods are not, as many might be disposed to anticipate, those months in which the temperature at the surface of our planet, or of the subsoil, or of the atmosphere (as far as we possess the means of judging of the temperature of the atmosphere) attains its maximum and minimum. Stations so diversely situated would indeed present in these respects thermic conditions of great variety; whereas uniformity in the epoch of the turning periods is a not less conspicuous feature in the annual variation than is

similarity in character and numerical value. At all the stations the *solstices* are the turning periods of the annual variation at the hour of which we are treating. At each of the four stations we find the two months which precede and the two months which follow the northern solstice congregated together near one extremity of the annual range, whilst the two months which precede and the two which follow the southern solstice, are in like manner congregated near the other extremity of the range, the intermediate months ranging intermediately; whilst from the observations at St. Helena and the Cape of Good Hope, where, by reason of the diminished occurrence and amount of the so-called irregular disturbances, we are able from observations of a definite duration to obtain a more precise insight into the march of the phenomena, we find that we can trace the epoch of the passage through the mean position (or the position which is a mean between the extremes of the annual variation) almost to the very day of the equinox.

If then we permit ourselves to imagine the annual variation at 7 or 8 A.M. to be represented, as it is represented in Plate I., by a dark vertical line of about five inches in length, corresponding to the same number of minutes of declination, and if we further imagine this line, having the several months marked upon it in their respective places, to be incapable of inversion, but capable of being moved upwards and downwards in a vertical direction, so that at one station it may be altogether *above* a horizontal line indicating the mean declination, or mean position of the north end of the magnet in all the months and at all the hours, whilst at a second station at the same hour it may be altogether *below* a mean declination line, and at a third and fourth station it may be intersected in its length by the mean declination line, we at once figure to ourselves the combined phenomena of the annual and diurnal variations at Toronto, Hobarton, St. Helena, and the Cape at the hour of 7 to 8 A.M., local time, at each of the stations. At Toronto, in the northern hemisphere, the vertical line of annual variation is in its whole length *above*, or to the *east** of the horizontal line which marks the mean declination; so that in every month of the year the declination at the hour of 7 to 8 A.M. is to the east of the mean declination at all the hours and in all the months. At Hobarton, in the southern hemisphere, the vertical line of the annual variation is, on the other hand, in its whole length *below*, or to the *west* of the horizontal line which marks the mean declination; so that in every month of the year the declination at the hour of 7 to 8 A.M. is to the west of the mean declination. At St. Helena and the Cape, which in one sense at least may be classed together as magnetically equatorial stations, the position of the vertical line of annual variation, in reference to that of the line of mean declination, is nearly midway between the extreme positions which it occupies at Toronto and Hobarton. It is

* In the plates in these volumes illustrating the periodical variations of the declination, the upper part of the plate always represents the East, and the lower the West.

crossed and nearly bisected by the line of mean declination, so that at St. Helena and the Cape, during the months when the sun is north of the equator, the direction of the north end of the magnet is to the *east*, and during the months when he is to the south of the equator, to the *west* of the line of mean declination.

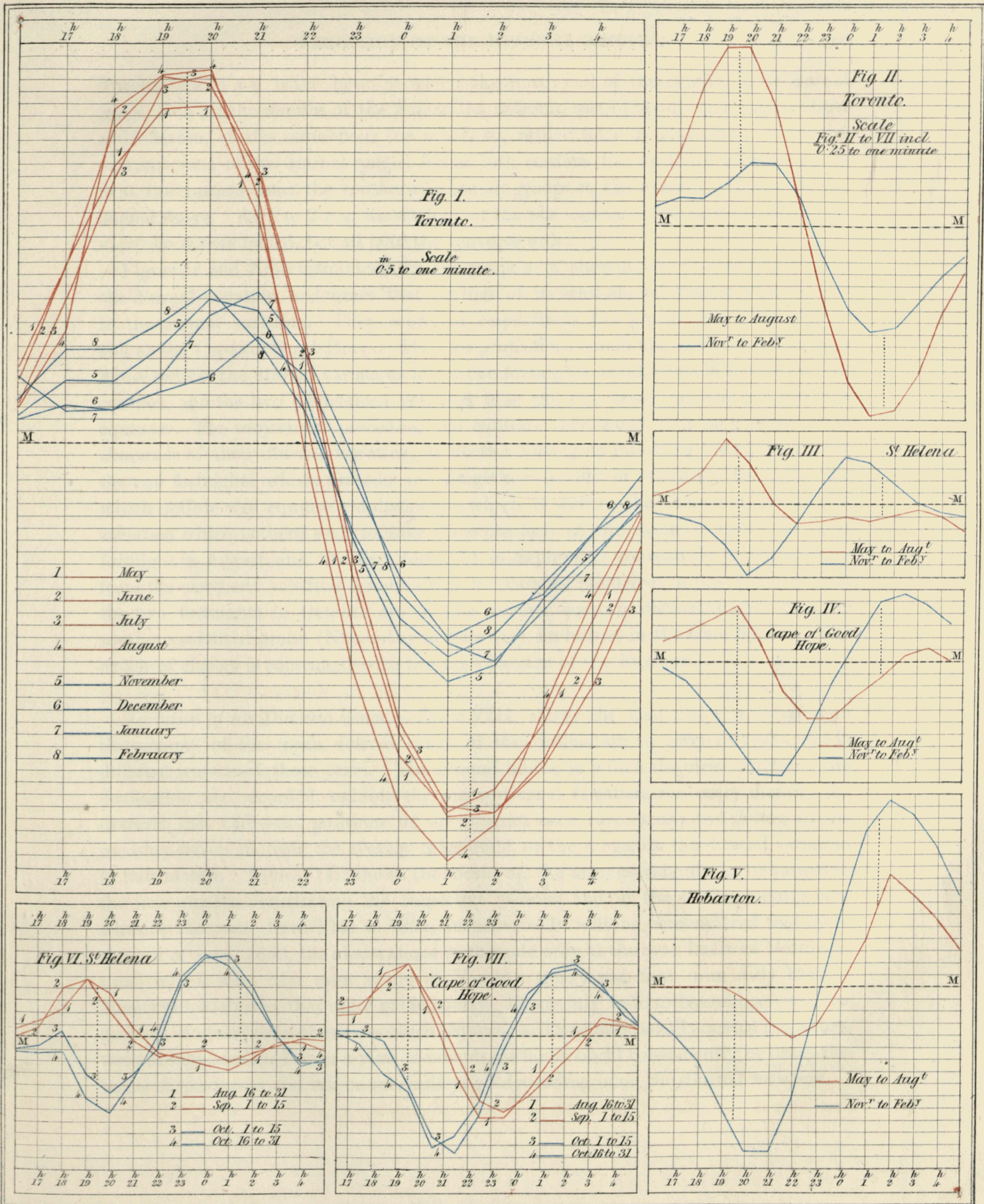
It is the existence of an annual variation everywhere of some minutes in amount, which chiefly prevents the realization in nature of the *à priori* supposition, that the horary variation, or the horary departure of the direction of the magnet from its mean direction in the 24 hours, would vanish in the equatorial regions, or in passing from the northern to the southern magnetic hemisphere. It is indeed possible (not at all hours, but still keeping to the hour of 7 to 8 A.M., as compared with the mean declination at all the hours and in all the months), so to group the phenomena as to afford *on the mean of the whole year* an apparent realization of the above supposition; but it would be merely apparent and illusive, having no true conformity with the reasonings on which such a supposition was propounded by the eminent persons by whom it was not unnaturally entertained previous to the evidence which a complete system of observation, such as we now possess, was alone adequate to afford. Such an illusory disappearance at St. Helena of the horary variation would be obtained by combining the opposite variations at 7 or 8 A.M. of the two six-monthly periods into a mean, in which the opposite signs by which they are characterized in the different months would nearly counterbalance each other in their sum. But the only periods of the year in which the diurnal or horary variation at that hour does actually disappear are at the equinoxes, when the sun is passing from the one hemisphere to the other, and when the magnetic direction, in the course of its annual variation from east to west, or *vice versâ*, coincides with the direction which is the mean declination of all the months and of all the hours.

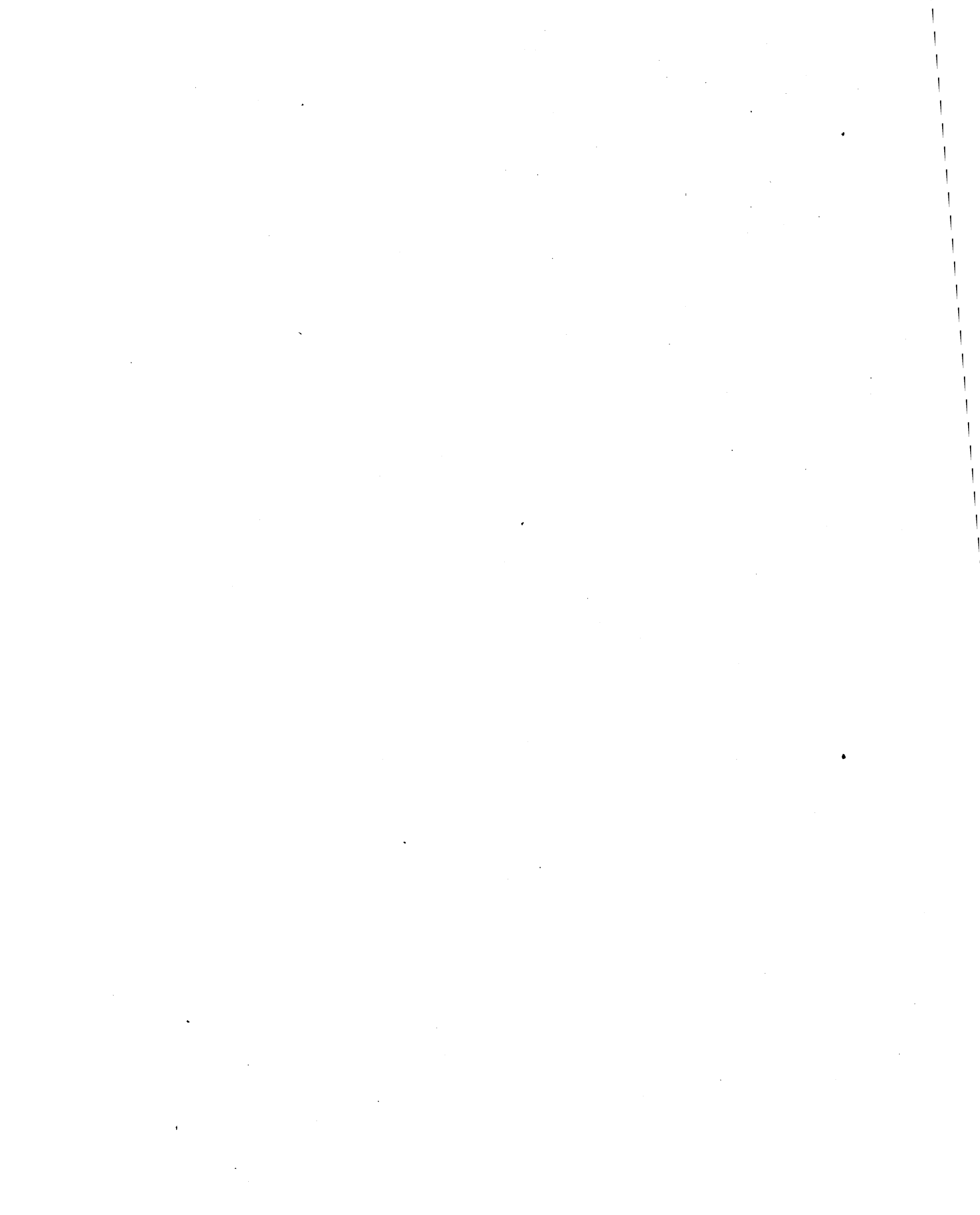
If we now direct our attention to the hour of 1 to 2 P.M., the hour at which the north end of the magnet is at the *western* extreme of its *diurnal* range at Toronto, and at the *eastern* extreme at Hobarton, we find that at this hour also there is in the *annual* variation no inversion in the opposite hemispheres. The months adjacent to the one solstice are near one and the same extreme of the annual range at Toronto and Hobarton; and the months adjacent to the other solstice are near the opposite extreme alike at both these stations. The order of the months in the annual range is indeed different at 1 to 2 P.M. from what it was at 7 to 8 A.M., the deflection being at 1 to 2 P.M. to the west at the northern solstice, and to the east at the southern solstice. But the point under present consideration is the comparison of the two stations at one and the same hour; and in this respect we find the phenomena shown by the annual and diurnal variations at 1 to 2 P.M. analogous to that which has been described at 7 to 8 A.M. in presenting an opposite deflection at Toronto and Hobarton in the diurnal variation, and a similar deflection in the annual variation. The annual variation is obviously connected with, and dependent on, the earth's position in its orbit relatively

to the sun around which it revolves, as the diurnal variation is connected with and dependent on the rotation of the earth on its axis, by which each meridian successively passes through every angle of inclination to the sun in the round of 24 hours.

The seven figures in Plate II. have been drawn to illustrate the principal points of this discussion. In fig. 1 the combined annual and diurnal variations at Toronto are represented during the hours of the day, being the hours when the phenomena of both are most marked. The red lines show the actual march of the declination in the months of May, June, July and August, relatively to the mean declination in all the months and all the hours represented by the horizontal line M M, and are projected from the data in Table VII.; the blue lines show in like manner the march of the declination in the months of November, December, January and February, at the respective hours relatively to the same line, and taken from the same table. It is here seen that the months of May, June, July and August,—being the two months immediately preceding and the two months immediately following the northern solstice,—are almost identical with each other, and can scarcely be distinguished apart; whilst on the other hand, November, December, January, and February—the two months immediately preceding and the two months immediately following the southern solstice—differ greatly from the former, but closely resemble each other. The slightly darkened portions of the verticals at each hour show the annual variation at the several hours. The positions which the months intermediate between the two solstitial groups hold in the annual range are omitted in this plate, to avoid the multiplicity of lines, but they may be referred to in the corresponding projections in Plate I. As a consequence of the *diurnal* variation, the annual variations in the hours of the forenoon are found at Toronto, when exhibited in their true declination values, *above*, or to the *east* of the line M M, and in the hours of the afternoon, *below*, or to the *west* of the same line. The scale in this figure is half an inch to one minute of declination. In fig. 2 the phenomena at Toronto are again represented, but in smaller dimension, for the purpose of being seen in comparison with the corresponding phenomena at St Helena, the Cape, and Hobarton, severally exhibited in figs. 3, 4, and 5. In figs. 2, 3, 4, and 5 the two solstitial groups in each figure are represented by a single line, their components being, in fact, scarcely separable on so small a scale. The group of the northern solstice is in each figure characterised by the red colour, and the southern solstitial group by blue. It is seen that at the hour of 7 to 8 A.M. (19^h to 20^h) the red lines are uppermost at all the stations, and the annual variation at that hour shown by the dotted verticals is everywhere nearly of the same amount. At 1 to 2 P.M. the blue line is in like manner uppermost at all the stations, and the dotted verticals vary but little in magnitude. At 7 to 8 A.M. (19^h to 20^h) the dotted vertical showing the annual variation is, at Toronto, in its whole length above, or to the east of the line of mean declination M M; at St. Helena and the Cape it is crossed and nearly bisected by that line, and at Hobarton it is in its whole length below, or to the west of M M. At

Illustrations of the Annual and Diurnal Variations of the Declination.





Toronto 7 to 8 A.M. is the hour at which the north end of the magnet, in its diurnal range, is in all the months of the year at the extreme east of its diurnal range, whilst at Hobarton, at the same hour (or nearly so, rather later at Hobarton), it is at the extreme west of its diurnal range; but at both stations the northern solstitial group is at the eastern, and the southern solstitial group at the western extreme of the annual range. At 1 to 2 P.M. the analogy of the phenomena of the annual and diurnal variation is maintained, but all is in the converse order.

Figures 6 and 7 are introduced for the purpose of showing the precise epoch when the diurnal variation undergoes that portion of its semi-annual change which is due to the annual variation. They represent respectively the phenomena at St. Helena and at the Cape of Good Hope. The two projections which are coloured red in each figure exhibit the diurnal variations in the two fortnights which precede the September equinox, and the two projections coloured blue the two fortnights which follow the equinox. The projections preceding the equinox correspond with each other in the character of their diurnal variation, as do the fortnights following the equinox; but the two fortnights which precede are altogether distinct in character from the two which follow the equinox; a distinction which is due to the change in the annual variation which is there seen to take place precisely at the equinox itself. The last fortnight in August and the first fortnight in September are scarcely distinguishable from the northern solstitial group (May to August, inclusive) in figs. 3 and 4; and the two fortnights in October are in like manner scarcely distinguishable from the southern solstitial group (November to February, inclusive) in the same figures. The epoch of change is coincident with the sun's passage of the Equator.

Variation of the Diurnal Range.—Table VIII. shows the inequality, or variation in the amount, of the mean diurnal range of the declination in different years, and in different seasons of those years. The general tables, in which the observations of the declination are recorded, exhibit the mean diurnal variation for every month; the extreme east and west positions of the magnet occurring at any two hours in the monthly means indicate the average magnitude, or the range, of the diurnal variation in that month. Table VIII. shows the means of the average magnitudes or ranges in the four months constituting the respective seasons, and in the twelve months constituting the year, from 1841 to 1851, inclusive. It will be remembered that up to the end of June, 1842, the observations were made only at the even hours of Göttingen time, which were also even hours of Toronto time; and that from July 1842 to June 1848, inclusive, they were made hourly. From July 1848 to December 1851 the number of observation hours was much reduced, and was occasionally varied; but they were always arranged with a view to include, as far as could conveniently be done, the hours of maximum and minimum declination depending upon the diurnal variation.

TABLE VIII.

Mean Magnitude of the Diurnal Range of the Declination from 1841 to 1851 inclusive.

| YEARS. | Winter. | Spring and Autumn. | Summer. | Mean of the whole Year. | YEARS. |
|--------|--|-----------------------------------|--------------------------|-------------------------|--------|
| | November, December, January, February. | March, April, September, October. | May, June, July, August. | | |
| 1841 | 6·67 | 9·46 | 12·38 | 9·50 | 1841 |
| 1842 | 5·67 | 8·87 | 11·48 | 8·67 | 1842 |
| 1843 | 5·64 | 9·36 | 11·70 | 8·90 | 1843 |
| 1844 | 5·70 | 8·74 | 12·17 | 8·87 | 1844 |
| 1845 | 5·73 | 9·15 | 13·36 | 9·41 | 1845 |
| 1846 | 6·33 | 9·21 | 12·27 | 9·27 | 1846 |
| 1847 | 7·28 | 10·08 | 13·84 | 10·40 | 1847 |
| 1848 | 9·48 | 11·04 | 15·82 | 12·11 | 1848 |
| 1849 | 8·25 | 12·25 | 14·80 | 11·77 | 1849 |
| 1850 | 8·01 | 10·90 | 13·74 | 10·88 | 1850 |
| 1851 | 7·01 | 10·82 | 12·61 | 10·15 | 1851 |

Analysis of the larger Disturbances of the Declination.—For the purpose of investigating the laws which regulate the occurrence of the class of magnetic disturbances of the declination which are called in the Royal Society's Instructions the "Irregular Variations," all the observations taken in the seven and a-half years from January 1841 to July 1848 inclusive (two-hourly to June 30th, 1842, and hourly from July 1st, 1842, to June 30th, 1848), which differed to an amount of five scale divisions, or 3'·6 of declination, from the mean or normal position of the magnet in the same month and at the same hour, were separated from the remainder of the observations, and have been submitted to an examination of which the results are contained in the following pages. The number of observations thus separated amounted in the seven and a-half years to 5,322; the number of observations from which they were taken was, in the same period, 50,097; the disturbed observations consequently averaged 1 in 9·4 of the whole number. The ratio in different years varied considerably, as will be seen by the following Table:—

TABLE IX.

| YEARS. | Number of Observations. | Number of Disturbed Observations. | Ratio of the Disturbed Observations to the whole number. | YEARS. | Number of Observations. | Number of Disturbed Observations. | Ratio of the Disturbed Observations to the whole number. |
|--------|-------------------------|-----------------------------------|--|--------|-------------------------|-----------------------------------|--|
| 1841 | 3,606 | 570 | 1 : 6·3 | 1845 | 7,455 | 567 | 1 : 13·1 |
| 1842 | 5,635 | 606 | 1 : 9·3 | 1846 | 7,464 | 1,031 | 1 : 7·2 |
| 1843 | 7,463 | 472 | 1 : 15·8 | 1847 | 7,272 | 941 | 1 : 7·7 |
| 1844 | 7,482 | 596 | 1 : 12·6 | 1848 | 3,720 | 538 | 1 : 6·9 |

The column of ratios shows that 1843, 1844, and 1845, were years in which the proportion of observations affected by a certain amount of disturbance was much

smaller than the preceding years 1841 and 1842, or than the following years 1846, 1847, and 1848.

Table X. shows the aggregate values of the disturbed observations in the different years in scale divisions, one scale division = 0'·721 of declination. The values in this Table respectively divided by the *numbers* in Table IX. show the *average value* of a disturbed observation in each of the years. It is seen by this Table that the average values were, generally speaking, highest in the years when the number of observations affected by a certain definite amount of disturbance was greatest; 1844 is the most marked exception.

TABLE X.

Aggregate Values and Average Values of the Disturbed Observations in the different Years.

| YEARS. | Aggregate Value of the Disturbed Observations. | Average Value of a Disturbed Observations. | YEARS. | Aggregate Value of the Disturbed Observations. | Average Value of a Disturbed Observations. |
|--------|--|--|--------|--|--|
| | Sc. Div. | Sc. Div. | | Sc. Div. | Sc. Div. |
| 1841 | 5013·5 | 8·8 | 1845 | 4584·6 | 8·1 |
| 1842 | 4951·5 | 8·2 | 1846 | 9231·4 | 8·9 |
| 1843 | 3671·8 | 7·8 | 1847 | 10296·3 | 10·9 |
| 1844 | 5345·9 | 9·0 | 1848 | 5261·4 | 9·8 |

Table XI. exhibits the disturbed observations in different years, divided into their easterly and westerly components, both of numbers and aggregate values; as well as the average value of an easterly and of a westerly disturbance in each year.

TABLE XI.

| YEARS. | EASTERLY. | | WESTERLY. | | AVERAGE VALUES. | | YEARS. |
|--------|-----------|---------|-----------|---------|-----------------|-----------|--------|
| | Numbers. | Values. | Numbers. | Values. | Easterly. | Westerly. | |
| 1841 | 282 | 2586·4 | 288 | 2427·1 | 9·2 | 8·4 | 1841 |
| 1842 | 327 | 2700·8 | 279 | 2250·7 | 8·3 | 8·1 | 1842 |
| 1843 | 268 | 2100·6 | 204 | 1571·2 | 7·8 | 7·7 | 1843 |
| 1844 | 327 | 2999·1 | 269 | 2346·8 | 9·2 | 8·7 | 1844 |
| 1845 | 298 | 2442·8 | 269 | 2141·8 | 8·2 | 8·0 | 1845 |
| 1846 | 547 | 5068·7 | 484 | 4162·7 | 9·3 | 8·6 | 1846 |
| 1847 | 532 | 5020·4 | 409 | 5275·9 | 9·4 | 12·9 | 1847 |
| 1848 | 288 | 3030·3 | 250 | 2231·1 | 10·5 | 8·9 | 1848 |
| Sums . | 2,871 | 25949·1 | 2,452 | 22407·3 | 71·9 | 71·3 | Sums. |

The average values of an easterly and a westerly disturbed observation appear, on the mean of the eight years, to be nearly equal. The average value of an easterly disturbance was somewhat higher than that of a westerly disturbance in all the years except 1847, when the average value of a westerly exceeded, by a considerable amount, that of an easterly disturbed observation.

The numbers and aggregate values of the easterly disturbances preponderate in the mean of all the years, as well as in each separate year, except 1841, when there was a slight excess in the number of westerly disturbances, and 1847, when there was a slight excess in the aggregate values of the westerly disturbances. The ratio of easterly to westerly numbers and values in the $7\frac{1}{2}$ years is, of numbers 1.17 to 1, and of values 1.16 to 1.

The numbers and aggregate values in Tables IX. and X. are not strictly inter-comparable in the several years, because in 1841, and in the first six months of 1842, the observations were two-hourly, whilst in all the other years they were hourly, and in 1848 because the observations, although hourly, include only the first six months of that year. To render the whole inter-comparable at once by the eye, the numbers and aggregate values in 1841 and 1848 require to be doubled, and those of 1842 to be augmented in the proportion of 4 to 3: this is done in Table XII.

TABLE XII.

| YEARS. | Numbers. | Values. | YEARS. | Numbers. | Values. |
|--------|----------|---------|--------|----------|---------|
| 1841 | 1,140 | 10027.0 | 1845 | 567 | 4584.6 |
| 1842 | 808 | 6602.0 | 1846 | 1,031 | 9231.4 |
| 1843 | 472 | 3671.8 | 1847 | 941 | 10296.3 |
| 1844 | 596 | 5345.9 | 1848 | 1,076 | 10522.8 |

1843 is the year of minimum and 1848 of maximum disturbance, both in numbers and values; and between those years there is an approximate progression. If we take the means of the numbers and of the values in the years 1843 to 1848, inclusive, as the respective units, we obtain the ratios of the numbers and aggregate values in the several years as follows:—

TABLE XIII.

| | Numbers. | Values. | | Numbers. | Values. |
|-------------|----------|----------|-------------|----------|----------|
| Units . . . | 780.5 | 7275.5 | Units . . . | 780.5 | 7275.5 |
| | | Sc. Div. | | | Sc. Div. |
| Ratios | | | Ratios | | |
| 1841 | 1.46 | 1.38 | 1845 | 0.73 | 0.63 |
| 1842 | 1.04 | 0.91 | 1846 | 1.32 | 1.27 |
| 1843 | 0.61 | 0.50 | 1847 | 1.21 | 1.42 |
| 1844 | 0.76 | 0.73 | 1848 | 1.38 | 1.45 |

Tables XIV. and XV. show the numbers and aggregate values of the disturbed observations, distributed into the several *months* of their occurrence.

DISTURBANCES OF THE DECLINATION.

TABLE XIV.
Number of the Disturbed Observations in different Months.

| MONTHS. | 1841 | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | Sums. |
|--------------|------|------|------|------|------|-------|------|------|-------|
| January . . | 24 | 27 | 13 | 19 | 56 | 35 | 24 | 79 | 277 |
| February . . | 43 | 58 | 25 | 26 | 40 | 25 | 54 | 99 | 370 |
| March . . . | 35 | 31 | 29 | 63 | 32 | 53 | 75 | 112 | 430 |
| April . . . | 35 | 33 | 55 | 70 | 58 | 64 | 120 | 94 | 529 |
| May | 51 | 21 | 50 | 42 | 36 | 96 | 65 | 106 | 467 |
| June | 50 | 37 | 34 | 25 | 28 | 116 | 52 | 48 | 390 |
| July | 86 | 119 | 82 | 46 | 45 | 129 | 67 | — | 574 |
| August . . . | 72 | 60 | 48 | 80 | 72 | 166 | 81 | — | 579 |
| September . | 58 | 82 | 64 | 78 | 79 | 156 | 137 | — | 654 |
| October . . | 46 | 64 | 39 | 56 | 47 | 117 | 84 | — | 453 |
| November . . | 35 | 56 | 17 | 54 | 32 | 53 | 90 | — | 337 |
| December . . | 35 | 18 | 17 | 37 | 42 | 21 | 92 | — | 262 |
| Sums | 570 | 606 | 473 | 596 | 567 | 1,031 | 941 | 538 | 5,322 |

TABLE XV.
Aggregate Values of the Disturbed Observations in different Months.

| MONTHS. | 1841 | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | Sums. |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| January . . | Sc. Div. 194·2 | Sc. Div. 219·5 | Sc. Div. 117·3 | Sc. Div. 146·2 | Sc. Div. 472·1 | Sc. Div. 313·2 | Sc. Div. 188·1 | Sc. Div. 687·6 | Sc. Div. 2338·2 |
| February . . | 384·8 | 443·7 | 252·1 | 238·3 | 293·4 | 226·4 | 453·8 | 1191·4 | 3483·9 |
| March . . . | 308·6 | 211·8 | 216·7 | 656·6 | 241·1 | 494·2 | 790·3 | 1000·6 | 3919·9 |
| April . . . | 286·2 | 317·5 | 460·6 | 681·6 | 406·5 | 593·0 | 1298·4 | 1131·9 | 5175·7 |
| May | 387·6 | 142·7 | 364·3 | 355·3 | 244·2 | 772·0 | 717·9 | 939·9 | 3923·9 |
| June | 372·6 | 307·5 | 251·8 | 168·3 | 199·7 | 940·5 | 396·3 | 310·0 | 2946·7 |
| July | 683·2 | 1099·7 | 670·2 | 353·8 | 349·6 | 1102·3 | 610·6 | — | 4869·4 |
| August . . . | 699·2 | 504·0 | 334·9 | 616·2 | 626·9 | 1544·1 | 660·7 | — | 4986·0 |
| September . | 626·7 | 623·9 | 458·7 | 784·7 | 675·0 | 1480·9 | 1758·4 | — | 6408·3 |
| October . . | 417·8 | 458·1 | 297·3 | 547·2 | 436·7 | 1070·7 | 1220·0 | — | 4447·8 |
| November . . | 325·7 | 500·4 | 122·5 | 489·4 | 277·6 | 507·2 | 832·8 | — | 3055·6 |
| December . . | 326·9 | 122·7 | 125·4 | 308·3 | 361·8 | 186·9 | 1369·0 | — | 2801·0 |
| Sums | 5013·5 | 4951·5 | 3671·8 | 5345·9 | 4584·6 | 9231·4 | 10296·3 | 5261·4 | 48356·4 |

As the numbers and values in 1841, and in the first six months of 1842, in Tables XIV. and XV., are derived from two-hourly observations, the *mean* monthly numbers and values in the months from January to June, inclusive, are obtained by dividing the monthly sums by 7, and those from July to December, inclusive, by dividing the monthly sums by 6·5. The respective quotients are shown in Table XVI.

TABLE XVI.
Mean Monthly Numbers and Values of the Disturbed Observations.

| MONTHS. | Numbers. | Values. | MONTHS. | Numbers. | Values. |
|--------------|----------|----------------|--------------|----------|----------------|
| January . . | 39·6 | Sc. Div. 334·0 | July . . . | 88·3 | Sc. Div. 749·1 |
| February . . | 52·9 | 497·7 | August . . | 89·1 | 767·1 |
| March . . . | 61·4 | 560·0 | September . | 100·6 | 985·9 |
| April . . . | 75·6 | 739·4 | October . . | 69·7 | 684·3 |
| May | 66·7 | 560·6 | November . . | 51·8 | 470·1 |
| June | 55·7 | 421·0 | December . . | 40·3 | 430·9 |

If the mean of the twelve monthly numbers (66) and of the twelve monthly values (600·0 sc. div^{ns.}) are taken as units, the ratios in the several months are obtained as follows:—

TABLE XVII.

| MONTHS. | | | MONTHS. | | |
|----------------|----------|---------|-----------------|----------|---------|
| | Numbers. | Values. | | Numbers. | Values. |
| January . . . | 0·60 | 0·56 | July . . . | 1·34 | 1·25 |
| February . . . | 0·80 | 0·83 | August . . . | 1·35 | 1·28 |
| March . . . | 0·93 | 0·93 | September . . . | 1·53 | 1·64 |
| April . . . | 1·15 | 1·23 | October . . . | 1·05 | 1·14 |
| May . . . | 1·00 | 0·93 | November . . . | 0·78 | 0·78 |
| June . . . | 0·84 | 0·70 | December . . . | 0·61 | 0·72 |

April and September are the months of maxima, December or January, and June those of minima, both in numbers and values. The September maximum is higher than the April maximum; and the December or January minimum is lower than the June minimum. The maxima occur about the time of the equinoxes; the minima about the solstices.

Table XVIII. exhibits the mean monthly numbers and aggregate values in the different months, separated into their easterly and westerly components.

TABLE XVIII.

| MONTHS. | EASTERLY. | | WESTERLY. | | MONTHS. | EASTERLY. | | WESTERLY. | |
|----------------|-----------|-------------------|-----------|-------------------|-----------------|-----------|-------------------|-----------|-------------------|
| | Numbers. | Values. | Numbers. | Values. | | Numbers. | Values. | Numbers. | Values. |
| January . . . | 19·6 | Sc. Div. 175·8 | 20·0 | Sc. Div. 158·2 | July . . . | 50·0 | Sc. Div. 435·1 | 38·3 | Sc. Div. 314·0 |
| February . . . | 26·7 | 261·5 | 26·2 | 236·2 | August . . . | 48·6 | 441·7 | 40·5 | 325·4 |
| March . . . | 32·8 | 313·4 | 28·6 | 246·6 | September . . . | 58·2 | 522·8 | 42·4 | 463·1 |
| April . . . | 40·9 | 394·2 | 34·7 | 345·2 | October . . . | 36·0 | 359·7 | 33·7 | 324·6 |
| May . . . | 36·0 | 301·9 | 30·7 | 258·7 | November . . . | 25·8 | 226·5 | 26·0 | 243·6 |
| June . . . | 33·9 | 268·3 | 21·8 | 152·7 | December . . . | 18·3 | 159·4 | 22·0 | 271·5 |

If the means of the twelve monthly numbers (35·6 and 30·4) and of the twelve monthly values (321·7 and 278·3 sc. div^{ns.}) are taken as units, the ratios in the several months are obtained as follows:—

TABLE XIX.

| MONTHS. | EASTERLY. | | WESTERLY. | | MONTHS. | EASTERLY. | | WESTERLY. | |
|----------------|-----------|---------|-----------|---------|-----------------|-----------|---------|-----------|---------|
| | Numbers. | Values. | Numbers. | Values. | | Numbers. | Values. | Numbers. | Values. |
| January . . . | 0·55 | 0·55 | 0·66 | 0·57 | July . . . | 1·40 | 1·35 | 1·26 | 1·13 |
| February . . . | 0·75 | 0·81 | 0·86 | 0·85 | August . . . | 1·37 | 1·37 | 1·33 | 1·17 |
| March . . . | 0·92 | 0·97 | 0·94 | 0·89 | September . . . | 1·63 | 1·63 | 1·39 | 1·66 |
| April . . . | 1·15 | 1·23 | 1·14 | 1·24 | October . . . | 1·01 | 1·12 | 1·11 | 1·17 |
| May . . . | 1·01 | 0·94 | 1·01 | 0·93 | November . . . | 0·73 | 0·70 | 0·85 | 0·88 |
| June . . . | 0·95 | 0·83 | 0·72 | 0·55 | December . . . | 0·51 | 0·50 | 0·72 | 0·98 |

It is seen by Table XIX. that both the easterly and the westerly disturbances follow the same general law as that derived from their conjoint consideration in the remarks on Table XVII. ; the equinoxes are the epochs of maximum and the solstices of minimum, both of numbers and values.

Table XX. shows the ratios of the easterly to the westerly numbers and values of the disturbed observations, the westerly numbers and values in each month being taken as the units.

TABLE XX.

Ratios of Easterly to Westerly Disturbances in the several Months.

| MONTHS. | Numbers. | Values. | MONTHS. | Numbers. | Values. |
|----------------|----------|---------|-----------------|----------|---------|
| January . . . | 0·98 | 1·11 | July . . . | 1·31 | 1·39 |
| February . . . | 1·02 | 1·11 | August . . . | 1·20 | 1·36 |
| March . . . | 1·15 | 1·27 | September . . . | 1·37 | 1·13 |
| April . . . | 1·18 | 1·14 | October . . . | 1·07 | 1·11 |
| May . . . | 1·17 | 1·17 | November . . . | 0·99 | 0·93 |
| June . . . | 1·56 | 1·76 | December . . . | 0·83 | 0·59 |

The preponderance of easterly over westerly disturbances is greatest in June and least in December ; generally speaking, there is a progressive increase in the numbers and values of easterly disturbances, compared with westerly, from December to June, and a progressive decrease from June to December. The mean ratios in the months of November, December, and January are in numbers 0·94, and in values 0·84; in the months of May, June, and July, in numbers 1·32, and in values 1·39.

The average value of a disturbed observation in each of the months is as follows :—

TABLE XXI.

| MONTHS. | Average Values. | MONTHS. | Average Values. |
|----------------|-----------------|-----------------|-----------------|
| | Sc. Div. | | Sc. Div. |
| January . . . | 8·4 | July . . . | 8·5 |
| February . . . | 9·4 | August . . . | 8·6 |
| March . . . | 9·1 | September . . . | 9·8 |
| April . . . | 9·8 | October . . . | 9·8 |
| May . . . | 8·4 | November . . . | 9·1 |
| June . . . | 7·6 | December . . . | 10·7 |

The average value of a disturbed observation is less in June than in the other months, and generally less in May, June, and July, than at other periods of the year.

The average values of the easterly and westerly constituents, viewed separately, show each a similar influence of the period of the year to that which is presented by them when viewed conjointly. The range of the average values of the easterly is considerably greater, and appears more irregular, than that of the westerly disturbed observations.

The numbers and values of the easterly and westerly constituents of the disturbed observations distributed into the *hours* of their respective occurrence are as follows:—

TABLE XXII.

Number of Easterly and of Westerly Disturbed Observations at the several Hours.

| Toronto Astron. Time. | EASTERLY. | | | | | | | | WESTERLY. | | | | | | | |
|-----------------------------|-----------|------|------|------|------|------|------|--------|-----------|------|------|------|------|------|------|--------|
| | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | Means. | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | Means. |
| 18 | 11 | 12 | 14 | 10 | 20 | 14 | 12 | 16 | 10 | 12 | 18 | 15 | 24 | 11 | 13 | 17 |
| 19 | 9 | 14 | 8 | 11 | 19 | 18 | 10 | 15 | 9 | 5 | 17 | 14 | 23 | 21 | 15 | 17 |
| 20 | 8 | 4 | 5 | 10 | 20 | 22 | 13 | 14 | 9 | 6 | 16 | 17 | 26 | 28 | 16 | 20 |
| 21 | 10 | 8 | 8 | 8 | 16 | 22 | 15 | 14 | 7 | 13 | 14 | 16 | 28 | 25 | 15 | 20 |
| 22 | 5 | 7 | 7 | 10 | 17 | 27 | 9 | 14 | 7 | 13 | 16 | 18 | 23 | 28 | 13 | 20 |
| 23 | 5 | 9 | 11 | 11 | 18 | 18 | 11 | 14 | 7 | 11 | 14 | 14 | 25 | 22 | 15 | 17 |
| 0 | 6 | 9 | 5 | 5 | 15 | 14 | 9 | 10 | 11 | 15 | 10 | 17 | 14 | 23 | 9 | 15 |
| 1 | 5 | 9 | 6 | 6 | 13 | 10 | 10 | 10 | 5 | 12 | 12 | 11 | 10 | 16 | 11 | 13 |
| 2 | 3 | 1 | 5 | 4 | 8 | 12 | 10 | 7 | 8 | 8 | 11 | 8 | 5 | 15 | 14 | 11 |
| 3 | 3 | 3 | 4 | 1 | 6 | 15 | 8 | 7 | 5 | 10 | 13 | 12 | 17 | 14 | 14 | 14 |
| 4 | 3 | 4 | 5 | 3 | 16 | 12 | 7 | 8 | 2 | 12 | 8 | 12 | 18 | 18 | 10 | 15 |
| 5 | 6 | 3 | 7 | 5 | 15 | 13 | 5 | 9 | 6 | 5 | 10 | 5 | 20 | 21 | 9 | 13 |
| 6 | 7 | 10 | 10 | 7 | 18 | 23 | 4 | 13 | 5 | 6 | 7 | 6 | 20 | 16 | 6 | 11 |
| 7 | 8 | 12 | 19 | 13 | 32 | 18 | 12 | 19 | 7 | 8 | 3 | 7 | 18 | 11 | 6 | 10 |
| 8 | 18 | 23 | 23 | 19 | 33 | 27 | 10 | 25 | 7 | 5 | 5 | 6 | 16 | 14 | 4 | 9 |
| 9 | 16 | 28 | 31 | 27 | 37 | 33 | 20 | 32 | 1 | 1 | 4 | 4 | 20 | 10 | 7 | 8 |
| 10 | 16 | 22 | 35 | 28 | 37 | 29 | 12 | 30 | 5 | 3 | 4 | 1 | 19 | 7 | 4 | 7 |
| 11 | 14 | 13 | 29 | 15 | 36 | 37 | 20 | 27 | 3 | 5 | 9 | 1 | 22 | 7 | 6 | 9 |
| 12 | 14 | 17 | 25 | 24 | 35 | 29 | 19 | 27 | 10 | 3 | 10 | 10 | 16 | 14 | 3 | 11 |
| 13 | 11 | 17 | 19 | 18 | 32 | 34 | 17 | 25 | 9 | 11 | 8 | 9 | 23 | 18 | 9 | 14 |
| 14 | 10 | 14 | 14 | 15 | 29 | 27 | 12 | 20 | 14 | 10 | 10 | 15 | 21 | 22 | 15 | 18 |
| 15 | 6 | 8 | 11 | 19 | 26 | 26 | 16 | 19 | 11 | 7 | 18 | 17 | 26 | 17 | 9 | 17 |
| 16 | 11 | 10 | 12 | 12 | 27 | 26 | 15 | 19 | 13 | 10 | 16 | 17 | 26 | 20 | 15 | 19 |
| 17 | 10 | 11 | 14 | 17 | 22 | 26 | 12 | 19 | 13 | 14 | 16 | 17 | 24 | 11 | 12 | 18 |
| Means | 9 | 11 | 14 | 12 | 23 | 22 | 12 | 17 | 8 | 9 | 11 | 11 | 20 | 17 | 10 | 14 |

Tables XXII. and XXIII. comprise the disturbed observations occurring in the hourly series from July 1, 1842, to June 30, 1848; consequently in each of the years 1842 and 1848 the observations of six months only are included.

DISTURBANCES OF THE DECLINATION.

TABLE XXIII.

Aggregate Values of the Easterly and Westerly Disturbed Observations at the several Hours, in Scale Divisions.

| Toronto Astron. Time. | EASTERLY. | | | | | | | | WESTERLY. | | | | | | | |
|-----------------------------|-----------|-------|-------|-------|-------|-------|-------|--------|-----------|-------|-------|-------|-------|-------|-------|--------|
| | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | Means. | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | Means. |
| 18 | 68.4 | 86.5 | 98.3 | 67.1 | 158.9 | 112.9 | 84.1 | 112.7 | 74.1 | 116.6 | 189.3 | 119.9 | 255.5 | 336.3 | 116.7 | 201.4 |
| 19 | 64.9 | 85.4 | 55.6 | 65.4 | 135.1 | 121.6 | 73.3 | 100.2 | 90.9 | 48.9 | 186.1 | 110.6 | 285.8 | 755.5 | 151.3 | 271.5 |
| 20 | 52.9 | 24.8 | 33.5 | 69.3 | 121.4 | 163.2 | 100.8 | 94.3 | 86.3 | 52.1 | 146.5 | 168.7 | 321.3 | 464.4 | 173.0 | 235.4 |
| 21 | 59.8 | 56.5 | 47.1 | 44.1 | 102.4 | 148.9 | 124.0 | 97.1 | 65.4 | 106.8 | 112.2 | 144.8 | 319.4 | 384.5 | 183.2 | 219.4 |
| 22 | 33.5 | 47.0 | 45.1 | 57.6 | 105.2 | 199.8 | 67.3 | 92.6 | 60.1 | 87.9 | 128.0 | 159.1 | 196.0 | 281.6 | 128.9 | 173.6 |
| 23 | 32.2 | 55.2 | 81.0 | 69.6 | 111.2 | 173.4 | 81.2 | 100.6 | 66.0 | 66.8 | 107.2 | 121.3 | 185.9 | 184.7 | 104.6 | 139.4 |
| 0 | 35.9 | 52.8 | 34.3 | 33.6 | 95.4 | 101.6 | 67.5 | 70.2 | 73.8 | 96.9 | 74.9 | 134.6 | 99.0 | 180.7 | 80.7 | 123.4 |
| 1 | 39.3 | 49.1 | 39.9 | 34.0 | 81.8 | 107.4 | 61.4 | 68.8 | 32.7 | 86.9 | 82.5 | 73.3 | 68.0 | 106.0 | 88.5 | 89.7 |
| 2 | 30.3 | 6.7 | 30.6 | 24.8 | 54.4 | 82.0 | 90.1 | 53.2 | 51.9 | 59.6 | 102.5 | 54.5 | 52.2 | 116.7 | 105.8 | 90.5 |
| 3 | 24.6 | 15.5 | 25.3 | 5.4 | 44.1 | 124.4 | 63.9 | 50.5 | 31.7 | 69.9 | 94.6 | 74.1 | 115.7 | 104.8 | 111.3 | 100.4 |
| 4 | 38.2 | 24.5 | 34.9 | 19.1 | 111.2 | 98.3 | 74.7 | 66.8 | 11.1 | 103.1 | 63.7 | 88.6 | 132.2 | 139.7 | 71.7 | 101.7 |
| 5 | 42.0 | 24.6 | 65.6 | 34.1 | 115.9 | 115.9 | 55.3 | 75.6 | 39.7 | 55.2 | 78.5 | 33.7 | 158.3 | 153.6 | 72.5 | 98.6 |
| 6 | 56.0 | 98.4 | 79.0 | 51.9 | 211.7 | 319.1 | 29.8 | 141.0 | 26.1 | 60.8 | 52.4 | 41.6 | 146.1 | 145.3 | 42.9 | 85.9 |
| 7 | 72.9 | 86.6 | 155.3 | 114.8 | 388.2 | 171.2 | 101.0 | 181.7 | 44.4 | 72.2 | 20.5 | 50.7 | 125.8 | 90.6 | 54.4 | 76.4 |
| 8 | 185.0 | 214.7 | 289.0 | 152.9 | 341.3 | 306.6 | 129.8 | 269.9 | 45.6 | 41.2 | 35.6 | 43.2 | 106.1 | 109.0 | 27.9 | 68.1 |
| 9 | 117.1 | 240.8 | 326.9 | 303.6 | 493.9 | 355.8 | 388.4 | 371.1 | 8.5 | 5.6 | 24.7 | 36.0 | 136.1 | 94.4 | 48.3 | 58.9 |
| 10 | 154.5 | 206.1 | 402.4 | 254.3 | 410.2 | 333.5 | 118.8 | 313.3 | 35.4 | 19.9 | 26.1 | 33.2 | 140.1 | 141.3 | 34.4 | 71.7 |
| 11 | 159.9 | 134.5 | 232.3 | 140.4 | 327.3 | 388.1 | 215.9 | 266.4 | 24.9 | 38.2 | 92.3 | 6.9 | 126.6 | 69.0 | 44.0 | 67.0 |
| 12 | 155.0 | 118.5 | 223.4 | 185.9 | 342.8 | 259.0 | 214.3 | 249.8 | 68.7 | 22.2 | 122.3 | 68.1 | 137.7 | 203.8 | 29.5 | 108.7 |
| 13 | 82.9 | 130.1 | 193.5 | 171.5 | 336.6 | 327.7 | 191.1 | 238.9 | 88.7 | 77.9 | 71.5 | 74.5 | 228.1 | 239.3 | 127.8 | 151.3 |
| 14 | 84.0 | 108.4 | 142.0 | 136.1 | 269.3 | 295.3 | 165.2 | 200.1 | 127.3 | 64.8 | 81.9 | 119.1 | 172.4 | 213.6 | 129.9 | 151.5 |
| 15 | 59.6 | 67.7 | 128.0 | 154.7 | 236.5 | 226.8 | 222.7 | 182.7 | 90.4 | 45.4 | 142.4 | 123.3 | 209.9 | 168.7 | 75.7 | 142.6 |
| 16 | 80.1 | 84.5 | 132.1 | 123.3 | 295.5 | 254.7 | 190.1 | 193.4 | 116.4 | 52.4 | 147.9 | 129.3 | 223.7 | 212.7 | 126.7 | 168.2 |
| 17 | 103.4 | 81.7 | 104.0 | 129.3 | 178.4 | 233.2 | 119.6 | 158.3 | 116.3 | 119.9 | 163.2 | 132.7 | 220.8 | 379.7 | 101.4 | 205.7 |
| Means | 76.3 | 87.5 | 125.0 | 101.8 | 211.2 | 209.2 | 126.3 | 156.2 | 61.5 | 65.5 | 97.8 | 89.2 | 173.5 | 219.8 | 93.0 | 133.4 |

TABLE XXIV.

Ratios of the Easterly and Westerly Numbers and Values at the different Hours to the Mean Hourly Numbers and Values taken as the respective Units.

| Toronto Astronomical Time. | EASTERLY. | | WESTERLY. | | Toronto Astronomical Time. |
|----------------------------------|-----------|---------|-----------|---------|----------------------------------|
| | Numbers. | Values. | Numbers. | Values. | |
| h. | | | | | h. |
| 18 | 0·93 | 0·72 | 1·24 | 1·51 | 18 |
| 19 | 0·88 | 0·64 | 1·24 | 2·03 | 19 |
| 20 | 0·81 | 0·60 | 1·46 | 1·76 | 20 |
| 21 | 0·81 | 0·62 | 1·46 | 1·64 | 21 |
| 22 | 0·81 | 0·59 | 1·46 | 1·30 | 22 |
| 23 | 0·81 | 0·64 | 1·24 | 1·04 | 23 |
| 0 | 0·58 | 0·44 | 1·09 | 0·93 | 0 |
| 1 | 0·58 | 0·44 | 0·95 | 0·67 | 1 |
| 2 | 0·41 | 0·34 | 0·80 | 0·68 | 2 |
| 3 | 0·41 | 0·32 | 1·02 | 0·75 | 3 |
| 4 | 0·47 | 0·43 | 1·09 | 0·76 | 4 |
| 5 | 0·52 | 0·48 | 0·95 | 0·74 | 5 |
| 6 | 0·76 | 0·90 | 0·80 | 0·64 | 6 |
| 7 | 1·10 | 1·16 | 0·73 | 0·57 | 7 |
| 8 | 1·45 | 1·73 | 0·66 | 0·51 | 8 |
| 9 | 1·86 | 2·38 | 0·58 | 0·44 | 9 |
| 10 | 1·74 | 2·00 | 0·51 | 0·54 | 10 |
| 11 | 1·57 | 1·71 | 0·66 | 0·50 | 11 |
| 12 | 1·57 | 1·60 | 0·80 | 0·81 | 12 |
| 13 | 1·45 | 1·53 | 1·02 | 1·13 | 13 |
| 14 | 1·16 | 1·28 | 1·31 | 1·14 | 14 |
| 15 | 1·10 | 1·17 | 1·24 | 1·07 | 15 |
| 16 | 1·10 | 1·24 | 1·39 | 1·26 | 16 |
| 17 | 1·10 | 1·01 | 1·31 | 1·54 | 17 |

When we examine the ratios presented in this table we at once perceive that the occurrence of easterly and westerly disturbances, and their distribution in the several hours, are regulated by different laws. The easterly are below the average both in number and value during the hours of the day, or from 6 A.M. to 6 P.M., and above the average during the hours of the night, or from 6 P.M. to 6 A.M.; whilst the westerly are below the average both in number and value from about noon to midnight, and above the average from midnight to noon. The easterly have a minimum both in number and value about 3 P.M., and a maximum about 9 P.M.; the westerly a minimum about 9 P.M. (at which hour the easterly have their maximum), and a minimum about 7 or 8 A.M. The hours from noon to 6 P.M. are those in which both easterly and westerly disturbances are below their respective averages, both in numbers and values: these are therefore the hours of least disturbance. From 6 A.M. to noon the deficiency, occasioned by the easterly being below their average in number and value, is in great part compensated by the higher ratios of the westerly disturbances at those hours. From 6 P.M. to midnight the westerly disturbances are below their average, but this deficiency of the westerly is much more than counterbalanced by the excess

of the easterly disturbances at these hours, which are consequently the hours of greatest disturbance.

The occasional differences between the ratios of the numbers and values at the same hours may doubtless be attributed in part to accidental irregularities, but they must also in great part be ascribed to systematic variations in the mean value of a disturbed observation at different hours. The following table shows the average values of the easterly and of the westerly disturbed observations at each hour obtained by dividing the aggregate values by the numbers.

TABLE XXV.

Showing the Average Value of an Easterly and of a Westerly Disturbed Observation at the several Hours, and the Ratios at each Hour to the Mean Value in the 24 Hours.

| Toronto Astronomical Time. | AVERAGE VALUES. | | RATIOS TO THE MEAN. | | Toronto Astronomical Time. |
|----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------------|
| | Easterly Disturbances. | Westerly Disturbances. | Easterly Disturbances. | Westerly Disturbances. | |
| h. | Sc. Div. | Sc. Div. | | | h. |
| 18 | 7.04 | 11.85 | 0.82 | 1.30 | 18 |
| 19 | 6.68 | 15.97 | 0.78 | 1.76 | 19 |
| 20 | 6.74 | 11.77 | 0.78 | 1.29 | 20 |
| 21 | 6.94 | 10.97 | 0.81 | 1.21 | 21 |
| 22 | 6.61 | 8.68 | 0.77 | 0.95 | 22 |
| 23 | 7.19 | 8.20 | 0.83 | 0.90 | 23 |
| 0 | 7.02 | 8.23 | 0.81 | 0.90 | 0 |
| 1 | 6.88 | 6.90 | 0.79 | 0.76 | 1 |
| 2 | 7.60 | 8.23 | 0.88 | 0.90 | 2 |
| 3 | 7.21 | 7.17 | 0.84 | 0.79 | 3 |
| 4 | 8.35 | 6.78 | 0.97 | 0.75 | 4 |
| 5 | 8.40 | 7.58 | 0.97 | 0.83 | 5 |
| 6 | 10.85 | 7.81 | 1.25 | 0.86 | 6 |
| 7 | 9.56 | 7.64 | 1.11 | 0.84 | 7 |
| 8 | 10.80 | 7.57 | 1.25 | 0.83 | 8 |
| 9 | 11.59 | 7.36 | 1.35 | 0.81 | 9 |
| 10 | 10.44 | 10.24 | 1.21 | 1.13 | 10 |
| 11 | 9.87 | 7.44 | 1.15 | 0.82 | 11 |
| 12 | 9.25 | 9.88 | 1.06 | 1.09 | 12 |
| 13 | 9.56 | 10.81 | 1.11 | 1.19 | 13 |
| 14 | 10.00 | 8.42 | 1.16 | 0.92 | 14 |
| 15 | 9.62 | 8.39 | 1.12 | 0.92 | 15 |
| 16 | 10.18 | 8.85 | 1.18 | 0.97 | 16 |
| 17 | 8.33 | 11.43 | 0.97 | 1.26 | 17 |
| Mean Values in the 24 hours | 8.61 | 9.09 | 8.61 = 1.00 | 9.09 = 1.00 | Mean Values in the 24 hours |

The average value of an easterly disturbed observation is systematically less during the hours of the day than during those of the night. It is less at every hour from 6 A.M. to 4 P.M., inclusive, than at any hour from 5 P.M. to 5 A.M.; it varies little in the day, but in the night hours has a tendency towards a maximum at 9 P.M. The average value of a westerly disturbed observation is less than its mean value in the 24 hours from 10 A.M. to 9 P.M., inclusive, and from 2 A.M. to 4 A.M., inclusive, it varies little at the hours from 11 A.M. to 11 P.M. (with the exception already noticed at

10 P.M.); it is about the same amount at those hours as the mean value of an easterly disturbed observation from 6 A.M. to 4 P.M. The value becomes very high from 6 to 9 A.M., inclusive, especially at 7 A.M.

In the case of the easterly disturbed observations there is a coincidence between the ratios of the aggregate values and the average values, both of which are low during the day and high during the night, the maximum of each occurring markedly at the same hour, 9 P.M. But in the case of the westerly disturbed observations, there does not appear to be any systematic connexion between the ratio of the aggregate values at the different hours and the average values at the same hours. The ratio of the numbers of the westerly disturbances is higher from 6 A.M. to 9 A.M., inclusive, when the mean values are also highest; but the ratio of the numbers is lowest at 10 P.M., when the mean value is high, and the ratio of the numbers is under unity at midnight and 1 A.M., when the mean values are systematically high.

The ratios of the numbers and values of the easterly to the westerly disturbed observations at the different hours are shown in the following table, in which the westerly numbers and values at the several hours are taken as the respective units.

TABLE XXVI.

| Toronto Astronomical Time. | Numbers. | Values. | Toronto Astronomical Time. | Numbers. | Values. |
|----------------------------------|----------|---------|----------------------------------|----------|---------|
| h. 18 | 0.94 | 0.56 | h. 6 | 1.18 | 1.64 |
| 19 | 0.88 | 0.37 | 7 | 1.90 | 2.38 |
| 20 | 0.70 | 0.40 | 8 | 2.78 | 3.96 |
| 21 | 0.70 | 0.44 | 9 | 4.00 | 6.30 |
| 22 | 0.70 | 0.53 | 10 | 4.28 | 4.37 |
| 23 | 0.82 | 0.72 | 11 | 3.00 | 3.98 |
| 0 | 0.67 | 0.57 | 12 | 2.45 | 2.30 |
| 1 | 0.77 | 0.77 | 13 | 1.79 | 1.58 |
| 2 | 0.64 | 0.58 | 14 | 1.11 | 1.32 |
| 3 | 0.50 | 0.50 | 15 | 1.12 | 1.28 |
| 4 | 0.53 | 0.66 | 16 | 1.00 | 1.15 |
| 5 | 0.69 | 0.77 | 17 | 1.06 | 0.77 |

We perceive by this table how greatly and systematically the ratios vary according to the hour; they have their maximum from 9 to 10 P.M., and their minimum in numbers in the early hours of the afternoon, and in values at the early hours of the forenoon, the difference between the numbers and values in this respect being caused by the very high mean value of a westerly disturbance at the early hours of the forenoon. Easterly disturbances preponderate greatly both in numbers and values from 7 P.M. to midnight. At 9 P.M. the ratio of the easterly to westerly values is about *ten times* as great as on the average of the hours of the day. By this preponderance the character of the mean diurnal variation of the declination, whose laws of maximum, minimum, and progression are ordinarily very different from those of the dis-

turbances which we are now examining, must be more or less influenced at all stations where disturbances have a sensible value; and in extreme cases, viz., where the mean diurnal variation occasioned by the disturbances becomes great in numerical value in proportion to the diurnal variation produced by the different class of phenomena on which it is superimposed, it must, to a greater or less degree, give the character to the combined result. For the purpose of exhibiting the character of this law the following table has been formed, showing the excess of easterly or westerly disturbance at the different hours caused by the 3940 disturbances of largest amount occurring in the five years commencing July 1st, 1843, and ending June 30th, 1848; the excess in each case being divided by 1552 (the number of days of observation in the five years), the quotients show the mean diurnal variation caused by the larger disturbances, or the systematic effect produced by them on the direction of the magnet at the different hours.

TABLE XXVII.

Mean Diurnal Variation occasioned by the 3940 Disturbances of largest Amount occurring between July 1, 1843, and June 30, 1848.

| Toronto Astronomical Time. | Excess of Easterly or Westerly Values at the different hours. | Mean Diurnal Variation occasioned by the Disturbed Observations. | Toronto Astronomical Time. | Excess of Easterly or Westerly Values at the different hours. | Mean Diurnal Variation occasioned by the Disturbed Observations. |
|----------------------------------|--|--|----------------------------------|--|--|
| h. | Sc. Div. | Sc. Div. Declination Values. | h. | Sc. Div. | Sc. Div. Declination Values. |
| 18 | 523·3 W. | 0·34 = 0·24 W. | 6 | 312·3 E. | 0·21 = 0·15 E. |
| 19 | 1041·2 W. | 0·67 = 0·48 W. | 7 | 593·3 E. | 0·38 = 0·27 E. |
| 20 | 820·2 W. | 0·53 = 0·38 W. | 8 | 972·0 E. | 0·62 = 0·44 E. |
| 21 | 717·1 W. | 0·46 = 0·33 W. | 9 | 1685·3 E. | 1·09 = 0·78 E. |
| 22 | 451·6 W. | 0·29 = 0·21 W. | 10 | 1217·3 E. | 0·78 = 0·56 E. |
| 23 | 202·6 W. | 0·13 = 0·09 W. | 11 | 994·6 E. | 0·64 = 0·46 E. |
| 0 | 265·7 W. | 0·17 = 0·12 W. | 12 | 714·7 E. | 0·46 = 0·33 E. |
| 1 | 114·6 W. | 0·07 = 0·05 W. | 13 | 524·3 E. | 0·34 = 0·24 E. |
| 2 | 174·7 W. | 0·11 = 0·08 W. | 14 | 295·0 E. | 0·19 = 0·14 E. |
| 3 | 257·5 W. | 0·17 = 0·12 W. | 15 | 272·2 E. | 0·17 = 0·12 E. |
| 4 | 185·7 W. | 0·12 = 0·09 W. | 16 | 170·0 E. | 0·10 = 0·07 E. |
| 5 | 112·8 W. | 0·07 = 0·05 W. | 17 | 264·8 W. | 0·17 = 0·12 W. |

The mean diurnal variation of the declination at Toronto, caused by the disturbances from the mean or normal position of the magnet exceeding 3'·6 in amount, has a principal westerly maximum a little after 7 A.M., and a principal easterly maximum a little after 9 P.M., the range of the diurnal affection amounting to (0'·48 W. + 0'·78 E.) = 1'·26. From the easterly maximum soon after 9 P.M., the easterly variation progressively and steadily diminishes, passing through the point of no "disturbance variation" between 4 and 5 A.M., and reaching the westerly maximum a little after 7 A.M. The direction of the movement is then changed towards the east, and the western variation diminishes (with a slight and possibly accidental irregularity about 11 A.M. or noon) to 1 P.M., when the direction is again changed towards the west, whereby a second or subordinate westerly maximum is occasioned about 3 P.M. From

this hour to the easterly maximum, a little after 9 P.M., the movement of the magnet towards the east due to the disturbances is continuous and increases from hour to hour, being considerably greater from 7 to 9 P.M., inclusive, than at any other part of the 24 hours. When it is considered that the influence of the larger disturbances on the direction of the declination magnet thus presented and described is a *mean daily effect* derived from *five years* of observation, and when its strikingly regular and systematic character is viewed, it appears to have strong claims to be received as the indication of a true natural law in respect to direction and turning hours. The numerical values would doubtless be considerably greater if the minor disturbances of the same class occurring in the same period of time could have been separated from the general body of the observations and had been taken into the account.

TABLE XXVIII.

Classification of the 3940 largest Disturbances in 5 Years (July 1, 1843, to June 30, 1848,) according to their Magnitudes.

| | NUMBERS. | | | VALUES. | | | RATIOS (Westerly to Easterly). | | Average Value of the Disturb- ances. |
|---|-----------|-----------|--------|-----------|-----------|----------|-----------------------------------|-----------|--|
| | Easterly. | Westerly. | Total. | Easterly. | Westerly. | Total. | Numbers. | Values. | |
| | | | | Sc. Div. | Sc. Div. | Sc. Div. | | | |
| Between 300 and 200 sc. div., or 3° 36' 3 and 2° 14' 2 | .. | 2 | 2 | .. | 568·1 | 568·1 | 0·17 to 1 | 0·17 to 1 | 124·1 |
| Between 200 and 100 sc. div., or 2° 14' 2 and 1° 12' 1 | 1 | 4 | 5 | 175·5 | 461·5 | 637·0 | | | |
| Between 100 and 50 sc. div., or 1° 12' 1 and 36' 0 | 5 | 6 | 11 | 333·3 | 409·9 | 743·2 | 0·83 to 1 | 0·81 to 1 | 48·7 |
| Between 50 and 20 sc. div., or 36' 0 and 14' 4 | 94 | 67 | 161 | 2544·5 | 1896·9 | 4441·4 | 1·40 to 1 | 1·34 to 1 | 19·9 |
| Between 20 and 10 sc. div., or 14' 4 and 7' 2 | 452 | 337 | 789 | 5918·5 | 4434·5 | 10353·0 | 1·34 to 1 | 1·31 to 1 | 9·5 |
| Between 10 and 7 sc. div., or 7' 2 and 5' 0 | 619 | 504 | 1123 | 5078·5 | 4154·9 | 9233·4 | 1·23 to 1 | 1·22 to 1 | 5·9 |
| Between 7 and 5 sc. div., or 5' 0 and 3' 6 | 971 | 878 | 1849 | 5623·6 | 5128·9 | 10752·5 | 1·11 to 1 | 1·10 to 1 | 4·2 |
| Total | 2142 | 1798 | 3940 | 19673·9 | 17054·7 | 36728·6 | — | — | — |

In the disturbances of largest magnitude—*i. e.*, in those which exceed 36' in amount—westerly deflections preponderate; in the disturbances of smaller amount easterly deflections preponderate. At Hobarton also, in the same period, the excess of westerly over easterly deflections (though existing throughout, and being in that respect different from Toronto,) was greatest in the disturbances of largest amount; in those of lesser amount, westerly deflections at Hobarton, and easterly at Toronto, preponderate in nearly equal ratios.

A comparison of Table XXVIII. with Table XXVI., pp. xxvii. to xxxvi. of the 2nd volume of the Hobarton Observations, containing a similar classification of the disturbances which occurred in the same five years at Hobarton, furnishes the means of examining the relative proportion in which disturbances of equal magnitude take place at the

two stations. If, for example, we compare the numbers and aggregate values of the disturbances which are of magnitudes between 20 and 10 scale divisions ($14' \cdot 2$ and $7' \cdot 1$ at Hobarton, and $14' \cdot 4$ and $7' \cdot 2$ at Toronto), we find the numbers to have been at Toronto 789, and the aggregate values 10353·0 scale divisions, whilst at Hobarton the numbers were 238, and the aggregate values 3115·9 scale divisions; the ratios both of numbers and of values being 3·3 to 1. A second comparison is furnished by the disturbances comprised between 10 and 7 scale divisions ($7' \cdot 2$ and $5' \cdot 0$ at Toronto, $7' \cdot 1$ and $5' \cdot 0$ at Hobarton), when we find the numbers at Toronto to be 1123, and the values 9233·4 sc. div^{ns}., whilst at Hobarton the numbers are 401, and the values 3255·0 sc. div^{ns}., the ratios of numbers and values being 2·8 to 1. A third comparison is furnished by the disturbances comprised between 7 and 5 scale divisions ($5' \cdot 0$ and $3' \cdot 6$ at both stations), when we find the numbers at Toronto to have been 1849, and the values 10752·5 sc. div^{ns}., and at Hobarton the numbers 838, and values 4825·0 sc. div^{ns}., the ratios of numbers and values being 2·2 to 1. Further, if we compare the numbers and aggregate values of all the disturbances above 5 scale divisions (or $3' \cdot 6$) which occurred in the five years at each of the stations, we find the numbers at Toronto 3940, and the aggregate values 36728·6 scale divisions, whilst at Hobarton the numbers are 1517, and the aggregate values 12262·3 scale divisions; the ratios being, of numbers, 2·6 at Toronto to 1 at Hobarton, and of values, 3·0 at Toronto to 1 at Hobarton. The greatest disturbance of the Declination recorded at Hobarton in the course of the hourly observations between July 1, 1843, and June 30, 1848, amounted to $35' \cdot 8$; it occurred on the 27th of September, 1847, at 0^h of Göttingen time (9^h of Hobarton time): the greatest disturbance recorded in the same period by the hourly series at Toronto amounted to $215' \cdot 8$; it occurred on the 24th of September, 1847, at 1^h of Göttingen time (7^h of Toronto time). Both were westerly deflections; and it may be stated generally that the disturbances of greatest amount were usually westerly deflections of the north end of the magnet, both at Toronto and Hobarton. The average value of each of the 3940 disturbances at Toronto, and of the 1517 disturbances at Hobarton, exceeding $3' \cdot 6$ in amount, was $6' \cdot 7$ at Toronto, and $5' \cdot 7$ at Hobarton. It may be convenient to notice here that the approximate value of the horizontal force at Toronto is 3·5, and at Hobarton 4·5, both expressed in absolute measure.

Table XXIX. contains a detailed statement of the 5322 disturbed observations between January 1841, and July 1848; showing the days and hours of their occurrence in Göttingen time, the amount of disturbance, and the direction towards which the north end of the magnet was deflected: the sign + implies that the deflection was towards the east, and - towards the west. Toronto time is 5^h 57^m later than Göttingen time.

TABLE XXIX.—*continued.*

| Mean Gött. Time. | Disturb- ance. | Mean Gött. Time. | Disturb- ance. | Mean Gött. Time. | Disturb- ance. | Mean Gött. Time. | Disturb- ance. | Mean Gött. Time. | Disturb- ance. | Mean Gött. Time. | Disturb- ance. | Mean Gött. Time. | Disturb- ance. |
|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|
| 1842 | | 1842 | | 1842 | | 1842 | | 1842 | | 1842 | | 1842 | |
| MAR. | | APRIL. | | JUNE. | | JULY. | | JULY. | | AUG. | | SEPT. | |
| d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. |
| 2 2 | - 8.7 | 15 10 | + 5.2 | 9 14 | + 5.4 | 4 4 | -12.8 | 19 16 | + 6.6 | 5 19 | -14.1 | 2 13 | +21.4 |
| 2 4 | - 6.7 | 15 14 | + 6.9 | 10 0 | + 7.7 | 4 5 | - 9.5 | 19 18 | +10.4 | 5 20 | + 8.3 | 2 15 | + 5.2 |
| 4 2 | - 5.4 | 15 16 | -18.6 | 10 2 | +10.2 | 4 6 | - 5.8 | 19 19 | + 5.5 | 6 1 | + 6.0 | 2 16 | - 5.4 |
| 7 14 | + 7.7 | 15 20 | +21.8 | 10 4 | +10.9 | 4 16 | -11.2 | 20 18 | - 5.7 | 6 4 | + 5.2 | 2 18 | -12.8 |
| 11 10 | +11.3 | 15 22 | +13.1 | 12 18 | + 6.8 | 4 17 | - 8.7 | 22 0 | + 5.2 | 6 5 | - 5.4 | 2 19 | - 6.8 |
| 15 12 | -11.1 | 16 0 | + 6.8 | 12 20 | + 7.1 | 4 18 | - 6.2 | 22 6 | - 5.0 | 6 13 | + 8.9 | 3 13 | + 5.3 |
| 16 2 | + 6.0 | 16 2 | + 5.8 | 12 22 | - 6.0 | 4 19 | - 6.9 | 22 17 | + 5.4 | 7 21 | - 5.6 | 4 18 | + 7.8 |
| 16 4 | + 8.6 | 19 2 | - 5.2 | 14 0 | -12.7 | 4 20 | -15.4 | 22 20 | +12.5 | 8 12 | + 5.4 | 4 23 | + 6.2 |
| 16 8 | - 5.2 | 20 20 | -22.4 | 14 10 | +10.5 | 4 22 | -10.1 | 23 0 | + 7.7 | 8 18 | - 5.9 | 5 0 | + 5.2 |
| 16 10 | - 7.8 | 21 0 | - 8.7 | 14 20 | + 8.1 | 4 23 | -15.1 | 23 10 | + 8.2 | 8 21 | - 9.2 | 5 1 | + 5.1 |
| 16 14 | + 9.8 | 21 4 | - 8.4 | 15 20 | - 8.7 | 5 12 | - 5.2 | 23 14 | + 7.9 | 10 18 | + 5.3 | 5 2 | + 6.5 |
| 16 18 | +11.3 | 28 4 | - 5.1 | 20 0 | - 5.7 | 5 14 | - 6.4 | 25 4 | + 5.0 | 11 5 | + 7.5 | 5 6 | - 7.7 |
| 16 22 | - 5.7 | 29 10 | - 6.0 | 22 18 | +24.4 | 5 20 | -16.0 | 25 22 | + 5.3 | 11 6 | + 6.9 | 5 7 | - 6.3 |
| 18 22 | - 7.2 | | | 22 22 | - 8.8 | 5 21 | -12.4 | 26 0 | + 6.2 | 11 22 | -11.5 | 5 21 | -14.0 |
| 19 2 | - 5.8 | MAY. | | 23 18 | - 9.9 | 6 1 | - 5.0 | 26 1 | + 7.6 | 11 23 | + 5.2 | 5 22 | - 7.4 |
| 23 0 | - 5.2 | 5 0 | + 5.1 | 23 20 | -10.5 | 6 7 | - 5.1 | 26 2 | + 6.9 | 12 0 | + 7.7 | 9 2 | +15.9 |
| 23 2 | + 5.8 | 6 6 | - 9.0 | 24 2 | - 7.0 | 6 8 | - 6.8 | 26 3 | + 5.0 | 13 14 | +14.5 | 9 22 | + 6.8 |
| 23 10 | - 5.1 | 6 22 | + 7.2 | 24 4 | - 6.1 | 6 12 | - 5.4 | 26 8 | - 5.0 | 15 20 | - 5.9 | 10 2 | + 5.3 |
| 23 20 | - 5.8 | 7 0 | - 7.2 | 25 14 | + 7.7 | 6 13 | + 6.5 | 26 22 | + 6.0 | 16 14 | + 9.4 | 10 11 | + 5.5 |
| 23 22 | - 5.2 | 7 2 | - 5.4 | 25 16 | +10.1 | 6 14 | - 7.4 | 26 23 | + 6.8 | 17 0 | + 6.6 | 10 16 | + 5.9 |
| 24 12 | +10.0 | 10 16 | + 7.9 | 30 16 | + 5.5 | 6 19 | - 7.1 | 27 2 | + 5.0 | 17 17 | + 6.7 | 10 17 | + 5.3 |
| 24 14 | + 5.1 | 10 18 | - 7.3 | 30 18 | - 9.9 | 6 20 | + 8.0 | 27 3 | + 5.3 | 17 18 | + 5.9 | 11 18 | + 7.4 |
| 27 18 | + 5.2 | 16 2 | - 7.6 | | | 8 13 | - 7.8 | 29 1 | +10.1 | 18 3 | - 6.7 | 12 16 | + 6.5 |
| 27 20 | + 5.3 | 16 16 | + 9.1 | JULY. | | 8 14 | +12.5 | 29 2 | + 7.8 | 18 5 | - 7.1 | 12 18 | - 6.0 |
| 28 0 | - 5.9 | 16 22 | - 9.6 | 1 5 | - 7.2 | 8 16 | +21.4 | 29 3 | + 6.4 | 18 6 | - 5.4 | 12 23 | - 8.9 |
| 29 0 | - 5.0 | 17 0 | - 7.1 | 1 6 | - 8.0 | 8 17 | +24.8 | 29 4 | +12.7 | 18 7 | - 5.0 | 13 11 | + 8.2 |
| 29 16 | + 7.6 | 17 8 | + 5.8 | 1 7 | - 7.5 | 8 18 | + 9.5 | 29 10 | - 5.5 | 18 21 | + 6.0 | 13 12 | + 5.1 |
| 29 18 | + 6.0 | 17 14 | + 5.5 | 1 8 | - 6.5 | 8 19 | +16.0 | 29 11 | - 5.7 | 19 1 | +11.8 | 13 15 | + 6.2 |
| 30 6 | - 5.0 | 19 0 | - 5.6 | 1 11 | - 5.2 | 8 20 | +10.5 | 29 14 | +12.8 | 19 2 | - 7.4 | 14 20 | - 8.4 |
| 30 8 | - 5.4 | 24 0 | + 5.6 | 1 13 | - 5.8 | 9 1 | -15.7 | 30 3 | + 5.7 | 19 4 | - 9.5 | 15 23 | + 7.1 |
| 30 16 | + 5.9 | 24 2 | + 6.5 | 1 16 | - 5.2 | 9 2 | - 9.7 | 30 6 | + 5.5 | 19 5 | -24.4 | 16 2 | -13.4 |
| | | 24 18 | + 5.7 | 1 17 | - 8.2 | 9 11 | +10.6 | 30 14 | + 8.3 | 19 6 | -12.7 | 16 3 | - 5.3 |
| APRIL. | | 25 14 | + 5.2 | 1 18 | +24.2 | 9 13 | + 7.3 | 31 18 | +18.8 | 19 10 | +23.4 | 16 14 | - 5.4 |
| 1 2 | + 7.2 | 27 20 | - 6.1 | 1 19 | + 5.0 | 9 14 | +21.8 | 31 19 | - 6.7 | 19 23 | - 6.4 | 16 17 | + 5.3 |
| 1 20 | - 5.7 | 27 22 | - 5.3 | 1 20 | -10.8 | 9 15 | + 8.4 | 31 20 | + 6.1 | 20 14 | +10.2 | 16 19 | +10.3 |
| 2 12 | - 5.6 | 28 16 | + 8.9 | 1 21 | +16.3 | 10 20 | - 5.3 | 31 21 | - 9.4 | 20 15 | + 5.4 | 16 20 | +11.1 |
| 4 22 | - 5.0 | | | 1 22 | -10.2 | 10 23 | -16.2 | 31 22 | - 5.6 | 22 18 | - 5.9 | 16 21 | + 7.9 |
| 10 20 | + 5.2 | JUNE. | | 1 23 | +34.8 | 11 0 | - 9.7 | | | 23 8 | - 5.4 | 16 23 | + 9.5 |
| 10 22 | +19.5 | 1 20 | + 6.5 | 2 0 | - 5.0 | 11 1 | -12.5 | AUG. | | 24 1 | - 5.3 | 18 18 | - 7.1 |
| 11 16 | + 9.5 | 2 2 | + 5.9 | 2 1 | + 7.0 | 11 14 | + 5.8 | 1 3 | + 6.5 | 24 6 | - 5.4 | 18 22 | + 5.1 |
| 11 18 | +10.1 | 2 14 | + 7.4 | 2 2 | +10.4 | 11 15 | + 9.0 | 1 5 | + 7.1 | 24 14 | + 6.0 | 19 9 | - 5.9 |
| 11 20 | + 6.2 | 3 12 | + 5.7 | 2 3 | + 6.2 | 11 16 | + 7.4 | 1 13 | - 6.0 | 25 0 | - 5.4 | 19 15 | + 5.3 |
| 12 2 | -10.8 | 4 6 | +12.5 | 2 6 | - 5.1 | 11 21 | - 5.1 | 1 14 | - 8.8 | 25 11 | + 5.4 | 19 23 | - 5.4 |
| 12 4 | + 6.1 | 4 8 | -14.9 | 2 7 | + 9.8 | 12 6 | + 5.5 | 1 15 | - 8.5 | 25 13 | - 7.0 | 20 3 | + 7.2 |
| 12 20 | -10.7 | 6 14 | + 7.6 | 2 8 | +16.5 | 13 14 | - 5.2 | 3 15 | + 5.2 | 26 12 | +10.5 | 20 13 | + 8.6 |
| 12 22 | +14.0 | 6 20 | - 5.0 | 2 9 | +10.7 | 14 18 | - 7.9 | 4 5 | + 5.2 | 26 15 | + 6.3 | 20 19 | + 6.8 |
| 13 2 | -17.2 | 6 22 | + 5.3 | 2 11 | + 5.9 | 14 19 | + 7.4 | 4 14 | + 9.4 | | | 21 0 | - 9.0 |
| 13 6 | + 7.7 | 7 0 | + 5.5 | 2 12 | +13.7 | 14 22 | + 5.0 | 4 15 | + 5.0 | SEPT. | | 21 11 | - 5.6 |
| 14 16 | +14.1 | 7 18 | + 7.1 | 3 19 | -23.7 | 15 17 | +13.3 | 4 17 | +33.2 | 1 20 | - 5.2 | 21 13 | - 5.1 |
| 15 0 | + 5.2 | 7 22 | - 5.8 | 4 0 | - 6.1 | 18 16 | + 7.3 | 4 23 | - 8.3 | 1 21 | +18.1 | 21 14 | +14.7 |
| 15 2 | + 9.5 | 8 16 | + 5.5 | 4 1 | -12.6 | 18 18 | - 5.2 | 5 1 | + 5.5 | 1 22 | +17.6 | 21 19 | - 6.3 |
| 15 4 | - 8.0 | 9 4 | + 6.6 | 4 2 | -11.5 | 18 22 | - 8.2 | 5 16 | +11.7 | 2 0 | + 5.5 | 21 22 | + 5.0 |
| 15 8 | + 6.2 | 9 6 | + 6.5 | 4 3 | -19.1 | 19 15 | + 5.2 | 5 18 | +12.5 | 2 5 | - 5.9 | 22 8 | + 5.9 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXIX.—continued.

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| 1843 | | 1843 | | 1843 | | 1843 | | 1843 | | 1843 | | 1844 | |
| JUNE. | | JULY. | | AUG. | | SEPT. | | SEPT. | | NOV. | | FEB. | |
| d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. |
| 13 14 | + 5.6 | 14 3 | + 5.2 | 4 0 | + 7.7 | 5 10 | + 5.6 | 30 3 | - 5.9 | 13 5 | - 6.4 | 1 9 | - 5.4 |
| 14 5 | + 5.6 | 14 4 | + 5.3 | 4 6 | - 6.8 | 5 15 | + 6.2 | 30 5 | + 5.9 | 13 6 | - 6.3 | 2 6 | - 7.6 |
| 15 0 | - 5.6 | 14 17 | + 6.9 | 4 12 | + 7.8 | 5 19 | +12.8 | 30 15 | + 5.5 | 13 14 | + 9.9 | 2 7 | - 6.7 |
| 22 16 | + 6.8 | 15 5 | + 5.0 | 4 13 | - 8.6 | 5 21 | + 7.9 | | | 13 15 | + 5.7 | 2 12 | + 9.0 |
| 26 0 | + 6.9 | 15 6 | + 5.3 | 4 20 | - 7.0 | 5 22 | +11.1 | OCT. | | 14 11 | - 5.8 | 2 17 | -25.6 |
| 26 1 | + 6.9 | 16 22 | - 5.2 | 4 21 | - 5.8 | 5 23 | + 8.9 | 2 19 | + 6.8 | 15 14 | + 5.4 | 2 18 | - 9.5 |
| 26 2 | + 7.2 | 21 20 | + 5.1 | 5 7 | + 5.0 | 6 15 | + 6.4 | 2 20 | +12.6 | 16 19 | + 5.0 | 5 9 | - 8.4 |
| 26 3 | + 6.8 | 21 21 | + 7.5 | 5 17 | + 7.9 | 6 20 | - 6.0 | 2 21 | +12.7 | 17 15 | + 6.2 | 5 10 | - 5.5 |
| 26 4 | + 5.6 | 21 23 | + 7.0 | 8 1 | + 6.1 | 8 1 | - 6.4 | 2 23 | -10.1 | 20 21 | - 5.3 | 5 17 | + 5.5 |
| 30 3 | + 6.0 | 22 1 | + 6.8 | 8 4 | - 5.2 | 8 2 | - 5.9 | 4 15 | +12.3 | 29 17 | + 5.3 | 5 18 | + 6.8 |
| 30 16 | + 5.1 | 22 2 | + 5.3 | 8 14 | +20.6 | 8 17 | - 5.9 | 4 18 | + 5.0 | | | 5 21 | - 6.5 |
| 30 17 | + 5.9 | 22 14 | + 5.0 | 8 19 | + 5.1 | 8 19 | + 5.9 | 5 6 | - 6.8 | DEC. | | 5 22 | - 6.8 |
| 30 18 | + 7.5 | 24 6 | + 6.9 | 9 22 | - 6.6 | 8 23 | + 5.9 | 5 15 | + 6.4 | 1 22 | + 5.0 | 6 20 | - 6.1 |
| 30 19 | +17.2 | 24 7 | + 6.4 | 10 5 | - 5.5 | 9 0 | + 5.0 | 6 6 | - 5.3 | 2 0 | + 8.5 | 7 23 | + 5.4 |
| 30 23 | + 7.0 | 24 10 | -11.5 | 10 22 | - 5.5 | 9 1 | + 5.4 | 8 21 | - 5.7 | 2 3 | -12.0 | 8 1 | + 6.4 |
| | | 24 21 | + 9.7 | 11 0 | + 5.2 | 9 6 | - 5.7 | 10 1 | + 5.0 | 2 4 | - 6.2 | 8 2 | + 7.6 |
| JULY. | | 24 22 | +13.7 | 11 23 | - 7.2 | 10 18 | + 8.6 | 12 15 | + 7.0 | 7 15 | + 7.7 | 8 5 | -11.5 |
| 1 0 | + 5.6 | 25 0 | -17.2 | 12 14 | + 6.4 | 10 19 | + 6.3 | 12 19 | + 5.2 | 8 20 | + 5.8 | 8 6 | - 6.5 |
| 1 1 | + 5.4 | 25 1 | -19.6 | 15 15 | + 5.9 | 10 21 | + 5.9 | 12 23 | - 6.2 | 10 18 | + 5.8 | 8 14 | + 5.4 |
| 1 15 | +12.8 | 25 2 | -12.3 | 16 19 | - 5.1 | 10 22 | - 5.6 | 13 22 | - 6.0 | 10 22 | - 5.8 | 10 12 | +15.5 |
| 2 18 | + 5.4 | 25 3 | -20.8 | 21 21 | + 6.5 | 11 18 | + 5.7 | 14 11 | - 5.9 | 11 14 | + 7.1 | 14 22 | + 5.9 |
| 3 4 | + 5.0 | 25 4 | -14.6 | 21 22 | +10.9 | 11 19 | - 5.7 | 15 22 | + 5.0 | 11 18 | - 6.6 | 14 23 | + 5.2 |
| 4 17 | - 7.5 | 25 5 | - 6.7 | 22 2 | - 5.1 | 12 17 | +14.1 | 16 0 | -15.7 | 12 11 | +14.3 | 28 11 | -13.0 |
| 4 18 | + 6.1 | 25 6 | - 9.1 | 22 8 | - 8.6 | 12 23 | - 6.1 | 16 10 | - 6.3 | 12 12 | + 8.4 | 28 16 | +34.9 |
| 5 6 | + 5.3 | 25 7 | -14.9 | 22 9 | - 6.7 | 16 16 | - 6.7 | 17 2 | -15.3 | 13 11 | + 5.0 | 28 18 | + 6.5 |
| 5 7 | + 6.1 | 25 8 | - 9.3 | 22 10 | - 7.5 | 16 17 | - 5.5 | 17 4 | - 5.7 | 27 7 | - 8.8 | 29 16 | - 5.1 |
| 7 12 | -10.6 | 25 9 | -12.7 | 22 15 | + 5.1 | 17 22 | +10.2 | 17 7 | + 5.0 | 27 23 | + 6.1 | | |
| 7 13 | -11.0 | 25 10 | - 9.5 | 23 6 | + 5.0 | 18 10 | - 5.7 | 17 13 | + 5.3 | 28 2 | - 6.5 | MAR. | |
| 7 15 | +10.6 | 25 11 | -15.9 | 23 13 | + 5.7 | 18 14 | - 7.0 | 17 20 | - 7.7 | 28 3 | - 5.8 | 1 21 | - 5.3 |
| 7 18 | + 8.6 | 25 12 | - 8.4 | 23 15 | + 5.1 | 18 22 | - 6.1 | 18 15 | + 5.2 | | | 2 0 | + 5.6 |
| 7 19 | + 7.6 | 25 16 | +16.1 | 23 16 | + 5.5 | 19 20 | - 6.0 | 18 16 | +12.9 | | | 2 9 | - 5.0 |
| 7 20 | +13.2 | 26 0 | + 7.4 | 23 22 | - 6.8 | 19 21 | - 8.6 | 19 17 | - 9.6 | | | 2 11 | - 5.4 |
| 8 1 | + 5.3 | 26 1 | + 6.4 | 25 6 | - 5.1 | 20 15 | + 7.1 | 26 0 | -10.5 | 1844 | | 3 19 | - 5.2 |
| 8 2 | + 6.5 | 26 2 | + 5.8 | 25 7 | - 7.8 | 20 18 | - 9.7 | 26 3 | + 5.8 | JAN. | | 3 20 | - 5.8 |
| 8 3 | + 6.2 | 26 12 | + 5.5 | 25 8 | - 7.0 | 20 23 | - 9.6 | 26 7 | - 5.2 | 2 2 | - 6.2 | 3 21 | - 6.6 |
| 8 9 | + 5.3 | 26 19 | + 5.5 | 25 16 | + 9.7 | 21 16 | + 8.6 | 26 10 | - 6.3 | 4 12 | - 5.0 | 4 15 | +10.0 |
| 8 10 | + 6.6 | 26 20 | + 5.6 | 25 19 | - 6.6 | 21 18 | + 9.6 | 26 13 | + 5.4 | 4 16 | +20.0 | 4 16 | +15.4 |
| 9 20 | - 5.0 | 27 15 | + 6.6 | 25 20 | - 8.4 | 21 23 | + 6.8 | 26 14 | + 7.2 | 4 17 | + 6.7 | 4 18 | - 5.7 |
| 9 23 | - 7.0 | 27 19 | - 7.3 | 26 12 | + 8.7 | 22 0 | + 5.0 | 26 19 | - 6.5 | 5 10 | - 7.3 | 4 22 | + 5.8 |
| 10 2 | - 7.0 | 28 6 | - 5.9 | 30 23 | - 8.2 | 22 3 | - 7.1 | 26 20 | - 5.7 | 5 23 | - 6.5 | 5 13 | +10.3 |
| 10 3 | - 5.1 | 28 7 | - 6.4 | 31 0 | - 6.4 | 22 12 | + 9.2 | 27 1 | - 9.0 | 8 13 | + 6.2 | 5 14 | +10.5 |
| 10 4 | - 5.7 | 28 11 | + 5.3 | 31 19 | + 7.5 | 22 21 | - 6.7 | 29 22 | - 5.3 | 8 16 | + 6.0 | 5 15 | + 5.4 |
| 10 5 | - 8.1 | 28 16 | + 7.3 | 31 20 | + 5.9 | 23 1 | - 8.9 | 30 17 | + 5.8 | 11 3 | + 5.4 | 5 17 | + 7.7 |
| 10 7 | - 5.7 | 29 12 | +12.9 | | | 27 16 | + 7.9 | 31 14 | +11.9 | 11 4 | + 5.4 | 5 23 | -12.2 |
| 10 13 | + 8.0 | 30 19 | + 5.2 | SEPT. | | 28 0 | - 9.1 | | | 22 3 | - 9.2 | 6 0 | -14.4 |
| 10 20 | - 6.4 | 31 9 | - 6.0 | 1 6 | -11.3 | 28 6 | + 5.7 | NOV. | | 22 4 | - 6.4 | 6 2 | - 8.0 |
| 11 12 | +15.6 | | | 1 15 | + 5.5 | 28 7 | + 5.5 | 2 17 | + 9.2 | 24 16 | + 5.7 | 6 3 | - 9.9 |
| 13 7 | + 5.0 | | | 1 23 | -13.4 | 29 4 | + 5.8 | 2 20 | + 8.0 | 24 18 | +11.0 | 6 4 | -12.0 |
| 13 16 | +11.9 | 2 19 | + 7.0 | 2 1 | + 5.6 | 29 5 | + 6.2 | 3 0 | - 5.6 | 24 19 | + 8.8 | 6 17 | + 5.2 |
| 13 17 | + 8.7 | 3 15 | + 7.9 | 2 10 | + 6.1 | 29 6 | + 5.9 | 7 5 | - 5.7 | 24 21 | + 7.0 | 6 18 | + 8.9 |
| 13 18 | + 5.6 | 3 19 | - 6.0 | 4 18 | + 6.6 | 29 14 | + 7.7 | 7 7 | - 5.0 | 25 3 | - 7.6 | 6 19 | +12.5 |
| 13 23 | - 6.2 | 3 21 | + 5.4 | 4 19 | + 8.3 | 29 19 | - 5.9 | 8 15 | +21.0 | 25 4 | - 7.9 | 7 3 | - 5.4 |
| 14 1 | - 5.0 | 3 23 | + 7.8 | 5 4 | - 5.0 | 30 0 | - 6.8 | 13 4 | - 6.7 | 31 23 | + 7.9 | 7 4 | - 6.7 |

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| 1844 | | 1844 | | 1844 | | 1844 | | 1844 | | 1844 | | 1844 | |
| MAR. | | APRIL. | | APRIL. | | JUNE. | | JULY. | | AUG. | | SEPT. | |
| D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. |
| 7 11 | +11.3 | 3 6 | -5.6 | 30 14 | +6.3 | 10 21 | -5.3 | 23 6 | +7.2 | 9 16 | +5.1 | 4 5 | +6.4 |
| 7 12 | +5.4 | 3 15 | +7.4 | 30 15 | +6.3 | 11 17 | +5.0 | 24 21 | +5.7 | 9 23 | +6.2 | 4 6 | +8.4 |
| 7 15 | +18.4 | 3 16 | +13.9 | 30 21 | -8.8 | 12 17 | +6.2 | 24 22 | +13.2 | 10 5 | +5.8 | 4 7 | +6.9 |
| 7 16 | +18.9 | 3 21 | -7.4 | 30 22 | -7.6 | 12 18 | +7.4 | 25 1 | -11.7 | 10 6 | +6.2 | 4 16 | +7.1 |
| 7 18 | -6.6 | 3 22 | -6.5 | | | 13 0 | +5.2 | 25 17 | +6.7 | 10 7 | +6.2 | 8 23 | +5.2 |
| 8 10 | +11.2 | 4 4 | +5.2 | MAY. | | 13 1 | +6.3 | 25 20 | +9.2 | 10 8 | +5.5 | 9 13 | +13.8 |
| 8 14 | +14.1 | 4 5 | +7.4 | 2 18 | +7.7 | 13 2 | +5.5 | 26 21 | -10.1 | 10 9 | +6.0 | 9 14 | -5.2 |
| 16 2 | -8.9 | 4 6 | +6.1 | 2 20 | +6.1 | 16 20 | +5.0 | 26 22 | -6.8 | 12 20 | +5.0 | 12 7 | +6.6 |
| 18 3 | +5.2 | 4 12 | +6.3 | 6 16 | +5.1 | 16 21 | +8.2 | 27 13 | +7.6 | 13 5 | +9.6 | 13 22 | +6.1 |
| 18 11 | -5.7 | 5 18 | -7.8 | 7 16 | +16.4 | 16 22 | +5.2 | 27 14 | +13.1 | 16 8 | -6.3 | 13 23 | +7.0 |
| 19 17 | +10.9 | 6 5 | +5.6 | 7 18 | +7.6 | 17 5 | -5.7 | 29 23 | -6.2 | 20 7 | -5.2 | 14 7 | -5.0 |
| 20 18 | +8.0 | 6 17 | +5.0 | 7 19 | +18.9 | 17 14 | +12.4 | 30 5 | -7.9 | 20 15 | -7.0 | 14 15 | +38.1 |
| 21 20 | -5.7 | 8 14 | +6.3 | 7 22 | -5.7 | 17 21 | +6.3 | 30 6 | -8.7 | 21 7 | +8.5 | 14 16 | +8.2 |
| 26 14 | -5.0 | 11 17 | +5.2 | 8 2 | -5.4 | 18 0 | +5.9 | 30 7 | -6.9 | 22 3 | -5.6 | 15 19 | +6.3 |
| 27 7 | -5.4 | 12 1 | +5.0 | 8 13 | +9.3 | 18 4 | +10.4 | 30 8 | -5.1 | 22 4 | -9.7 | 16 13 | +7.8 |
| 27 9 | -5.7 | 16 18 | +11.6 | 8 15 | +5.5 | 20 17 | +7.8 | 30 19 | +8.8 | 22 5 | -9.5 | 19 0 | -6.9 |
| 27 13 | +5.8 | 16 19 | +13.8 | 8 16 | +7.7 | 21 9 | -5.3 | 31 13 | -5.1 | 22 7 | -5.9 | 19 1 | -5.2 |
| 28 16 | -5.1 | 16 20 | +32.3 | 10 16 | +8.9 | 25 15 | -5.3 | | | 22 13 | +6.2 | 19 5 | +6.5 |
| 28 20 | +5.5 | 16 21 | +42.9 | 11 3 | -5.5 | 25 22 | +5.2 | AUG. | | 22 14 | +18.0 | 19 6 | +6.4 |
| 28 21 | +6.4 | 16 22 | +32.9 | 11 4 | -5.2 | 29 10 | +5.2 | 1 1 | +6.1 | 22 15 | +7.8 | 19 16 | +14.6 |
| 28 23 | +5.2 | 16 23 | -18.7 | 13 7 | +6.3 | 29 14 | +6.1 | 1 3 | +5.3 | 22 20 | +8.0 | 19 18 | +8.3 |
| 29 10 | -7.8 | 17 0 | -16.2 | 13 18 | +6.9 | 30 21 | -8.6 | 1 5 | +10.4 | 22 21 | +11.2 | 19 19 | +9.8 |
| 29 11 | -9.6 | 17 1 | -34.9 | 14 13 | +5.2 | | | 1 8 | -9.8 | 22 22 | +10.3 | 19 28 | +5.0 |
| 29 12 | +13.8 | 17 2 | -21.4 | 14 15 | +7.2 | JULY. | | 1 9 | -10.8 | 22 23 | -5.4 | 20 0 | +10.9 |
| 29 14 | +43.0 | 17 4 | -6.9 | 14 16 | +31.6 | 2 4 | +8.3 | 1 10 | -13.5 | 23 6 | -7.1 | 20 3 | +7.2 |
| 29 15 | +11.6 | 17 5 | -7.0 | 14 17 | +5.7 | 2 5 | +8.0 | 1 11 | -6.6 | 23 14 | +7.3 | 20 9 | -5.1 |
| 29 16 | +15.3 | 17 6 | -7.6 | 15 11 | +5.7 | 7 23 | -7.7 | 1 12 | -5.3 | 23 15 | +12.8 | 20 19 | -17.4 |
| 29 18 | -35.9 | 17 7 | -8.7 | 22 5 | +9.3 | 8 5 | -5.8 | 1 14 | -7.2 | 23 16 | +5.7 | 21 1 | -6.2 |
| 29 19 | +28.0 | 17 8 | -10.3 | 22 10 | -9.4 | 8 9 | +5.2 | 1 16 | +9.6 | 23 17 | -9.9 | 21 14 | +8.4 |
| 29 20 | +18.4 | 17 9 | -7.6 | 22 13 | +11.8 | 8 16 | +11.9 | 1 19 | +6.1 | 23 19 | +7.0 | 22 20 | -14.1 |
| 29 21 | -14.4 | 17 11 | -10.0 | 22 15 | +10.3 | 8 17 | +15.9 | 1 21 | -7.4 | 23 21 | +7.1 | 22 21 | -5.2 |
| 29 22 | +13.0 | 17 12 | -10.3 | 22 17 | +11.5 | 8 18 | +13.8 | 1 22 | -14.3 | 24 13 | +5.3 | 23 0 | -9.9 |
| 29 23 | +18.2 | 17 14 | -10.9 | 22 18 | +12.0 | 8 19 | +8.0 | 2 12 | +7.0 | 24 14 | +11.0 | 23 1 | -5.0 |
| 30 0 | -13.9 | 17 23 | +6.8 | 22 19 | +6.5 | 9 8 | +7.0 | 2 15 | -6.8 | 25 18 | +14.1 | 23 3 | -5.4 |
| 30 9 | +8.9 | 18 0 | +7.0 | 23 8 | +5.1 | 9 9 | +5.2 | 2 17 | -6.2 | 28 8 | +7.3 | 24 2 | -5.9 |
| 30 11 | +6.9 | 18 1 | +8.0 | 24 13 | -10.4 | 9 21 | -5.1 | 2 22 | -5.4 | 29 17 | +5.8 | 24 3 | -8.4 |
| 30 15 | +11.4 | 24 18 | -6.3 | 24 14 | -7.3 | 10 2 | -5.6 | 3 0 | -5.1 | 29 20 | -8.0 | 24 4 | -6.8 |
| 31 18 | +6.9 | 25 2 | -6.8 | 24 16 | -10.6 | 11 0 | -6.5 | 3 10 | -7.0 | 29 21 | -15.3 | 24 15 | +13.7 |
| | | 25 3 | -11.8 | 24 17 | -8.3 | 12 18 | +9.6 | 3 16 | +6.7 | 30 3 | -5.1 | 25 2 | -6.5 |
| APRIL. | | 25 4 | -7.7 | 24 18 | -9.9 | 12 19 | +5.4 | 3 17 | +12.2 | 30 5 | -6.6 | 25 12 | -7.1 |
| 1 1 | -5.8 | 25 12 | -5.3 | 24 20 | -8.1 | 12 23 | +8.5 | 4 19 | +8.4 | 30 17 | +5.7 | 25 14 | +20.2 |
| 1 15 | +18.5 | 25 17 | +7.6 | 26 19 | -5.3 | 13 0 | +7.5 | 4 21 | -6.8 | 30 18 | +7.8 | 25 15 | +10.8 |
| 1 17 | -5.2 | 26 0 | -9.0 | 27 4 | -5.5 | 13 4 | -9.7 | 5 1 | -5.5 | 30 23 | -8.3 | 25 16 | +21.8 |
| 1 18 | +7.1 | 26 1 | -5.0 | 27 5 | -5.8 | 16 7 | -5.2 | 5 23 | -5.1 | 31 1 | -6.3 | 25 17 | +8.7 |
| 1 19 | +5.2 | 26 13 | +15.7 | 27 16 | -5.3 | 17 14 | +5.5 | 8 7 | +5.4 | 31 2 | -7.8 | 25 19 | +5.6 |
| 1 22 | -7.9 | 26 16 | +6.4 | 27 17 | -7.0 | 17 23 | +6.6 | 8 8 | +5.7 | 31 15 | +5.0 | 25 20 | -6.2 |
| 2 3 | +5.1 | 26 19 | -10.2 | 27 19 | -5.3 | 18 0 | +5.3 | 8 23 | -6.3 | | | 26 4 | -8.6 |
| 2 4 | +5.2 | 27 11 | +9.9 | 29 21 | +7.0 | 18 2 | +5.0 | 9 1 | -6.1 | SEPT. | | 26 5 | -5.0 |
| 2 16 | +9.5 | 27 14 | +9.9 | | | 22 20 | +5.4 | 9 5 | -8.4 | | | 26 8 | -10.8 |
| 2 17 | +5.8 | 27 17 | +7.2 | JUNE. | | 22 21 | +7.3 | 9 7 | -6.3 | 2 1 | -5.1 | 26 12 | +6.7 |
| 3 0 | +5.4 | 29 0 | +5.0 | 1 15 | +7.2 | 22 22 | +8.1 | 9 8 | -11.6 | 2 16 | +7.6 | 26 14 | +9.5 |
| 3 3 | +5.1 | 30 1 | -5.2 | 10 0 | -6.9 | 23 0 | +5.5 | 9 9 | -7.7 | 2 22 | -6.0 | 26 20 | +19.0 |
| 3 5 | -5.1 | 30 12 | +6.2 | 10 15 | +10.7 | 23 5 | +5.7 | 9 11 | -7.6 | 3 22 | -9.2 | 26 21 | -10.4 |

DISTURBANCES OF THE DECLINATION.

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TABLE XXIX.—continued.

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| 1845 | | 1845 | | 1845 | | 1845 | | 1845 | | 1845 | | 1845 | |
| MAY. | | JUNE. | | JULY. | | AUG. | | SEPT. | | SEPT. | | NOV. | |
| d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. |
| 1 6 | + 5.6 | 23 4 | + 5.2 | 24 22 | +15.7 | 18 1 | - 8.1 | 8 1 | - 5.7 | 29 15 | + 7.0 | 1 6 | - 8.3 |
| 1 7 | + 5.8 | 23 5 | - 8.5 | 27 18 | + 5.6 | 18 2 | - 5.4 | 8 14 | + 7.8 | 29 23 | - 5.7 | 1 10 | - 7.2 |
| 1 8 | + 6.1 | 23 6 | + 8.9 | 28 4 | - 5.7 | 18 23 | - 6.3 | 8 21 | + 5.1 | 30 23 | - 5.4 | 1 11 | - 6.7 |
| 1 9 | + 5.4 | 24 8 | + 6.8 | 30 7 | - 6.0 | 22 17 | + 8.8 | 8 23 | + 7.7 | | | 4 17 | + 5.5 |
| 8 7 | + 5.0 | 26 22 | - 5.2 | 30 19 | - 6.1 | 22 18 | + 6.1 | 9 5 | + 5.1 | | | 4 22 | -10.4 |
| 8 21 | - 6.6 | 28 0 | - 7.5 | 30 21 | - 5.8 | 22 19 | +10.8 | 9 14 | + 5.8 | OCT. | | 5 3 | - 8.2 |
| 11 19 | + 6.0 | 28 13 | - 5.5 | 30 22 | - 5.1 | 25 0 | - 5.5 | 11 16 | + 5.3 | 1 0 | - 8.0 | 5 4 | -13.7 |
| 11 20 | + 5.6 | 28 15 | +11.4 | | | 26 3 | + 5.7 | 11 17 | + 7.5 | 1 7 | - 5.0 | 5 5 | -13.2 |
| 13 16 | + 5.1 | 30 14 | + 8.4 | AUG. | | 26 20 | - 6.8 | 11 18 | + 5.0 | 2 23 | -11.0 | 5 6 | -10.5 |
| 14 13 | + 7.4 | 30 15 | +10.5 | 1 0 | + 5.1 | 28 21 | +12.0 | 11 20 | + 5.2 | 3 14 | +13.3 | 5 7 | - 8.7 |
| 14 19 | + 7.8 | 30 16 | +11.4 | 1 1 | + 5.9 | 28 22 | +15.7 | 11 23 | - 5.5 | 7 19 | - 7.7 | 5 8 | - 8.5 |
| 14 20 | + 6.0 | 30 18 | + 5.8 | 1 2 | + 8.4 | 28 23 | +10.3 | 12 1 | + 8.9 | 9 5 | + 8.0 | 6 23 | + 8.6 |
| 14 21 | + 6.4 | 30 21 | - 5.0 | 1 5 | -10.3 | 29 1 | - 5.3 | 12 2 | + 7.4 | 9 11 | - 6.5 | 7 17 | + 8.9 |
| 15 2 | - 6.0 | | | 1 14 | + 5.7 | 29 10 | -11.7 | 12 14 | + 5.6 | 9 12 | +13.2 | 7 18 | +10.0 |
| 16 5 | + 8.3 | JULY. | | 1 15 | +18.9 | 29 13 | + 9.4 | 15 18 | - 5.0 | 9 13 | - 7.0 | 10 16 | + 7.6 |
| 17 12 | - 5.7 | 1 7 | + 5.4 | 1 16 | + 7.7 | 29 14 | - 5.2 | 17 15 | + 8.0 | 9 14 | - 6.6 | 16 23 | +18.6 |
| 17 15 | - 5.7 | 1 23 | - 5.9 | 1 17 | +14.8 | 29 15 | + 6.6 | 17 19 | +11.6 | 9 20 | + 6.5 | 17 1 | + 6.1 |
| 19 0 | - 5.2 | 2 19 | + 7.0 | 1 18 | +10.7 | 29 18 | + 6.9 | 17 21 | +16.3 | 9 22 | +13.6 | 17 4 | + 5.7 |
| 19 2 | - 5.6 | 4 4 | + 6.1 | 1 19 | + 5.7 | 29 19 | -10.1 | 17 22 | + 9.6 | 10 0 | - 8.2 | 17 9 | - 6.7 |
| 21 17 | - 6.9 | 4 5 | + 5.6 | 1 20 | + 5.3 | 29 21 | +15.4 | 18 14 | + 8.2 | 10 1 | - 7.0 | 17 19 | - 7.5 |
| 22 6 | - 7.3 | 4 9 | - 5.0 | 2 14 | +11.0 | 29 22 | - 6.8 | 18 18 | + 6.8 | 10 2 | - 8.9 | 18 15 | +13.4 |
| 22 7 | - 7.9 | 5 16 | + 6.1 | 2 16 | + 7.7 | 30 0 | + 5.5 | 18 20 | + 6.3 | 11 1 | - 6.8 | 18 20 | - 7.4 |
| 22 8 | - 6.1 | 6 22 | -10.5 | 2 17 | +10.4 | 30 3 | - 5.3 | 18 21 | + 8.4 | 15 5 | - 9.0 | 18 21 | - 6.5 |
| 22 9 | - 5.1 | 7 6 | - 5.7 | 3 20 | -16.7 | 30 4 | - 6.2 | 18 23 | + 6.8 | 15 6 | - 7.1 | 18 22 | - 5.7 |
| 29 23 | + 5.3 | 7 7 | - 8.6 | 3 22 | - 7.4 | 30 12 | + 8.2 | 19 0 | + 6.6 | 16 19 | + 7.0 | 18 23 | - 8.8 |
| 30 5 | - 5.9 | 7 8 | - 8.0 | 3 23 | -16.2 | 31 18 | -10.6 | 19 21 | + 9.7 | 16 20 | +12.9 | 24 16 | + 9.1 |
| 30 14 | - 5.5 | 7 9 | - 5.3 | 4 0 | -18.1 | 31 21 | - 6.6 | 20 15 | - 5.2 | 16 21 | +12.6 | 27 19 | +10.3 |
| 30 17 | + 9.7 | 7 13 | +12.7 | 4 1 | - 5.5 | 31 23 | -10.5 | 20 16 | +12.3 | 17 1 | + 5.3 | 27 21 | + 6.5 |
| 30 20 | -18.4 | 10 4 | + 5.4 | 4 2 | - 5.2 | | | 21 21 | - 7.6 | 17 4 | - 6.0 | 27 22 | - 5.5 |
| 30 22 | +10.0 | 10 5 | + 6.5 | 4 4 | - 5.2 | SEPT. | | 23 6 | + 5.9 | 17 12 | - 5.4 | 27 23 | - 5.4 |
| 30 23 | + 6.7 | 10 6 | + 8.1 | 4 7 | + 5.0 | 1 2 | + 6.8 | 23 18 | + 5.0 | 20 3 | -17.9 | 28 0 | -10.0 |
| 31 1 | + 6.7 | 10 7 | + 7.4 | 4 11 | + 5.0 | 1 3 | + 5.4 | 24 15 | - 6.5 | 20 4 | -11.0 | 28 15 | + 8.4 |
| 31 2 | + 9.6 | 10 8 | + 6.5 | 4 16 | +15.7 | 1 11 | + 5.2 | 24 17 | +11.6 | 20 18 | + 5.4 | | |
| 31 11 | + 5.8 | 11 18 | + 8.6 | 4 17 | + 6.6 | 1 15 | + 6.4 | 24 18 | +13.0 | 20 19 | +16.0 | DEC. | |
| 31 12 | + 6.9 | 12 6 | + 5.1 | 5 18 | - 5.1 | 1 16 | + 7.3 | 24 19 | +12.3 | 20 20 | +11.5 | 1 23 | + 5.5 |
| 31 16 | + 5.1 | 12 7 | + 5.4 | 5 19 | - 6.2 | 1 17 | +11.3 | 24 20 | - 6.9 | 20 21 | + 5.9 | 2 20 | - 6.3 |
| | | 17 2 | + 5.1 | 6 19 | + 6.9 | 1 18 | +10.6 | 24 21 | -14.7 | 20 22 | +10.3 | 2 21 | + 5.1 |
| JUNE. | | 18 21 | + 5.4 | 6 20 | +10.7 | 2 10 | + 8.2 | 24 23 | + 9.0 | 21 1 | - 8.2 | 2 23 | -16.7 |
| 3 23 | + 5.5 | 19 6 | - 6.3 | 6 22 | -13.8 | 2 13 | + 6.5 | 25 2 | -33.3 | 21 2 | - 6.2 | 3 2 | + 5.9 |
| 4 0 | + 6.4 | 19 7 | - 5.4 | 7 13 | +12.6 | 2 15 | + 5.0 | 25 3 | -15.7 | 21 10 | - 5.9 | 3 4 | -22.0 |
| 4 1 | + 7.4 | 19 16 | + 7.1 | 7 15 | +22.9 | 2 18 | - 5.0 | 25 4 | - 5.5 | 21 13 | + 9.4 | 3 5 | -16.6 |
| 4 4 | - 8.6 | 22 23 | + 5.8 | 7 21 | - 6.2 | 2 23 | - 5.5 | 25 6 | -12.6 | 21 14 | +11.3 | 3 6 | - 9.5 |
| 4 5 | - 7.6 | 23 16 | + 5.1 | 8 5 | + 5.5 | 3 0 | - 5.4 | 25 12 | + 7.0 | 21 15 | +29.3 | 3 7 | - 8.2 |
| 4 22 | - 9.3 | 23 18 | + 7.6 | 8 22 | - 5.6 | 3 3 | - 5.4 | 25 16 | +31.3 | 21 16 | +16.8 | 3 12 | - 8.8 |
| 6 9 | - 5.4 | 24 10 | + 5.9 | 10 20 | - 5.3 | 3 4 | -10.3 | 25 19 | -13.9 | 24 2 | - 6.4 | 3 13 | -10.9 |
| 6 10 | - 6.6 | 24 14 | + 6.9 | 14 22 | + 5.2 | 3 5 | - 8.0 | 25 23 | - 8.1 | 24 3 | - 5.8 | 3 14 | -12.1 |
| 10 22 | + 6.3 | 24 15 | +13.6 | 14 23 | + 6.0 | 3 18 | - 7.2 | 26 21 | - 7.8 | 24 17 | + 7.8 | 3 15 | -18.6 |
| 12 8 | - 5.2 | 24 16 | + 7.5 | 15 0 | + 7.9 | 4 13 | + 6.7 | 27 1 | -12.9 | 24 18 | +10.6 | 4 21 | - 8.5 |
| 17 5 | - 6.8 | 24 17 | +12.3 | 15 2 | + 9.4 | 6 1 | + 5.5 | 27 11 | + 8.2 | 24 19 | +12.1 | 4 22 | - 5.5 |
| 17 6 | - 6.8 | 24 18 | + 8.4 | 15 3 | - 8.3 | 6 2 | + 5.3 | 27 15 | +17.3 | 31 15 | + 6.1 | 4 23 | + 5.3 |
| 19 19 | - 7.3 | 24 19 | +19.8 | 15 4 | - 9.5 | 7 20 | - 6.1 | 27 17 | + 8.1 | 31 21 | - 5.9 | 5 1 | - 6.1 |
| 20 6 | - 5.1 | 24 20 | +20.3 | 17 18 | + 7.6 | 7 21 | -12.6 | 28 23 | - 5.5 | 31 22 | + 6.3 | 5 3 | - 7.1 |
| 20 7 | - 5.3 | 24 21 | +12.2 | 17 20 | + 6.2 | 7 23 | + 5.1 | 29 0 | - 8.0 | 31 23 | + 8.0 | 5 4 | - 8.8 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXIX.—continued.

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| 1845 | | 1846 | | 1846 | | 1846 | | 1846 | | 1846 | | 1846 | |
| DEC. | | JAN. | | MARCH. | | APRIL. | | MAY. | | MAY. | | JUNE. | |
| d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. |
| 5 6 | - 6.3 | 27 5 | - 5.1 | 14 3 | - 7.3 | 6 5 | + 5.5 | 2 15 | + 6.1 | 18 19 | +11.6 | 1 20 | +11.2 |
| 6 15 | + 7.1 | 28 4 | - 6.0 | 14 5 | - 6.0 | 6 11 | -13.6 | 3 18 | + 8.2 | 19 2 | - 6.7 | 1 21 | +10.8 |
| 13 0 | - 6.2 | 28 5 | - 7.7 | 14 7 | - 5.8 | 6 12 | + 9.4 | 3 20 | + 5.1 | 19 17 | + 9.0 | 1 22 | +10.1 |
| 13 5 | - 5.9 | 28 14 | + 7.0 | 14 11 | + 8.5 | 6 21 | - 9.0 | 3 22 | + 8.7 | 19 18 | +23.4 | 2 0 | + 5.5 |
| 13 10 | - 5.2 | 28 15 | + 6.0 | 14 12 | + 6.4 | 6 22 | - 5.4 | 3 23 | + 8.3 | 19 19 | - 8.4 | 2 1 | + 6.5 |
| 15 0 | -11.6 | 28 16 | + 6.6 | 14 14 | + 6.5 | 7 16 | - 8.3 | 4 0 | + 6.3 | 19 22 | - 6.8 | 2 2 | + 5.5 |
| 15 9 | - 6.5 | 28 17 | + 7.8 | 14 15 | +23.8 | 7 19 | - 6.8 | 4 1 | + 6.5 | 20 0 | -12.7 | 2 12 | +13.7 |
| 15 15 | + 6.1 | 29 22 | - 6.1 | 16 9 | - 6.4 | 7 21 | - 6.0 | 4 2 | + 5.0 | 20 3 | - 9.6 | 2 16 | - 9.9 |
| 15 20 | - 5.4 | 30 21 | - 6.1 | 16 11 | - 8.4 | 7 22 | - 9.0 | 4 3 | + 6.9 | 20 4 | -10.6 | 2 20 | + 6.9 |
| 16 2 | -13.0 | | | 16 13 | + 9.8 | 8 15 | + 8.6 | 4 4 | + 7.3 | 20 5 | - 9.2 | 3 6 | + 5.7 |
| 16 22 | - 7.9 | | | 16 14 | - 6.3 | 8 18 | - 7.5 | 4 5 | - 9.2 | 20 8 | + 5.0 | 3 7 | + 5.1 |
| 17 13 | +11.5 | FEB. | | 16 16 | + 5.3 | 10 20 | + 6.9 | 4 11 | - 8.5 | 20 10 | + 5.1 | 3 8 | + 7.0 |
| 17 20 | - 5.9 | 2 1 | - 5.2 | 16 17 | +14.5 | 11 11 | + 6.3 | 4 13 | - 5.7 | 20 11 | + 6.7 | 3 11 | + 5.6 |
| 18 0 | - 6.4 | 2 22 | - 6.0 | 16 18 | + 6.9 | 13 0 | - 9.0 | 4 14 | + 6.9 | 21 4 | - 6.6 | 3 15 | - 5.5 |
| 20 13 | - 6.1 | 3 21 | - 8.4 | 16 20 | + 6.6 | 13 3 | - 8.4 | 4 15 | - 5.2 | 21 5 | - 5.2 | 3 20 | - 5.3 |
| 23 5 | + 5.6 | 8 18 | + 8.6 | 17 1 | -16.6 | 13 13 | - 5.9 | 4 16 | -17.7 | 21 20 | - 7.7 | 3 22 | - 5.3 |
| 29 17 | +11.4 | 8 19 | + 9.6 | 17 2 | -13.3 | 13 15 | +14.6 | 5 11 | - 5.6 | 21 21 | - 8.7 | 4 6 | - 7.1 |
| 29 18 | + 6.6 | 8 20 | + 8.5 | 17 2 | -13.3 | 13 15 | +14.6 | 5 12 | - 5.2 | 21 22 | - 6.5 | 4 16 | - 5.7 |
| 29 23 | - 5.4 | 8 21 | + 8.2 | 17 10 | -10.4 | 14 1 | -12.1 | 5 12 | - 5.2 | 22 23 | +13.5 | 4 18 | - 7.0 |
| 30 1 | - 8.9 | 8 22 | + 8.0 | 17 13 | + 6.3 | 14 2 | -10.6 | 5 13 | - 9.8 | 23 0 | + 6.9 | 4 20 | + 6.3 |
| 30 2 | -10.4 | 8 23 | + 5.1 | 17 14 | +15.7 | 14 9 | - 5.3 | 5 18 | - 5.0 | 23 1 | + 7.0 | 5 15 | - 5.3 |
| 30 3 | - 5.9 | 9 3 | -36.3 | 17 15 | +11.6 | 14 10 | - 5.6 | 6 13 | + 5.6 | 23 2 | + 6.7 | 5 17 | + 5.2 |
| 30 4 | - 9.0 | 9 4 | - 7.9 | 17 16 | + 5.7 | 14 11 | - 5.6 | 6 17 | - 5.2 | 23 16 | +14.5 | 5 18 | + 5.4 |
| | | 13 23 | + 5.1 | 17 18 | + 8.2 | 14 19 | + 5.3 | 6 22 | + 5.0 | 24 18 | +11.0 | 5 19 | - 9.3 |
| | | 15 19 | -16.2 | 17 23 | - 5.4 | 15 0 | + 5.0 | 9 10 | - 5.4 | 24 19 | - 8.6 | 6 9 | - 5.2 |
| 1846 | | 15 20 | +12.9 | 18 0 | -13.2 | 15 2 | + 6.1 | 11 16 | +22.8 | 24 23 | - 5.5 | 6 14 | - 5.2 |
| JAN. | | 16 0 | - 5.8 | 18 13 | +12.7 | 15 10 | - 5.6 | 11 19 | + 5.4 | 25 0 | - 8.9 | 6 15 | + 5.7 |
| 2 23 | - 5.7 | 16 14 | + 5.1 | 20 3 | + 5.1 | 15 11 | - 5.6 | 11 21 | - 5.5 | 25 1 | -10.6 | 8 14 | - 5.6 |
| 6 19 | -10.3 | 25 7 | - 5.6 | 24 6 | - 5.2 | 15 12 | - 7.5 | 11 22 | - 7.6 | 25 2 | - 6.7 | 8 16 | + 8.1 |
| 7 6 | - 6.4 | 25 9 | - 6.6 | 24 7 | - 5.4 | 15 13 | +19.1 | 11 23 | - 8.2 | 25 3 | - 9.9 | 8 18 | + 8.9 |
| 7 20 | - 6.6 | 25 10 | - 7.5 | 25 19 | - 6.6 | 15 14 | - 7.3 | 12 2 | + 6.3 | 26 17 | - 5.2 | 8 19 | +23.1 |
| 7 21 | - 6.3 | 25 11 | - 9.5 | 25 20 | + 9.3 | 15 18 | + 9.1 | 12 4 | - 5.8 | 29 16 | + 9.9 | 8 20 | + 9.9 |
| 11 19 | +15.7 | 25 12 | - 8.1 | 26 0 | -18.0 | 15 21 | + 9.8 | 12 7 | + 6.1 | 29 17 | + 9.8 | 8 21 | +16.2 |
| 11 21 | + 5.8 | 25 13 | - 8.7 | 26 17 | + 8.0 | 16 4 | - 7.4 | 12 8 | + 7.3 | 30 0 | + 7.3 | 8 22 | +10.1 |
| 12 2 | - 8.0 | 26 14 | + 9.3 | 27 23 | - 6.7 | 16 5 | - 6.1 | 12 10 | + 5.5 | 30 1 | + 9.8 | 8 23 | + 6.4 |
| 12 3 | - 8.8 | 26 15 | + 6.6 | 28 14 | +13.3 | 16 6 | - 7.9 | 12 12 | - 6.2 | 30 2 | + 5.9 | 9 2 | + 5.3 |
| 13 14 | +23.2 | 26 21 | + 7.6 | 29 20 | - 5.3 | 16 10 | + 8.8 | 12 13 | - 5.8 | 30 7 | - 5.5 | 9 16 | + 5.3 |
| 13 17 | + 6.9 | | | 29 23 | - 8.3 | 16 13 | +22.9 | 12 14 | - 7.7 | 30 11 | + 5.9 | 10 3 | + 6.4 |
| 14 0 | - 5.4 | MARCH. | | 30 3 | + 5.4 | 16 14 | +11.9 | 12 15 | + 6.2 | 30 15 | + 6.2 | 10 4 | + 8.5 |
| 14 1 | -13.0 | 5 6 | + 5.6 | 31 19 | + 8.7 | 16 16 | +24.5 | 12 18 | - 8.6 | 30 16 | -14.3 | 10 7 | + 5.1 |
| 14 10 | + 5.4 | 5 7 | + 5.6 | | | 16 17 | + 5.2 | 12 23 | -12.9 | 30 17 | +10.4 | 11 15 | - 5.1 |
| 14 13 | + 9.1 | 5 8 | + 5.5 | APRIL. | | 16 19 | -14.3 | 13 4 | + 5.7 | 31 18 | +13.0 | 12 22 | + 5.7 |
| 14 17 | - 5.0 | 13 2 | -17.3 | 1 17 | + 6.3 | 16 21 | +10.5 | 13 5 | + 8.1 | 31 19 | + 6.4 | 12 23 | + 6.8 |
| 16 18 | + 6.4 | 13 3 | -12.5 | 2 21 | + 5.8 | 17 3 | - 6.4 | 13 6 | + 6.7 | | | 13 0 | +11.3 |
| 16 21 | + 8.2 | 13 4 | -17.1 | 2 22 | + 5.6 | 20 13 | - 6.7 | 13 7 | + 8.9 | JUNE. | | 13 1 | +10.6 |
| 20 20 | + 5.1 | 13 5 | -14.1 | 4 4 | + 5.0 | 24 16 | +13.5 | 13 12 | + 5.8 | 1 1 | - 5.7 | 13 15 | + 6.7 |
| 23 19 | + 5.5 | 13 6 | - 7.2 | 4 5 | + 5.0 | 24 17 | +14.1 | 13 13 | +14.2 | 1 2 | - 6.8 | 14 21 | - 5.9 |
| 23 20 | +34.5 | 13 11 | -11.7 | 5 18 | + 5.3 | 24 18 | + 5.1 | 13 16 | + 7.3 | 1 14 | +27.0 | 14 23 | - 6.8 |
| 23 21 | +14.2 | 13 12 | - 7.8 | 5 19 | + 5.3 | 24 22 | +10.8 | 13 19 | - 6.8 | 1 15 | + 8.8 | 15 1 | - 7.5 |
| 23 22 | +18.3 | 13 19 | + 9.8 | 6 0 | - 6.2 | 25 14 | + 5.1 | 14 13 | + 7.4 | 1 16 | + 5.5 | 15 6 | + 7.5 |
| 23 23 | +10.1 | 13 20 | +10.8 | 6 1 | -22.1 | 27 4 | - 7.1 | 15 4 | + 5.4 | 1 17 | + 7.6 | 15 13 | + 6.6 |
| 24 1 | + 5.8 | 14 0 | + 8.8 | 6 2 | -37.6 | 28 15 | + 5.4 | 16 6 | + 5.3 | 1 18 | +14.4 | 15 15 | + 8.5 |
| 24 7 | - 5.1 | 14 2 | - 7.5 | 6 3 | -24.7 | 30 20 | - 5.6 | 16 17 | - 5.2 | 1 19 | +11.9 | 15 16 | + 5.3 |
| | | | | | | 30 21 | - 5.0 | 18 18 | +10.0 | | | | |

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| 1846 | | 1846 | | 1846 | | 1846 | | 1846 | | 1846 | | 1846 | |
| JUNE. | | JUNE. | | JULY. | | JULY. | | AUG. | | AUG. | | AUG. | |
| D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. |
| 15 17 | + 6.6 | 30 16 | +10.5 | 11 4 | - 6.0 | 25 12 | - 5.8 | 6 18 | + 6.3 | 13 20 | +14.0 | 24 15 | +13.6 |
| 15 19 | - 9.7 | 30 17 | + 9.4 | 11 5 | + 5.5 | 25 13 | + 5.8 | 6 20 | - 9.0 | 13 21 | + 5.9 | 24 16 | + 6.9 |
| 15 20 | - 9.0 | | | 11 6 | + 6.1 | 27 9 | - 5.4 | 6 21 | -18.6 | 14 1 | + 8.4 | 24 18 | +18.6 |
| 15 21 | - 5.4 | | | 11 8 | - 7.5 | 27 17 | - 6.2 | 6 22 | - 5.1 | 14 3 | -12.2 | 25 12 | +10.4 |
| 16 0 | - 5.1 | | | 11 15 | +12.0 | 28 5 | - 5.1 | 7 0 | - 6.6 | 14 4 | -13.1 | 25 22 | - 8.6 |
| 16 1 | -11.8 | 1 14 | + 7.4 | 11 16 | +11.1 | 28 22 | + 5.3 | 7 6 | + 9.5 | 14 5 | -11.4 | 26 2 | + 6.1 |
| 16 12 | +10.7 | 1 18 | - 6.5 | 11 17 | +10.8 | 29 0 | + 7.8 | 7 7 | + 5.7 | 14 15 | +34.0 | 26 3 | + 5.9 |
| 16 13 | +17.9 | 1 20 | + 5.5 | 12 21 | - 8.3 | 29 1 | + 6.4 | 7 9 | +10.3 | 14 16 | + 8.1 | 26 17 | +11.2 |
| 16 16 | +10.3 | 1 22 | +11.8 | 13 0 | - 5.2 | 29 4 | - 7.8 | 7 16 | +13.6 | 14 17 | +12.3 | 26 18 | + 5.9 |
| 16 22 | -12.5 | 2 0 | - 7.2 | 13 13 | + 6.4 | 29 5 | - 7.9 | 7 18 | + 6.1 | 14 18 | -27.2 | 27 9 | - 5.5 |
| 17 10 | + 5.7 | 2 1 | + 6.6 | 13 21 | - 7.5 | 29 6 | -12.9 | 7 19 | -33.7 | 14 19 | - 7.6 | 27 13 | - 5.1 |
| 17 21 | - 5.8 | 2 6 | + 6.5 | 13 22 | -21.2 | 29 13 | + 9.5 | 7 20 | + 8.6 | 14 20 | -21.2 | 27 14 | - 6.3 |
| 18 9 | + 5.6 | 2 16 | + 6.5 | 13 23 | -17.1 | 30 0 | - 8.0 | 7 23 | -13.6 | 14 21 | + 6.4 | 27 16 | - 5.4 |
| 18 15 | +20.7 | 2 17 | + 5.8 | 14 13 | - 5.3 | 30 1 | -10.6 | 8 0 | - 6.6 | 14 23 | -12.3 | 27 18 | - 7.1 |
| 18 19 | +11.1 | 2 19 | + 7.9 | 14 18 | +22.0 | 30 9 | - 5.8 | 8 1 | - 9.1 | 15 0 | -12.6 | 27 19 | -11.1 |
| 18 20 | + 6.1 | 2 20 | + 9.5 | 14 19 | +21.6 | 30 10 | - 8.8 | 8 4 | + 8.8 | 15 3 | - 5.9 | 27 21 | + 7.1 |
| 19 3 | - 5.0 | 2 21 | +11.9 | 14 20 | + 6.7 | 30 11 | -11.9 | 8 5 | + 8.4 | 15 12 | +30.4 | 27 23 | + 5.9 |
| 19 4 | - 6.5 | 2 22 | +17.7 | 14 23 | - 9.7 | 30 12 | - 7.8 | 8 6 | + 6.8 | 15 13 | + 9.6 | 28 5 | - 6.6 |
| 19 16 | - 5.4 | 3 6 | + 6.4 | 15 3 | + 5.3 | 30 14 | - 6.3 | 8 7 | + 5.3 | 15 17 | - 5.6 | 28 6 | - 6.0 |
| 19 17 | - 5.2 | 3 7 | + 5.1 | 15 5 | + 6.7 | 30 15 | +18.1 | 8 8 | + 7.5 | 16 18 | + 9.1 | 28 10 | +11.4 |
| 21 19 | - 5.4 | 3 15 | +11.4 | 16 1 | - 9.1 | 30 17 | + 5.4 | 8 9 | + 8.3 | 16 19 | + 8.9 | 28 11 | + 8.2 |
| 21 20 | - 5.1 | 3 16 | +13.2 | 16 21 | - 6.5 | 30 18 | - 5.8 | 8 13 | +16.8 | 17 0 | + 5.4 | 28 12 | - 7.2 |
| 21 21 | - 5.4 | 3 17 | +16.4 | 16 22 | - 9.5 | 30 19 | - 8.4 | 8 17 | + 8.1 | 17 14 | + 6.7 | 28 13 | - 6.2 |
| 21 22 | - 7.7 | 3 21 | + 9.3 | 18 7 | - 5.1 | 31 3 | - 6.5 | 9 19 | +12.4 | 17 15 | +11.6 | 28 14 | - 5.6 |
| 21 23 | + 9.8 | 3 22 | + 9.5 | 18 10 | + 8.3 | 31 15 | -10.4 | 9 20 | + 9.3 | 17 17 | - 5.1 | 28 16 | +19.0 |
| 22 0 | + 9.3 | 3 23 | + 6.7 | 18 11 | + 5.9 | 31 18 | -11.4 | 9 21 | -12.3 | 18 14 | +11.4 | 28 20 | - 6.6 |
| 22 1 | + 7.2 | 4 0 | +11.2 | 18 14 | + 9.3 | 31 29 | - 7.7 | 10 0 | - 7.8 | 19 0 | - 6.0 | 28 22 | - 7.6 |
| 22 2 | + 5.5 | 4 1 | - 6.4 | 18 17 | - 5.0 | 31 21 | -12.5 | 10 1 | - 8.6 | 19 6 | - 5.6 | 29 6 | + 7.3 |
| 22 12 | + 5.0 | 4 2 | - 6.7 | 19 20 | - 7.5 | | | 10 5 | + 5.2 | 19 19 | -11.0 | 29 11 | + 6.8 |
| 22 13 | +31.1 | 4 14 | - 6.5 | 19 21 | + 5.1 | AUG. | | 10 20 | + 7.2 | 20 4 | - 5.5 | 29 13 | - 5.7 |
| 22 14 | + 5.4 | 4 15 | - 7.4 | 20 14 | + 8.7 | 1 2 | - 5.3 | 11 3 | + 7.1 | 20 15 | - 6.4 | 29 14 | - 9.1 |
| 22 15 | +10.5 | 5 18 | - 5.0 | 20 18 | + 5.6 | 1 3 | - 7.9 | 11 4 | + 7.1 | 20 16 | - 5.2 | 29 15 | - 6.7 |
| 22 21 | - 7.4 | 5 19 | - 6.3 | 20 19 | - 8.4 | 1 13 | + 9.0 | 11 5 | + 7.0 | 20 17 | - 6.3 | 29 16 | - 6.6 |
| 22 23 | - 9.6 | 5 20 | -11.7 | 20 20 | - 6.1 | 1 15 | - 7.2 | 11 6 | + 5.0 | 20 18 | - 5.3 | 30 18 | + 7.5 |
| 23 22 | - 9.7 | 6 0 | - 5.2 | 20 23 | - 8.7 | 1 16 | - 5.4 | 11 15 | + 7.2 | 21 14 | - 6.7 | 30 19 | + 6.9 |
| 23 23 | - 7.4 | 6 3 | + 5.5 | 21 5 | + 5.5 | 1 17 | - 8.9 | 11 17 | - 6.1 | 21 15 | - 7.4 | 31 14 | + 7.9 |
| 24 2 | - 5.9 | 6 6 | - 8.9 | 21 6 | + 5.9 | 2 18 | -10.7 | 12 3 | - 6.7 | 21 22 | + 5.0 | 31 17 | - 5.1 |
| 24 3 | - 6.0 | 6 11 | + 7.3 | 21 18 | +14.2 | 3 14 | +13.5 | 12 4 | - 6.7 | 21 23 | + 7.2 | 31 18 | - 5.9 |
| 24 22 | -11.1 | 6 14 | + 9.5 | 21 19 | +10.0 | 3 17 | - 5.3 | 12 5 | - 8.2 | 22 0 | + 8.1 | | |
| 25 13 | + 6.1 | 6 15 | - 8.9 | 22 7 | - 5.4 | 4 23 | + 5.1 | 12 9 | + 6.5 | 22 1 | + 5.4 | | |
| 26 12 | - 5.3 | 6 17 | + 5.8 | 22 22 | - 5.9 | 5 13 | + 7.2 | 12 13 | - 5.2 | 22 2 | + 6.1 | SEPT. | |
| 27 9 | - 6.2 | 6 18 | + 5.9 | 24 8 | -10.1 | 5 15 | - 5.6 | 12 15 | + 7.7 | 22 5 | - 6.6 | 1 18 | + 5.7 |
| 27 10 | - 6.5 | 7 2 | + 8.3 | 24 9 | - 8.4 | 5 16 | - 8.2 | 12 17 | + 5.8 | 22 10 | - 5.8 | 3 1 | + 5.7 |
| 27 11 | - 6.4 | 7 8 | + 7.7 | 24 10 | - 7.2 | 5 17 | - 5.0 | 12 19 | + 6.9 | 22 15 | - 8.2 | 3 2 | + 5.0 |
| 27 12 | - 5.1 | 7 13 | + 7.1 | 24 11 | - 8.1 | 5 18 | - 6.7 | 12 20 | + 7.0 | 22 16 | - 6.4 | 3 13 | - 6.1 |
| 27 14 | - 7.1 | 7 17 | - 9.2 | 24 12 | - 6.0 | 5 21 | + 9.9 | 12 21 | + 5.1 | 23 23 | + 5.1 | 3 14 | - 7.2 |
| 27 16 | - 6.9 | 7 18 | + 5.8 | 24 13 | - 8.7 | 5 22 | +10.2 | 13 1 | -20.4 | 24 2 | + 6.9 | 3 16 | - 6.0 |
| 29 9 | - 5.2 | 7 23 | - 6.7 | 24 15 | - 6.4 | 5 23 | + 9.3 | 13 2 | -17.3 | 24 3 | +11.3 | 3 18 | + 7.7 |
| 29 10 | - 6.3 | 10 21 | + 7.7 | 24 22 | - 8.5 | 6 14 | +16.5 | 13 3 | -12.9 | 24 5 | + 9.6 | 3 20 | + 9.1 |
| 29 15 | +13.9 | 10 22 | +17.5 | 25 4 | + 5.9 | 6 15 | +53.6 | 13 4 | - 6.1 | 24 9 | - 6.2 | 3 21 | - 5.9 |
| 30 3 | + 6.2 | 10 23 | +24.7 | 25 5 | + 6.3 | 6 16 | +23.6 | 13 17 | +14.3 | 24 11 | - 9.1 | 3 22 | + 8.8 |
| 30 4 | + 5.2 | 11 0 | +13.6 | 25 7 | + 5.5 | 6 17 | +15.3 | 13 18 | +10.1 | 24 12 | + 7.6 | 4 0 | -18.1 |
| 30 15 | - 5.7 | 11 3 | -11.5 | 25 10 | + 5.4 | | | 13 19 | + 9.9 | 24 13 | - 6.2 | 4 2 | - 6.7 |

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|------------------|--------------|-------------------|--------------|
| 1847 FEB. | | 1847 MARCH. | | 1847 MARCH. | | 1847 APRIL. | | 1847 APRIL. | | 1847 MAY. | | 1847 JUNE. | |
| d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. |
| 5 23 | +11.0 | 1 1 | + 5.5 | 19 18 | +20.4 | 7 8 | - 6.2 | 20 9 | -10.1 | 7 22 | -14.8 | 1 7 | - 6.8 |
| 6 2 | + 7.7 | 1 2 | + 8.0 | 19 20 | + 7.4 | 7 10 | - 6.9 | 20 10 | -17.2 | 7 23 | -12.6 | 1 12 | - 5.0 |
| 6 5 | -15.3 | 1 7 | - 6.4 | 20 2 | + 5.1 | 7 11 | - 8.0 | 20 11 | -10.8 | 8 0 | -23.4 | 1 23 | - 9.8 |
| 6 12 | + 8.2 | 1 8 | - 7.0 | 20 13 | + 5.7 | 7 13 | -12.6 | 20 12 | - 8.0 | 8 1 | -22.6 | 2 0 | - 6.2 |
| 6 15 | +13.8 | 1 9 | - 9.2 | 20 17 | +28.3 | 7 14 | -15.5 | 20 13 | - 7.1 | 8 2 | -16.7 | 3 15 | + 9.3 |
| 6 16 | +10.4 | 1 10 | - 8.6 | 22 20 | - 5.6 | 7 15 | +19.3 | 20 19 | + 5.4 | 8 3 | -16.7 | 3 19 | - 7.1 |
| 8 5 | + 5.1 | 1 11 | - 9.3 | 22 23 | + 6.0 | 7 16 | -12.6 | 20 20 | + 8.4 | 8 6 | + 5.3 | 4 6 | + 5.8 |
| 8 14 | + 7.6 | 1 12 | -10.0 | 23 12 | - 6.7 | 7 17 | + 7.5 | 21 1 | -42.2 | 8 7 | +10.2 | 7 15 | + 6.4 |
| 8 17 | + 6.6 | 1 13 | - 9.6 | 23 14 | +16.4 | 7 18 | + 5.1 | 21 2 | -38.9 | 8 8 | + 9.0 | 7 16 | + 5.2 |
| 8 18 | + 5.6 | 1 17 | + 6.9 | 23 20 | + 8.3 | 7 19 | +41.0 | 21 3 | -23.6 | 8 9 | + 9.7 | 7 17 | + 6.1 |
| 15 15 | + 5.7 | 4 11 | - 6.7 | 23 21 | + 7.3 | 7 21 | -30.1 | 21 4 | -18.5 | 8 10 | + 7.6 | 7 19 | + 6.1 |
| 15 22 | - 8.9 | 4 12 | -11.5 | 24 1 | - 5.2 | 7 22 | +18.5 | 21 5 | - 6.9 | 8 11 | + 5.1 | 7 21 | +11.6 |
| 16 2 | - 6.2 | 4 13 | - 8.8 | 24 2 | - 8.9 | 7 23 | + 9.4 | 21 11 | +19.0 | 9 20 | - 5.9 | 7 22 | + 6.9 |
| 18 3 | + 6.5 | 4 14 | -11.1 | 24 3 | - 5.6 | 8 0 | +11.5 | 21 12 | +16.6 | 12 4 | - 5.7 | 7 23 | + 7.4 |
| 18 4 | + 5.4 | 4 15 | +11.5 | 24 12 | + 8.1 | 8 1 | + 7.4 | 21 17 | - 5.6 | 12 5 | - 5.6 | 8 1 | + 5.5 |
| 21 20 | - 7.7 | 4 16 | + 5.3 | 24 18 | -17.9 | 8 2 | + 6.6 | 21 18 | - 5.0 | 12 6 | - 6.1 | 8 20 | - 5.4 |
| 21 21 | +10.2 | 5 13 | +10.2 | 24 19 | - 8.0 | 8 20 | - 7.0 | 22 8 | + 5.3 | 13 5 | - 5.2 | 8 23 | + 7.2 |
| 21 22 | + 8.1 | 6 17 | + 7.2 | 25 17 | - 5.5 | 8 21 | - 8.5 | 26 9 | + 5.8 | 13 6 | - 7.5 | 9 4 | - 6.0 |
| 21 23 | +12.4 | 7 18 | + 5.7 | 29 21 | - 6.6 | 9 1 | + 6.2 | 26 13 | + 5.0 | 13 7 | - 5.8 | 10 1 | - 8.7 |
| 22 2 | - 9.8 | 7 21 | + 5.5 | 30 0 | + 5.0 | 9 2 | + 5.2 | 27 1 | + 5.6 | 14 22 | + 9.8 | 10 6 | -11.9 |
| 22 3 | -13.0 | 7 22 | + 8.2 | 30 2 | + 5.1 | 9 8 | + 6.0 | 28 13 | + 5.6 | 14 23 | +26.4 | 10 16 | + 6.3 |
| 22 4 | - 8.8 | 8 15 | + 9.0 | 31 11 | + 5.4 | 9 9 | + 5.9 | 28 19 | + 7.1 | 15 0 | +13.6 | 11 14 | +23.2 |
| 22 10 | - 6.6 | 8 19 | + 6.1 | | | 12 10 | - 7.6 | 28 20 | +14.6 | 15 1 | +10.3 | 12 9 | - 6.0 |
| 22 12 | -11.8 | 8 22 | -14.8 | APRIL. | | 13 19 | - 6.3 | 28 22 | -13.6 | 15 2 | +10.2 | 12 11 | - 7.3 |
| 22 13 | - 8.0 | 9 1 | - 6.2 | 1 4 | + 5.3 | 14 11 | - 7.4 | 29 1 | + 8.6 | 15 5 | -10.9 | 12 12 | -10.0 |
| 22 14 | - 5.4 | 9 2 | -15.4 | 3 0 | - 7.5 | 15 5 | - 5.1 | 29 2 | + 8.2 | 15 6 | - 6.6 | 12 13 | + 5.4 |
| 22 15 | -14.5 | 9 7 | + 5.3 | 3 3 | - 5.0 | 15 6 | - 5.4 | 29 10 | + 9.8 | 15 7 | -10.1 | 12 14 | +10.8 |
| 22 16 | + 8.6 | 10 1 | - 5.2 | 3 4 | - 7.1 | 15 21 | + 8.1 | 29 11 | + 9.9 | 15 8 | - 5.9 | 12 16 | + 7.8 |
| 22 17 | + 5.5 | 10 8 | + 6.1 | 3 6 | - 5.1 | 15 22 | + 6.2 | 29 13 | +11.4 | 15 9 | - 5.0 | 12 17 | + 7.0 |
| 22 18 | -20.8 | 12 19 | + 5.0 | 3 7 | - 6.4 | 15 23 | + 5.6 | 29 14 | + 7.5 | 15 13 | + 5.2 | 13 18 | +20.4 |
| 22 19 | +11.8 | 12 22 | + 5.5 | 3 8 | - 5.2 | 16 0 | + 6.5 | 29 15 | - 8.7 | 15 14 | -10.5 | 13 20 | + 7.4 |
| 22 20 | + 9.1 | 13 11 | - 5.1 | 3 9 | - 8.3 | 16 1 | + 8.8 | 29 20 | -15.0 | 15 16 | + 9.5 | 14 1 | - 9.3 |
| 24 3 | - 5.5 | 14 22 | - 7.6 | 3 10 | - 7.4 | 16 2 | + 6.6 | 29 21 | + 6.8 | 17 21 | - 6.6 | 15 3 | + 5.2 |
| 24 8 | - 5.2 | 18 6 | - 5.2 | 3 12 | - 8.8 | 16 5 | - 5.1 | 29 22 | +10.2 | 18 4 | + 7.6 | 15 4 | + 8.6 |
| 24 10 | - 5.0 | 18 7 | - 5.1 | 3 13 | +12.8 | 16 7 | - 5.2 | 29 23 | + 5.8 | 18 5 | + 6.7 | 15 16 | + 6.0 |
| 24 12 | + 9.0 | 18 15 | + 5.5 | 3 14 | - 6.4 | 16 17 | + 6.4 | 30 15 | - 6.7 | 18 20 | - 8.2 | 16 21 | - 5.4 |
| 24 13 | + 7.5 | 18 18 | + 8.3 | 3 15 | +14.9 | 16 18 | + 5.1 | 30 17 | + 7.0 | 19 15 | + 5.7 | 17 13 | + 8.2 |
| 24 15 | +10.7 | 18 19 | +11.2 | 3 16 | +23.2 | 16 20 | -11.4 | 30 18 | + 7.1 | 19 17 | + 6.4 | 17 17 | + 5.7 |
| 24 16 | +11.4 | 18 20 | +11.3 | 3 17 | + 9.2 | 17 0 | - 5.5 | | | 20 4 | - 7.3 | 17 19 | - 5.5 |
| 24 17 | + 8.3 | 19 0 | + 5.4 | 4 21 | - 5.0 | 17 1 | - 5.1 | MAY. | | 20 5 | - 5.6 | 17 20 | - 5.0 |
| 24 19 | + 5.3 | 19 1 | -51.2 | 4 22 | - 6.8 | 17 3 | + 6.4 | 1 4 | + 6.5 | 20 11 | + 6.7 | 18 10 | + 5.2 |
| 24 20 | - 6.3 | 19 2 | -42.7 | 5 2 | + 5.0 | 17 4 | + 6.0 | 1 5 | + 5.2 | 20 23 | + 5.0 | 18 14 | + 5.4 |
| 24 21 | + 6.6 | 19 3 | -14.0 | 5 4 | + 5.0 | 19 19 | + 7.9 | 1 9 | + 5.2 | 26 0 | + 5.1 | 21 9 | - 5.0 |
| 25 1 | + 5.2 | 19 4 | - 6.6 | 5 12 | + 5.2 | 19 20 | -17.7 | 6 12 | + 6.1 | 27 0 | + 6.2 | 21 11 | - 5.4 |
| 25 17 | +11.8 | 19 5 | - 7.2 | 5 14 | + 8.2 | 19 21 | + 7.3 | 6 21 | - 8.6 | 27 13 | - 6.1 | 21 23 | - 6.8 |
| 25 18 | +10.1 | 19 9 | +20.0 | 5 17 | - 9.4 | 20 0 | - 9.2 | 7 14 | +18.7 | 27 17 | +11.0 | 26 5 | - 5.2 |
| 25 19 | + 7.8 | 19 10 | +11.5 | 6 2 | + 6.6 | 20 1 | -22.7 | 7 16 | +10.8 | 28 15 | + 5.3 | 28 12 | + 5.0 |
| 25 22 | - 6.1 | 19 12 | +21.6 | 6 3 | + 5.0 | 20 2 | -25.7 | 7 17 | +10.8 | 28 18 | +12.5 | 29 19 | + 8.7 |
| 26 11 | + 5.6 | 19 13 | -11.7 | 6 15 | + 6.3 | 20 3 | -20.4 | 7 17 | +19.2 | 28 19 | -29.2 | 29 21 | -10.7 |
| 26 12 | + 5.2 | 19 14 | - 5.6 | 6 16 | - 6.0 | 20 4 | -15.3 | 7 18 | +13.1 | 28 23 | +10.5 | 30 15 | + 8.3 |
| 26 20 | + 5.1 | 19 15 | +16.4 | 7 1 | + 5.2 | 20 5 | -10.3 | 7 19 | -98.8 | 29 0 | + 6.9 | 30 16 | +10.0 |
| 27 14 | + 8.6 | 19 16 | +19.6 | 7 2 | + 7.0 | 20 6 | - 7.2 | 7 20 | +19.3 | 29 4 | - 5.3 | 30 19 | + 5.7 |
| | | 19 17 | +48.1 | 7 4 | + 5.0 | 20 8 | -11.0 | 7 21 | + 6.8 | 31 5 | + 5.8 | | |

TABLE XXIX.—*continued.*

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|-------------------|--------------|-------------------|--------------|------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|------------------|--------------|
| 1847 JULY. | | 1847 JULY. | | 1847 AUG. | | 1847 SEPT. | | 1847 SEPT. | | 1847 SEPT. | | 1847 OCT. | |
| D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. | D. H. | Sc. Div. |
| 1 6 | + 5.2 | 26 4 | - 8.3 | 17 1 | + 7.4 | 4 2 | + 5.8 | 17 21 | + 7.0 | 27 16 | - 5.0 | 14 6 | - 5.3 |
| 5 20 | + 5.8 | 26 6 | - 7.7 | 17 4 | + 5.5 | 4 8 | + 6.8 | 18 1 | + 5.9 | 28 12 | +21.7 | 14 19 | + 6.9 |
| 5 21 | +11.7 | 26 15 | + 6.5 | 17 15 | - 5.2 | 4 9 | + 5.0 | 18 2 | + 5.3 | 28 13 | +13.8 | 15 2 | - 9.2 |
| 5 22 | + 6.9 | 27 11 | + 5.9 | 18 10 | - 7.4 | 4 10 | + 6.3 | 18 3 | + 7.5 | 28 14 | - 7.5 | 15 12 | +13.7 |
| 5 23 | + 5.8 | 27 12 | + 5.4 | 18 11 | - 5.9 | 4 14 | +15.6 | 20 17 | + 9.3 | 28 18 | - 8.3 | 15 21 | + 6.9 |
| 6 16 | + 8.1 | 27 19 | + 9.0 | 18 15 | +15.4 | 4 15 | + 5.3 | 20 19 | + 6.5 | 28 21 | - 6.9 | 16 17 | + 5.2 |
| 6 23 | -16.9 | 27 20 | + 9.2 | 19 10 | - 5.4 | 4 17 | - 6.2 | 20 20 | + 6.4 | 28 22 | - 6.4 | 17 18 | + 8.0 |
| 7 5 | - 9.9 | 28 4 | - 6.4 | 20 3 | - 5.3 | 6 15 | + 8.4 | 21 18 | - 6.6 | 29 3 | + 8.2 | 17 19 | +11.2 |
| 7 6 | - 8.8 | 29 21 | + 5.7 | 20 7 | + 5.6 | 6 16 | + 6.4 | 22 4 | - 6.0 | 29 4 | + 5.3 | 17 20 | + 7.8 |
| 7 16 | +16.1 | 30 15 | + 6.4 | 20 8 | + 7.9 | 6 18 | + 6.4 | 22 9 | + 5.0 | 29 5 | + 6.5 | 17 22 | +11.6 |
| 7 17 | +12.1 | 30 16 | + 6.2 | 22 19 | - 5.2 | 7 3 | + 5.1 | 22 10 | + 5.1 | 29 6 | + 8.3 | 18 0 | + 7.8 |
| 8 2 | - 6.4 | 30 17 | +12.5 | 23 21 | + 5.5 | 8 5 | + 7.2 | 22 19 | + 5.9 | 29 7 | +17.3 | 18 2 | - 6.6 |
| 8 3 | - 8.7 | 31 3 | + 5.3 | 24 19 | + 7.2 | 9 2 | -10.3 | 23 2 | -11.9 | 29 9 | - 9.0 | 18 3 | - 9.4 |
| 8 13 | + 5.6 | 31 16 | + 5.1 | 25 1 | - 6.3 | 9 3 | - 6.9 | 23 3 | -18.4 | 29 10 | - 5.7 | 18 4 | -13.6 |
| 9 10 | -10.2 | | | 25 2 | - 8.2 | 9 4 | - 8.9 | 23 4 | -13.7 | 29 11 | + 5.3 | 18 11 | + 9.4 |
| 9 11 | - 6.8 | AUG. | | 25 4 | - 6.2 | 9 6 | - 8.4 | 23 5 | - 9.5 | 29 12 | + 9.2 | 18 12 | + 7.5 |
| 9 12 | -10.5 | 2 4 | + 7.1 | 25 5 | - 5.2 | 9 7 | - 9.2 | 23 6 | - 6.6 | 29 14 | +19.0 | 19 1 | - 6.6 |
| 9 14 | - 5.7 | 2 5 | + 6.6 | 25 17 | + 8.7 | 9 8 | - 6.8 | 23 9 | + 5.9 | 29 16 | + 7.6 | 19 2 | - 6.4 |
| 9 15 | -30.5 | 3 6 | + 7.0 | 25 18 | + 7.5 | 9 9 | - 7.2 | 23 10 | + 5.2 | 29 17 | + 7.8 | 19 4 | - 8.0 |
| 9 16 | +13.5 | 3 7 | + 5.4 | 25 19 | + 8.0 | 9 10 | - 5.7 | 23 18 | +11.4 | 29 19 | + 6.3 | 19 16 | + 9.9 |
| 9 17 | +15.7 | 3 15 | - 6.1 | 25 21 | + 6.8 | 9 18 | - 5.6 | 23 20 | + 8.3 | 29 20 | - 6.6 | 20 19 | - 5.3 |
| 9 18 | +10.1 | 4 1 | + 6.9 | 25 22 | + 5.6 | 10 15 | + 5.1 | 23 21 | +11.2 | 30 4 | +11.1 | 22 10 | - 8.5 |
| 9 19 | +15.9 | 4 8 | + 5.0 | 27 21 | + 6.3 | 11 15 | + 5.2 | 23 22 | +26.6 | 30 5 | +10.4 | 22 20 | +22.1 |
| 9 23 | + 6.6 | 4 16 | +16.6 | 28 6 | - 5.4 | 12 20 | + 7.0 | 23 23 | - 9.6 | 30 6 | +10.4 | 22 21 | -26.5 |
| 10 3 | + 5.5 | 4 17 | + 5.6 | 28 14 | +11.8 | 12 21 | +10.4 | 24 1 | -299.3 | | | 22 22 | +18.3 |
| 10 4 | + 7.0 | 4 19 | + 6.6 | 31 3 | + 6.1 | 12 22 | + 5.2 | 24 2 | -36.2 | OCT. | | 22 23 | +26.1 |
| 10 6 | + 5.7 | 4 20 | +10.0 | 31 4 | + 6.9 | 12 23 | +14.2 | 24 3 | -32.3 | 1 6 | + 5.9 | 23 0 | +22.8 |
| 10 8 | + 7.3 | 4 22 | +14.1 | 31 6 | + 6.6 | 13 2 | -18.3 | 24 5 | +47.0 | 2 4 | - 7.6 | 23 1 | -59.2 |
| 10 14 | + 7.7 | 4 23 | + 7.7 | 31 7 | + 6.2 | 13 3 | -17.1 | 24 6 | -22.2 | 5 11 | - 6.2 | 23 2 | +24.6 |
| 10 15 | + 5.6 | 5 13 | +11.9 | 31 9 | + 6.5 | 13 4 | -10.7 | 24 7 | +24.1 | 5 12 | - 7.7 | 23 4 | +13.7 |
| 11 20 | -13.5 | 5 15 | +14.6 | 31 10 | + 9.6 | 13 5 | -14.8 | 24 8 | -13.5 | 7 20 | + 6.1 | 23 5 | +15.8 |
| 11 21 | - 7.1 | 5 16 | + 8.6 | 31 11 | +13.0 | 13 6 | - 5.0 | 24 9 | - 6.3 | 7 21 | +11.7 | 23 6 | +13.7 |
| 12 14 | +11.5 | 5 17 | + 6.1 | 31 12 | +13.5 | 13 7 | - 6.2 | 24 11 | +13.2 | 7 22 | + 9.8 | 23 11 | +11.4 |
| 12 19 | -13.1 | 5 20 | - 5.4 | 31 13 | +12.0 | 13 10 | + 5.1 | 24 12 | + 6.7 | 8 0 | + 5.9 | 23 12 | +11.5 |
| 13 14 | +12.7 | 5 21 | -10.6 | 31 14 | +11.7 | 13 14 | + 7.5 | 24 14 | + 5.1 | 8 7 | - 5.1 | 23 14 | + 5.2 |
| 16 10 | - 5.0 | 6 3 | + 5.3 | 31 15 | + 9.9 | 13 17 | + 8.9 | 24 17 | - 5.5 | 8 8 | - 6.6 | 23 16 | - 5.1 |
| 16 11 | - 5.3 | 6 18 | + 6.3 | 31 16 | +10.2 | 13 18 | + 7.0 | 24 18 | -11.2 | 8 9 | + 7.9 | 23 17 | -30.6 |
| 16 12 | - 6.1 | 6 22 | - 5.9 | 31 17 | + 7.3 | 15 1 | + 5.4 | 24 19 | - 6.7 | 8 10 | - 8.6 | 24 18 | -77.7 |
| 16 22 | - 9.7 | 6 23 | - 8.8 | 31 18 | +10.5 | 15 2 | + 6.0 | 24 20 | -10.6 | 8 11 | - 9.3 | 24 20 | +62.8 |
| 17 1 | - 7.4 | 7 10 | +10.4 | 31 19 | + 9.2 | 16 1 | + 7.6 | 25 7 | - 5.3 | 8 12 | -15.7 | 24 21 | +19.1 |
| 17 2 | - 7.0 | 7 12 | +15.8 | 31 20 | +10.4 | 16 2 | +10.5 | 25 14 | - 5.0 | 8 13 | - 6.2 | 24 22 | -37.1 |
| 17 8 | - 6.2 | 7 14 | + 8.2 | 31 21 | +10.7 | 16 3 | + 9.1 | 26 18 | + 7.2 | 8 18 | -15.9 | 24 23 | + 9.6 |
| 21 7 | - 7.5 | 7 15 | +12.5 | 31 22 | + 8.8 | 16 4 | + 9.1 | 26 19 | +16.3 | 9 4 | + 9.6 | 25 1 | - 6.1 |
| 21 18 | +15.1 | 8 18 | - 5.3 | 31 23 | + 8.4 | 16 5 | + 6.8 | 26 21 | - 5.9 | 9 5 | + 5.9 | 25 2 | -22.8 |
| 21 19 | + 6.1 | 11 18 | + 7.5 | | | 16 13 | - 6.2 | 26 22 | - 6.2 | 11 20 | - 6.0 | 25 3 | - 9.1 |
| 21 20 | + 5.5 | 13 23 | + 5.2 | SEPT. | | 16 14 | - 5.5 | 26 23 | -15.0 | 12 3 | + 5.0 | 25 5 | -11.1 |
| 21 23 | + 5.8 | 14 0 | + 5.9 | 2 6 | + 5.4 | 16 16 | +15.2 | 27 0 | -142.7 | 12 22 | +13.6 | 25 7 | +14.7 |
| 22 16 | +23.1 | 14 4 | - 7.6 | 2 8 | + 5.6 | 16 18 | + 5.3 | 27 1 | -43.3 | 13 2 | -53.6 | 25 8 | + 6.5 |
| 22 17 | +17.7 | 17 6 | -17.4 | 2 14 | - 6.0 | 17 1 | + 6.1 | 27 2 | -32.9 | 13 3 | -15.4 | 25 12 | +90.5 |
| 22 18 | + 5.9 | 15 22 | - 5.9 | 2 15 | - 5.5 | 17 4 | + 5.1 | 27 3 | -17.7 | 13 4 | -10.2 | 25 14 | + 8.7 |
| 22 20 | - 7.3 | 16 9 | + 6.9 | 3 2 | + 5.7 | 17 7 | - 7.3 | 27 6 | - 7.0 | 13 5 | -21.6 | 25 19 | -10.1 |
| 24 9 | + 5.8 | 16 21 | - 6.3 | 3 13 | + 7.9 | 17 19 | + 6.3 | 27 8 | + 5.5 | 13 6 | - 5.1 | 27 3 | + 5.2 |
| 24 17 | +14.3 | 17 0 | + 5.2 | 3 14 | +10.5 | 17 20 | + 5.4 | 27 9 | + 5.4 | 13 8 | - 5.1 | 29 0 | -12.5 |

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

| Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. | Mean Gött. Time. | Disturbance. |
|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| 1847 | | 1847 | | 1847 | | 1847 | | 1848 | | 1848 | | 1848 | |
| OCT. | | NOV. | | DEC. | | DEC. | | JAN. | | JAN. | | FEB. | |
| d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. | d. h. | Sc. Div. |
| 29 3 | + 8.4 | 19 12 | - 7.6 | 3 4 | - 6.4 | 18 17 | + 8.1 | 11 15 | + 8.1 | 28 15 | + 9.1 | 21 1 | -19.7 |
| 29 4 | + 7.6 | 20 1 | -28.0 | 4 3 | -12.6 | 19 18 | - 7.1 | 11 16 | + 5.7 | 28 16 | + 7.8 | 21 2 | +10.5 |
| 29 5 | +16.1 | 20 2 | -10.5 | 7 14 | - 6.3 | 19 19 | +29.1 | 11 22 | + 9.9 | 28 17 | + 6.4 | 21 3 | + 6.4 |
| 31 23 | + 6.6 | 20 3 | + 7.7 | 7 15 | - 5.4 | 19 20 | +10.8 | 11 23 | + 5.1 | 28 18 | +16.6 | 21 9 | - 9.6 |
| | | 21 20 | - 5.6 | 7 18 | - 5.7 | 19 21 | + 7.1 | 12 2 | + 8.3 | 28 21 | - 7.1 | 21 10 | +15.3 |
| | | 22 8 | -10.3 | 7 22 | + 5.9 | 19 22 | -31.8 | 12 3 | + 7.0 | 28 22 | +15.9 | 21 11 | +29.4 |
| NOV. | | 22 9 | +12.5 | 7 23 | + 8.4 | 19 23 | -268.8 | 12 6 | -18.2 | 28 23 | +15.1 | 21 13 | - 7.3 |
| 1 1 | + 6.1 | 22 10 | -12.2 | 8 4 | - 9.9 | 20 0 | -103.5 | 12 8 | + 7.8 | | | 21 15 | +175.5 |
| 1 3 | -24.7 | 22 11 | - 8.3 | 8 5 | - 5.4 | 20 1 | -102.7 | 12 9 | - 8.9 | FEB. | | 21 16 | + 9.2 |
| 1 4 | -16.5 | 22 12 | - 5.4 | 8 6 | - 7.2 | 20 3 | -69.4 | 12 11 | - 6.5 | 2 1 | - 6.1 | 21 17 | + 7.6 |
| 1 11 | -12.9 | 22 13 | +13.1 | 9 3 | - 9.7 | 20 4 | -29.4 | 12 22 | - 9.2 | 2 22 | -51.1 | 22 1 | +10.6 |
| 1 13 | - 7.5 | 22 15 | +10.0 | 9 4 | - 6.0 | 20 5 | + 5.0 | 13 2 | -14.2 | 6 18 | +21.5 | 22 8 | - 9.6 |
| 1 14 | + 5.6 | 22 16 | + 8.3 | 9 5 | - 6.6 | 20 6 | + 5.9 | 13 3 | -12.6 | 6 19 | +16.1 | 22 9 | -20.6 |
| 1 16 | - 6.3 | 22 18 | + 7.3 | 9 6 | - 6.2 | 20 7 | - 6.9 | 13 8 | - 5.0 | 6 21 | +12.8 | 22 10 | - 8.4 |
| 1 17 | + 6.0 | 22 19 | - 7.4 | 9 8 | - 5.2 | 20 9 | +16.9 | 13 10 | - 5.8 | 7 11 | - 6.8 | 22 11 | - 6.5 |
| 1 19 | + 7.8 | 22 20 | - 9.4 | 9 20 | -15.6 | 20 12 | + 9.2 | 13 22 | - 5.9 | 7 13 | - 6.5 | 22 12 | - 5.9 |
| 1 20 | + 6.0 | 22 21 | - 8.5 | 10 0 | + 5.1 | 20 13 | +22.2 | 14 5 | + 5.9 | 8 6 | - 9.2 | 22 13 | + 9.3 |
| 2 1 | + 5.4 | 23 17 | - 6.2 | 10 5 | - 5.9 | 20 15 | + 5.9 | 14 7 | - 5.0 | 8 7 | - 5.7 | 22 17 | + 7.5 |
| 2 16 | - 6.3 | 24 16 | +29.5 | 10 6 | - 7.4 | 20 16 | + 6.4 | 14 8 | - 7.6 | 8 14 | - 7.3 | 22 19 | -34.9 |
| 2 19 | - 8.4 | 24 19 | -10.2 | 10 9 | - 5.2 | 20 19 | + 8.5 | 14 9 | -10.5 | 8 15 | + 5.8 | 22 20 | -19.2 |
| 2 22 | + 5.4 | 25 2 | + 6.9 | 10 10 | + 8.3 | 21 4 | + 6.0 | 14 13 | + 7.2 | 8 17 | + 9.3 | 22 21 | -13.2 |
| 3 2 | - 7.1 | 25 5 | + 7.4 | 10 16 | + 8.6 | 21 19 | - 5.3 | 15 3 | - 6.0 | 8 18 | +10.9 | 22 22 | -13.3 |
| 3 19 | -12.0 | 25 9 | - 9.7 | 10 17 | +10.8 | 21 23 | - 5.2 | 19 3 | +13.6 | 8 19 | + 6.4 | 22 23 | -10.4 |
| 5 20 | + 6.2 | 25 10 | - 5.8 | 10 18 | +14.9 | 22 3 | -12.2 | 19 4 | + 5.7 | 8 22 | - 6.6 | 23 6 | + 6.9 |
| 5 21 | + 8.3 | 25 11 | - 5.7 | 10 19 | + 5.5 | 22 12 | +23.2 | 19 20 | - 7.1 | 8 23 | - 5.6 | 23 7 | + 8.5 |
| 5 22 | + 6.0 | 25 14 | -12.1 | 10 22 | - 6.1 | 22 18 | + 8.5 | 19 21 | - 5.7 | 9 0 | + 5.6 | 23 10 | - 5.0 |
| 5 23 | + 8.9 | 25 15 | +69.4 | 10 23 | -11.4 | 22 19 | - 8.3 | 23 23 | +10.3 | 9 3 | + 8.4 | 23 15 | + 8.6 |
| 7 23 | + 5.3 | 25 17 | +10.4 | 11 0 | -13.0 | 27 2 | + 5.7 | 24 0 | - 6.0 | 9 10 | - 7.8 | 23 16 | + 7.7 |
| 8 2 | - 5.1 | 25 18 | + 9.2 | 11 1 | -13.0 | 29 4 | + 5.1 | 24 1 | + 7.1 | 9 14 | + 6.7 | 23 17 | +20.9 |
| 8 4 | -10.1 | 25 19 | +12.2 | 11 2 | -12.0 | 29 8 | - 6.0 | 24 3 | -14.3 | 12 2 | - 5.1 | 23 18 | + 9.9 |
| 8 18 | - 9.6 | 25 20 | + 9.4 | 11 3 | - 5.5 | 29 13 | + 9.9 | 24 4 | -10.9 | 12 3 | - 7.4 | 23 19 | +23.7 |
| 9 15 | + 9.6 | 25 21 | + 5.5 | 14 4 | + 6.0 | | | 24 5 | -11.2 | 14 10 | - 6.2 | 23 20 | + 9.2 |
| 10 2 | + 6.9 | 26 0 | - 6.0 | 14 5 | + 5.1 | 1848 | | 24 7 | - 6.1 | 14 11 | -19.0 | 23 22 | + 8.1 |
| 10 5 | - 5.5 | 26 2 | -13.0 | 14 22 | - 5.2 | JAN. | | 24 8 | - 9.6 | 14 12 | - 5.8 | 23 23 | -13.6 |
| 10 6 | - 6.0 | 26 12 | + 6.2 | 15 5 | + 5.2 | 1 8 | + 5.4 | 24 11 | - 7.2 | 15 2 | -10.9 | 24 0 | -14.4 |
| 10 7 | - 5.8 | 26 13 | + 5.7 | 15 19 | - 6.3 | 3 6 | + 5.6 | 24 12 | - 5.9 | 15 3 | - 6.2 | 24 1 | - 8.2 |
| 10 15 | + 6.2 | 26 21 | - 8.2 | 16 4 | + 5.3 | 3 7 | + 5.4 | 25 5 | - 5.4 | 15 6 | - 5.6 | 24 2 | -15.5 |
| 10 17 | + 6.0 | 26 22 | - 8.0 | 16 5 | + 5.6 | 3 9 | - 6.1 | 25 6 | - 5.7 | 15 7 | - 5.4 | 24 3 | - 5.1 |
| 11 3 | + 6.0 | 27 3 | + 6.6 | 16 18 | + 5.3 | 3 10 | - 8.6 | 25 7 | - 8.5 | 15 22 | + 6.5 | 24 4 | -11.9 |
| 11 4 | + 5.6 | 27 14 | + 6.0 | 16 21 | + 6.1 | 3 15 | + 6.4 | 25 8 | - 9.2 | 17 2 | + 5.7 | 24 5 | - 5.3 |
| 12 2 | + 5.9 | 29 7 | + 9.6 | 16 22 | +10.6 | 3 16 | + 5.9 | 25 9 | - 6.1 | 18 19 | + 5.3 | 24 10 | +13.2 |
| 12 3 | + 7.7 | 30 22 | + 8.4 | 17 3 | +15.3 | 3 17 | + 7.0 | 26 1 | + 5.1 | 19 0 | + 5.8 | 24 16 | - 9.3 |
| 12 4 | + 8.3 | 30 23 | + 7.9 | 17 4 | +26.0 | 3 18 | + 9.6 | 26 2 | + 7.1 | 19 1 | + 6.3 | 24 18 | +24.5 |
| 13 2 | + 6.3 | | | 17 5 | - 6.8 | 3 21 | +15.1 | 26 4 | - 6.5 | 19 4 | - 5.2 | 24 21 | + 5.0 |
| 13 3 | + 6.8 | DEC. | | 17 6 | +10.0 | 3 22 | +10.4 | 27 2 | + 6.3 | 19 5 | - 8.1 | 24 22 | -17.5 |
| 15 15 | + 6.3 | 1 7 | + 9.0 | 17 8 | -16.4 | 4 1 | - 6.5 | 27 18 | +11.0 | 19 6 | - 9.6 | 24 23 | +12.7 |
| 15 19 | + 7.6 | 1 8 | +11.0 | 17 9 | - 9.8 | 4 4 | - 7.9 | 27 19 | + 7.3 | 19 7 | -11.3 | 25 1 | -13.4 |
| 15 23 | - 8.1 | 1 22 | + 7.8 | 17 11 | - 6.3 | 4 5 | - 5.3 | 27 20 | + 5.9 | 19 15 | - 5.9 | 25 2 | -14.9 |
| 16 7 | - 6.9 | 2 12 | - 8.6 | 17 15 | - 6.4 | 7 2 | - 9.5 | 27 21 | +10.1 | 19 16 | - 7.3 | 25 3 | - 7.9 |
| 16 11 | - 5.6 | 2 13 | - 6.8 | 18 0 | - 6.8 | 8 9 | + 8.5 | 27 22 | +11.4 | 20 19 | + 5.9 | 25 12 | + 7.8 |
| 17 22 | - 6.6 | 2 17 | + 7.4 | 18 2 | -14.5 | 10 3 | +10.8 | 28 5 | +13.2 | 20 20 | -25.6 | 26 15 | +18.2 |
| 18 22 | - 6.0 | 2 18 | + 5.3 | 18 4 | - 8.9 | 11 13 | + 9.6 | 28 13 | + 9.0 | 20 22 | + 8.0 | 28 8 | - 7.0 |
| 19 10 | +14.2 | 2 20 | - 9.2 | 18 14 | +10.7 | 11 14 | +13.5 | 28 14 | +23.6 | 21 0 | - 8.2 | 29 15 | - 6.8 |
| 19 11 | - 8.1 | | | | | | | | | | | | |

HORIZONTAL FORCE.

Bifilar Magnetometer.*—The adjustments described in the 1st volume of the Toronto observations, pp. xxxiv. and xxxv., remained undisturbed till February 10th, 1843, when the magnet (No. 2) was withdrawn to have its temperature correction examined; its place being temporarily supplied by another 12-inch magnet, of which the scale-coefficient was ascertained in the usual manner to be $\cdot 000149$. On the 25th of February, 1843, the magnetometer was readjusted with the magnet No. 2, in the manner prescribed in the Instructions of the Royal Society; the angle v , viz., the angle through which the torsion circle required to be moved, in order to deflect the magnet into a position perpendicular to the magnetic meridian, was $49^{\circ} 14'$; the arc-value of a division of the scale being, in parts of radius, $0' \cdot 000114$, the value of a single scale division in parts of the horizontal force was

$$k = 0' \cdot 000114 \cdot \cot 49^{\circ} 14' = \cdot 000099.$$

The suspension wire was the same that had been in use since the commencement of the observations. For some months after the adjustment the scale readings were perceived to undergo a progressive change, indicative of some derangement the cause of which was not very obvious: the change was in the direction that might be produced by an elongation of the wire, being the opposite to that which would be occasioned by a loss of force in the magnet. It amounted on an average to about 2 scale divisions in a day; the mean monthly scale-readings for the months following the adjustment were as follows:—

| | | |
|--------------|--------|------------------|
| 1843. March, | 660·3 | scale divisions. |
| „ April, | 726·4 | „ |
| „ May, | 795·3 | „ |
| „ June, | 841·2 | „ |
| „ July, | 894·0 | „ |
| „ August, | 936·8 | „ |
| „ September, | 1069·8 | „ |

Between February 25th and October 11th of the same year the scale-readings had altered 470 divisions, equivalent (approximately) to $\cdot 044$ parts of the whole horizontal force. On the 11th October, 1843, the magnet was brought back to a position nearly perpendicular to the magnetic meridian, by turning the torsion circle $3^{\circ} 29'$, making $v = 52^{\circ} 43'$, and $k = \cdot 000087$. This proceeding seems to have arrested the change in great measure, and the instrument remained under the same adjustment to the end

* The determinations of the absolute value of the horizontal force obtained with the unifilar magnetometer will be discussed in a subsequent section.

of 1848. The mean scale-reading, reduced to a temperature of 50°, in the last three months of 1843 was 496·9.

| | |
|---------|-------|
| In 1844 | 540·4 |
| 1845 | 591·6 |
| 1846 | 605·2 |
| 1847 | 616·9 |
| 1848 | 630·0 |

showing a change of a similar character, but of much smaller amount, and the greater part taking place in the first few months after the re-adjustment.

That no increase took place in the magnetic moment of the magnet during this period,—but, on the contrary, a small decrease,—is shown by the following times of vibration of the magnet suspended as an unifilar magnet; the times of vibration are corrected for the arc and for the rate of the chronometer.

TABLE XXX.

| DATES. | Corrected Time of Vibration. | Temperature. | Change in the Magnetic Moment for 1° of Fahr. |
|---------------|------------------------------|--------------|---|
| 1841 { | Feb. 11 | 14·668 | } ·000224 |
| | March 16 | 14·717 | |
| | April 30 | 14·750 | |
| | May 31 | 14·733 | |
| | June 1 | 14·783 | |
| | Aug. 1 | 14·752 | |
| 1843. Feb. 22 | 14·840 | 60·5 | } |
| 1849. { | March 1 | 14·881 | |
| | „ 2 | 14·902 | 60·5 |

The absolute determinations show that during this period there was also a small secular decrease in the horizontal force of the earth. The increase of the scale readings appears therefore to be attributable to a decrease in the moment of torsion, such as would be produced by an elongation of the silver suspension wire.

In February 1849, the magnetometer was dismantled to make a new arrangement of the instruments in the Observatory, in consequence of the introduction of self-recording instruments. In dismantling the bifilar, the value of the scale-coefficient was re-examined by going through each part of the process of adjustment in the reverse order, and thus retracing the several steps. By this proceeding the angle v was found = 53° 00'; whence $k = \cdot 000088$, which is almost identical with the value obtained in October, 1843. The coefficient employed for the whole intervening time has been $\cdot 000087$.

The experiments made in February 1843, and recorded in vol. 1, pp. xxxii and xxxiii, for the purpose of ascertaining the temperature coefficient, not having been considered

as final on account of the small amount of the angles of deflection, a new series was made in April 1849, employing a portable unifilar magnetometer, and placing the suspending and deflecting magnets at the distance of 24 inches from centre to centre. The deflections thus obtained exceeded 33° . The magnet (No. 2) was submersed in water, the temperature of which was successively raised and lowered about 10° at a time between the temperatures of 40° and 90° . Five distinct determinations were thus obtained at as many points of the thermometric scale, each including from 30 to 40 partial results. Corresponding observations were made by auxiliary apparatus for the purpose of obtaining the changes of declination and horizontal force occurring during the course of the experiments, and corrections on account of these changes were applied. The following were the results:—

| Mean Temperature. ° | Value of q . |
|------------------------|----------------------|
| 44·4 | ·0001990 |
| 56·0 | ·0002278 |
| 67·1 | ·0002257 |
| 77·5 | ·0002388 |
| 86·7 | ·0002326 |
| <hr/> 65·2 <hr/> | <hr/> ·0002236 <hr/> |

The value of the coefficient increasing but very slowly with the temperature, the mean of the five series has been taken as sufficiently exact for all temperatures; including the usual addition of $\cdot 00001$ for the effect of variations of temperature upon the bifilar suspension apparatus, $q = \cdot 000234$.

Diurnal Variation.—Tables XXXI., XXXII., and XXXIII., exhibit the diurnal variation of the horizontal force derived from the monthly means of the bifilar magnetometer from January 1843, to June 1848, inclusive, reduced to an uniform temperature of the magnet, and expressed in parts of the horizontal force; the lowest monthly mean occurring at any of the observation hours has been taken as the zero of the month, and corresponds to the weakest force.

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXXI.—*Diurnal Variation of the Horizontal Force in the several Months,*
The lowest Monthly Mean occurring at any of the observation hours has

| Mean Toronto Time, Astron. Reckoning. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | |
| JANUARY. | 1843 | 000 | 038 | 078 | 119 | 161 | 151 | 129 | 131 | 131 | 113 | 110 |
| | 1844 | 004 | 034 | 055 | 082 | 108 | 101 | 090 | 085 | 086 | 069 | 060 |
| | 1845 | 019 | 044 | 065 | 091 | 109 | 113 | 083 | 091 | 096 | 079 | 084 |
| | 1846 | 006 | 041 | 079 | 122 | 155 | 142 | 128 | 108 | 094 | 095 | 089 |
| | 1847 | 000 | 030 | 074 | 120 | 126 | 121 | 130 | 116 | 100 | 091 | 088 |
| | 1848 | 005 | 048 | 080 | 135 | 204 | 206 | 189 | 191 | 185 | 176 | 179 |
| Reduced Means | | 003 | 036 | 069 | 108 | 141 | 136 | 122 | 117 | 112 | 101 | 099 |
| FEBRUARY. | 1843 | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 006 | 034 | 068 | 088 | 075 | 089 | 071 | 070 | 057 | 054 | 029 |
| | 1845 | 010 | 031 | 071 | 103 | 112 | 121 | 111 | 098 | 082 | 082 | 085 |
| | 1846 | 029 | 053 | 079 | 116 | 108 | 101 | 087 | 097 | 085 | 077 | 078 |
| | 1847 | 035 | 071 | 090 | 124 | 145 | 135 | 139 | 121 | 119 | 099 | 110 |
| | 1848 | 011 | 057 | 087 | 154 | 242 | 252 | 182 | 200 | 218 | 175 | 175 |
| Reduced Means | | 008 | 039 | 069 | 107 | 126 | 130 | 108 | 107 | 102 | 087 | 085 |
| MARCH. | 1843 | 182 | 178 | 151 | 129 | 128 | 128 | 134 | 141 | 157 | 132 | 112 |
| | 1844 | 000 | 028 | 083 | 143 | 146 | 137 | 125 | 116 | 106 | 089 | 084 |
| | 1845 | 019 | 067 | 112 | 159 | 181 | 178 | 158 | 145 | 146 | 140 | 120 |
| | 1846 | 000 | 030 | 079 | 135 | 163 | 173 | 180 | 156 | 148 | 141 | 133 |
| | 1847 | 020 | 053 | 104 | 173 | 200 | 203 | 161 | 158 | 141 | 125 | 094 |
| | 1848 | 016 | 093 | 169 | 227 | 258 | 266 | 241 | 220 | 203 | 185 | 177 |
| Reduced Means | | 008 | 043 | 084 | 129 | 147 | 149 | 135 | 124 | 118 | 103 | 088 |
| APRIL. | 1843 | 186 | 150 | 099 | 086 | 093 | 106 | 131 | 143 | 165 | 136 | 107 |
| | 1844 | 026 | 077 | 126 | 167 | 166 | 196 | 159 | 135 | 101 | 087 | 093 |
| | 1845 | 016 | 042 | 091 | 159 | 182 | 224 | 216 | 203 | 175 | 158 | 152 |
| | 1846 | 024 | 062 | 120 | 174 | 198 | 185 | 169 | 137 | 126 | 106 | 110 |
| | 1847 | 109 | 191 | 261 | 304 | 339 | 315 | 282 | 229 | 195 | 180 | 171 |
| | 1848 | 104 | 147 | 210 | 281 | 319 | 326 | 305 | 238 | 198 | 222 | 218 |
| Reduced Means | | 026 | 060 | 099 | 143 | 164 | 173 | 158 | 129 | 108 | 096 | 090 |
| MAY. | 1843 | 135 | 098 | 076 | 080 | 065 | 038 | 056 | 127 | 147 | 128 | 116 |
| | 1844 | 064 | 111 | 150 | 176 | 187 | 189 | 152 | 116 | 106 | 093 | 098 |
| | 1845 | 060 | 116 | 166 | 191 | 213 | 207 | 178 | 166 | 137 | 107 | 110 |
| | 1846 | 104 | 168 | 242 | 260 | 287 | 281 | 230 | 200 | 169 | 145 | 128 |
| | 1847 | 110 | 182 | 232 | 261 | 269 | 262 | 241 | 199 | 161 | 165 | 143 |
| | 1848 | 066 | 122 | 194 | 243 | 264 | 263 | 254 | 254 | 200 | 158 | 138 |
| Reduced Means | | 057 | 100 | 144 | 169 | 181 | 174 | 152 | 144 | 120 | 116 | 089 |
| JUNE. | 1843 | 139 | 106 | 074 | 089 | 086 | 106 | 131 | 147 | 139 | 143 | 137 |
| | 1844 | 056 | 092 | 139 | 156 | 169 | 169 | 142 | 128 | 109 | 088 | 077 |
| | 1845 | 054 | 101 | 166 | 196 | 211 | 210 | 188 | 159 | 142 | 122 | 113 |
| | 1846 | 072 | 103 | 170 | 205 | 212 | 234 | 223 | 191 | 129 | 072 | 073 |
| | 1847 | 071 | 128 | 203 | 240 | 253 | 236 | 210 | 168 | 136 | 119 | 107 |
| | 1848 | 090 | 173 | 231 | 279 | 294 | 278 | 230 | 197 | 170 | 165 | 138 |
| Reduced Means | | 054 | 091 | 138 | 168 | 178 | 180 | 161 | 139 | 112 | 092 | 082 |

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from January 1843 to June 1848, inclusive, in parts of the Horizontal Force.
 been taken as the Zero for the Month, and represents the weakest force.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | Monthly Means. |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | |
| 103 | 092 | 098 | 105 | 107 | 123 | 142 | 130 | 140 | 133 | 095 | 056 | 014 | 104 |
| 056 | 045 | 030 | 038 | 044 | 058 | 062 | 070 | 072 | 050 | 037 | 015 | 000 | 056 |
| 077 | 048 | 051 | 043 | 049 | 058 | 065 | 091 | 090 | 064 | 028 | 008 | 000 | 064 |
| 099 | 071 | 060 | 055 | 063 | 081 | 085 | 094 | 095 | 081 | 064 | 017 | 000 | 080 |
| 083 | 074 | 072 | 074 | 082 | 091 | 086 | 098 | 099 | 093 | 059 | 015 | 002 | 080 |
| 139 | 103 | 104 | 046 | 098 | 115 | 126 | 142 | 140 | 126 | 093 | 049 | 000 | 120 |
| 090 | 069 | 066 | 057 | 071 | 085 | 091 | 101 | 103 | 088 | 060 | 024 | 000 | 081 |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 031 | 027 | 024 | 020 | 022 | 031 | 036 | 029 | 026 | 012 | 006 | 003 | 000 | 038 |
| 068 | 072 | 052 | 065 | 064 | 067 | 081 | 087 | 061 | 044 | 026 | 009 | 000 | 067 |
| 087 | 061 | 059 | 062 | 063 | 061 | 060 | 078 | 066 | 040 | 000 | 018 | 020 | 066 |
| 091 | 078 | 083 | 078 | 074 | 084 | 088 | 077 | 076 | 030 | 025 | 000 | 019 | 083 |
| 175 | 132 | 061 | 037 | 073 | 066 | 110 | 138 | 000 | 056 | 106 | 062 | 011 | 116 |
| 080 | 064 | 046 | 042 | 049 | 052 | 065 | 072 | 036 | 026 | 023 | 008 | 000 | 064 |
| 087 | 065 | 050 | 042 | 017 | 009 | 000 | 026 | 036 | 057 | 087 | 133 | 178 | 098 |
| 073 | 075 | 058 | 066 | 080 | 091 | 084 | 089 | 089 | 056 | 025 | 020 | 012 | 078 |
| 123 | 122 | 120 | 114 | 112 | 114 | 123 | 134 | 106 | 078 | 054 | 029 | 000 | 111 |
| 144 | 120 | 118 | 118 | 110 | 126 | 134 | 120 | 098 | 078 | 043 | 019 | 000 | 107 |
| 057 | 104 | 102 | 109 | 104 | 105 | 118 | 127 | 090 | 063 | 025 | 000 | 001 | 102 |
| 153 | 129 | 103 | 129 | 147 | 164 | 147 | 151 | 130 | 087 | 048 | 020 | 000 | 144 |
| 074 | 071 | 060 | 064 | 063 | 070 | 069 | 076 | 060 | 038 | 015 | 005 | 000 | 075 |
| 102 | 084 | 078 | 076 | 064 | 026 | 000 | 012 | 017 | 070 | 126 | 174 | 198 | 101 |
| 070 | 060 | 061 | 048 | 034 | 068 | 075 | 015 | 030 | 036 | 008 | 000 | 009 | 077 |
| 150 | 149 | 134 | 129 | 127 | 143 | 146 | 141 | 136 | 122 | 097 | 047 | 000 | 131 |
| 090 | 079 | 090 | 088 | 086 | 103 | 099 | 100 | 081 | 045 | 019 | 002 | 000 | 096 |
| 142 | 169 | 129 | 000 | 080 | 124 | 166 | 172 | 106 | 078 | 068 | 038 | 056 | 163 |
| 075 | 133 | 103 | 000 | 040 | 153 | 181 | 180 | 170 | 133 | 082 | 051 | 057 | 164 |
| 053 | 060 | 047 | 005 | 020 | 051 | 059 | 051 | 038 | 029 | 015 | 000 | 001 | 070 |
| 099 | 086 | 064 | 043 | 027 | 016 | 000 | 014 | 026 | 073 | 136 | 166 | 151 | 082 |
| 084 | 066 | 055 | 063 | 065 | 071 | 065 | 066 | 063 | 045 | 017 | 000 | 022 | 089 |
| 116 | 095 | 084 | 085 | 075 | 087 | 073 | 087 | 081 | 057 | 015 | 000 | 023 | 105 |
| 116 | 091 | 105 | 121 | 108 | 105 | 081 | 107 | 095 | 057 | 000 | 011 | 059 | 136 |
| 143 | 121 | 134 | 059 | 000 | 086 | 063 | 058 | 089 | 073 | 030 | 019 | 045 | 131 |
| 126 | 121 | 067 | 070 | 104 | 106 | 106 | 104 | 094 | 058 | 012 | 000 | 019 | 131 |
| 081 | 064 | 052 | 041 | 029 | 045 | 031 | 040 | 042 | 028 | 002 | 000 | 020 | 079 |
| 123 | 108 | 089 | 074 | 066 | 052 | 037 | 000 | 027 | 063 | 113 | 153 | 160 | 098 |
| 065 | 062 | 060 | 048 | 035 | 029 | 032 | 033 | 031 | 016 | 000 | 001 | 025 | 073 |
| 108 | 094 | 086 | 084 | 079 | 083 | 088 | 102 | 096 | 073 | 024 | 000 | 018 | 108 |
| 055 | 055 | 053 | 065 | 047 | 048 | 074 | 068 | 050 | 033 | 017 | 000 | 020 | 095 |
| 098 | 087 | 083 | 090 | 079 | 090 | 092 | 099 | 081 | 068 | 041 | 000 | 012 | 116 |
| 114 | 120 | 096 | 100 | 096 | 098 | 094 | 116 | 103 | 082 | 045 | 000 | 022 | 139 |
| 068 | 062 | 052 | 051 | 041 | 041 | 044 | 044 | 039 | 030 | 014 | 000 | 017 | 079 |

TABLE XXXI.—*Diurnal Variation of the Horizontal Force in the several*

| Mean Toronto Time, Astron. Reckoning. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | |
| JULY. | 1843 | 143 | 111 | 078 | 050 | 063 | 076 | 103 | 126 | 143 | 132 | 116 |
| | 1844 | 094 | 144 | 187 | 221 | 234 | 219 | 196 | 175 | 154 | 146 | 133 |
| | 1845 | 058 | 090 | 150 | 185 | 195 | 189 | 173 | 157 | 133 | 126 | 096 |
| | 1846 | 062 | 044 | 171 | 200 | 222 | 240 | 186 | 163 | 093 | 103 | 092 |
| | 1847 | 085 | 144 | 211 | 251 | 254 | 231 | 211 | 194 | 173 | 132 | 120 |
| Reduced Means | 055 | 074 | 126 | 148 | 161 | 158 | 141 | 130 | 106 | 095 | 078 | |
| AUGUST. | 1843 | 158 | 108 | 068 | 077 | 064 | 096 | 129 | 143 | 146 | 141 | 119 |
| | 1844 | 094 | 157 | 217 | 250 | 249 | 235 | 190 | 168 | 155 | 161 | 156 |
| | 1845 | 070 | 115 | 175 | 210 | 226 | 191 | 175 | 148 | 134 | 123 | 117 |
| | 1846 | 090 | 177 | 230 | 263 | 265 | 282 | 191 | 144 | 132 | 107 | 104 |
| | 1847 | 041 | 125 | 203 | 245 | 260 | 252 | 226 | 199 | 198 | 175 | 149 |
| Reduced Means | 053 | 098 | 141 | 171 | 175 | 173 | 144 | 122 | 115 | 103 | 091 | |
| SEPTEMBER. | 1843 | 061 | 125 | 171 | 204 | 201 | 186 | 167 | 147 | 133 | 132 | 126 |
| | 1844 | 088 | 159 | 199 | 224 | 237 | 232 | 210 | 186 | 168 | 129 | 126 |
| | 1845 | 078 | 137 | 188 | 186 | 213 | 190 | 174 | 153 | 143 | 141 | 134 |
| | 1846 | 075 | 165 | 247 | 308 | 280 | 257 | 216 | 198 | 203 | 211 | 184 |
| | 1847 | 044 | 165 | 227 | 310 | 341 | 330 | 315 | 270 | 250 | 247 | 254 |
| Reduced Means | 068 | 149 | 205 | 245 | 253 | 238 | 215 | 190 | 178 | 171 | 164 | |
| OCTOBER. | 1843 | 020 | 030 | 071 | 094 | 111 | 107 | 091 | 076 | 079 | 065 | 066 |
| | 1844 | 043 | 094 | 136 | 153 | 177 | 166 | 155 | 149 | 135 | 136 | 125 |
| | 1845 | 027 | 052 | 076 | 107 | 098 | 091 | 067 | 060 | 043 | 035 | 032 |
| | 1846 | 029 | 068 | 110 | 160 | 180 | 173 | 132 | 127 | 111 | 098 | 095 |
| | 1847 | 134 | 158 | 218 | 218 | 267 | 278 | 283 | 256 | 246 | 235 | 226 |
| Reduced Means | 039 | 068 | 110 | 134 | 155 | 151 | 134 | 122 | 111 | 102 | 097 | |
| NOVEMBER. | 1843 | 019 | 037 | 066 | 084 | 103 | 095 | 093 | 082 | 074 | 069 | 057 |
| | 1844 | 010 | 032 | 074 | 110 | 112 | 101 | 104 | 078 | 075 | 077 | 083 |
| | 1845 | 029 | 054 | 087 | 104 | 120 | 116 | 118 | 130 | 126 | 107 | 110 |
| | 1846 | 008 | 031 | 072 | 104 | 114 | 100 | 101 | 102 | 098 | 105 | 099 |
| | 1847 | 008 | 051 | 125 | 165 | 196 | 191 | 192 | 214 | 197 | 169 | 084 |
| Reduced Means | 014 | 040 | 084 | 112 | 128 | 120 | 121 | 120 | 113 | 104 | 086 | |
| DECEMBER. | 1843 | 000 | 011 | 037 | 060 | 088 | 091 | 093 | 076 | 073 | 069 | 059 |
| | 1844 | 000 | 035 | 066 | 087 | 119 | 107 | 102 | 095 | 083 | 056 | 043 |
| | 1845 | 000 | 013 | 056 | 093 | 114 | 116 | 107 | 099 | 096 | 079 | 080 |
| | 1846 | 002 | 031 | 076 | 115 | 131 | 133 | 124 | 101 | 092 | 099 | 105 |
| | 1847 | 056 | 079 | 159 | 184 | 243 | 244 | 260 | 311 | 255 | 242 | 204 |
| Reduced Means | 000 | 022 | 067 | 096 | 127 | 126 | 125 | 124 | 108 | 097 | 086 | |

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Months, from January 1843 to June 1848, inclusive—continued.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | Monthly Means. |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| 093 | 060 | 057 | 032 | 014 | 012 | 000 | 014 | 039 | 083 | 125 | 166 | 170 | 084 |
| 135 | 124 | 113 | 097 | 097 | 095 | 095 | 109 | 113 | 080 | 033 | 000 | 031 | 126 |
| 089 | 084 | 091 | 080 | 079 | 080 | 090 | 086 | 087 | 071 | 035 | 000 | 014 | 102 |
| 064 | 046 | 080 | 058 | 028 | 034 | 037 | 057 | 061 | 053 | 035 | 000 | 036 | 090 |
| 116 | 108 | 064 | 103 | 098 | 077 | 092 | 104 | 084 | 045 | 015 | 000 | 035 | 123 |
| 066 | 051 | 048 | 041 | 030 | 027 | 030 | 041 | 044 | 033 | 016 | 000 | 024 | 072 |
| 104 | 078 | 065 | 040 | 031 | 032 | 013 | 000 | 018 | 081 | 148 | 150 | 182 | 093 |
| 146 | 143 | 123 | 122 | 119 | 122 | 123 | 136 | 103 | 074 | 006 | 000 | 028 | 137 |
| 110 | 096 | 095 | 084 | 061 | 077 | 096 | 093 | 063 | 032 | 016 | 000 | 020 | 105 |
| 087 | 100 | 060 | 097 | 086 | 078 | 061 | 076 | 074 | 055 | 000 | 000 | 039 | 117 |
| 090 | 114 | 103 | 105 | 087 | 107 | 122 | 127 | 112 | 065 | 027 | 008 | 000 | 131 |
| 069 | 068 | 051 | 052 | 039 | 045 | 045 | 048 | 036 | 023 | 001 | 000 | 016 | 078 |
| 108 | 111 | 103 | 102 | 103 | 113 | 113 | 113 | 101 | 052 | 006 | 000 | 020 | 112 |
| 129 | 107 | 072 | 071 | 085 | 124 | 100 | 137 | 114 | 064 | 020 | 000 | 024 | 125 |
| 124 | 098 | 091 | 108 | 095 | 125 | 128 | 129 | 096 | 056 | 017 | 000 | 026 | 118 |
| 176 | 185 | 158 | 107 | 091 | 114 | 160 | 108 | 083 | 048 | 021 | 000 | 019 | 151 |
| 225 | 198 | 196 | 191 | 186 | 199 | 161 | 112 | 064 | 106 | 042 | 005 | 000 | 185 |
| 151 | 139 | 123 | 115 | 111 | 134 | 131 | 119 | 091 | 064 | 020 | 000 | 017 | 137 |
| 044 | 036 | 037 | 039 | 046 | 056 | 062 | 063 | 053 | 035 | 024 | 008 | 000 | 055 |
| 131 | 039 | 092 | 106 | 102 | 103 | 098 | 104 | 094 | 063 | 020 | 000 | 014 | 101 |
| 025 | 018 | 022 | 037 | 044 | 059 | 062 | 061 | 039 | 023 | 006 | 004 | 009 | 045 |
| 054 | 039 | 068 | 068 | 091 | 116 | 130 | 128 | 086 | 049 | 012 | 000 | 000 | 089 |
| 231 | 095 | 146 | 045 | 144 | 029 | 164 | 142 | 076 | 011 | 000 | 063 | 064 | 155 |
| 085 | 033 | 061 | 047 | 073 | 061 | 091 | 088 | 058 | 024 | 000 | 003 | 004 | 077 |
| 046 | 045 | 045 | 047 | 049 | 057 | 069 | 078 | 067 | 042 | 015 | 000 | 007 | 056 |
| 068 | 061 | 061 | 056 | 050 | 060 | 074 | 076 | 085 | 067 | 034 | 001 | 000 | 065 |
| 095 | 083 | 080 | 084 | 098 | 102 | 107 | 117 | 123 | 074 | 026 | 013 | 000 | 088 |
| 083 | 085 | 082 | 097 | 101 | 104 | 111 | 136 | 123 | 081 | 032 | 017 | 000 | 083 |
| 137 | 104 | 095 | 116 | 127 | 135 | 152 | 175 | 121 | 092 | 050 | 027 | 000 | 122 |
| 085 | 075 | 072 | 079 | 084 | 091 | 102 | 115 | 103 | 070 | 030 | 011 | 000 | 082 |
| 057 | 043 | 043 | 058 | 060 | 064 | 076 | 090 | 089 | 065 | 061 | 043 | 010 | 059 |
| 050 | 035 | 036 | 038 | 047 | 055 | 068 | 088 | 084 | 069 | 058 | 016 | 000 | 060 |
| 073 | 065 | 066 | 065 | 068 | 078 | 076 | 038 | 094 | 085 | 061 | 023 | 009 | 069 |
| 109 | 086 | 088 | 097 | 099 | 105 | 109 | 118 | 112 | 082 | 060 | 022 | 000 | 087 |
| 192 | 130 | 110 | 145 | 147 | 096 | 000 | 060 | 069 | 095 | 046 | 066 | 072 | 141 |
| 084 | 060 | 057 | 069 | 072 | 068 | 054 | 067 | 078 | 067 | 045 | 022 | 006 | 072 |

TABLE XXXII.

Table showing the Mean Diurnal Variation of the Horizontal Force in each Month of the Year, derived from the preceding Table.

| Astron. Time at Toronto. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| January . . . | 003 | 036 | 069 | 108 | 141 | 136 | 122 | 117 | 112 | 101 | 099 | 090 |
| February . . . | 008 | 039 | 069 | 107 | 126 | 130 | 108 | 107 | 102 | 087 | 085 | 080 |
| March . . . | 008 | 043 | 084 | 129 | 147 | 149 | 135 | 124 | 118 | 103 | 088 | 074 |
| April . . . | 026 | 060 | 099 | 143 | 164 | 173 | 158 | 129 | 108 | 096 | 090 | 053 |
| May . . . | 057 | 100 | 144 | 169 | 181 | 174 | 152 | 144 | 120 | 116 | 089 | 081 |
| June . . . | 054 | 091 | 138 | 168 | 178 | 180 | 161 | 139 | 112 | 092 | 082 | 068 |
| July . . . | 055 | 074 | 126 | 148 | 161 | 158 | 141 | 130 | 106 | 095 | 078 | 066 |
| August . . . | 053 | 098 | 141 | 171 | 175 | 173 | 144 | 122 | 1.5 | 103 | 091 | 069 |
| September . . . | 068 | 149 | 205 | 245 | 253 | 238 | 215 | 190 | 178 | 171 | 164 | 151 |
| October . . . | 039 | 068 | 110 | 134 | 155 | 151 | 134 | 122 | 111 | 102 | 097 | 085 |
| November . . . | 014 | 040 | 084 | 112 | 128 | 120 | 121 | 120 | 113 | 104 | 086 | 085 |
| December . . . | 000 | 022 | 067 | 096 | 127 | 126 | 125 | 124 | 108 | 097 | 086 | 084 |
| April to September inclusive | 052 | 095 | 142 | 174 | 185 | 183 | 162 | 142 | 123 | 112 | 099 | 081 |
| October to March inclusive . . . | 010 | 039 | 079 | 113 | 135 | 133 | 122 | 117 | 109 | 097 | 088 | 081 |
| Mean of the whole Year. | 026 | 062 | 105 | 138 | 155 | 153 | 137 | 125 | 111 | 100 | 089 | 076 |
| Astron. Time at Toronto. | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| January . . . | 069 | 066 | 057 | 071 | 085 | 091 | 101 | 103 | 088 | 060 | 024 | 000 |
| February . . . | 064 | 046 | 042 | 049 | 052 | 065 | 072 | 036 | 026 | 023 | 008 | 000 |
| March . . . | 071 | 060 | 064 | 063 | 070 | 069 | 076 | 060 | 038 | 015 | 005 | 000 |
| April . . . | 060 | 047 | 005 | 020 | 051 | 059 | 051 | 038 | 029 | 015 | 000 | 001 |
| May . . . | 064 | 052 | 041 | 029 | 045 | 031 | 040 | 042 | 028 | 002 | 000 | 020 |
| June . . . | 062 | 052 | 051 | 041 | 041 | 044 | 044 | 039 | 030 | 014 | 000 | 017 |
| July . . . | 051 | 048 | 041 | 030 | 027 | 030 | 041 | 044 | 033 | 016 | 000 | 024 |
| August . . . | 068 | 051 | 052 | 039 | 045 | 045 | 048 | 036 | 023 | 001 | 000 | 016 |
| September . . . | 139 | 123 | 115 | 111 | 134 | 131 | 119 | 091 | 064 | 020 | 000 | 017 |
| October . . . | 083 | 061 | 047 | 073 | 061 | 091 | 088 | 058 | 024 | 000 | 003 | 004 |
| November . . . | 075 | 072 | 079 | 084 | 091 | 102 | 115 | 103 | 070 | 030 | 011 | 000 |
| December . . . | 060 | 057 | 069 | 072 | 068 | 054 | 067 | 078 | 067 | 045 | 022 | 006 |
| April to September inclusive | 074 | 062 | 051 | 045 | 057 | 057 | 057 | 048 | 035 | 011 | 000 | 016 |
| October to March inclusive . . . | 068 | 058 | 058 | 067 | 069 | 077 | 085 | 071 | 050 | 027 | 010 | 000 |
| Mean of the whole Year. | 066 | 055 | 049 | 051 | 058 | 062 | 066 | 055 | 037 | 014 | 000 | 003 |

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TABLE XXXIII.

Exhibits the Differences of the Horizontal Force at each observation hour from the Mean Force in the Month; the sign + implies that the force is greater than the Mean Force, and - that it is less.

| Astron. Time at Toronto. } 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| January . . | -.078 | -.045 | -.012 | +.027 | +.060 | +.055 | +.041 | +.036 | +.031 | +.020 | +.018 | +.009 |
| February . . | -.056 | -.025 | +.005 | +.043 | +.062 | +.066 | +.044 | +.043 | +.038 | +.023 | +.021 | +.016 |
| March . . . | -.067 | -.032 | +.009 | +.054 | +.072 | +.074 | +.060 | +.049 | +.043 | +.028 | +.013 | -.001 |
| April . . . | -.044 | -.010 | +.029 | +.073 | +.094 | +.103 | +.088 | +.059 | +.038 | +.026 | +.020 | -.017 |
| May | -.022 | +.021 | +.065 | +.090 | +.102 | +.095 | +.073 | +.065 | +.041 | +.037 | +.010 | +.002 |
| June | -.025 | +.012 | +.059 | +.089 | +.099 | +.101 | +.082 | +.060 | +.033 | +.013 | +.003 | -.011 |
| July | -.017 | +.002 | +.054 | +.076 | +.089 | +.086 | +.069 | +.058 | +.034 | +.023 | +.006 | -.006 |
| August . . . | -.025 | +.020 | +.063 | +.093 | +.097 | +.095 | +.066 | +.044 | +.037 | +.025 | +.013 | -.009 |
| September . | -.069 | -.012 | +.068 | +.108 | +.116 | +.101 | +.078 | +.053 | +.041 | +.034 | +.027 | +.014 |
| October . . . | -.038 | -.009 | +.033 | +.057 | +.078 | +.074 | +.057 | +.045 | +.034 | +.025 | +.020 | +.008 |
| November . . | -.068 | -.042 | +.002 | +.030 | +.046 | +.038 | +.039 | +.038 | +.031 | +.022 | +.004 | +.003 |
| December . . | -.072 | -.050 | -.005 | +.024 | +.055 | +.054 | +.053 | +.052 | +.036 | +.025 | +.014 | +.012 |
| Mean of the whole Year. } | -.048 | -.014 | +.031 | +.064 | +.081 | +.078 | +.063 | +.050 | +.036 | +.025 | +.014 | +.002 |
| Astron. Time at Toronto. } 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | |
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| January . . . | -.012 | -.015 | -.024 | -.010 | +.004 | +.010 | +.020 | +.022 | +.007 | -.021 | -.057 | -.081 |
| February . . . | -.000 | -.018 | -.022 | -.015 | -.012 | +.001 | +.008 | -.028 | -.038 | -.041 | -.056 | -.064 |
| March | -.004 | -.015 | -.011 | -.012 | -.005 | -.006 | +.001 | -.015 | -.037 | -.060 | -.070 | -.075 |
| April | -.010 | -.023 | -.065 | -.050 | -.019 | -.011 | -.019 | -.032 | -.041 | -.055 | -.070 | -.069 |
| May | -.015 | -.027 | -.038 | -.050 | -.034 | -.048 | -.039 | -.037 | -.051 | -.077 | -.079 | -.059 |
| June | -.017 | -.027 | -.028 | -.038 | -.038 | -.035 | -.035 | -.040 | -.049 | -.065 | -.079 | -.062 |
| July | -.021 | -.024 | -.031 | -.042 | -.045 | -.042 | -.031 | -.028 | -.039 | -.056 | -.072 | -.048 |
| August | -.010 | -.027 | -.026 | -.039 | -.033 | -.033 | -.030 | -.042 | -.055 | -.077 | -.078 | -.062 |
| September . . | +.002 | -.014 | -.022 | -.026 | -.003 | -.006 | -.018 | -.046 | -.073 | -.117 | -.137 | -.120 |
| October | -.044 | -.016 | -.030 | -.004 | -.016 | +.014 | +.011 | -.019 | -.053 | -.077 | -.074 | -.073 |
| November . . . | -.007 | -.010 | -.003 | +.002 | +.009 | +.020 | +.033 | +.021 | -.012 | -.052 | -.071 | -.082 |
| December . . . | -.012 | -.015 | -.003 | -.000 | -.004 | -.018 | -.005 | +.006 | -.005 | -.027 | -.050 | -.066 |
| Mean of the whole Year. } | -.013 | -.019 | -.025 | -.024 | -.018 | -.013 | -.009 | -.020 | -.037 | -.052 | -.074 | -.072 |

The diurnal variation of the Horizontal Force at Toronto has a principal maximum at a little after 4^h at all seasons; and a principal minimum at 22^h or 23^h, occurring earlier from April to September than from October to March. From the minimum at 22^h or 23^h the force increases continuously to the maximum at or shortly after 4^h. From the maximum at 4^h the force diminishes to a secondary minimum about 14^h or 15^h, occurring earlier than 14^h from October to March, and about 15^h from April to September; and again increases to a secondary maximum about 18^h, occurring somewhat earlier from April to September than from October to March. From 18^h the force progressively decreases to the minimum at 22^h or 23^h.

The diurnal variation of the horizontal force is thus a double progression at all seasons of the year, and its range or whole amount is considerably greater from April to September than from October to March.

The mean diurnal variation of the horizontal force at Toronto and Hobarton, exhibited in comparison and expressed in absolute value, is as follows:—

TABLE XXXIV.

| Astron. Time at the Station. } | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| Toronto . . | 092 | 220 | 372 | 490 | 549 | 542 | 486 | 443 | 393 | 354 | 315 | 270 |
| Hobarton . . | 027 | 166 | 337 | 476 | 594 | 579 | 539 | 530 | 525 | 494 | 494 | 476 |
| Astron. Time at the Station. } | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| Toronto . . | 234 | 195 | 174 | 180 | 205 | 220 | 233 | 195 | 131 | 050 | 000 | 013 |
| Hobarton. . | 471 | 467 | 467 | 459 | 455 | 467 | 467 | 417 | 337 | 193 | 059 | 000 |

Corrections on account of the Diurnal Variation for the different months of the year.—Table XXXIII, page lix, supplies for every month of the year corrections to the mean horizontal force in the month to be applied to observations made at any one of the observation hours. In applying the values in this table as corrections, it will be remembered that the opposite sign to that in the table must always be employed.

VERTICAL FORCE.

Vertical Force Magnetometer.—The variations of the Vertical Force at Toronto have continued to be observed by the instrument described in Vol. I., p. liii.

The times of vibration in the horizontal plane observed in 1840 and 1841 are stated in Vol. I, *l. c.*, terminating with 11^s.496, on the 30th of September, 1841. The next observation appears to have been made on March the 26th, 1846, when the magnet was dismantled for temperature experiments, and the time of vibration was found to be 11^s.50, or nearly identical with the last observation in 1841. The magnet was magnetized afresh on the 1st of April, 1846, and its time of horizontal vibration was then found to be 10^s.29; it was again observed on February the 28th, 1849, and found 10^s.36; and on June the 2nd, 1850, also 10^s.36. The times of vibration in the vertical plane in 1841 and 1842, are stated in Vol. I., pp. liv and lv. The observations were made usually at weekly intervals until February, 1849, after which date they were made only on the monthly term days. The mean times of vertical vibration in the several months from 1843 to 1851, inclusive, are shown in the following Table.

TABLE XXXV.

Vertical Vibrations.

| MONTHS. | Time of one Vibration in the Vertical Plane. | | | | | | | | |
|-----------------|--|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | 1849 | 1850 | 1851 |
| January . . . | 10 ^s .42 | — ^s | 12 ^s .66 | 12 ^s .41 | 11 ^s .12 | 11 ^s .11 | 11 ^s .11 | 10 ^s .74 | 10 ^s .70 |
| February . . . | 10.45 | 12.79 | 12.64 | 12.48 | 11.14 | 11.17 | 11.14 | 10.92 | 10.57 |
| March . . . | 10.45 | 13.01 | 12.61 | 12.48 | 11.15 | 11.10 | 11.09 | 10.88 | 10.60 |
| April . . . | 10.35 | 12.96 | 12.62 | 11.10 ^b | 11.15 | 11.13 | 11.08 | 10.86 | 10.40 |
| May . . . | 10.38 | 12.95 | 12.60 | 11.07 | 11.11 | 11.11 | 11.12 | — ^c | 10.51 |
| June . . . | 10.37 | 12.48 | 12.68 | 11.04 | 11.05 | 11.12 | 11.08 | 10.35 | 10.51 |
| July . . . | 10.25 | 12.57 | 12.68 | 11.03 | 11.06 | 11.11 | 11.07 | 10.28 | 10.48 |
| August . . . | 10.30 | 12.57 | 12.64 | 11.03 | 11.08 | 11.12 | 11.06 | 10.45 | 10.51 |
| September . . . | 10.31 | 12.54 | 12.66 | 11.04 | 11.07 | 11.14 | 11.11 | 10.55 | 10.55 |
| October . . . | 10.31 | 12.58 | 12.61 | 11.11 | 11.09 | 11.14 | 10.81 | 10.60 | 10.57 |
| November . . . | — ^a | 12.63 | 12.61 | 11.14 | 11.08 | 11.19 | 10.88 | 10.63 | 11.00 |
| December . . . | — | 12.61 | 12.48 | 11.12 | 11.12 | 11.18 | 10.86 | 10.79 | 10.78 |

^a Magnet employed in Temperature experiments. ^b Needle remagnetized.
^c Vertical Force Magnetometer dismantled whilst preparations were making for photographic instruments.

The values of the scale coefficient, computed for each month from the times of vibration in the horizontal and vertical planes and the magnetic inclination, are given at the head of the pages in which the observations of the vertical force in the same months are recorded.

Temperature Coefficient.—The experiments to determine the value of the temperature coefficient were made in the detached building. The suspended magnet was 3·0 inches in length, and the Vertical Force Magnet was so placed that its axis should be in a line perpendicular to the suspended magnet when deflected. In the first experiment the V. F. magnet and a thermometer were enclosed in a copper water-tight case, which was fixed firmly in a trough, capable of containing a quantity of water sufficient to surround the case and impart the required temperature to the magnet within; it was found, however, that the condensation of the moist air inside the case exposed the axles to as much risk of injury as if they were entirely wetted: in subsequent experiments, therefore, the water-tight copper case was dispensed with, and the magnet itself was immersed in the water.

During the first experiment, the distance between the centres of the suspended and deflecting magnets was 20 inches; in the subsequent experiments the distance was about 17 inches.

Previous to the second experiment the needle was remagnetized; after which it was found that the magnetic moment had been increased by the process, and consequently the angle of deflection was considerably greater in the later experiments than in the first.

Table XXXVI. contains an abstract of the experiments; the means only are stated, each mean being the result of three distinct observations, made at intervals of about two minutes. The numbers in the 3rd and 5th columns are the differences respectively of the observed temperatures and declinometer-readings on the same horizontal line, from the mean of the temperatures and declinometer-readings in the line above and in the line below.

The values of the temperature coefficient derived from the experiments recorded in Table XXXVI., are as follows:—

| | | | | | |
|---------|---------|----------|---------|-----------|---------|
| Exp. I. | 000061 | Exp. IV. | ·000074 | Exp. VII. | ·000073 |
| „ II. | 000063 | „ V. | ·000078 | „ VIII. | ·000075 |
| „ III. | ·000070 | „ VI. | ·000067 | „ IX. | ·000074 |

The mean value is 00007, which has accordingly been employed in reducing the observations of the vertical force recorded in this volume to a uniform temperature.

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXXVII.—*Diurnal Variation of the Vertical Force in the several Months*
The lowest Monthly Mean corresponding to any of the observation hours has

| Astronomical Time at Toronto. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h |
|-------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| JANUARY. | 1843 | 011 | 016 | 019 | 024 | 023 | 024 | 024 | 025 | 024 | 023 |
| | 1844 ^a | — | — | — | — | — | — | — | — | — | — |
| | 1845 | 009 | 014 | 020 | 022 | 022 | 038 | 026 | 028 | 027 | 024 |
| | 1846 | 003 | 009 | 015 | 013 | 011 | 009 | 008 | 007 | 009 | 015 |
| | 1847 | 007 | 008 | 010 | 018 | 008 | 012 | 013 | 011 | 011 | 008 |
| | 1848 | 022 | 024 | 027 | 031 | 030 | 028 | 034 | 037 | 038 | 032 |
| Reduced Means | 007 | 011 | 015 | 019 | 016 | 019 | 018 | 019 | 019 | 017 | 016 |
| FEBRUARY. | 1843 | 014 | 022 | 030 | 034 | 037 | 038 | 042 | 041 | 039 | 041 |
| | 1844 | 005 | 006 | 011 | 013 | 012 | 015 | 016 | 014 | 014 | 014 |
| | 1845 | 009 | 014 | 024 | 026 | 026 | 026 | 026 | 025 | 024 | 022 |
| | 1846 | 003 | 002 | 005 | 007 | 007 | 007 | 013 | 014 | 013 | 012 |
| | 1847 | 005 | 007 | 008 | 010 | 011 | 013 | 014 | 018 | 021 | 013 |
| | 1848 | 046 | 053 | 057 | 057 | 073 | 073 | 057 | 059 | 064 | 044 |
| Reduced Means | 008 | 011 | 017 | 019 | 022 | 023 | 022 | 023 | 023 | 018 | 017 |
| MARCH. | 1843 | 004 | 007 | 011 | 013 | 015 | 015 | 018 | 023 | 026 | 025 |
| | 1844 | 028 | 036 | 040 | 047 | 054 | 058 | 058 | 062 | 051 | 044 |
| | 1845 | 004 | 009 | 014 | 018 | 020 | 026 | 023 | 026 | 023 | 022 |
| | 1846 | 002 | 006 | 013 | 019 | 021 | 022 | 021 | 016 | 013 | 012 |
| | 1847 | 027 | 026 | 031 | 044 | 041 | 042 | 047 | 048 | 046 | 041 |
| | 1848 | 032 | 042 | 053 | 051 | 049 | 049 | 049 | 052 | 050 | 047 |
| Reduced Means | 006 | 011 | 017 | 022 | 023 | 025 | 026 | 028 | 025 | 023 | 015 |
| APRIL. | 1843 | 011 | 021 | 030 | 036 | 042 | 042 | 041 | 040 | 034 | 028 |
| | 1844 | 031 | 039 | 046 | 048 | 048 | 054 | 054 | 049 | 045 | 039 |
| | 1845 | 002 | 007 | 015 | 020 | 021 | 023 | 024 | 022 | 023 | 014 |
| | 1846 | 015 | 020 | 032 | 040 | 043 | 042 | 038 | 036 | 031 | 031 |
| | 1847 | 040 | 054 | 038 | 040 | 046 | 047 | 048 | 042 | 031 | 044 |
| | 1848 | 053 | 061 | 070 | 076 | 081 | 078 | 080 | 075 | 075 | 072 |
| Reduced Means | 015 | 024 | 028 | 033 | 037 | 038 | 037 | 034 | 030 | 028 | 021 |
| MAY. | 1843 | 000 | 006 | 016 | 021 | 031 | 044 | 045 | 034 | 027 | 021 |
| | 1844 | 007 | 008 | 014 | 021 | 026 | 032 | 034 | 036 | 031 | 022 |
| | 1845 | 005 | 010 | 019 | 026 | 030 | 032 | 029 | 026 | 023 | 022 |
| | 1846 | 019 | 025 | 039 | 044 | 053 | 058 | 044 | 038 | 032 | 032 |
| | 1847 | 042 | 047 | 051 | 057 | 060 | 065 | 064 | 063 | 062 | 060 |
| | 1848 | 024 | 035 | 046 | 052 | 053 | 053 | 051 | 060 | 053 | 047 |
| Reduced Means | 011 | 017 | 026 | 032 | 037 | 042 | 039 | 038 | 033 | 029 | 021 |
| JUNE. | 1843 | 005 | 011 | 015 | 019 | 026 | 028 | 029 | 026 | 023 | 019 |
| | 1844 | 003 | 005 | 008 | 012 | 016 | 017 | 015 | 015 | 014 | 014 |
| | 1845 | 002 | 000 | 009 | 016 | 021 | 023 | 023 | 020 | 018 | 014 |
| | 1846 | 013 | 013 | 024 | 031 | 033 | 033 | 035 | 037 | 029 | 025 |
| | 1847 | 009 | 012 | 016 | 023 | 029 | 027 | 030 | 026 | 025 | 018 |
| | 1848 | 000 | 002 | 014 | 018 | 019 | 029 | 024 | 025 | 018 | 016 |
| Reduced Means | 002 | 004 | 011 | 017 | 021 | 023 | 023 | 022 | 018 | 015 | 011 |

^a Magnet removed for temperature experiments.

DIURNAL VARIATION.

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from January 1843 to June 1848, inclusive, in parts of the Vertical Force.

been taken as the Zero for the Month, and represents the weakest force.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| 019 | 008 | 009 | 007 | 007 | 005 | 007 | 006 | 008 | 011 | 005 | 000 | 003 |
| 017 | 010 | 007 | 004 | 002 | 004 | 000 | 007 | 007 | 006 | 002 | 004 | 006 |
| 009 | 011 | 006 | 003 | 003 | 000 | 007 | 008 | 008 | 010 | 004 | 003 | 003 |
| 009 | 007 | 005 | 008 | 007 | 007 | 006 | 007 | 008 | 005 | 000 | 001 | 003 |
| 019 | 020 | 021 | 004 | 000 | 003 | 002 | 007 | 010 | 016 | 011 | 008 | 012 |
| 012 | 008 | 007 | 002 | 001 | 001 | 001 | 004 | 005 | 007 | 001 | 000 | 003 |
| 030 | 016 | 012 | 016 | 017 | 015 | 019 | 018 | 016 | 031 | 002 | 000 | 005 |
| 012 | 013 | 009 | 009 | 008 | 010 | 010 | 009 | 010 | 014 | 004 | 000 | 001 |
| 018 | 003 | 003 | 006 | 005 | 000 | 006 | 007 | 007 | 012 | 010 | 007 | 004 |
| 009 | 005 | 001 | 002 | 006 | 006 | 006 | 009 | 013 | 017 | 004 | 001 | 000 |
| 006 | 001 | 006 | 002 | 000 | 001 | 000 | 000 | 009 | 011 | 003 | 001 | 000 |
| 042 | 040 | 011 | 000 | 006 | 003 | 009 | 016 | 007 | 040 | 041 | 036 | 037 |
| 014 | 007 | 001 | 000 | 001 | 000 | 002 | 004 | 004 | 015 | 005 | 002 | 002 |
| 016 | 008 | 003 | 001 | 007 | 009 | 010 | 012 | 015 | 013 | 010 | 001 | 000 |
| 028 | 000 | 013 | 016 | 010 | 016 | 016 | 023 | 031 | 031 | 030 | 025 | 024 |
| 020 | 006 | 009 | 008 | 009 | 008 | 012 | 013 | 015 | 014 | 005 | 003 | 000 |
| 011 | 009 | 005 | 004 | 007 | 005 | 009 | 018 | 014 | 014 | 010 | 006 | 000 |
| 000 | 024 | 021 | 024 | 026 | 017 | 019 | 026 | 028 | 031 | 024 | 022 | 024 |
| 029 | 024 | 010 | 009 | 002 | 008 | 000 | 008 | 019 | 025 | 020 | 021 | 023 |
| 007 | 002 | 000 | 000 | 000 | 000 | 001 | 007 | 010 | 011 | 006 | 003 | 002 |
| 012 | 007 | 010 | 008 | 000 | 006 | 010 | 021 | 016 | 015 | 009 | 005 | 004 |
| 028 | 024 | 025 | 014 | 000 | 018 | 005 | 004 | 004 | 023 | 026 | 026 | 027 |
| 011 | 009 | 007 | 002 | 005 | 009 | 012 | 010 | 010 | 005 | 002 | 000 | 001 |
| 014 | 007 | 005 | 009 | 000 | 005 | 017 | 021 | 020 | 016 | 013 | 010 | 008 |
| 030 | 033 | 029 | 000 | 003 | 014 | 018 | 033 | 023 | 021 | 034 | 034 | 038 |
| 011 | 007 | 000 | 026 | 061 | 029 | 033 | 053 | 054 | 052 | 050 | 049 | 049 |
| 008 | 004 | 003 | 000 | 001 | 003 | 006 | 014 | 011 | 012 | 012 | 011 | 011 |
| 016 | 002 | 003 | 004 | 011 | 016 | 016 | 021 | 019 | 016 | 010 | 003 | 002 |
| 007 | 004 | 000 | 002 | 005 | 010 | 015 | 017 | 017 | 014 | 010 | 005 | 003 |
| 014 | 011 | 014 | 009 | 007 | 011 | 015 | 017 | 014 | 007 | 004 | 000 | 000 |
| 007 | 000 | 009 | 013 | 012 | 008 | 005 | 022 | 020 | 019 | 018 | 016 | 018 |
| 052 | 037 | 052 | 000 | 007 | 029 | 036 | 049 | 038 | 049 | 044 | 037 | 040 |
| 030 | 020 | 000 | 005 | 006 | 022 | 026 | 023 | 023 | 026 | 019 | 024 | 021 |
| 016 | 007 | 008 | 000 | 003 | 011 | 014 | 020 | 017 | 017 | 013 | 009 | 009 |
| 012 | 006 | 008 | 009 | 007 | 013 | 015 | 020 | 018 | 017 | 013 | 008 | 000 |
| 009 | 007 | 004 | 004 | 004 | 004 | 007 | 004 | 004 | 001 | 000 | 002 | 002 |
| 012 | 010 | 006 | 005 | 003 | 006 | 008 | 009 | 010 | 007 | 004 | 001 | 003 |
| 012 | 009 | 000 | 001 | 000 | 005 | 016 | 021 | 021 | 022 | 021 | 017 | 012 |
| 010 | 001 | 000 | 003 | 005 | 014 | 021 | 022 | 018 | 016 | 013 | 008 | 006 |
| 014 | 009 | 003 | 002 | 000 | 014 | 018 | 027 | 028 | 019 | 008 | 005 | 003 |
| 008 | 004 | 000 | 001 | 000 | 006 | 011 | 014 | 013 | 011 | 007 | 004 | 001 |

TABLE XXXVII.—*Diurnal Variation of the Vertical Force in the several*

| Astronomical Time at Toronto. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | |
|-------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | |
| JULY. | 1843 | 017 | 021 | 032 | 041 | 044 | 050 | 043 | 040 | 037 | 020 | 014 |
| | 1844 | 007 | 010 | 014 | 024 | 030 | 032 | 030 | 026 | 023 | 021 | 018 |
| | 1845 | 010 | 013 | 020 | 027 | 034 | 033 | 032 | 027 | 022 | 020 | 018 |
| | 1846 | 039 | 042 | 053 | 058 | 064 | 073 | 069 | 068 | 058 | 046 | 042 |
| | 1847 | 014 | 015 | 024 | 032 | 037 | 042 | 040 | 038 | 031 | 016 | 021 |
| Reduced Means | 015 | 018 | 027 | 034 | 040 | 044 | 041 | 038 | 032 | 023 | 021 | |
| AUGUST. | 1843 | 021 | 026 | 032 | 036 | 041 | 038 | 034 | 034 | 028 | 022 | 016 |
| | 1844 | 019 | 027 | 038 | 042 | 045 | 049 | 048 | 045 | 037 | 029 | 020 |
| | 1845 | 032 | 037 | 045 | 049 | 059 | 054 | 053 | 047 | 046 | 038 | 031 |
| | 1846 | 073 | 078 | 084 | 098 | 105 | 112 | 099 | 094 | 087 | 068 | 052 |
| | 1847 | 024 | 027 | 031 | 035 | 039 | 038 | 034 | 030 | 026 | 022 | 021 |
| • Reduced Means | 028 | 033 | 040 | 046 | 052 | 052 | 048 | 044 | 039 | 030 | 022 | |
| SEPTEMBER. | 1843 | 018 | 023 | 030 | 035 | 042 | 041 | 038 | 036 | 033 | 024 | 017 |
| | 1844 | 050 | 058 | 063 | 066 | 064 | 060 | 061 | 059 | 055 | 046 | 045 |
| | 1845 | 034 | 043 | 051 | 051 | 053 | 052 | 050 | 048 | 045 | 042 | 034 |
| | 1846 | 065 | 085 | 090 | 095 | 089 | 080 | 078 | 073 | 069 | 063 | 055 |
| | 1847 | 044 | 053 | 056 | 064 | 062 | 055 | 054 | 056 | 046 | 043 | 036 |
| Reduced Means | 036 | 046 | 052 | 056 | 056 | 051 | 050 | 048 | 044 | 038 | 031 | |
| OCTOBER. | 1843 | 021 | 026 | 034 | 037 | 039 | 039 | 041 | 043 | 041 | 036 | 038 |
| | 1844 | 025 | 033 | 036 | 041 | 042 | 041 | 036 | 037 | 039 | 034 | 028 |
| | 1845 | 010 | 014 | 018 | 021 | 020 | 026 | 024 | 024 | 027 | 027 | 020 |
| | 1846 | 030 | 033 | 036 | 040 | 038 | 042 | 046 | 052 | 039 | 023 | 021 |
| | 1847 | 051 | 057 | 062 | 055 | 050 | 055 | 053 | 056 | 055 | 051 | 047 |
| Reduced Means | 025 | 031 | 035 | 037 | 036 | 039 | 038 | 040 | 038 | 032 | 029 | |
| NOVEMBER. | 1843 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 016 | 023 | 032 | 036 | 034 | 034 | 032 | 034 | 035 | 028 | 025 |
| | 1845 | 022 | 027 | 032 | 031 | 031 | 026 | 025 | 024 | 022 | 022 | 018 |
| | 1846 | 012 | 018 | 025 | 027 | 024 | 026 | 028 | 029 | 024 | 021 | 018 |
| | 1847 | 014 | 017 | 026 | 026 | 048 | 044 | 035 | 048 | 042 | 025 | 015 |
| Reduced Means | 013 | 018 | 026 | 027 | 031 | 029 | 027 | 031 | 028 | 021 | 016 | |
| DECEMBER. | 1843 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 006 | 012 | 015 | 018 | 018 | 017 | 017 | 017 | 016 | 016 | 014 |
| | 1845 | 011 | 017 | 025 | 032 | 030 | 027 | 027 | 027 | 018 | 019 | 023 |
| | 1846 | 005 | 009 | 011 | 009 | 011 | 012 | 013 | 014 | 015 | 013 | 009 |
| | 1847 | 052 | 058 | 075 | 068 | 069 | 063 | 068 | 071 | 071 | 073 | 061 |
| Reduced Means | 016 | 022 | 030 | 030 | 030 | 028 | 029 | 030 | 028 | 028 | 025 | |

^a Magnet removed for temperature experiments.

DIURNAL VARIATION.

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Months, from January 1843 to June 1848, inclusive—continued.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| 014 | 008 | 004 | 001 | 000 | 003 | 005 | 005 | 005 | 008 | 009 | 008 | 011 |
| 014 | 006 | 003 | 000 | 003 | 004 | 010 | 013 | 014 | 014 | 013 | 008 | 007 |
| 009 | 002 | 001 | 000 | 003 | 008 | 012 | 015 | 016 | 015 | 015 | 011 | 008 |
| 035 | 016 | 007 | 000 | 004 | 008 | 025 | 033 | 040 | 036 | 037 | 035 | 037 |
| 010 | 015 | 000 | 011 | 017 | 023 | 027 | 029 | 027 | 026 | 024 | 017 | 015 |
| 014 | 007 | 001 | 000 | 003 | 007 | 014 | 017 | 018 | 018 | 017 | 014 | 014 |
| 007 | 008 | 005 | 000 | 005 | 004 | 015 | 022 | 018 | 019 | 017 | 015 | 016 |
| 015 | 007 | 005 | 004 | 000 | 011 | 012 | 016 | 016 | 016 | 015 | 015 | 014 |
| 020 | 015 | 017 | 007 | 000 | 014 | 024 | 036 | 035 | 032 | 029 | 029 | 030 |
| 035 | 022 | 000 | 027 | 021 | 029 | 056 | 069 | 073 | 072 | 069 | 069 | 070 |
| 000 | 004 | 009 | 006 | 004 | 006 | 016 | 029 | 032 | 024 | 022 | 022 | 021 |
| 009 | 005 | 001 | 003 | 000 | 007 | 019 | 028 | 029 | 027 | 024 | 024 | 024 |
| 013 | 014 | 004 | 006 | 002 | 000 | 006 | 013 | 016 | 018 | 014 | 012 | 014 |
| 042 | 029 | 014 | 000 | 012 | 023 | 018 | 033 | 043 | 041 | 040 | 041 | 045 |
| 027 | 027 | 008 | 000 | 002 | 018 | 027 | 029 | 026 | 024 | 023 | 026 | 029 |
| 058 | 032 | 029 | 020 | 000 | 001 | 023 | 011 | 024 | 030 | 038 | 049 | 055 |
| 034 | 021 | 010 | 005 | 020 | 007 | 000 | 029 | 032 | 016 | 019 | 023 | 029 |
| 029 | 019 | 007 | 000 | 001 | 004 | 009 | 017 | 022 | 020 | 021 | 024 | 028 |
| 030 | 021 | 014 | 010 | 000 | 007 | 013 | 023 | 036 | 036 | 026 | 024 | 019 |
| 024 | 023 | 003 | 010 | 005 | 000 | 004 | 002 | 011 | 018 | 021 | 019 | 021 |
| 018 | 010 | 003 | 006 | 007 | 000 | 005 | 011 | 013 | 022 | 009 | 006 | 004 |
| 014 | 000 | 005 | 004 | 007 | 004 | 012 | 014 | 009 | 022 | 022 | 023 | 023 |
| 044 | 028 | 032 | 026 | 014 | 000 | 002 | 001 | 043 | 044 | 025 | 040 | 037 |
| 024 | 014 | 009 | 009 | 005 | 000 | 005 | 008 | 020 | 026 | 019 | 020 | 019 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 014 | 008 | 011 | 007 | 000 | 002 | 001 | 000 | 005 | 013 | 008 | 011 | 015 |
| 016 | 016 | 011 | 012 | 008 | 000 | 008 | 014 | 017 | 014 | 015 | 013 | 017 |
| 016 | 011 | 006 | 000 | 010 | 011 | 009 | 014 | 016 | 015 | 013 | 012 | 008 |
| 004 | 010 | 008 | 002 | 006 | 000 | 003 | 006 | 003 | 005 | 002 | 003 | 008 |
| 009 | 008 | 006 | 002 | 003 | 000 | 002 | 005 | 007 | 009 | 006 | 007 | 009 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 011 | 010 | 007 | 007 | 008 | 005 | 004 | 004 | 002 | 002 | 000 | 002 | 002 |
| 020 | 015 | 013 | 013 | 008 | 005 | 003 | 004 | 002 | 000 | 007 | 007 | 007 |
| 000 | 004 | 002 | 004 | 003 | 000 | 001 | 008 | 009 | 008 | 007 | 003 | 004 |
| 058 | 018 | 027 | 026 | 043 | 000 | 000 | 011 | 008 | 034 | 032 | 042 | 049 |
| 020 | 010 | 010 | 011 | 013 | 001 | 000 | 005 | 003 | 009 | 009 | 012 | 013 |

TABLE XXXVIII.

Table showing the Mean Diurnal Variation of the Vertical Force in each Month of the Year, derived from the preceding Table.

| Astron. Time at Toronto. } 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| January . . . | 007 | 011 | 515 | 019 | 016 | 019 | 018 | 019 | 019 | 017 | 016 | 012 |
| February . . . | 008 | 011 | 017 | 019 | 022 | 023 | 022 | 023 | 023 | 018 | 017 | 014 |
| March . . . | 006 | 011 | 017 | 022 | 023 | 025 | 026 | 028 | 025 | 023 | 015 | 007 |
| April . . . | 015 | 024 | 028 | 033 | 037 | 038 | 037 | 034 | 030 | 028 | 021 | 008 |
| May . . . | 011 | 017 | 026 | 032 | 037 | 042 | 039 | 038 | 033 | 029 | 021 | 016 |
| June . . . | 002 | 004 | 011 | 017 | 021 | 023 | 023 | 022 | 018 | 015 | 011 | 008 |
| July . . . | 015 | 018 | 027 | 034 | 040 | 044 | 041 | 038 | 032 | 523 | 021 | 014 |
| August . . . | 028 | 033 | 040 | 046 | 052 | 052 | 048 | 044 | 039 | 030 | 022 | 009 |
| September . . . | 036 | 046 | 052 | 056 | 056 | 051 | 050 | 048 | 044 | 038 | 031 | 029 |
| October . . . | 025 | 031 | 035 | 037 | 036 | 039 | 038 | 040 | 038 | 032 | 029 | 024 |
| November . . . | 013 | 018 | 026 | 027 | 031 | 029 | 027 | 031 | 028 | 021 | 016 | 009 |
| December . . . | 016 | 022 | 030 | 030 | 030 | 028 | 029 | 030 | 028 | 028 | 025 | 020 |
| April to September inclusive | 017 | 023 | 030 | 035 | 040 | 041 | 039 | 036 | 032 | 031 | 020 | 013 |
| October to March inclusive | 013 | 017 | 023 | 026 | 026 | 027 | 027 | 028 | 027 | 023 | 021 | 014 |
| Mean of the whole Year. | 015 | 019 | 025 | 029 | 031 | 032 | 031 | 031 | 028 | 023 | 018 | 012 |
| Astron. Time at Toronto. } 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | |
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| January . . . | 008 | 007 | 002 | 001 | 001 | 001 | 004 | 005 | 007 | 001 | 000 | 003 |
| February . . . | 007 | 001 | 000 | 001 | 000 | 002 | 004 | 004 | 015 | 005 | 002 | 002 |
| March . . . | 002 | 000 | 000 | 000 | 000 | 001 | 007 | 010 | 011 | 006 | 003 | 002 |
| April . . . | 004 | 003 | 000 | 001 | 003 | 006 | 014 | 011 | 012 | 012 | 011 | 011 |
| May . . . | 007 | 008 | 000 | 003 | 011 | 014 | 020 | 017 | 017 | 013 | 009 | 009 |
| June . . . | 004 | 000 | 001 | 000 | 006 | 011 | 014 | 013 | 011 | 007 | 004 | 001 |
| July . . . | 007 | 001 | 000 | 003 | 007 | 014 | 017 | 018 | 018 | 017 | 014 | 014 |
| August . . . | 005 | 001 | 003 | 000 | 007 | 019 | 028 | 029 | 027 | 024 | 024 | 024 |
| September . . . | 019 | 007 | 000 | 001 | 004 | 009 | 017 | 022 | 020 | 021 | 024 | 028 |
| October . . . | 014 | 009 | 009 | 005 | 000 | 005 | 008 | 020 | 026 | 019 | 020 | 019 |
| November . . . | 008 | 006 | 002 | 003 | 000 | 002 | 005 | 007 | 009 | 006 | 007 | 009 |
| December . . . | 010 | 010 | 011 | 013 | 001 | 000 | 005 | 003 | 009 | 009 | 012 | 013 |
| April to September inclusive | 007 | 002 | 000 | 001 | 005 | 011 | 017 | 017 | 016 | 015 | 013 | 014 |
| October to March inclusive. | 008 | 006 | 004 | 004 | 000 | 002 | 005 | 008 | 013 | 008 | 007 | 008 |
| Mean of the whole Year. | 006 | 002 | 000 | 001 | 001 | 005 | 010 | 011 | 013 | 010 | 009 | 009 |

DIURNAL VARIATION.

TABLE XXXIX.

Exhibits the Differences of the Vertical Force at each observation hour from the Mean Force in the Month ; the sign + implies that the force is greater than the Mean Force, and - that it is less.

| Astron. Time at Toronto. } 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------|
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| January . . . | -.002 | +.002 | +.006 | +.010 | +.007 | +.010 | +.009 | +.010 | +.010 | +.008 | +.007 | +.003 |
| February . . . | -.002 | +.001 | +.007 | +.009 | +.012 | +.013 | +.012 | +.013 | +.013 | +.008 | +.007 | +.004 |
| March . . . | -.005 | 000 | +.006 | +.011 | +.012 | +.014 | +.015 | +.017 | +.014 | +.012 | +.004 | -.004 |
| April . . . | -.002 | +.007 | +.011 | +.016 | +.020 | +.021 | +.020 | +.017 | +.013 | +.011 | +.004 | -.009 |
| May . . . | -.009 | -.003 | +.006 | +.012 | +.017 | +.022 | +.019 | +.018 | +.013 | +.009 | +.001 | -.004 |
| June . . . | -.008 | -.006 | +.001 | +.007 | +.011 | +.013 | +.013 | +.012 | +.008 | +.005 | +.001 | -.002 |
| July . . . | -.005 | -.002 | +.007 | +.014 | +.020 | +.024 | +.021 | +.018 | +.012 | +.003 | +.001 | -.006 |
| August . . . | +.002 | +.007 | +.014 | +.020 | +.026 | +.026 | +.022 | +.018 | +.013 | +.004 | -.004 | -.017 |
| September . . | +.006 | +.016 | +.022 | +.026 | +.026 | +.021 | +.020 | +.018 | +.014 | +.008 | +.001 | -.001 |
| October . . . | +.002 | +.008 | +.012 | +.014 | +.013 | +.016 | +.015 | +.017 | +.015 | +.009 | +.006 | +.001 |
| November . . . | -.001 | +.004 | +.012 | +.013 | +.017 | +.015 | +.013 | +.017 | +.014 | +.007 | +.002 | -.005 |
| December . . . | -.001 | +.005 | +.013 | +.013 | +.013 | +.011 | +.012 | +.013 | +.011 | +.011 | +.008 | +.003 |
| Mean of the whole Year. } | -.002 | +.003 | +.010 | +.014 | +.016 | +.017 | +.016 | +.016 | +.013 | +.008 | +.003 | -.003 |
| Astron. Time at Toronto. } 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | |
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | |
| January . . . | -.001 | -.002 | -.007 | -.008 | -.008 | -.008 | -.005 | -.004 | -.002 | -.008 | -.009 | -.006 |
| February . . . | -.003 | -.009 | -.010 | -.009 | -.010 | -.008 | -.006 | -.006 | +.005 | -.005 | -.008 | -.008 |
| March . . . | -.009 | -.011 | -.011 | -.011 | -.011 | -.010 | -.004 | -.001 | 000 | -.005 | -.008 | -.009 |
| April . . . | -.013 | -.014 | -.017 | -.016 | -.014 | -.011 | -.003 | -.006 | -.005 | -.005 | -.006 | -.006 |
| May . . . | -.013 | -.012 | -.020 | -.017 | -.009 | -.006 | 000 | -.003 | -.003 | -.007 | -.011 | -.011 |
| June . . . | -.006 | -.010 | -.009 | -.010 | -.004 | +.001 | +.004 | +.003 | +.001 | -.003 | -.006 | -.009 |
| July . . . | -.013 | -.019 | -.020 | -.017 | -.013 | -.006 | -.003 | -.002 | -.002 | -.003 | -.006 | -.006 |
| August . . . | -.021 | -.025 | -.023 | -.026 | -.019 | -.007 | +.002 | +.003 | +.001 | -.002 | -.002 | -.002 |
| September . . | -.011 | -.023 | -.030 | -.029 | -.026 | -.021 | -.013 | -.008 | -.010 | -.009 | -.006 | -.002 |
| October . . . | -.009 | -.014 | -.014 | -.018 | -.023 | -.018 | -.015 | -.003 | +.003 | -.004 | -.003 | -.004 |
| November . . . | -.006 | -.008 | -.012 | -.011 | -.014 | -.012 | -.009 | -.007 | -.005 | -.008 | -.007 | -.005 |
| December . . . | -.007 | -.007 | -.006 | -.004 | -.016 | -.017 | -.012 | -.014 | -.008 | -.008 | -.005 | -.004 |
| Mean of the whole Year. } | -.009 | -.013 | -.015 | -.015 | -.014 | -.010 | -.005 | -.004 | -.002 | -.006 | -.006 | -.006 |

The diurnal variation of the vertical force at Toronto, in both seasons, *i. e.*, from April to September inclusive, and from October to March inclusive, is a double progression, having two maxima and two minima. The principal maximum takes place two hours earlier from April to September than from October to March, *viz.*, at 5^h from April to September, and at 7^h from October to March. From this maximum the diminution is progressive to the principal minimum, which also occurs earlier from April to September than from October to March; *i. e.*, between 14^h and 15^h from April to September, and at 16^h from October to March. The secondary minimum is at 22^h in both seasons. The range of the diurnal variation is greater during the six months when the sun is north of the equator, or from April to September, than in the opposite season.

DIURNAL VARIATIONS OF THE INCLINATION AND TOTAL FORCE.

Having then the diurnal variation of the horizontal and of the vertical force, we may derive from them the diurnal variations of their theoretical equivalents, the inclination and the total force. The diurnal variation of the inclination is shown in Tables XL., XLI., and XLII.;—that of the total force in Tables XLIII., XLIV., and XLV.

Diurnal Variation of the Inclination.—(Tables XL., XLI., XLII., pp. lxxii. to lxxvii). The magnetic inclination at Toronto has a principal minimum in all months of the year about the hour of 4, occurring, however, somewhat earlier from April to September than from October to March; and a principal maximum about 22^h or 23^h, occurring also earlier from April to September than from October to March. The progression from the maximum at 22^h or 23^h to the minimum at 4^h is continuous and rapid. From April to September the inclination increases, with occasional very slight interruptions, from the minimum at 4^h to the maximum at 22^h. At this season, therefore, the diurnal variation scarcely differs from a single progression, the decrease taking place in the six hours from 22^h to 4^h, and the increase more slowly in the remaining eighteen hours. In the opposite season, from October to March, a secondary maximum shows itself at from 12^h to 14^h, and a secondary minimum at about 18^h.

Diurnal Variation of the Total Force.—(Tables XLIII., XLIV., XLV., pp. lxxviii. to lxxxiii.). The Total Force at Toronto has a principal maximum at 5^h at all seasons, and a principal minimum between 15^h and 16^h, occurring earlier from April to September than from October to March; the decrease from the maximum at 5^h to the minimum at 15^h or 16^h is continuous and uninterrupted at all seasons. From the minimum at 15^h or 16^h the force increases to a secondary maximum, varying in its occurrence in different months from 18^h to 20^h, and being earliest in the months from April to September. A decrease then takes place to a secondary minimum at

22^h or 23^h (earlier also from April to September); and from this secondary minimum to the principal maximum at 5^h the increase is continuous. There is, therefore, at all the seasons of the year, a double progression in the diurnal variation of the Total Force, having—

A principal maximum at . . . 5 hours
A principal minimum at 15 or 16 „
A secondary maximum at 18 to 20 „
A secondary minimum at 22 or 23 „

If we compare the deduction now made from the series of 5½ years of hourly observation with that drawn from the two-hourly series of observations from 1841 and 1842 in Vol. I. pp. lxi. and lxii., we find the accordance to be most satisfactory, but as might be expected, the deduction from the more extensive series has greater precision.

TABLE XL.—*Diurnal Variation of the Inclination in the several*
 The lowest Monthly Mean occurring at any of the observation hours has

| Astronomical Time at Toronto. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | |
|-------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------|
| JANUARY. | 1843 | 1'26 | 0'98 | 0'67 | 0'37 | 0'00 | 0'10 | 0'28 | 0'27 | 0'26 | 0'41 | 0'44 |
| | 1844 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1845 | 0'64 | 0'48 | 0'35 | 0'15 | 0'00 | 0'10 | 0'25 | 0'20 | 0'15 | 0'27 | 0'20 |
| | 1846 | 1'20 | 0'95 | 0'68 | 0'30 | 0'00 | 0'10 | 0'20 | 0'37 | 0'50 | 0'54 | 0'54 |
| | 1847 | 1'06 | 0'81 | 0'46 | 0'14 | 0'00 | 0'08 | 0'01 | 0'11 | 0'25 | 0'30 | 0'33 |
| | 1848 | 1'65 | 1'31 | 1'06 | 0'63 | 0'04 | 0'00 | 0'20 | 0'21 | 0'27 | 0'29 | 0'27 |
| Reduced Means | 1'15 | 0'90 | 0'63 | 0'31 | 0'00 | 0'07 | 0'18 | 0'22 | 0'28 | 0'35 | 0'35 | |
| FEBRUARY. | 1843 ^b | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 0'62 | 0'39 | 0'15 | 0'00 | 0'10 | 0'00 | 0'17 | 0'16 | 0'27 | 0'29 | 0'50 |
| | 1845 | 0'79 | 0'66 | 0'40 | 0'15 | 0'07 | 0'00 | 0'08 | 0'18 | 0'31 | 0'29 | 0'24 |
| | 1846 | 0'70 | 0'49 | 0'29 | 0'00 | 0'07 | 0'12 | 0'29 | 0'22 | 0'31 | 0'37 | 0'36 |
| | 1847 | 0'88 | 0'59 | 0'44 | 0'17 | 0'00 | 0'10 | 0'07 | 0'26 | 0'30 | 0'40 | 0'25 |
| | 1848 | 1'81 | 1'48 | 1'26 | 0'69 | 0'08 | 0'00 | 0'45 | 0'32 | 0'21 | 0'40 | 0'45 |
| Reduced Means | 0'92 | 0'68 | 0'47 | 0'16 | 0'02 | 0'00 | 0'17 | 0'19 | 0'24 | 0'31 | 0'32 | |
| MARCH. | 1843 | 0'00 | 0'07 | 0'33 | 0'53 | 0'56 | 0'56 | 0'51 | 0'40 | 0'61 | 0'72 | |
| | 1844 | 1'05 | 0'88 | 0'45 | 0'00 | 0'03 | 0'14 | 0'24 | 0'35 | 0'43 | 0'45 | |
| | 1845 | 1'23 | 0'87 | 0'53 | 0'17 | 0'00 | 0'07 | 0'22 | 0'35 | 0'32 | 0'51 | |
| | 1846 | 1'36 | 1'14 | 0'78 | 0'36 | 0'14 | 0'06 | 0'00 | 0'16 | 0'20 | 0'31 | |
| | 1847 | 1'42 | 1'13 | 0'74 | 0'27 | 0'02 | 0'00 | 0'40 | 0'43 | 0'56 | 0'79 | |
| | 1848 | 1'97 | 1'40 | 0'85 | 0'34 | 0'06 | 0'00 | 0'21 | 0'41 | 0'54 | 0'66 | |
| Reduced Means | 1'03 | 0'78 | 0'47 | 0'14 | 0'00 | 0'00 | 0'13 | 0'23 | 0'26 | 0'35 | 0'43 | |
| APRIL. | 1843 | 0'16 | 0'55 | 1'06 | 1'22 | 1'21 | 1'10 | 0'88 | 0'87 | 0'53 | 0'73 | 0'91 |
| | 1844 | 1'24 | 0'88 | 0'52 | 0'19 | 0'20 | 0'00 | 0'31 | 0'47 | 0'73 | 0'79 | 0'68 |
| | 1845 | 1'58 | 1'40 | 1'06 | 0'52 | 0'34 | 0'00 | 0'08 | 0'17 | 0'41 | 0'48 | 0'51 |
| | 1846 | 1'23 | 0'95 | 0'57 | 0'18 | 0'00 | 0'10 | 0'20 | 0'46 | 0'51 | 0'76 | 0'49 |
| | 1847 | 1'90 | 1'32 | 0'60 | 0'25 | 0'00 | 0'21 | 0'50 | 0'90 | 1'09 | 1'33 | 1'41 |
| | 1848 | 1'67 | 1'37 | 0'92 | 0'37 | 0'09 | 0'00 | 0'20 | 0'72 | 1'06 | 0'83 | 0'79 |
| Reduced Means | 1'06 | 0'84 | 0'55 | 0'22 | 0'07 | 0'00 | 0'12 | 0'36 | 0'48 | 0'58 | 0'56 | |
| MAY. | 1843 | 0'24 | 0'60 | 0'87 | 0'88 | 1'09 | 1'43 | 1'29 | 0'60 | 0'36 | 0'48 | 0'54 |
| | 1844 | 0'88 | 0'49 | 0'21 | 0'05 | 0'00 | 0'03 | 0'36 | 0'68 | 0'73 | 0'76 | 0'64 |
| | 1845 | 1'09 | 0'65 | 0'31 | 0'16 | 0'00 | 0'07 | 0'29 | 0'37 | 0'59 | 0'83 | 0'81 |
| | 1846 | 1'26 | 0'77 | 0'26 | 0'15 | 0'00 | 0'10 | 0'41 | 0'61 | 0'82 | 1'03 | 1'00 |
| | 1847 | 1'19 | 0'63 | 0'24 | 0'04 | 0'00 | 0'11 | 0'27 | 0'62 | 0'93 | 0'88 | 0'98 |
| | 1848 | 1'42 | 1'05 | 0'53 | 0'17 | 0'00 | 0'00 | 0'06 | 0'14 | 0'54 | 0'84 | 0'98 |
| Reduced Means | 0'83 | 0'52 | 0'22 | 0'06 | 0'00 | 0'11 | 0'27 | 0'32 | 0'48 | 0'62 | 0'65 | |
| JUNE. | 1843 | 0'22 | 0'55 | 0'85 | 0'76 | 0'84 | 0'69 | 0'49 | 0'33 | 0'37 | 0'30 | 0'30 |
| | 1844 | 0'84 | 0'56 | 0'18 | 0'07 | 0'00 | 0'00 | 0'22 | 0'34 | 0'49 | 0'66 | 0'73 |
| | 1845 | 1'17 | 0'76 | 0'28 | 0'09 | 0'00 | 0'03 | 0'21 | 0'44 | 0'56 | 0'70 | 0'73 |
| | 1846 | 1'20 | 0'94 | 0'47 | 0'23 | 0'19 | 0'00 | 0'11 | 0'40 | 0'85 | 1'30 | 1'24 |
| | 1847 | 1'37 | 0'91 | 0'31 | 0'06 | 0'00 | 0'12 | 0'37 | 0'69 | 0'95 | 1'04 | 1'15 |
| | 1848 | 1'56 | 0'88 | 0'49 | 0'11 | 0'00 | 0'22 | 0'58 | 0'87 | 1'03 | 1'06 | 1'27 |
| Reduced Means | 0'89 | 0'60 | 0'26 | 0'05 | 0'00 | 0'01 | 0'16 | 0'34 | 0'54 | 0'67 | 0'73 | |

^a The vertical force magnetometer not observed.^b The bifilar series in this month much interrupted and broken.

DIURNAL VARIATION OF THE INCLINATION.

Months from January 1843 to June 1848, inclusive.

been taken as the Zero for the Month, and represents the least North Inclination.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 0.46 | 0.46 | 0.42 | 0.34 | 0.32 | 0.17 | 0.03 | 0.12 | 0.05 | 0.14 | 0.41 | 0.70 | 1.08 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 0.22 | 0.41 | 0.36 | 0.40 | 0.33 | 0.27 | 0.18 | 0.02 | 0.03 | 0.24 | 0.51 | 0.70 | 0.78 |
| 0.46 | 0.71 | 0.76 | 0.78 | 0.71 | 0.54 | 0.56 | 0.49 | 0.49 | 0.62 | 0.71 | 1.10 | 1.24 |
| 0.37 | 0.43 | 0.43 | 0.44 | 0.37 | 0.29 | 0.32 | 0.23 | 0.23 | 0.26 | 0.50 | 0.88 | 1.01 |
| 0.49 | 0.81 | 0.81 | 1.15 | 0.68 | 0.56 | 0.46 | 0.37 | 0.41 | 0.58 | 0.82 | 1.16 | 1.61 |
| 0.39 | 0.55 | 0.55 | 0.61 | 0.47 | 0.36 | 0.30 | 0.24 | 0.23 | 0.36 | 0.58 | 0.80 | 1.13 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 0.47 | 0.51 | 0.50 | 0.54 | 0.51 | 0.45 | 0.41 | 0.46 | 0.49 | 0.65 | 0.61 | 0.61 | 0.64 |
| 0.38 | 0.22 | 0.39 | 0.30 | 0.30 | 0.23 | 0.17 | 0.12 | 0.34 | 0.53 | 0.66 | 0.78 | 0.83 |
| 0.26 | 0.45 | 0.43 | 0.41 | 0.44 | 0.46 | 0.46 | 0.34 | 0.47 | 0.73 | 0.95 | 0.78 | 0.75 |
| 0.41 | 0.48 | 0.48 | 0.49 | 0.50 | 0.43 | 0.39 | 0.48 | 0.56 | 0.97 | 0.94 | 1.14 | 0.97 |
| 0.39 | 0.73 | 1.09 | 1.20 | 0.94 | 0.98 | 0.66 | 0.48 | 1.57 | 1.37 | 0.96 | 1.29 | 1.73 |
| 0.34 | 0.44 | 0.54 | 0.55 | 0.50 | 0.47 | 0.38 | 0.34 | 0.65 | 0.81 | 0.78 | 0.88 | 0.94 |
| 0.91 | 1.03 | 1.11 | 1.16 | 1.42 | 1.51 | 1.60 | 1.39 | 1.33 | 1.14 | 0.86 | 1.39 | 0.00 |
| 0.43 | 0.18 | 0.43 | 0.39 | 0.22 | 0.18 | 0.23 | 0.25 | 0.32 | 0.60 | 0.85 | 0.85 | 0.90 |
| 0.49 | 0.38 | 0.42 | 0.46 | 0.49 | 0.46 | 0.42 | 0.34 | 0.59 | 0.82 | 0.95 | 1.14 | 1.36 |
| 0.22 | 0.40 | 0.39 | 0.38 | 0.47 | 0.32 | 0.28 | 0.48 | 0.63 | 0.80 | 1.06 | 1.23 | 1.34 |
| 0.88 | 0.68 | 0.68 | 0.64 | 0.70 | 0.62 | 0.52 | 0.51 | 0.84 | 1.09 | 1.35 | 1.55 | 1.55 |
| 0.78 | 0.94 | 1.04 | 0.81 | 0.61 | 0.51 | 0.59 | 0.62 | 0.89 | 1.31 | 1.59 | 1.84 | 2.02 |
| 0.48 | 0.46 | 0.52 | 0.50 | 0.51 | 0.46 | 0.47 | 0.46 | 0.63 | 0.69 | 0.97 | 1.19 | 1.06 |
| 0.88 | 0.99 | 1.06 | 1.06 | 1.10 | 1.47 | 1.73 | 1.72 | 1.63 | 1.18 | 0.65 | 0.21 | 0.00 |
| 0.84 | 0.89 | 0.89 | 0.91 | 0.91 | 0.78 | 0.61 | 1.11 | 0.98 | 1.09 | 1.35 | 1.42 | 1.35 |
| 0.53 | 0.52 | 0.63 | 0.63 | 0.67 | 0.57 | 0.57 | 0.59 | 0.63 | 0.71 | 0.90 | 1.30 | 1.71 |
| 0.67 | 0.70 | 0.59 | 0.64 | 0.58 | 0.48 | 0.62 | 0.64 | 0.80 | 1.07 | 1.26 | 1.38 | 1.38 |
| 1.53 | 1.33 | 1.63 | 2.48 | 1.83 | 1.55 | 1.23 | 1.31 | 1.78 | 2.00 | 2.19 | 2.45 | 2.33 |
| 1.56 | 1.03 | 1.23 | 2.32 | 2.28 | 1.05 | 0.85 | 1.03 | 1.12 | 1.42 | 1.83 | 2.08 | 2.03 |
| 0.76 | 0.67 | 0.77 | 1.10 | 0.99 | 0.74 | 0.70 | 0.83 | 0.92 | 1.01 | 1.12 | 1.23 | 1.23 |
| 0.68 | 0.67 | 0.87 | 1.05 | 1.24 | 1.38 | 1.52 | 1.44 | 1.32 | 0.90 | 0.31 | 0.00 | 0.12 |
| 0.71 | 0.84 | 0.90 | 0.85 | 0.85 | 0.85 | 0.94 | 0.95 | 0.97 | 1.10 | 1.30 | 1.40 | 1.20 |
| 0.69 | 0.84 | 0.96 | 0.91 | 0.97 | 0.91 | 1.06 | 0.96 | 0.98 | 1.13 | 1.46 | 1.55 | 1.36 |
| 1.06 | 1.21 | 1.17 | 1.07 | 1.17 | 1.16 | 1.35 | 1.26 | 1.35 | 1.66 | 2.13 | 2.02 | 1.63 |
| 1.00 | 1.06 | 1.08 | 1.27 | 1.83 | 1.29 | 1.54 | 1.69 | 1.34 | 1.57 | 1.89 | 1.92 | 1.73 |
| 0.97 | 0.93 | 1.21 | 1.23 | 0.95 | 1.07 | 1.10 | 1.10 | 1.18 | 1.51 | 1.84 | 1.98 | 1.80 |
| 0.67 | 0.75 | 0.85 | 0.88 | 0.99 | 0.93 | 1.07 | 1.05 | 1.01 | 1.13 | 1.31 | 1.30 | 1.13 |
| 0.41 | 0.49 | 0.67 | 0.80 | 0.85 | 1.02 | 1.16 | 1.52 | 1.27 | 0.96 | 0.50 | 0.12 | 0.00 |
| 0.82 | 0.83 | 0.82 | 0.92 | 1.03 | 1.08 | 1.08 | 1.05 | 1.06 | 1.16 | 1.29 | 1.30 | 1.10 |
| 0.80 | 0.90 | 0.93 | 0.94 | 0.97 | 0.96 | 0.93 | 0.82 | 0.88 | 1.05 | 1.44 | 1.62 | 1.48 |
| 1.34 | 1.31 | 1.25 | 1.16 | 1.30 | 1.34 | 1.21 | 1.30 | 1.46 | 1.61 | 1.73 | 1.85 | 1.63 |
| 1.15 | 1.16 | 1.19 | 1.16 | 1.26 | 1.25 | 1.29 | 1.24 | 1.36 | 1.45 | 1.65 | 1.96 | 1.84 |
| 1.47 | 1.38 | 1.53 | 1.49 | 1.51 | 1.61 | 1.68 | 1.57 | 1.69 | 1.79 | 2.01 | 2.36 | 2.16 |
| 0.83 | 0.84 | 0.90 | 0.91 | 0.98 | 1.04 | 1.06 | 1.08 | 1.12 | 1.17 | 1.27 | 1.37 | 1.20 |

TABLE XL—(continued.)—Diurnal Variation of the Inclination in the several

| Astronomical Time at Toronto. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------|
| JULY. | 1843 | 0.28 | 0.59 | 0.96 | 1.27 | 1.19 | 1.13 | 0.84 | 0.62 | 0.45 | 0.40 | 0.49 |
| | 1844 | 1.00 | 0.60 | 0.11 | 0.07 | 0.00 | 0.15 | 0.33 | 0.47 | 0.62 | 0.67 | 0.76 |
| | 1845 | 0.95 | 0.71 | 0.26 | 0.02 | 0.00 | 0.04 | 0.17 | 0.26 | 0.42 | 0.46 | 0.70 |
| | 1846 | 1.22 | 1.39 | 0.41 | 0.21 | 0.07 | 0.00 | 0.42 | 0.61 | 1.11 | 0.93 | 0.99 |
| | 1847 | 1.25 | 0.76 | 0.27 | 0.00 | 0.05 | 0.25 | 0.41 | 0.53 | 0.65 | 0.87 | 1.11 |
| Reduced Means | 0.68 | 0.55 | 0.14 | 0.05 | 0.00 | 0.05 | 0.17 | 0.24 | 0.39 | 0.41 | 0.55 | |
| AUGUST. | 1843 | 0.24 | 0.71 | 1.09 | 1.05 | 1.20 | 0.91 | 0.60 | 0.48 | 0.40 | 0.39 | 0.53 |
| | 1844 | 1.13 | 0.66 | 0.25 | 0.00 | 0.03 | 0.19 | 0.56 | 0.72 | 0.76 | 0.64 | 0.61 |
| | 1845 | 1.09 | 0.75 | 0.31 | 0.05 | 0.00 | 0.25 | 0.38 | 0.56 | 0.67 | 0.69 | 0.68 |
| | 1846 | 1.30 | 0.60 | 0.21 | 0.05 | 0.09 | 0.00 | 0.66 | 1.02 | 1.06 | 1.11 | 1.00 |
| | 1847 | 1.73 | 1.04 | 0.42 | 0.09 | 0.00 | 0.06 | 0.25 | 0.44 | 0.42 | 0.58 | 0.79 |
| Reduced Means | 0.85 | 0.50 | 0.21 | 0.00 | 0.01 | 0.03 | 0.24 | 0.39 | 0.41 | 0.43 | 0.47 | |
| SEPTEMBER. | 1843 | 1.07 | 0.57 | 0.24 | 0.00 | 0.09 | 0.21 | 0.34 | 0.49 | 0.58 | 0.60 | 0.51 |
| | 1844 | 1.14 | 0.61 | 0.31 | 0.12 | 0.00 | 0.01 | 0.20 | 0.39 | 0.51 | 0.76 | 0.78 |
| | 1845 | 0.98 | 0.55 | 0.19 | 0.21 | 0.00 | 0.18 | 0.30 | 0.46 | 0.52 | 0.51 | 0.50 |
| | 1846 | 1.71 | 1.12 | 0.47 | 0.00 | 0.19 | 0.30 | 0.63 | 0.74 | 0.67 | 0.55 | 0.71 |
| | 1847 | 2.36 | 1.41 | 0.92 | 0.28 | 0.00 | 0.04 | 1.15 | 0.55 | 0.63 | 0.63 | 0.52 |
| Reduced Means | 1.39 | 0.79 | 0.37 | 0.06 | 0.00 | 0.09 | 0.46 | 0.47 | 0.52 | 0.55 | 0.54 | |
| OCTOBER. | 1843 | 0.62 | 0.58 | 0.30 | 0.13 | 0.00 | 0.03 | 0.19 | 0.33 | 0.29 | 0.37 | 0.37 |
| | 1844 | 0.99 | 0.63 | 0.29 | 0.19 | 0.00 | 0.08 | 0.13 | 0.19 | 0.33 | 0.28 | 0.32 |
| | 1845 | 0.59 | 0.41 | 0.24 | 0.00 | 0.07 | 0.18 | 0.37 | 0.42 | 0.59 | 0.66 | 0.63 |
| | 1846 | 1.21 | 0.90 | 0.57 | 0.18 | 0.00 | 0.09 | 0.47 | 0.57 | 0.59 | 0.57 | 0.57 |
| | 1847 | 1.25 | 1.10 | 0.63 | 0.57 | 0.12 | 0.07 | 0.00 | 0.26 | 0.34 | 0.39 | 0.44 |
| Reduced Means | 0.89 | 0.68 | 0.37 | 0.17 | 0.00 | 0.05 | 0.19 | 0.31 | 0.39 | 0.41 | 0.43 | |
| NOVEMBER. | 1843 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 0.73 | 0.60 | 0.32 | 0.05 | 0.02 | 0.11 | 0.07 | 0.31 | 0.34 | 0.27 | 0.19 |
| | 1845 | 0.84 | 0.67 | 0.44 | 0.28 | 0.15 | 0.14 | 0.11 | 0.00 | 0.02 | 0.18 | 0.11 |
| | 1846 | 1.06 | 0.92 | 0.63 | 0.38 | 0.27 | 0.40 | 0.41 | 0.41 | 0.40 | 0.32 | 0.35 |
| | 1847 | 1.48 | 1.14 | 0.59 | 0.26 | 0.18 | 0.19 | 0.10 | 0.03 | 0.12 | 0.21 | 0.85 |
| Reduced Means | 1.01 | 0.81 | 0.47 | 0.22 | 0.13 | 0.19 | 0.15 | 0.17 | 0.20 | 0.22 | 0.35 | |
| DECEMBER. | 1843 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 0.90 | 0.66 | 0.42 | 0.27 | 0.00 | 0.09 | 0.13 | 0.19 | 0.28 | 0.51 | 0.61 |
| | 1845 | 0.88 | 0.81 | 0.52 | 0.27 | 0.07 | 0.03 | 0.10 | 0.17 | 0.12 | 0.27 | 0.30 |
| | 1846 | 1.04 | 0.83 | 0.47 | 0.12 | 0.00 | 0.00 | 0.08 | 0.29 | 0.37 | 0.29 | 0.21 |
| | 1847 | 2.00 | 1.85 | 1.32 | 1.05 | 0.56 | 0.50 | 0.41 | 0.00 | 0.47 | 0.60 | 0.82 |
| Reduced Means | 1.05 | 0.89 | 0.53 | 0.28 | 0.01 | 0.00 | 0.03 | 0.01 | 0.16 | 0.27 | 0.33 | |

^a The Vertical Force Magnetometer not observed.

DIURNAL VARIATION OF THE INCLINATION.

lxxv

Months, from July 1843 to December 1847, inclusive.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0.68 | 0.91 | 0.90 | 1.09 | 1.23 | 1.27 | 1.39 | 1.27 | 1.06 | 0.72 | 0.37 | 0.01 | 0.00 |
| 0.71 | 0.73 | 0.80 | 0.91 | 0.93 | 0.96 | 1.01 | 0.92 | 0.89 | 1.17 | 1.56 | 1.80 | 1.53 |
| 0.68 | 0.67 | 0.60 | 0.68 | 0.72 | 0.75 | 0.70 | 0.76 | 0.76 | 0.89 | 1.19 | 1.45 | 1.31 |
| 1.17 | 1.16 | 0.79 | 0.92 | 1.21 | 1.19 | 1.31 | 1.21 | 1.23 | 1.27 | 1.43 | 1.71 | 1.42 |
| 0.95 | 1.06 | 1.31 | 1.07 | 1.17 | 1.39 | 1.30 | 1.22 | 1.37 | 1.69 | 1.93 | 1.99 | 1.68 |
| 0.58 | 0.65 | 0.62 | 0.67 | 0.79 | 0.85 | 0.88 | 0.82 | 0.80 | 0.89 | 1.04 | 1.13 | 0.93 |
| 0.58 | 0.81 | 0.89 | 1.06 | 1.18 | 1.16 | 1.42 | 1.59 | 1.40 | 0.88 | 0.29 | 0.01 | 0.00 |
| 0.65 | 0.61 | 0.76 | 0.76 | 0.75 | 0.82 | 0.82 | 0.83 | 1.03 | 1.27 | 1.84 | 1.89 | 1.64 |
| 0.65 | 0.73 | 0.75 | 0.76 | 0.90 | 0.88 | 0.80 | 0.98 | 1.17 | 1.41 | 1.52 | 1.65 | 1.50 |
| 1.00 | 0.78 | 0.93 | 0.85 | 0.89 | 1.03 | 1.40 | 1.38 | 1.43 | 1.59 | 2.02 | 2.02 | 1.70 |
| 1.11 | 0.94 | 1.07 | 1.03 | 1.17 | 1.02 | 0.97 | 1.04 | 1.19 | 1.52 | 1.83 | 1.99 | 2.05 |
| 0.55 | 0.52 | 0.63 | 0.64 | 0.73 | 0.73 | 0.83 | 0.90 | 0.99 | 1.08 | 1.25 | 1.26 | 1.13 |
| 0.63 | 0.61 | 0.59 | 0.62 | 0.58 | 0.48 | 0.53 | 0.58 | 0.71 | 1.14 | 1.50 | 1.53 | 1.38 |
| 0.73 | 0.80 | 0.97 | 0.86 | 0.84 | 0.61 | 0.77 | 0.58 | 0.86 | 1.27 | 1.63 | 1.81 | 1.64 |
| 0.53 | 0.75 | 0.65 | 0.44 | 0.56 | 0.45 | 0.50 | 0.50 | 0.76 | 1.08 | 1.40 | 1.57 | 1.37 |
| 0.80 | 0.50 | 0.71 | 1.07 | 1.03 | 0.85 | 0.64 | 0.98 | 1.30 | 1.65 | 1.94 | 2.21 | 2.11 |
| 0.75 | 0.86 | 0.79 | 0.79 | 0.96 | 0.74 | 1.00 | 1.66 | 2.09 | 1.60 | 2.17 | 2.51 | 2.60 |
| 0.53 | 0.64 | 0.68 | 0.70 | 0.73 | 0.57 | 0.63 | 0.80 | 1.08 | 1.29 | 1.67 | 1.87 | 1.76 |
| 0.49 | 0.48 | 0.41 | 0.37 | 0.21 | 0.20 | 0.20 | 0.27 | 0.47 | 0.62 | 0.63 | 0.75 | 0.77 |
| 0.24 | 1.00 | 0.39 | 0.33 | 0.32 | 0.27 | 0.34 | 0.28 | 0.44 | 0.76 | 1.15 | 1.30 | 1.20 |
| 0.67 | 0.66 | 0.57 | 0.47 | 0.42 | 0.23 | 0.25 | 0.31 | 0.51 | 0.72 | 0.75 | 0.75 | 0.76 |
| 0.86 | 0.87 | 0.67 | 0.66 | 0.49 | 0.25 | 0.20 | 0.24 | 0.55 | 0.97 | 1.29 | 1.39 | 1.39 |
| 0.37 | 1.38 | 0.99 | 1.79 | 0.85 | 1.71 | 0.58 | 0.76 | 1.67 | 2.23 | 2.16 | 1.76 | 1.72 |
| 0.49 | 0.84 | 0.57 | 0.68 | 0.42 | 0.49 | 0.27 | 0.33 | 0.69 | 1.02 | 1.16 | 1.15 | 1.13 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 0.22 | 0.23 | 0.26 | 0.27 | 0.26 | 0.19 | 0.06 | 0.04 | 0.00 | 0.22 | 0.46 | 0.77 | 0.81 |
| 0.23 | 0.33 | 0.32 | 0.29 | 0.14 | 0.04 | 0.06 | 0.03 | 0.00 | 0.39 | 0.80 | 0.90 | 1.04 |
| 0.46 | 0.40 | 0.39 | 0.21 | 0.26 | 0.24 | 0.17 | 0.00 | 0.13 | 0.47 | 0.87 | 0.99 | 1.10 |
| 0.31 | 0.63 | 0.70 | 0.47 | 0.41 | 0.29 | 0.17 | 0.00 | 0.43 | 0.70 | 1.02 | 1.23 | 1.50 |
| 0.28 | 0.38 | 0.40 | 0.29 | 0.25 | 0.17 | 0.09 | 0.00 | 0.12 | 0.42 | 0.77 | 0.95 | 1.09 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 0.52 | 0.64 | 0.61 | 0.59 | 0.52 | 0.43 | 0.31 | 0.14 | 0.16 | 0.28 | 0.36 | 0.73 | 0.87 |
| 0.33 | 0.36 | 0.33 | 0.34 | 0.27 | 0.16 | 0.16 | 0.49 | 0.00 | 0.06 | 0.32 | 0.64 | 0.76 |
| 0.10 | 0.33 | 0.31 | 0.23 | 0.21 | 0.13 | 0.11 | 0.09 | 0.15 | 0.39 | 0.57 | 0.86 | 1.05 |
| 0.90 | 1.08 | 1.33 | 1.02 | 1.15 | 1.22 | 2.03 | 1.62 | 1.52 | 1.52 | 1.91 | 1.83 | 1.84 |
| 0.31 | 0.45 | 0.49 | 0.39 | 0.39 | 0.33 | 0.50 | 0.43 | 0.31 | 0.41 | 0.64 | 0.86 | 0.98 |

TABLE XLI.

Showing the Mean Diurnal Variation of the Inclination in the several Months of the Year, derived from Table XL.

| Astron. Time at Toronto. } 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------|
| January . . . | 1.15 | 0.90 | 0.63 | 0.31 | 0.00 | 0.07 | 0.18 | 0.22 | 0.28 | 0.35 | 0.35 | 0.39 |
| February . . . | 0.92 | 0.68 | 0.47 | 0.16 | 0.02 | 0.00 | 0.17 | 0.19 | 0.24 | 0.31 | 0.32 | 0.34 |
| March | 1.03 | 0.78 | 0.47 | 0.14 | 0.00 | 0.00 | 0.13 | 0.23 | 0.26 | 0.35 | 0.43 | 0.48 |
| April | 1.06 | 0.84 | 0.55 | 0.22 | 0.07 | 0.00 | 0.12 | 0.36 | 0.48 | 0.58 | 0.56 | 0.76 |
| May | 0.83 | 0.52 | 0.22 | 0.06 | 0.00 | 0.11 | 0.27 | 0.32 | 0.48 | 0.62 | 0.65 | 0.67 |
| June | 0.89 | 0.60 | 0.26 | 0.05 | 0.00 | 0.01 | 0.16 | 0.34 | 0.54 | 0.67 | 0.73 | 0.83 |
| July | 0.68 | 0.55 | 0.14 | 0.05 | 0.00 | 0.05 | 0.17 | 0.24 | 0.39 | 0.41 | 0.55 | 0.58 |
| August | 0.85 | 0.50 | 0.21 | 0.00 | 0.01 | 0.03 | 0.24 | 0.39 | 0.41 | 0.43 | 0.47 | 0.55 |
| September . . | 1.39 | 0.79 | 0.37 | 0.06 | 0.00 | 0.09 | 0.46 | 0.47 | 0.52 | 0.55 | 0.54 | 0.53 |
| October | 0.89 | 0.68 | 0.37 | 0.17 | 0.00 | 0.05 | 0.19 | 0.31 | 0.39 | 0.41 | 0.43 | 0.49 |
| November . . . | 1.01 | 0.81 | 0.47 | 0.22 | 0.13 | 0.19 | 0.15 | 0.17 | 0.20 | 0.22 | 0.35 | 0.28 |
| December . . . | 1.05 | 0.89 | 0.53 | 0.28 | 0.01 | 0.00 | 0.03 | 0.01 | 0.16 | 0.27 | 0.33 | 0.31 |
| April to September inclusive | 0.94 | 0.62 | 0.28 | 0.06 | 0.00 | 0.04 | 0.23 | 0.34 | 0.46 | 0.53 | 0.57 | 0.64 |
| October to March inclusive | 0.98 | 0.76 | 0.46 | 0.18 | 0.00 | 0.02 | 0.11 | 0.17 | 0.22 | 0.29 | 0.34 | 0.32 |
| Mean of the whole Year | 0.96 | 0.69 | 0.37 | 0.12 | 0.00 | 0.03 | 0.17 | 0.25 | 0.34 | 0.41 | 0.46 | 0.50 |

| Astron. Time at Toronto. } 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------|
| January | 0.55 | 0.55 | 0.61 | 0.47 | 0.36 | 0.30 | 0.24 | 0.23 | 0.36 | 0.58 | 0.80 | 1.13 |
| February | 0.44 | 0.54 | 0.55 | 0.50 | 0.47 | 0.38 | 0.34 | 0.65 | 0.81 | 0.78 | 0.88 | 0.94 |
| March | 0.46 | 0.52 | 0.50 | 0.51 | 0.46 | 0.47 | 0.46 | 0.63 | 0.69 | 0.97 | 1.19 | 1.06 |
| April | 0.67 | 0.77 | 1.10 | 0.99 | 0.74 | 0.70 | 0.83 | 0.92 | 1.01 | 1.12 | 1.23 | 1.23 |
| May | 0.75 | 0.85 | 0.88 | 0.99 | 0.93 | 1.07 | 1.05 | 1.01 | 1.13 | 1.31 | 1.30 | 1.13 |
| June | 0.84 | 0.90 | 0.91 | 0.98 | 1.04 | 1.06 | 1.08 | 1.12 | 1.17 | 1.27 | 1.37 | 1.20 |
| July | 0.65 | 0.62 | 0.67 | 0.79 | 0.85 | 0.88 | 0.82 | 0.80 | 0.89 | 1.04 | 1.13 | 0.93 |
| August | 0.52 | 0.63 | 0.64 | 0.73 | 0.73 | 0.83 | 0.90 | 0.99 | 1.08 | 1.25 | 1.26 | 1.13 |
| September . . . | 0.64 | 0.68 | 0.70 | 0.73 | 0.57 | 0.63 | 0.80 | 1.08 | 1.29 | 1.67 | 1.87 | 1.76 |
| October | 0.84 | 0.57 | 0.68 | 0.42 | 0.49 | 0.27 | 0.33 | 0.69 | 1.02 | 1.16 | 1.15 | 1.13 |
| November | 0.38 | 0.40 | 0.29 | 0.25 | 0.17 | 0.09 | 0.00 | 0.12 | 0.42 | 0.77 | 0.95 | 1.09 |
| December | 0.45 | 0.49 | 0.39 | 0.39 | 0.33 | 0.50 | 0.43 | 0.31 | 0.41 | 0.64 | 0.86 | 0.98 |
| April to September inclusive | 0.67 | 0.73 | 0.81 | 0.86 | 0.80 | 0.85 | 0.90 | 0.98 | 1.09 | 1.27 | 1.35 | 1.22 |
| October to March inclusive | 0.49 | 0.48 | 0.47 | 0.39 | 0.35 | 0.31 | 0.27 | 0.41 | 0.59 | 0.79 | 0.94 | 1.03 |
| Mean of the whole Year | 0.58 | 0.61 | 0.56 | 0.63 | 0.58 | 0.58 | 0.59 | 0.69 | 0.84 | 1.03 | 1.15 | 1.12 |

TABLE XLII.

Exhibiting the Differences of the Inclination at each observation hour from the Mean in the Month; the sign + implies that the North Inclination is greater than the Mean Inclination, and - that it is less.

| Astron. Time at Toronto. } 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| January . . . | +0.69 | +0.44 | +0.17 | -0.15 | -0.46 | -0.39 | -0.28 | -0.24 | -0.18 | -0.11 | -0.11 | -0.07 |
| February . . . | +0.46 | +0.22 | +0.01 | -0.30 | -0.44 | -0.46 | -0.29 | -0.27 | -0.22 | -0.15 | -0.14 | -0.12 |
| March . . . | +0.52 | +0.27 | -0.04 | -0.37 | -0.51 | -0.51 | -0.38 | -0.28 | -0.25 | -0.16 | -0.08 | -0.03 |
| April . . . | +0.36 | +0.14 | -0.15 | -0.48 | -0.63 | -0.70 | -0.58 | -0.34 | -0.22 | -0.12 | -0.14 | +0.06 |
| May . . . | +0.12 | -0.19 | -0.49 | -0.65 | -0.71 | -0.60 | -0.44 | -0.39 | -0.23 | -0.09 | -0.06 | -0.04 |
| June . . . | +0.14 | -0.15 | -0.49 | -0.70 | -0.75 | -0.74 | -0.59 | -0.41 | -0.21 | -0.08 | -0.02 | +0.08 |
| July . . . | +0.10 | -0.03 | -0.44 | -0.53 | -0.58 | -0.53 | -0.41 | -0.34 | -0.19 | -0.17 | -0.03 | -0.00 |
| August . . . | +0.23 | -0.12 | -0.41 | -0.62 | -0.61 | -0.59 | -0.38 | -0.23 | -0.21 | -0.19 | -0.15 | -0.07 |
| September . . | +0.63 | +0.03 | -0.39 | -0.70 | -0.76 | -0.67 | -0.30 | -0.29 | -0.24 | -0.21 | -0.22 | -0.23 |
| October . . . | +0.35 | +0.14 | -0.17 | -0.37 | -0.54 | -0.49 | -0.35 | -0.23 | -0.15 | -0.13 | -0.11 | -0.05 |
| November . . . | +0.63 | +0.43 | +0.09 | -0.16 | -0.25 | -0.19 | -0.23 | -0.21 | -0.18 | -0.16 | -0.03 | -0.10 |
| December . . . | +0.69 | +0.47 | +0.11 | -0.14 | -0.41 | -0.42 | -0.39 | -0.41 | -0.26 | -0.15 | -0.09 | -0.11 |
| Mean of the whole Year. } | +0.41 | +0.14 | -0.18 | -0.43 | -0.55 | -0.52 | -0.39 | -0.30 | -0.21 | -0.14 | -0.10 | -0.06 |

| Astron. Time at Toronto. } 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| January . . . | +0.09 | +0.09 | +0.15 | +0.01 | -0.10 | -0.16 | -0.22 | -0.23 | -0.10 | +0.12 | +0.34 | +0.67 |
| February . . . | -0.02 | +0.08 | +0.09 | +0.04 | +0.01 | -0.08 | -0.12 | +0.19 | +0.35 | +0.32 | +0.42 | +0.48 |
| March . . . | -0.05 | +0.01 | -0.01 | 0.00 | -0.05 | -0.04 | -0.05 | +0.12 | +0.18 | +0.46 | +0.68 | +0.55 |
| April . . . | -0.03 | +0.07 | +0.40 | +0.29 | +0.04 | 0.00 | +0.13 | +0.22 | +0.31 | +0.42 | +0.53 | +0.53 |
| May . . . | +0.04 | +0.14 | +0.17 | +0.28 | +0.22 | +0.36 | +0.34 | +0.30 | +0.42 | +0.60 | +0.59 | +0.42 |
| June . . . | +0.09 | +0.15 | +0.16 | +0.23 | +0.29 | +0.31 | +0.33 | +0.37 | +0.42 | +0.52 | +0.62 | +0.45 |
| July . . . | +0.07 | +0.04 | +0.09 | +0.21 | +0.27 | +0.30 | +0.24 | +0.22 | +0.31 | +0.46 | +0.55 | +0.35 |
| August . . . | -0.10 | +0.01 | +0.02 | +0.11 | +0.11 | +0.21 | +0.28 | +0.37 | +0.46 | +0.63 | +0.64 | +0.51 |
| September . . | -0.12 | -0.08 | -0.06 | -0.03 | -0.19 | -0.13 | +0.04 | +0.32 | +0.53 | +0.91 | +1.11 | +1.00 |
| October . . . | +0.30 | +0.03 | +0.14 | -0.12 | -0.05 | -0.27 | -0.21 | +0.15 | +0.48 | +0.62 | +0.61 | +0.59 |
| November . . . | 0.00 | +0.02 | -0.09 | -0.13 | -0.21 | -0.29 | -0.38 | -0.26 | +0.04 | +0.39 | +0.57 | +0.71 |
| December . . . | +0.03 | +0.07 | -0.03 | -0.03 | -0.09 | +0.08 | -0.01 | -0.11 | -0.01 | +0.22 | +0.44 | +0.56 |
| Mean of the whole Year. } | +0.03 | +0.05 | +0.09 | +0.07 | +0.02 | +0.02 | +0.03 | +0.14 | +0.29 | +0.47 | +0.59 | +0.57 |

TABLE XLIII.—*Diurnal Variation of the Total Force in the several Months*

The lowest Monthly Mean occurring at any of the observation hours has

| Astron. Time at Toronto. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . |
|--------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| JANUARY. | 1843 | 006 | 013 | 019 | 026 | 028 | 028 | 027 | 028 | 027 | 025 |
| | 1844 ^a | — | — | — | — | — | — | — | — | — | — |
| | 1845 | 006 | 012 | 019 | 022 | 024 | 039 | 026 | 028 | 027 | 024 |
| | 1846 | 000 | 008 | 016 | 017 | 017 | 015 | 013 | 011 | 011 | 017 |
| | 1847 | 006 | 008 | 013 | 024 | 015 | 018 | 020 | 017 | 016 | 012 |
| | 1848 | 015 | 020 | 024 | 032 | 035 | 033 | 038 | 041 | 041 | 035 |
| Reduced Means | 006 | 011 | 017 | 023 | 023 | 026 | 024 | 024 | 023 | 022 | 020 |
| FEBRUARY. | 1843 ^b | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 005 | 008 | 015 | 018 | 016 | 020 | 020 | 018 | 017 | 017 |
| | 1845 | 005 | 011 | 023 | 027 | 027 | 028 | 017 | 026 | 024 | 022 |
| | 1846 | 004 | 004 | 009 | 013 | 013 | 012 | 017 | 018 | 017 | 015 |
| | 1847 | 006 | 010 | 012 | 016 | 019 | 020 | 021 | 024 | 026 | 017 |
| | 1848 | 042 | 051 | 057 | 061 | 082 | 082 | 063 | 066 | 072 | 050 |
| Reduced Means | 007 | 012 | 018 | 022 | 026 | 027 | 025 | 025 | 026 | 019 | 019 |
| MARCH. | 1843 | 011 | 014 | 016 | 016 | 018 | 018 | 021 | 027 | 030 | 028 |
| | 1844 | 021 | 031 | 038 | 048 | 055 | 058 | 057 | 060 | 050 | 042 |
| | 1845 | 005 | 013 | 020 | 027 | 030 | 036 | 032 | 034 | 031 | 030 |
| | 1846 | 002 | 008 | 017 | 026 | 030 | 032 | 031 | 025 | 022 | 020 |
| | 1847 | 009 | 024 | 032 | 048 | 047 | 048 | 050 | 051 | 048 | 042 |
| | 1848 | 000 | 044 | 059 | 061 | 061 | 062 | 060 | 062 | 059 | 055 |
| Reduced Means | 000 | 014 | 022 | 030 | 032 | 034 | 034 | 035 | 032 | 028 | 021 |
| APRIL. | 1843 | 018 | 025 | 030 | 035 | 041 | 042 | 043 | 043 | 038 | 031 |
| | 1844 | 029 | 039 | 049 | 054 | 054 | 061 | 059 | 052 | 047 | 040 |
| | 1845 | 002 | 008 | 019 | 028 | 030 | 035 | 035 | 032 | 032 | 022 |
| | 1846 | 011 | 018 | 033 | 044 | 048 | 046 | 041 | 038 | 032 | 040 |
| | 1847 | 044 | 063 | 052 | 057 | 065 | 064 | 063 | 054 | 042 | 053 |
| | 1848 | 049 | 059 | 072 | 082 | 089 | 087 | 087 | 079 | 076 | 075 |
| Reduced Means | 020 | 029 | 037 | 044 | 050 | 050 | 049 | 044 | 039 | 038 | 029 |
| MAY. | 1843 | 002 | 005 | 013 | 018 | 026 | 037 | 039 | 033 | 028 | 021 |
| | 1844 | 007 | 011 | 019 | 027 | 032 | 038 | 038 | 037 | 032 | 023 |
| | 1845 | 009 | 017 | 028 | 037 | 042 | 043 | 039 | 035 | 030 | 027 |
| | 1846 | 018 | 028 | 046 | 052 | 062 | 066 | 050 | 042 | 035 | 033 |
| | 1847 | 044 | 054 | 061 | 068 | 071 | 076 | 073 | 070 | 066 | 065 |
| | 1848 | 023 | 037 | 051 | 060 | 063 | 062 | 060 | 068 | 058 | 050 |
| Reduced Means | 011 | 019 | 030 | 038 | 033 | 048 | 044 | 042 | 036 | 031 | 022 |
| JUNE. | 1843 | 004 | 007 | 009 | 013 | 020 | 023 | 026 | 024 | 020 | 017 |
| | 1844 | 006 | 011 | 016 | 021 | 026 | 027 | 023 | 022 | 020 | 019 |
| | 1845 | 004 | 006 | 018 | 026 | 032 | 034 | 033 | 028 | 025 | 020 |
| | 1846 | 014 | 016 | 030 | 039 | 041 | 043 | 044 | 044 | 032 | 025 |
| | 1847 | 008 | 014 | 023 | 032 | 038 | 035 | 036 | 030 | 027 | 020 |
| | 1848 | 002 | 009 | 024 | 031 | 033 | 041 | 033 | 032 | 024 | 022 |
| Reduced Means | 003 | 007 | 017 | 024 | 029 | 031 | 029 | 027 | 022 | 018 | 013 |

^a The Vertical Force Magnetometer not observed.

^b The Biflar lenses in this month much interrupted and broken.

DIURNAL VARIATION OF THE TOTAL FORCE.

from January 1843 to June 1848 inclusive, in parts of the Total Force.
 been taken as the Zero for the month, and expresses the least Force.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| 020 | 009 | 011 | 009 | 009 | 009 | 012 | 010 | 012 | 015 | 007 | 000 | 000 |
| 017 | 008 | 006 | 003 | 001 | 003 | 000 | 008 | 008 | 006 | 000 | 000 | 002 |
| 012 | 012 | 006 | 003 | 004 | 002 | 009 | 010 | 010 | 012 | 005 | 001 | 000 |
| 013 | 010 | 008 | 011 | 011 | 011 | 010 | 012 | 013 | 010 | 003 | 001 | 000 |
| 021 | 019 | 020 | 001 | 000 | 004 | 004 | 010 | 012 | 017 | 010 | 005 | 005 |
| 016 | 011 | 009 | 004 | 004 | 005 | 006 | 009 | 010 | 011 | 004 | 000 | 000 |
| 013 | 014 | 010 | 010 | 009 | 011 | 012 | 010 | 011 | 014 | 004 | 000 | 001 |
| 017 | 003 | 002 | 006 | 005 | 000 | 007 | 008 | 006 | 010 | 007 | 003 | 000 |
| 013 | 008 | 004 | 005 | 009 | 009 | 008 | 012 | 015 | 018 | 003 | 001 | 000 |
| 010 | 005 | 010 | 006 | 004 | 005 | 005 | 004 | 002 | 011 | 003 | 000 | 000 |
| 049 | 044 | 012 | 000 | 008 | 005 | 014 | 022 | 005 | 039 | 043 | 036 | 033 |
| 015 | 010 | 003 | 000 | 002 | 001 | 004 | 006 | 003 | 013 | 007 | 003 | 002 |
| 017 | 008 | 002 | 000 | 004 | 005 | 005 | 009 | 012 | 012 | 011 | 005 | 007 |
| 026 | 000 | 011 | 014 | 009 | 016 | 015 | 022 | 030 | 028 | 025 | 020 | 018 |
| 027 | 013 | 016 | 015 | 016 | 015 | 019 | 021 | 021 | 018 | 008 | 005 | 000 |
| 020 | 016 | 012 | 011 | 014 | 013 | 017 | 025 | 019 | 018 | 012 | 007 | 000 |
| 000 | 025 | 022 | 025 | 017 | 019 | 021 | 029 | 028 | 029 | 020 | 017 | 019 |
| 036 | 030 | 015 | 016 | 010 | 017 | 008 | 016 | 025 | 028 | 021 | 018 | 020 |
| 013 | 007 | 005 | 006 | 004 | 006 | 006 | 012 | 015 | 014 | 008 | 004 | 003 |
| 014 | 008 | 010 | 008 | 000 | 003 | 005 | 016 | 012 | 015 | 013 | 012 | 012 |
| 029 | 024 | 025 | 014 | 000 | 019 | 007 | 003 | 004 | 022 | 023 | 022 | 024 |
| 019 | 017 | 014 | 009 | 012 | 017 | 020 | 017 | 017 | 012 | 007 | 002 | 000 |
| 014 | 007 | 005 | 009 | 000 | 006 | 017 | 021 | 019 | 013 | 008 | 005 | 003 |
| 037 | 042 | 035 | 000 | 008 | 021 | 027 | 042 | 028 | 025 | 036 | 034 | 039 |
| 008 | 008 | 000 | 017 | 013 | 030 | 035 | 054 | 054 | 050 | 045 | 042 | 042 |
| 014 | 012 | 009 | 004 | 000 | 010 | 013 | 020 | 016 | 017 | 016 | 014 | 014 |
| 014 | 000 | 000 | 000 | 005 | 009 | 008 | 014 | 012 | 013 | 011 | 007 | 005 |
| 008 | 004 | 000 | 002 | 005 | 010 | 014 | 016 | 016 | 012 | 006 | 001 | 000 |
| 021 | 016 | 018 | 014 | 011 | 016 | 019 | 021 | 018 | 010 | 005 | 000 | 002 |
| 008 | 000 | 009 | 014 | 012 | 008 | 005 | 021 | 019 | 015 | 011 | 010 | 015 |
| 056 | 040 | 055 | 002 | 005 | 031 | 036 | 047 | 039 | 049 | 015 | 000 | 038 |
| 032 | 023 | 000 | 005 | 008 | 023 | 027 | 024 | 024 | 024 | 015 | 018 | 017 |
| 017 | 008 | 008 | 000 | 002 | 010 | 012 | 018 | 015 | 014 | 004 | 000 | 007 |
| 009 | 013 | 003 | 003 | 001 | 006 | 006 | 009 | 009 | 010 | 009 | 007 | 000 |
| 013 | 011 | 008 | 007 | 006 | 006 | 009 | 006 | 006 | 002 | 000 | 002 | 004 |
| 017 | 014 | 010 | 009 | 007 | 010 | 012 | 014 | 014 | 010 | 004 | 000 | 003 |
| 012 | 009 | 000 | 002 | 000 | 005 | 017 | 021 | 020 | 020 | 018 | 013 | 009 |
| 011 | 001 | 000 | 004 | 005 | 014 | 021 | 022 | 017 | 014 | 010 | 003 | 001 |
| 016 | 012 | 005 | 004 | 002 | 015 | 019 | 029 | 029 | 019 | 006 | 001 | 000 |
| 010 | 005 | 001 | 002 | 001 | 006 | 011 | 014 | 013 | 010 | 005 | 001 | 000 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XLIII—(continued.)—Diurnal Variation of the Total Force in the several

| Astron. Time at Toronto. | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | |
|--------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | |
| JULY. | 1843 | 024 | 026 | 034 | 041 | 044 | 051 | 046 | 044 | 043 | 026 | 020 |
| | 1844 | 007 | 013 | 019 | 031 | 037 | 038 | 035 | 030 | 025 | 023 | 019 |
| | 1845 | 008 | 013 | 023 | 032 | 039 | 038 | 036 | 030 | 024 | 022 | 018 |
| | 1846 | 037 | 038 | 057 | 063 | 070 | 080 | 073 | 070 | 056 | 046 | 041 |
| | 1847 | 015 | 019 | 032 | 042 | 047 | 050 | 047 | 044 | 036 | 019 | 023 |
| Reduced Means | | 015 | 019 | 030 | 039 | 044 | 048 | 044 | 041 | 034 | 024 | 021 |
| AUGUST. | 1843 | 030 | 031 | 034 | 039 | 043 | 042 | 040 | 041 | 036 | 030 | 023 |
| | 1844 | 016 | 027 | 041 | 047 | 050 | 053 | 049 | 046 | 037 | 029 | 021 |
| | 1845 | 034 | 042 | 053 | 059 | 070 | 063 | 061 | 053 | 052 | 043 | 036 |
| | 1846 | 070 | 080 | 089 | 105 | 111 | 119 | 101 | 093 | 086 | 067 | 051 |
| | 1847 | 019 | 027 | 036 | 042 | 047 | 046 | 040 | 035 | 031 | 026 | 023 |
| Reduced Means | | 027 | 034 | 044 | 051 | 057 | 058 | 051 | 047 | 041 | 032 | 024 |
| SEPTEMBER. | 1843 | 014 | 023 | 032 | 039 | 045 | 043 | 039 | 036 | 032 | 033 | 017 |
| | 1844 | 047 | 060 | 067 | 071 | 070 | 066 | 066 | 062 | 057 | 046 | 045 |
| | 1845 | 030 | 042 | 053 | 053 | 056 | 054 | 051 | 048 | 044 | 041 | 033 |
| | 1846 | 060 | 084 | 094 | 103 | 095 | 085 | 081 | 075 | 072 | 066 | 057 |
| | 1847 | 034 | 050 | 057 | 070 | 070 | 063 | 061 | 060 | 049 | 046 | 040 |
| Reduced Means | | 031 | 046 | 055 | 061 | 061 | 056 | 054 | 050 | 045 | 040 | 032 |
| OCTOBER. | 1843 | 018 | 023 | 033 | 038 | 041 | 040 | 041 | 042 | 040 | 035 | 037 |
| | 1844 | 019 | 030 | 035 | 041 | 044 | 042 | 037 | 037 | 038 | 034 | 027 |
| | 1845 | 007 | 012 | 018 | 022 | 021 | 026 | 023 | 022 | 024 | 023 | 017 |
| | 1846 | 027 | 032 | 038 | 045 | 044 | 047 | 048 | 054 | 041 | 025 | 023 |
| | 1847 | 054 | 062 | 070 | 064 | 062 | 067 | 066 | 067 | 065 | 061 | 056 |
| Reduced Means | | 022 | 029 | 036 | 039 | 039 | 041 | 040 | 041 | 039 | 033 | 029 |
| NOVEMBER. | 1843 | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 013 | 021 | 032 | 038 | 036 | 035 | 034 | 034 | 035 | 028 | 026 |
| | 1845 | 015 | 022 | 029 | 029 | 030 | 025 | 024 | 024 | 022 | 020 | 017 |
| | 1846 | 006 | 013 | 022 | 026 | 024 | 025 | 027 | 028 | 023 | 020 | 017 |
| | 1847 | 000 | 017 | 030 | 033 | 055 | 051 | 043 | 057 | 050 | 032 | 017 |
| Reduced Means | | 004 | 013 | 023 | 027 | 031 | 029 | 027 | 031 | 028 | 020 | 014 |
| DECEMBER. | 1843 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1844 | 004 | 012 | 016 | 020 | 023 | 021 | 020 | 020 | 018 | 017 | 014 |
| | 1845 | 005 | 012 | 022 | 031 | 030 | 028 | 027 | 027 | 018 | 018 | 022 |
| | 1846 | 001 | 006 | 011 | 012 | 015 | 016 | 016 | 016 | 016 | 014 | 011 |
| | 1847 | 052 | 059 | 080 | 075 | 080 | 075 | 080 | 086 | 083 | 084 | 070 |
| Reduced Means | | 013 | 019 | 029 | 032 | 034 | 032 | 033 | 034 | 031 | 030 | 026 |

^a The Vertical Force Magnetometer not observed.

DIURNAL VARIATION OF THE TOTAL FORCE.

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Months, from January 1843 to December 1847, inclusive.

| 11 ^h | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 018 016 009 033 013 | 010 008 002 014 017 | 006 004 002 008 000 | 002 000 000 000 013 | 000 003 003 002 018 | 003 004 008 006 022 | 004 009 012 022 027 | 005 013 015 031 030 | 006 014 016 037 027 | 012 012 014 033 023 | 015 008 011 033 002 | 017 002 005 029 012 | 020 003 003 033 012 |
| 015 | 007 | 001 | 000 | 002 | 006 | 012 | 016 | 017 | 016 | 011 | 010 | 011 |
| 013 015 026 034 000 | 012 008 020 023 005 | 009 005 022 000 009 | 003 004 012 027 006 | 007 000 004 021 003 | 006 010 018 028 007 | 015 011 029 052 017 | 021 015 040 065 029 | 000 014 037 069 031 | 023 012 000 067 021 | 025 006 028 061 016 | 026 006 027 061 015 | 027 007 029 064 014 |
| 011 | 007 | 002 | 003 | 000 | 007 | 018 | 027 | 023 | 018 | 020 | 020 | 021 |
| 012 043 026 060 036 | 013 029 025 036 022 | 003 013 006 031 012 | 005 000 000 020 007 | 002 012 001 000 021 | 000 025 018 002 009 | 006 018 027 026 000 | 012 035 028 011 024 | 014 043 023 022 024 | 013 038 019 025 012 | 007 034 016 031 010 | 004 033 017 040 012 | 007 039 022 047 018 |
| 029 | 019 | 007 | 000 | 001 | 005 | 009 | 016 | 019 | 015 | 014 | 015 | 021 |
| 028 024 014 014 054 | 019 017 006 000 030 | 013 002 000 006 037 | 009 009 004 005 025 | 000 004 005 009 020 | 007 000 000 008 000 | 013 003 005 017 010 | 023 002 010 018 008 | 034 009 011 011 043 | 033 014 018 021 040 | 023 014 005 018 021 | 020 011 002 018 040 | 015 014 000 018 037 |
| 024 | 011 | 009 | 007 | 005 | 000 | 007 | 009 | 019 | 022 | 013 | 015 | 014 |
| — 014 014 014 011 | — 008 013 010 014 | — 011 008 005 012 | — 007 010 000 007 | — 000 007 010 012 | — 003 000 011 007 | — 003 007 010 010 | — 002 014 016 015 | — 007 017 017 009 | — 013 011 013 009 | — 007 009 008 003 | — 007 006 006 003 | — 011 009 002 006 |
| 008 | 009 | 004 | 001 | 002 | 000 | 003 | 007 | 008 | 007 | 002 | 001 | 002 |
| — 012 018 003 067 | — 010 013 005 025 | — 007 011 003 032 | — 007 011 006 034 | — 009 007 005 050 | — 006 005 003 006 | — 006 003 004 000 | — 007 001 011 014 | — 005 003 012 012 | — 004 000 009 038 | — 002 005 006 033 | — 001 003 000 044 | — 000 002 000 051 |
| 022 | 010 | 010 | 012 | 015 | 002 | 000 | 005 | 005 | 010 | 009 | 009 | 010 |

TABLE XLIV.

Showing the mean Diurnal Variation of the Total Force in the several Months of the Year, derived from TABLE XLIII.

| Astronomical Time at Toronto. } | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| January . . . | 006 | 011 | 017 | 023 | 023 | 026 | 024 | 024 | 023 | 022 | 020 | 016 |
| February . . . | 007 | 012 | 018 | 022 | 026 | 027 | 025 | 025 | 026 | 019 | 019 | 015 |
| March . . . | 000 | 014 | 022 | 030 | 032 | 034 | 034 | 035 | 032 | 028 | 021 | 013 |
| April . . . | 020 | 029 | 037 | 044 | 050 | 050 | 049 | 044 | 039 | 038 | 029 | 014 |
| May . . . | 011 | 019 | 030 | 038 | 033 | 048 | 044 | 042 | 036 | 031 | 022 | 017 |
| June . . . | 003 | 007 | 017 | 024 | 029 | 031 | 029 | 027 | 022 | 018 | 013 | 010 |
| July . . . | 015 | 019 | 030 | 039 | 044 | 048 | 044 | 041 | 034 | 024 | 021 | 015 |
| August . . . | 027 | 034 | 044 | 051 | 057 | 058 | 051 | 047 | 041 | 032 | 024 | 011 |
| September . . . | 031 | 046 | 055 | 061 | 061 | 056 | 054 | 050 | 045 | 040 | 032 | 029 |
| October . . . | 022 | 029 | 036 | 039 | 039 | 041 | 040 | 041 | 039 | 033 | 029 | 024 |
| November . . . | 004 | 013 | 023 | 027 | 031 | 029 | 027 | 031 | 028 | 020 | 014 | 008 |
| December . . . | 013 | 019 | 029 | 032 | 034 | 032 | 033 | 034 | 031 | 030 | 026 | 022 |
| April to Sept. } inclusive . . . | 017 | 025 | 034 | 042 | 045 | 048 | 044 | 041 | 035 | 030 | 022 | 015 |
| Oct. to March } inclusive . . . | 007 | 014 | 022 | 027 | 029 | 030 | 029 | 030 | 028 | 023 | 020 | 014 |
| Mean of the } whole Year . . . | 010 | 018 | 027 | 033 | 035 | 037 | 035 | 034 | 030 | 025 | 020 | 013 |

| Astronomical Time at Toronto. } | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
|-------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 | ·00 |
| January . . . | 011 | 009 | 004 | 004 | 005 | 006 | 009 | 010 | 011 | 004 | 000 | 000 |
| February . . . | 010 | 003 | 000 | 002 | 001 | 004 | 006 | 003 | 013 | 007 | 003 | 002 |
| March . . . | 007 | 005 | 006 | 004 | 006 | 006 | 012 | 015 | 014 | 008 | 004 | 003 |
| April . . . | 012 | 009 | 004 | 000 | 010 | 013 | 020 | 016 | 017 | 016 | 014 | 014 |
| May . . . | 008 | 008 | 000 | 002 | 010 | 012 | 018 | 015 | 014 | 004 | 000 | 007 |
| June . . . | 005 | 001 | 002 | 001 | 006 | 011 | 014 | 013 | 010 | 005 | 001 | 000 |
| July . . . | 007 | 001 | 000 | 002 | 006 | 012 | 016 | 017 | 016 | 011 | 010 | 011 |
| August . . . | 007 | 002 | 003 | 000 | 007 | 018 | 027 | 023 | 018 | 020 | 020 | 021 |
| September . . . | 019 | 007 | 000 | 001 | 005 | 009 | 016 | 019 | 015 | 014 | 015 | 021 |
| October . . . | 011 | 009 | 007 | 005 | 000 | 007 | 009 | 019 | 022 | 013 | 015 | 014 |
| November . . . | 009 | 004 | 001 | 002 | 000 | 003 | 007 | 008 | 007 | 002 | 001 | 002 |
| December . . . | 010 | 010 | 012 | 015 | 002 | 000 | 005 | 005 | 010 | 009 | 009 | 010 |
| April to Sept. } inclusive . . . | 009 | 004 | 001 | 000 | 006 | 012 | 018 | 017 | 014 | 011 | 009 | 011 |
| Oct. to March } inclusive . . . | 008 | 005 | 003 | 003 | 000 | 002 | 006 | 008 | 011 | 005 | 004 | 003 |
| Mean of the } whole Year . . . | 007 | 003 | 006 | 000 | 002 | 005 | 010 | 011 | 011 | 006 | 005 | 006 |

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TABLE XLV.

Exhibits the Differences of the Total Force at each observation hour from the Mean Force in the month; the sign + implies that the force is greater than its Mean value in the Month and - that it is less.

| Astron. Time at Toronto. } } | 0 ^h | 1 ^h | 2 ^h | 3 ^h | 4 ^h | 5 ^h | 6 ^h | 7 ^h | 8 ^h | 9 ^h | 10 ^h | 11 ^h |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| January . . | -007 | -002 | +004 | +010 | +010 | +013 | +011 | +011 | +010 | +009 | +007 | +003 |
| February . . | -005 | 000 | +006 | +010 | +014 | +015 | +013 | +013 | +014 | +007 | +007 | +003 |
| March . . | -016 | -002 | +006 | +014 | +016 | +018 | +018 | +019 | +016 | +012 | +005 | -003 |
| April . . | -004 | +005 | +013 | +020 | +026 | +026 | +025 | +020 | +015 | +014 | +005 | -010 |
| May . . | -014 | -006 | +005 | +013 | +008 | +023 | +019 | +017 | +011 | +006 | -003 | -008 |
| June . . | -012 | -008 | +002 | +009 | +014 | +016 | +014 | +012 | +007 | +003 | -002 | -005 |
| July . . | -005 | -001 | +010 | +019 | +024 | +028 | +024 | +021 | +014 | +004 | +001 | -005 |
| August . . | 000 | +007 | +017 | +024 | +030 | +031 | +024 | +020 | +014 | +005 | -003 | -016 |
| September . | +002 | +017 | +026 | +032 | +032 | +027 | +025 | +021 | +016 | +011 | +003 | 000 |
| October . . | 000 | +007 | +014 | +017 | +017 | +019 | +018 | +019 | +017 | +011 | +007 | +002 |
| November . | -009 | 000 | +010 | +014 | +018 | +016 | +014 | +018 | +015 | +007 | +001 | -005 |
| December . | -005 | +001 | +011 | +014 | +016 | +014 | +015 | +016 | +013 | +012 | +008 | +004 |
| Mean of the whole Year } | -006 | +002 | +010 | +016 | +019 | +021 | +018 | +017 | +014 | +008 | +003 | -003 |
| Astron. Time at Toronto. } } | 12 ^h | 13 ^h | 14 ^h | 15 ^h | 16 ^h | 17 ^h | 18 ^h | 19 ^h | 20 ^h | 21 ^h | 22 ^h | 23 ^h |
| | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| January . . | -002 | -004 | -009 | -009 | -008 | -007 | -004 | -003 | -002 | -009 | -013 | -013 |
| February . . | -002 | -009 | -012 | -010 | -011 | -008 | -006 | -009 | +001 | -005 | -009 | -010 |
| March . . | -009 | -011 | -010 | -012 | -010 | -010 | -004 | -001 | -002 | -008 | -012 | -013 |
| April . . | -012 | -015 | -020 | -024 | -014 | -011 | -004 | -008 | -007 | -008 | -010 | -010 |
| May . . | -017 | -017 | -025 | -023 | -015 | -013 | -007 | -010 | -011 | -021 | -025 | -018 |
| June . . | -010 | -014 | -013 | -014 | -009 | -004 | -001 | -002 | -005 | -010 | -014 | -015 |
| July . . | -013 | -019 | -020 | -018 | -014 | -008 | -004 | -003 | -004 | -009 | -010 | -009 |
| August . . | -020 | -025 | -024 | -027 | -020 | -009 | 000 | -004 | -009 | -007 | -007 | -006 |
| September . | -010 | -022 | -029 | -028 | -024 | -020 | -013 | -010 | -014 | -015 | -014 | -008 |
| October . . | -011 | -013 | -015 | -017 | -022 | -015 | -013 | -003 | 000 | -009 | -007 | -008 |
| November . | -004 | -009 | -012 | -011 | -013 | -010 | -006 | -005 | -006 | -011 | -012 | -011 |
| December . | -008 | -008 | -006 | -003 | -016 | -018 | -013 | -013 | -008 | -009 | -009 | -008 |
| Mean of the whole Year. } | -010 | -014 | -016 | -016 | -015 | -011 | -006 | -006 | -006 | -010 | -012 | -011 |

VARIATION OF THE DIURNAL RANGE.

Tables XLVI., XLVII., XLVIII., and XLIX. show the inequality or variation in the amount of the diurnal range of the Horizontal and Vertical Force, and of the Inclination and Total Force, in different years, and in different seasons of those years. The explanation given in the concluding paragraph in p. xxi. of the present volume, of the corresponding tables of the variation in the diurnal range of the declination, is applicable to these tables also.

TABLE XLVI.

Mean Magnitude of the Diurnal Range of the Horizontal Force, from 1841 to 1851 inclusive, in parts of the Horizontal Force.

| YEARS. | Winter. | Spring&Autumn. | Summer. | Mean of the whole Year. | YEARS. |
|--------|---------------------------|------------------------------|-----------------------------|-------------------------------|--------|
| | Jan., Feb., Nov., Dec. | March, April, Sept., Oct. | May, June, July, August. | | |
| 1841 | ·00123 | ·00200 | ·00223 | ·00182 | 1841 |
| 1842 | ·00132 | ·00174 | ·00234 | ·00180 | 1842 |
| 1843 | ·00119 | ·00174 | ·00170 | ·00154 | 1843 |
| 1844 | ·00107 | ·00189 | ·00211 | ·00169 | 1844 |
| 1845 | ·00120 | ·00181 | ·00211 | ·00171 | 1845 |
| 1846 | ·00135 | ·00217 | ·00256 | ·00203 | 1846 |
| 1847 | ·00200 | ·00292 | ·00259 | ·00250 | 1847 |
| 1848 | ·00225 | ·00304 | ·00307 | ·00279 | 1848 |
| 1849 | ·00214 | ·00270 | ·00294 | ·00259 | 1849 |
| 1850 | ·00202 | ·00275 | ·00227 | ·00235 | 1850 |
| 1851 | ·00169 | ·00271 | ·00183 | ·00208 | 1851 |

TABLE XLVII.

Mean Magnitude of the Diurnal Range of the Vertical Force, from 1841 to 1848 inclusive, in parts of the Vertical Force.

| YEARS. | Winter. | Spring&Autumn. | Summer. | Mean of the whole Year. | YEARS. |
|--------|---------------------------|------------------------------|----------------------------|-------------------------------|--------|
| | Jan., Feb., Nov., Dec. | March, April, Sept., Oct. | May, June, July, August | | |
| 1841 | ·00039 | ·00056 | ·00056 | ·00050 | 1841 |
| 1842 | ·00022 | ·00041 | ·00039 | ·00034 | 1842 |
| 1843 | ·00033 | ·00038 | ·00041 | ·00037 | 1843 |
| 1844 | ·00023 | ·00056 | ·00034 | ·00038 | 1844 |
| 1845 | ·00032 | ·00032 | ·00037 | ·00034 | 1845 |
| 1846 | ·00019 | ·00053 | ·00070 | ·00047 | 1846 |
| 1847 | ·00040 | ·00057 | ·00044 | ·00047 | 1847 |
| 1848 | ·00041 | ·00051 | ·00041 | ·00044 | 1848 |

TABLE XLVIII.

Mean Magnitude of the Diurnal Range of the Inclination, from 1843 to 1848 inclusive.

| YEARS. | Winter. | Spring&Autumn. | Summer. | Mean of the whole Year. | YEARS. |
|--------|---------------------------|------------------------------|-----------------------------|-------------------------------|--------|
| | Jan., Feb., Nov., Dec. | March, April, Sept., Oct. | May, June, July, August. | | |
| 1843 | 1·26 | 1·40 | 1·50 | 1·39 | 1843 |
| 1844 | 0·78 | 1·39 | 1·59 | 1·25 | 1844 |
| 1845 | 0·88 | 1·35 | 1·57 | 1·27 | 1845 |
| 1846 | 1·09 | 1·59 | 1·92 | 1·53 | 1846 |
| 1847 | 1·43 | 2·22 | 1·98 | 1·88 | 1847 |
| 1848 | 1·64 | 2·30 | 2·38 | 2·11 | 1848 |

TABLE XLIX.

Mean Magnitude of the Diurnal Range of the Total Force, from 1843 to 1848 inclusive, in parts of the Force.

| YEARS. | Winter. | Spring&Autumn. | Summer. | Mean of the whole Year. | YEARS. |
|--------|---------------------------|------------------------------|-----------------------------|-------------------------------|--------|
| | Jan., Feb., Nov., Dec. | March, April, Sept., Oct. | May, June, July, August. | | |
| 1843 | ·00028 | ·00040 | ·00040 | ·00036 | 1843 |
| 1844 | ·00027 | ·00059 | ·00039 | ·00042 | 1844 |
| 1845 | ·00032 | ·00038 | ·00046 | ·00039 | 1845 |
| 1846 | ·00020 | ·00059 | ·00077 | ·00052 | 1846 |
| 1847 | ·00048 | ·00064 | ·00052 | ·00055 | 1847 |
| 1848 | ·00049 | ·00064 | ·00055 | ·00056 | 1848 |

The values for 1848 in Tables XLVIII. and XLIX. include a part of the observations of that year which were not included in the corresponding Tables published in the Phil. Trans. for 1852, Art. viii., pp. 119-120 ; and are therefore *slightly* different from the values given in the paper referred to.

MAGNETIC INCLINATION.

The custom, described in the first volume of the Toronto Observations, of making eight determinations of the Inclination in each month, at nearly equal intervals in the month, and taking for this purpose Tuesdays in the forenoon, and Fridays in the afternoon, as the times of observation, was continued from April 1841, to December 1847 inclusive. Commencing with January 1848, the same number, or occasionally a greater number, of partial determinations was made monthly ; but instead of the Tuesdays and Fridays, the days of observation were the same as those in which the absolute values of the horizontal force were determined, namely, three days in every

those from January 1843 to December 1851 will be found in the latter part of the present volume. The following table exhibits in one view the mean monthly results in the twelve years comprised between January 1841 and December 1852.

TABLE L.

Monthly Means of the Observations of the Inclination from January 1841 to December 1852, inclusive.

| MONTHS. | 1841 | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | 1849 | 1850 | 1851 | 1852 | Means for each Month. | $\theta' - \theta$ |
|------------------------|------|------|------|------|------|-------|------|------|------|------|------|------|--------------------------|--------------------|
| | 75+ | 75+ | 75+ | 75+ | 75+ | 75+ | 75+ | 75+ | 75+ | 75+ | 75+ | 75+ | | |
| January . . . | 16.2 | 17.9 | 14.5 | 15.4 | 18.4 | *16.1 | 15.0 | 20.3 | 19.5 | 19.9 | 21.6 | 19.3 | 75 17.84 = θ' | +0.64 |
| February . . . | 13.6 | 16.1 | 15.2 | 15.7 | 19.5 | *16.4 | 15.2 | 18.7 | 18.1 | 18.7 | 20.0 | 19.4 | 75 17.22 = θ' | +0.02 |
| March . . . | 16.7 | 18.0 | 14.1 | 14.5 | 14.5 | *16.0 | 16.3 | 17.2 | 16.7 | 18.0 | 21.5 | 19.6 | 75 16.92 = θ' | -0.28 |
| April . . . | 16.1 | 19.0 | 13.3 | 13.2 | 11.5 | 14.3 | 15.9 | 18.0 | 18.4 | 19.7 | 21.9 | 20.0 | 75 16.77 = θ' | -0.43 |
| May . . . | 16.5 | 17.0 | 14.4 | 12.5 | 15.4 | 14.4 | 16.1 | 17.2 | 18.4 | 19.5 | 20.0 | 20.8 | 75 16.85 = θ' | -0.35 |
| June . . . | 16.8 | 11.7 | 13.4 | 11.6 | 15.2 | 14.8 | 13.0 | 16.8 | 18.5 | 19.1 | 20.7 | 20.8 | 75 16.03 = θ' | -1.17 |
| July . . . | 14.3 | 16.1 | 14.5 | 10.1 | 14.2 | 14.0 | 11.6 | 16.4 | 18.0 | 19.9 | 19.0 | 19.9 | 75 15.67 = θ' | -1.53 |
| August . . . | 13.9 | 16.3 | 14.8 | 9.8 | 14.4 | 14.4 | 12.6 | 19.0 | 19.3 | 18.4 | 19.8 | 20.0 | 75 16.06 = θ' | -1.14 |
| September . . . | 18.8 | 14.9 | 15.3 | 17.7 | 16.6 | 15.7 | 15.4 | 17.3 | 21.6 | 21.0 | 20.8 | 21.6 | 75 18.06 = θ' | +0.86 |
| October . . . | 18.9 | 16.1 | 14.5 | 17.9 | 14.3 | 15.4 | 17.6 | 19.0 | 20.6 | 21.8 | 20.0 | 22.2 | 75 18.19 = θ' | +0.99 |
| November . . . | 17.9 | 17.3 | 16.8 | 20.3 | 16.8 | 15.0 | 17.9 | 19.4 | 20.1 | 21.3 | 20.4 | 21.3 | 75 18.71 = θ' | +1.51 |
| December . . . | 17.9 | 16.2 | 15.7 | 19.0 | 15.2 | 15.1 | 16.8 | 20.6 | 18.1 | 22.5 | 19.4 | 21.2 | 75 18.14 = θ' | +0.94 |
| Means for each Year | 16.6 | 16.4 | 14.7 | 14.8 | 15.5 | 15.1 | 15.3 | 18.3 | 18.8 | 20.0 | 20.4 | 20.5 | 75 17.20 = θ | |

* 2'.2 added for index error, page lxxxvi.

Annual Variation.—The values in the column entitled $\theta' - \theta$, which are the differences between the mean Inclination in the whole period and the means of the several months include the joint effects of annual variation and secular change. As the annual amount of secular change is very small, it may be eliminated by an approximate value, derived in the usual manner from the mean inclination in the several years from 1841 to 1852, placed in the bottom line of Table L. These give an annual increase of 0'.51, or a monthly increase of 0'.042; and the values of $\theta' - \theta$, corrected in proper proportion for this amount of secular change, become as follows:—

| | | | | | | | |
|----------------|-------|-------|---------|-----------------|-------|-------|---------|
| January . . . | +0.64 | +0.23 | = +0.87 | July . . . | -1.53 | -0.02 | = -1.55 |
| February . . . | +0.02 | +0.19 | = +0.21 | August . . . | -1.14 | -0.06 | = -1.20 |
| March . . . | -0.28 | +0.15 | = -0.13 | September . . . | +0.86 | -0.11 | = +0.75 |
| April . . . | -0.43 | +0.11 | = -0.32 | October . . . | +0.99 | -0.15 | = +0.84 |
| May . . . | -0.35 | +0.06 | = -0.29 | November . . . | +1.51 | -0.19 | = +1.32 |
| June . . . | -0.17 | +0.02 | = -1.15 | December . . . | +0.94 | -0.23 | = +0.71 |

The annual variation which these results indicate may perhaps be not unfitly represented by the first term of the usual formula for periodical functions $\theta^x = \theta + u \sin(a + U)$, in which θ^x is the Inclination at the required period x , θ the mean Inclination in the year, $a = 30^\circ \times n$, in which n denotes the interval in time in months and parts

of a month between x and the 15th of January, and u and U are constants obtained from the results in the usual manner. This formula becomes in the present case—

$$\theta_x = 75^\circ 17' \cdot 2 - 1' \cdot 11 \sin (\alpha + 302^\circ \cdot 1);$$

whence the mean inclination in the several months, and the annual variation, are as follows:—

| | | | |
|---------------------|------------|--------------------------|---------|
| January | 75 18' 14; | and the Annual Variation | + 0' 94 |
| February | 75 17' 72 | , , | + 0' 52 |
| March | 75 17' 16 | , , | - 0' 04 |
| April | 75 16' 61 | , , | - 0' 59 |
| May | 75 16' 22 | , , | - 0' 98 |
| June | 75 16' 09 | , , | - 1' 11 |
| July | 75 16' 26 | , , | - 0' 94 |
| August | 75 16' 69 | , , | - 0' 52 |
| September | 75 17' 24 | , , | + 0' 04 |
| October | 75 17' 79 | , , | + 0' 59 |
| November | 75 18' 18 | , , | + 0' 98 |
| December | 75 18' 31 | , , | + 1' 11 |

Or, a maximum of north inclination in December, and a minimum in June, being the two solstitial months; with a total range of annual variation from the one solstice to the other of 2' 22.

Secular Change.—From the intercomparison of the mean inclination in the several years shown in the bottom line of Table L., we have to seek the character and amount of secular change during the period comprised by the observations. On a first inspection of the values of the inclination in the years from 1841 to 1852 inclusive, we might be led to infer that in 1843 or 1844 the secular change at Toronto reached a turning epoch; and that, from having been previously a decrease, it became subsequently an increase of inclination. It is possible, however, that the facts may admit, and may hereafter receive, a different explanation. It has been shown in the analysis of the larger disturbances of the *Declination*, that the aggregate value of the easterly disturbances at Toronto preponderates over that of the westerly disturbances, and consequently that the mean Magnetic Declination in the year must have, as one of its constituents, a small but appreciable easterly element, due to the greater prevalence of easterly disturbances. If the disturbances took place in every year to the same, or nearly to the same, amount, and always maintained the same proportion of easterly and westerly deflections, their influence on the mean magnetic direction would be a constant quantity in all years; but if, on the other hand, the amount of disturbance in different years be subject to a periodical variation, affecting the aggregate amount of disturbance, but not materially affecting the proportion of its easterly and westerly constituents, the absolute Declination at Toronto must be subject to a periodical variation not hitherto taken into account, having epochs corresponding to those which have

was found to exist in the disturbances. Such a variation might be expected to show itself on a sufficient continuance of careful observation, and might be separated thereby from the secular change, which, until this variation were so determined and separated, would appear to be affected by a corresponding irregularity. An analysis of the larger disturbances of the *Inclination*, similar to that of the larger disturbances of the *Declination*, has not yet been made; but a very cursory examination of the registries of the Horizontal and Vertical Force Magnetometers is sufficient to show that the disturbances of the *Inclination* and *Total Force* are subject to a periodical variation, similar to that which has been found to affect the *Declination* disturbances, with alternate epochs of maximum and minimum, at intervals of about five years. If at Toronto the aggregate effect of the disturbances be to increase the *Inclination*, and if 1843–1844 be an epoch of minimum, and 1848–1849 an epoch of maximum disturbance, the periodical augmentation of the *Inclination* due to the disturbance should be a minimum also in 1843 or 1844, and a maximum in 1848 or 1849. Until the amount of the augmentation due to this cause, and its periodical variation, be ascertained and eliminated in the inquiry respecting *secular change*, the secular change itself will appear to be affected by an irregularity, not altogether dissimilar in character to that which is presented by the mean *Inclinations* in the bottom line of Table L. The train of inquiry which has been thus indicated may perhaps be more advantageously pursued when the disturbances of the *Inclination* shall have been analysed, as those of the *Declination* have been: in the meantime, considering the small amount of the apparent irregularities, together with the variety of needles employed in the observations of the different years, and the consequent possibility of defective intercomparability, we may perhaps take as the best present approximation, such an uniform increase of *Inclination* from secular change, during the whole period, as may best satisfy the means of the several years. The secular change in this view is an annual increase of $0' \cdot 51$.

HORIZONTAL FORCE.

In Absolute Measure.—The monthly series of absolute determinations of the Horizontal Force commenced in January 1845; they were made with a deflecting magnet of 3·67 inches in length, and a suspended magnet of 3 inches, both being solid cylinders of 0·3 inch diameter. The same magnets were used throughout the series. The observations were made about the same period in every month, usually on the 16th, 17th, and 18th of the month. Three distances were employed, the least being 1 foot and the greatest 1·4 foot from the centre of the suspended magnet. The deflections were read on a circle of 6 inches diameter, having two verniers reading to 20". The reading telescope was attached to and moved with the azimuth circle; the deflecting magnet was therefore always perpendicular to the suspended magnet when the deflections

caused by the latter were read off. The deflecting magnet was suspended for vibration in a stirrup with a mirror, in a detached wooden box, by a silk thread of which the line of detorsion was brought approximately into the magnetic meridian. Concurrent readings were taken with the Observatory Bifilar, furnishing the means of reducing the results of each of the absolute determinations to the mean Horizontal Force of the month in which it was made. The details of the observations, with an explanatory memorandum drawn up by Captain Younghusband, are given in the latter part of this volume. As *absolute* determinations, the results can only yet be considered as provisional, as the exact values of the distances between the centres of the suspended and deflecting magnets, and of the constants of inertia and of induction, have to be finally determined with the new standard scale and weights on the return of the Unifilar to England, which will shortly take place: but as the mutual relation of the results will be unaffected by slight changes in the constants common to the whole series, we may proceed to employ them at once in the theoretical deductions to which a body of results *relatively* correct may be applicable.

Collecting in one view the mean monthly determination of the Horizontal Force in the eight years from January 1845 to December 1852 inclusive, we have the values in the following Table:—

TABLE LI.

Monthly Means of the observed Values of the Horizontal Force in absolute measure from January 1845 to December 1852 inclusive.

| MONTHS. | 1845 | 1846 | 1847 | 1848 | 1849 | 1850 | 1851 | 1852 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| January . . . | 3·5397 | 3·5419 | 3·5384 | 3·5279 | 3·5272 | 3·5223 | 3·5195 | 3·5225 |
| February . . . | 3·5392 | 3·5341 | 3·5336 | 3·5261 | 3·5270 | 3·5265 | 3·5207 | 3·5185 |
| March | 3·5437 | 3·5406 | 3·5315 | 3·5323 | 3·5277 | 3·5278 | 3·5235 | 3·5182 |
| April | 3·5395 | 3·5376 | 3·5308 | 3·5305 | 3·5300 | 3·5312 | 3·5233 | 3·4986 |
| May | 3·5411 | 3·5357 | 3·5320 | 3·5320 | 3·5340 | 3·5333 | 3·5292 | 3·5069 |
| June | 3·5463 | 3·5379 | 3·5350 | 3·5270 | 3·5328 | 3·5319 | 3·5264 | 3·5013 |
| July | 3·5403 | 3·5407 | 3·5323 | 3·5306 | 3·5350 | 3·5210 | 3·5251 | 3·5055 |
| August | 3·5405 | 3·5344 | 3·5352 | 3·5305 | 3·5350 | 3·5192 | 3·5240 | 3·5103 |
| September . . . | 3·5402 | 3·5322 | 3·5280 | 3·5277 | 3·5333 | 3·5159 | 3·5263 | 3·5079 |
| October | 3·5412 | 3·5308 | 3·5278 | 3·5254 | 3·5253 | 3·5223 | 3·5194 | 3·5068 |
| November . . . | 3·5370 | 3·5309 | 3·5274 | 3·5206 | 3·5288 | 3·5312 | 3·5245 | 3·5073 |
| December . . . | 3·5407 | 3·5369 | 3·5315 | 3·5241 | 3·5275 | 3·5233 | 3·5219 | 3·5067 |
| Annual Means. | 3·5408 | 3·5361 | 3·5320 | 3·5279 | 3·5303 | 3·5255 | 3·5237 | 3·5092 |

On examining the results in Table LI., we may at once perceive that there are irregularities in 1852 which much exceed those of any of the preceding years. The mean monthly value of the Force in April 1852, for example, differs from that of the preceding month by $\cdot 0196$, a quantity which is much greater than the difference between any two months whatsoever in any of the preceding years; it is equivalent to a change in the Inclination of about $4' \cdot 5$, whilst the direct observations recorded in Table L. show that no greater difference took place in the Inclination between the months of March

and April 1852 than $0' \cdot 4$. Again, the *mean* Horizontal Force in the year 1852, in Table LI., differs $\cdot 0145$ from the amount in 1851, which is equivalent to $3' \cdot 7$ of Inclination; whilst in Table L. the difference between 1851 and 1852 is shown by direct observation to have been not more than $0' \cdot 1$. The Horizontal Force observations for 1852 have only recently been received at Woolwich, and it is possible that inquiries which have been instituted may lead to the discovery of the existence of some accidental cause for the unprecedented irregularities in 1852. In the meantime it appears the more safe course to confine the discussion of the results for the present to the seven years from 1845 to 1851 inclusive.

Secular Change.—From the annual means (1845 to 1851) in Table LI., we obtain $3 \cdot 5309$ as the most probable value (subject to the final correction of the constants as above mentioned) of the Horizontal Force in the middle of the year 1848; and a decrease of $\cdot 0026$ as the mean annual secular change in those years. If we assume that no secular change exists in the total force at Toronto, and that the secular change in the Horizontal Force is consequently wholly due to that of the Inclination, an annual decrease of $\cdot 0026$ will be equivalent to an annual increase of $0' \cdot 67$ in the Inclination: the actual annual increase derived in page lxxxvii. from the direct observations of the Inclination between 1841 and 1852 is $0' \cdot 51$.

Annual Variation.—The mean monthly values of the Horizontal Force in the seven years from 1845 to 1851, inclusive, with the corrections necessary to eliminate the influence of an annual secular decrease of $\cdot 0026$, are as follows:—

| | Monthly Means. | Corr. for Secular Change. | Monthly Means Corrected. | X'—X |
|-----------------|----------------|---------------------------|--------------------------|---------|
| January . . . | 3·5310 | — ·0012 | 3·5298 = X'; | — ·0011 |
| February . . . | 3·5296 | — ·0010 | 3·5286 = X'; | — ·0023 |
| March . . . | 3·5324 | — ·0008 | 3·5316 = X'; | + ·0007 |
| April . . . | 3·5318 | — ·0005 | 3·5313 = X'; | + ·0004 |
| May . . . | 3·5339 | — ·0003 | 3·5336 = X'; | + ·0027 |
| June . . . | 3·5339 | — ·0001 | 3·5338 = X'; | + ·0029 |
| July . . . | 3·5321 | + ·0001 | 3·5322 = X'; | + ·0013 |
| August . . . | 3·5313 | + ·0003 | 3·5316 = X'; | + ·0007 |
| September . . . | 3·5291 | + ·0005 | 3·5296 = X'; | — ·0013 |
| October . . . | 3·5275 | + ·0008 | 3·5283 = X'; | — ·0023 |
| November . . . | 3·5286 | + ·0010 | 3·5296 = X'; | — ·0013 |
| December . . . | 3·5294 | + ·0012 | 3·5306 = X'; | — ·0003 |
| | | | <hr/> 3·5309 = X. <hr/> | |

The values of X'—X show the quantities by which the observed Horizontal Force in the several months exceeds or falls short of the mean force in the year. These quantities may be represented (as in the case of the annual variation of the Inclination, page lxxxvii) by the first term of the usual formula, which here becomes $X_x = 3 \cdot 5309 + \cdot 002 \sin (a + 312' \cdot 1)$, a being reckoned from the 15th of January. This formula gives a minimum of force in December, and a maximum in June, with a total range

from the one solstice to the other of $\cdot 0038$. The range of the annual variation of the Inclination between December and June ($2' \cdot 22$) is equivalent, in the resolution of the total force into its Horizontal and Vertical components, to $\cdot 0087$ of Horizontal Force; and the Inclination being greatest in December and least in June, the Horizontal Force in conformity therewith should be $\cdot 0087$ greater in June than in December. By the observations it appears, however, that the excess in June over December is not more than $\cdot 0038$; we may therefore infer the probable existence of an annular variation of the total force compensating the difference; the total force being greater at the time of the December, than at the time of the June solstice. This will be more distinctly shown by a combination of the septennial mean monthly values of the Inclination and Horizontal Force, producing the mean monthly values of the Total Force.

Annual Variation of the Total Force.—From the mean monthly values of the Horizontal Force (1845 to 1851) in Table LI., and from those of the Inclination for the same years in Table L., we obtain the following mean monthly values of the total force:—

| | |
|----------------------------|--|
| January . . . | $3 \cdot 5310 \times \sec 75^{\circ} 18' \cdot 7 = 13 \cdot 926$ |
| February . . . | $3 \cdot 5296 \times \sec 75^{\circ} 18' \cdot 1 = 13 \cdot 911$ |
| March . . . | $3 \cdot 5324 \times \sec 75^{\circ} 17' \cdot 2 = 13 \cdot 908$ |
| April . . . | $3 \cdot 5318 \times \sec 75^{\circ} 17' \cdot 1 = 13 \cdot 904$ |
| May . . . | $3 \cdot 5339 \times \sec 75^{\circ} 17' \cdot 3 = 13 \cdot 915$ |
| June . . . | $3 \cdot 5339 \times \sec 75^{\circ} 16' \cdot 9 = 13 \cdot 909$ |
| July . . . | $3 \cdot 5321 \times \sec 75^{\circ} 16' \cdot 2 = 13 \cdot 891$ |
| August . . . | $3 \cdot 5313 \times \sec 75^{\circ} 16' \cdot 8 = 13 \cdot 897$ |
| September . . . | $3 \cdot 5291 \times \sec 75^{\circ} 18' \cdot 3 = 13 \cdot 913$ |
| October . . . | $3 \cdot 5275 \times \sec 75^{\circ} 18' \cdot 4 = 13 \cdot 908$ |
| November . . . | $3 \cdot 5286 \times \sec 75^{\circ} 18' \cdot 7 = 13 \cdot 916$ |
| December . . . | $3 \cdot 5294 \times \sec 75^{\circ} 18' \cdot 2 = 13 \cdot 912$ |
| Mean of the Year | <u>$13 \cdot 909$</u> |

The differences between the mean force in the year and its mean monthly values include the joint effects of secular change and annual variation. In respect to the secular change, the observations of the Inclination and of the Horizontal Force in the years 1845 to 1851 furnish the mean values of the total force in each year as follows:—

| Years. | |
|--------|--|
| 1845 | $3 \cdot 5408 \times \sec 75^{\circ} 15' \cdot 5 = 13 \cdot 915$ |
| 1846 | $3 \cdot 5361 \times \sec 75^{\circ} 15' \cdot 1 = 13 \cdot 890$ |
| 1847 | $3 \cdot 5320 \times \sec 75^{\circ} 15' \cdot 3 = 13 \cdot 877$ |
| 1848 | $3 \cdot 5279 \times \sec 75^{\circ} 18' \cdot 3 = 13 \cdot 907$ |
| 1849 | $3 \cdot 5303 \times \sec 75^{\circ} 18' \cdot 8 = 13 \cdot 924$ |
| 1850 | $3 \cdot 5255 \times \sec 75^{\circ} 20' \cdot 0 = 13 \cdot 924$ |
| 1851 | $3 \cdot 5237 \times \sec 75^{\circ} 20' \cdot 4 = 13 \cdot 923$ |

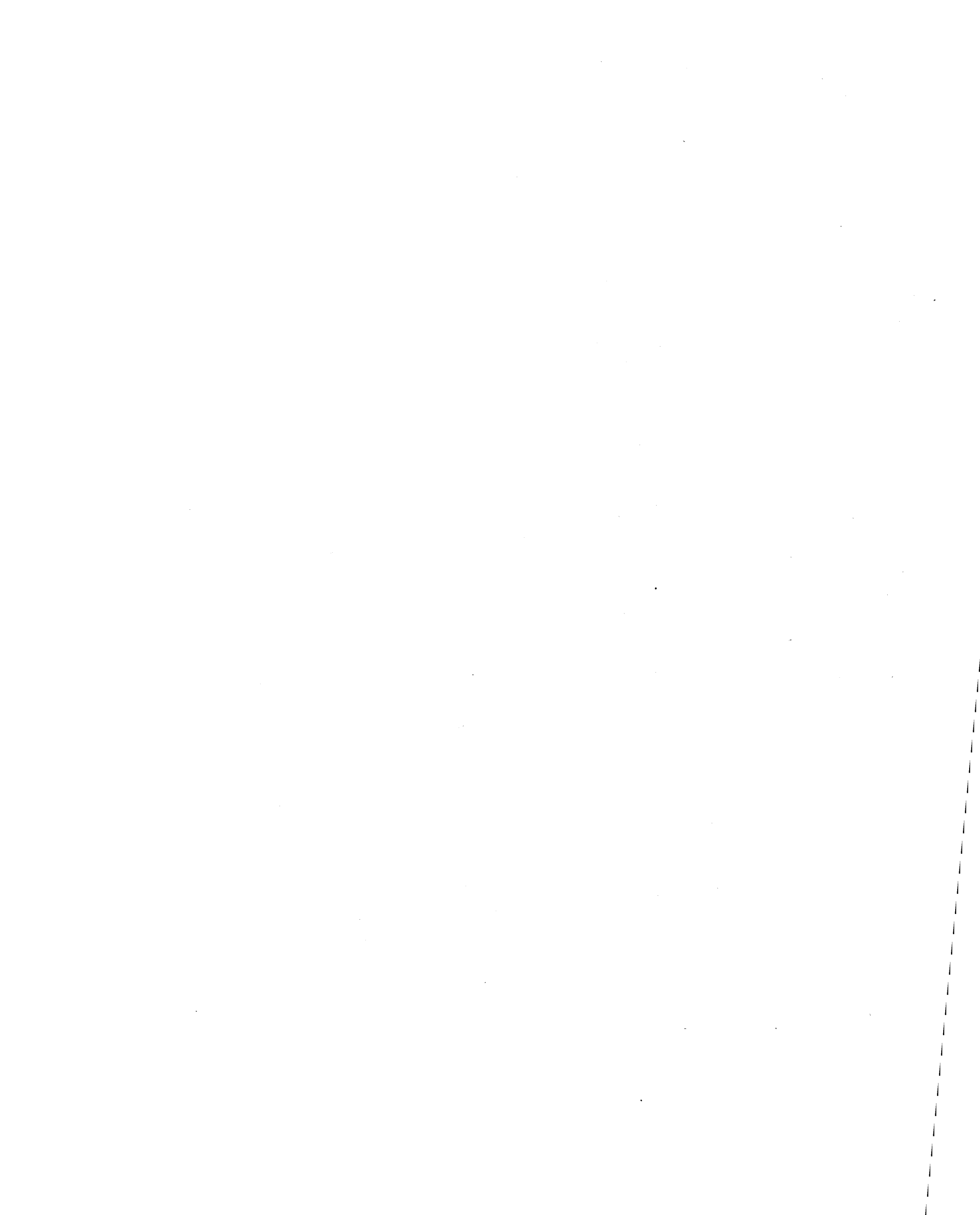
It would be unsafe to make any more precise conclusions from these results than that the secular change of the total force at Toronto, at the epoch of the observations, must have been extremely small; and that it would require a longer continuance of

the observations to determine either its average annual amount, or even whether the force were increasing or decreasing. It is not impossible that the variations of the total force in different years arising from the greater or less predominance of the phenomena characterized as "Disturbances," may bear a large proportion to, or may even exceed, the progressive variation due to secular change, where the latter is so extremely small: in such case one complete cycle of the disturbance-variations (or 10 years) would be the minimum from which any satisfactory conclusion respecting the secular change could be drawn. Whatever may be its amount, however, or its direction, it may be eliminated (on the hypothesis of its being a uniform progression) by combining together the months equi-distant from the middle period of the year. We have thus:—

| | | | | |
|----------------------------|---------------|-------------|----------------|----------|
| January and December; Mean | 13·9190 | = ϕ' ; | $\phi' - \phi$ | = +·0100 |
| February and November; ,, | 13·9135 | = ϕ' ; | ,, | = +·0045 |
| March and October; ,, | 13·9080 | = ϕ' ; | ,, | = -·0010 |
| April and September; ,, | 13·9085 | = ϕ' ; | ,, | = -·0005 |
| May and August; ,, | 13·9060 | = ϕ' ; | ,, | = -·0030 |
| June and July; ,, | 13·9000 | = ϕ' ; | ,, | = -·0090 |
| Mean of the Year | <u>13·909</u> | = ϕ . | | |

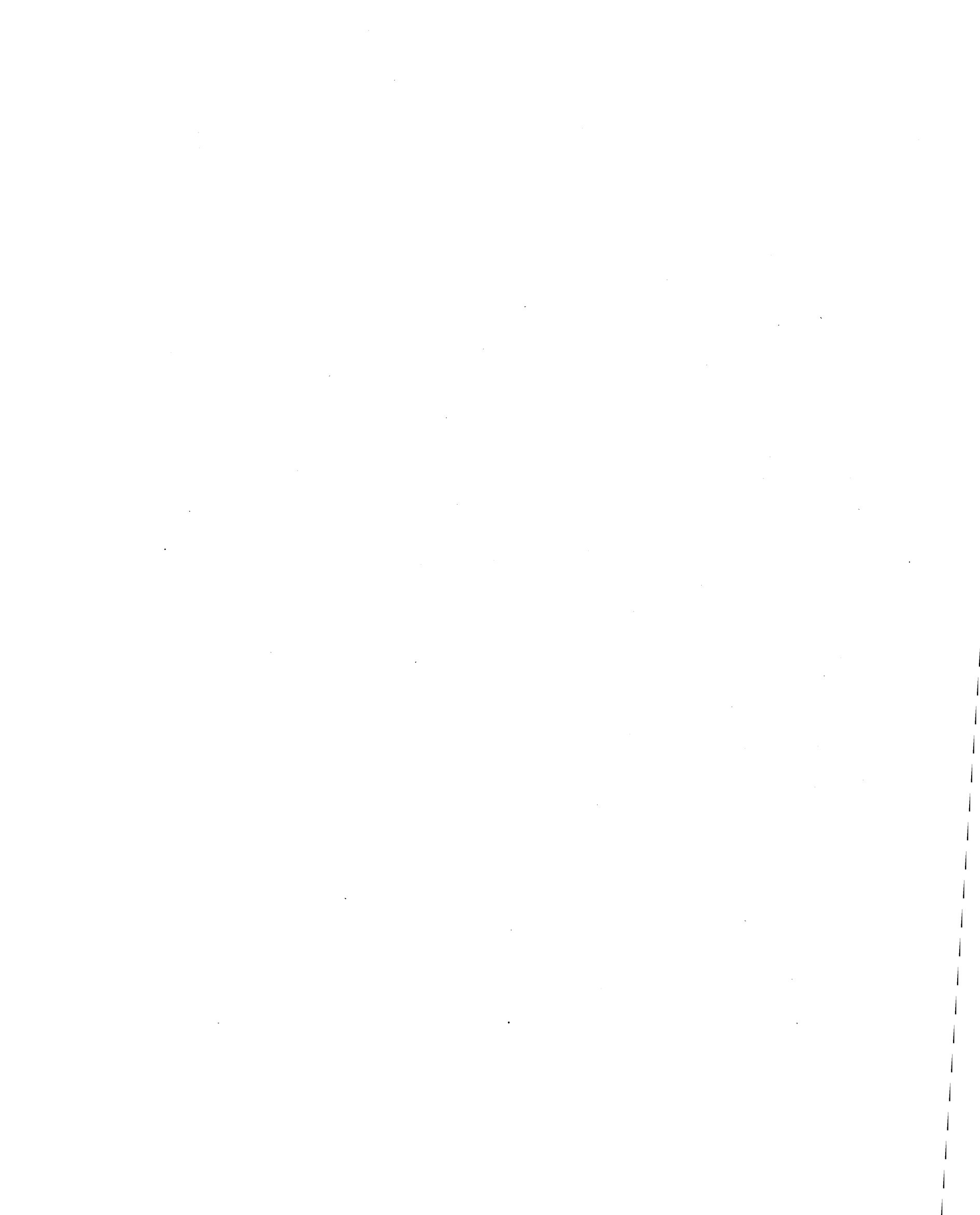
Confirming the previously drawn inference that the Total Force at Toronto is least about the time of the June solstice, and greatest about the time of the December solstice; the numerical difference in its value at the two solstices is approximately ·0190 in absolute measure; whence we may finally conclude that the total force is nearly two thousandth parts of its whole amount greater in December and January, when the earth is nearest to the sun, than in June and July, when the earth is most distant from the sun. The conclusions thus drawn in regard to the annual variations of the Inclination and Total Force are to the same effect as those derived from the more limited sources discussed in the Phil. Trans., p. 1850, Art. IX.

Disturbances unaccompanied by Changes in the Mean Readings of the Magnetometers.—In Part I. (published in 1843) of the volume of "Observations on Days of Unusual Magnetic Disturbance," it was noticed that besides the disturbances which it was the object of that volume to record, characterized by changes in the mean readings of the magnetometers, the magnets were sometimes observed to be disturbed without any notable displacement in their mean position. Disturbances of this class manifest themselves by the magnets being perceived to vibrate in arcs sometimes of smaller and sometimes of larger extent, the vibration being maintained by a succession, at intervals, of slight shocks or impulses, by which, however, the *mean* readings of the magnetometer were not affected. The times of observation in 1841, at which disturbances of this particular character were noticed, were published in 1843, in the volume referred to; a continuation of the record for the years 1842, 1843, 1844, and 1845, will be found in pp. 550 to 557 of the present volume.



ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

METEOROLOGICAL INSTRUMENTS.



ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

METEOROLOGICAL INSTRUMENTS.

THE meteorological instruments remained in the situations described in Volume I. p. lxxiv. until the end of 1844, when, for the purpose of still further improving their position, the standard and wet thermometers were removed from the angle formed by the exterior wall of the principal room of the Observatory and that of one of the smaller apartments, to a situation prepared for them on the outside and near the middle of the north wall of the principal apartment. An opening made in the wall was fitted with a sliding glass window (through which the thermometers were read), having a wooden shutter on the Observatory side, which was kept closed except at times when observations were made. The thermometers were attached to horizontal strips of wood (leaving the balls perfectly free), about five feet above the ground, six inches on the outside of the wall, and two feet distant from the shutter, having the window intermediate. In this position they were protected by a double projecting roof, and by double enclosures on the east, west, and north sides (the Observatory wall being on the south side), of Venetian blind shutters, descending to within four feet of the ground. The length of the exterior shutter on the north side was 7 feet, and on the east and west sides 5 feet 4½ inches. The space between the exterior and interior roofs and shutters was from one to one and a-half feet. The slope of the blinds of shutters was such as to admit a free current of air, while it completely screened the thermometers from rain.

An accident having happened to the standard thermometer furnished by Newman, mentioned in Vol. I., one of two thermometers made by Adie of Liverpool under Dr. Apjohn's superintendence, which, agreeing remarkably well with each other, had been employed as wet and dry thermometers, was adopted as the standard, and was always used as such except from March to December 1845, and on some few other occasional instances, in all of which corrections carefully ascertained were applied to give the values which would have been read by Adie's standard. The record of the standard thermometer in Vols. I. and II., *i. e.*, from 1841 to December 1845, is therefore throughout according to the scale of this instrument, *viz.*, Adie No. 2.

Circumstances having led Captain Lefroy to doubt the perfect accuracy of the thermometer which had been thus employed as a standard, and the Observatory at Kew not having then undertaken, as it has since done, the construction of standard meteorological instruments, a thermometer was procured through the good offices of M. Regnault, which had been graduated under his superintendence in arbitrary divisions of perfectly equal *thermometric* value. The divisions corresponding to the freezing and boiling points 0° and 100° Centesimal, 32° and 212° Fahrenheit, had been found by the maker, Fastré of Paris, in a preliminary experiment, to be 115·7 and 617·7

The record of the wet thermometer in Vols. I. and II., from 1841 to December 1845, is in terms of the scale of Adie 2, and is consequently affected by the inaccuracies of that thermometer at different points of its scale. The mean monthly values of the wet thermometer in Table LV. of this volume, pp. cviii. to cxi., have been corrected for these inaccuracies, and are therefore true temperatures, and strictly comparable with the mean monthly values of the standard thermometer in Table LIII. pp. c. to ciii. The following Tables, LIII. to LVII., contain the monthly mean values of Fastré's standard thermometer, of the barometer, wet thermometer, and of the humidity and tension, from July 1842 to June 1848 inclusive :—

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LIII.—*Monthly Means of the Temperature for every hour of Mean*

| Mean Toronto Astronomical Time | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------|
| JANUARY. | 1843 | 30.9 | 31.4 | 31.6 | 31.5 | 31.1 | 30.1 | 29.2 | 28.9 | 28.9 | 28.9 | 28.7 |
| | 1844 | 21.9 | 22.5 | 23.1 | 23.1 | 22.9 | 22.1 | 21.3 | 20.8 | 20.4 | 20.4 | 20.0 |
| | 1845 | 29.0 | 29.3 | 29.6 | 29.5 | 28.8 | 27.7 | 26.9 | 26.5 | 25.8 | 25.4 | 24.9 |
| | 1846 | 28.5 | 29.3 | 29.6 | 29.8 | 29.4 | 28.7 | 28.1 | 27.4 | 27.3 | 26.9 | 26.3 |
| | 1847 | 25.9 | 26.2 | 26.1 | 25.5 | 24.9 | 23.8 | 23.1 | 22.5 | 22.2 | 22.1 | 22.0 |
| | 1848 | 30.8 | 31.3 | 31.6 | 32.0 | 31.2 | 29.9 | 28.8 | 28.1 | 27.7 | 27.4 | 26.9 |
| Hourly Means | 27.83 | 28.33 | 28.60 | 28.57 | 28.05 | 27.05 | 26.23 | 25.70 | 25.38 | 25.18 | 24.90 | |
| FEBRUARY. | 1843 | 19.0 | 20.0 | 20.5 | 20.5 | 20.0 | 19.0 | 17.5 | 16.1 | 15.3 | 14.2 | 13.4 |
| | 1844 | 30.4 | 31.5 | 32.1 | 32.5 | 31.7 | 30.5 | 28.4 | 27.5 | 26.4 | 25.7 | 25.0 |
| | 1845 | 29.3 | 29.5 | 30.0 | 29.7 | 29.3 | 28.2 | 27.4 | 27.1 | 26.3 | 26.3 | 26.3 |
| | 1846 | 26.2 | 26.7 | 27.0 | 27.0 | 26.3 | 25.2 | 23.8 | 22.8 | 21.7 | 20.7 | 20.4 |
| | 1847 | 26.1 | 27.5 | 27.7 | 27.7 | 27.1 | 25.8 | 24.8 | 23.7 | 23.0 | 22.6 | 21.6 |
| | 1848 | 31.4 | 32.4 | 32.7 | 32.5 | 32.2 | 30.7 | 28.8 | 27.6 | 27.0 | 26.3 | 25.8 |
| Hourly Means | 27.07 | 27.93 | 28.33 | 28.32 | 27.77 | 26.57 | 25.12 | 24.13 | 23.28 | 22.63 | 22.08 | |
| MARCH. | 1843 | 26.2 | 27.2 | 27.6 | 27.7 | 27.3 | 26.7 | 24.3 | 22.9 | 21.9 | 20.8 | 19.8 |
| | 1844 | 34.6 | 35.6 | 36.4 | 36.2 | 35.7 | 35.3 | 33.9 | 32.6 | 31.6 | 30.7 | 30.3 |
| | 1845 | 40.3 | 40.8 | 41.4 | 40.4 | 40.4 | 39.1 | 37.5 | 36.5 | 35.8 | 34.8 | 34.2 |
| | 1846 | 38.1 | 38.6 | 38.8 | 38.6 | 37.9 | 37.2 | 36.0 | 34.0 | 32.9 | 31.8 | 31.3 |
| | 1847 | 31.3 | 31.6 | 32.2 | 32.0 | 31.4 | 30.8 | 29.0 | 27.7 | 26.9 | 25.8 | 24.8 |
| | 1848 | 33.5 | 34.1 | 34.9 | 35.2 | 34.6 | 33.7 | 32.0 | 30.2 | 29.0 | 28.2 | 27.8 |
| Hourly Means | 34.00 | 34.65 | 35.22 | 35.02 | 34.55 | 33.80 | 32.12 | 30.65 | 29.68 | 28.68 | 28.03 | |
| APRIL. | 1843 | 45.4 | 46.2 | 47.0 | 47.1 | 47.4 | 46.8 | 44.4 | 41.7 | 40.7 | 39.8 | 38.8 |
| | 1844 | 53.2 | 55.4 | 56.1 | 56.6 | 55.7 | 55.5 | 53.2 | 49.9 | 46.5 | 45.0 | 43.9 |
| | 1845 | 46.6 | 47.1 | 47.3 | 47.5 | 46.9 | 46.3 | 44.7 | 42.7 | 41.7 | 40.5 | 39.8 |
| | 1846 | 49.0 | 50.1 | 50.6 | 50.5 | 50.1 | 48.7 | 47.1 | 44.6 | 42.9 | 41.8 | 41.4 |
| | 1847 | 44.9 | 45.2 | 45.3 | 45.2 | 44.8 | 43.8 | 41.7 | 39.4 | 38.5 | 37.6 | 36.8 |
| | 1848 | 46.1 | 46.8 | 46.8 | 46.6 | 46.3 | 45.7 | 44.9 | 42.5 | 41.0 | 40.1 | 39.5 |
| Hourly Means | 47.53 | 48.47 | 48.85 | 48.92 | 48.53 | 47.80 | 46.00 | 43.47 | 41.88 | 40.80 | 40.03 | |
| MAY. | 1843 | 54.0 | 55.5 | 56.0 | 57.0 | 57.6 | 57.4 | 54.9 | 51.4 | 48.1 | 46.2 | 45.0 |
| | 1844 | 59.9 | 61.4 | 61.5 | 61.4 | 61.4 | 61.9 | 59.6 | 56.0 | 53.6 | 52.0 | 50.9 |
| | 1845 | 56.3 | 57.0 | 57.5 | 57.6 | 57.8 | 57.3 | 56.1 | 53.1 | 50.1 | 47.3 | 45.9 |
| | 1846 | 60.8 | 61.7 | 62.1 | 61.9 | 61.9 | 61.2 | 60.2 | 57.9 | 55.0 | 53.0 | 52.7 |
| | 1847 | 61.0 | 61.4 | 62.1 | 61.9 | 61.2 | 60.6 | 58.9 | 56.3 | 54.8 | 53.2 | 52.4 |
| | 1848 | 60.8 | 61.3 | 61.2 | 61.0 | 60.6 | 59.8 | 58.0 | 55.8 | 53.6 | 52.0 | 51.0 |
| Hourly Means | 58.80 | 59.72 | 60.07 | 60.13 | 60.08 | 59.70 | 57.95 | 55.08 | 52.53 | 50.62 | 49.65 | |
| JUNE. | 1843 | 63.5 | 64.5 | 65.5 | 66.2 | 66.7 | 66.1 | 65.3 | 62.5 | 59.2 | 57.0 | 55.4 |
| | 1844 | 65.2 | 66.5 | 67.7 | 68.4 | 68.9 | 69.6 | 67.9 | 64.3 | 59.7 | 57.1 | 55.7 |
| | 1845 | 67.1 | 67.8 | 67.8 | 67.9 | 68.4 | 68.2 | 66.3 | 64.1 | 60.5 | 58.5 | 57.2 |
| | 1846 | 69.1 | 69.7 | 69.8 | 69.8 | 70.1 | 70.1 | 68.5 | 65.6 | 62.6 | 60.5 | 59.3 |
| | 1847 | 64.4 | 64.8 | 64.6 | 64.8 | 64.7 | 62.8 | 62.8 | 60.1 | 57.9 | 56.0 | 55.0 |
| | 1848 | 70.0 | 70.4 | 70.8 | 71.4 | 71.1 | 69.5 | 67.7 | 65.5 | 62.4 | 60.2 | 58.7 |
| Hourly Means | 66.55 | 67.28 | 67.70 | 68.08 | 68.32 | 67.72 | 66.42 | 63.68 | 60.38 | 58.22 | 56.88 | |

STANDARD THERMOMETER.

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Solar Time, from July 1842 to June 1848, inclusive.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|
| 28.3 | 26.7 | 26.4 | 26.6 | 26.3 | 26.4 | 26.5 | 26.4 | 26.2 | 26.5 | 27.4 | 28.6 | 30.2 | 28.49 |
| 19.5 | 19.2 | 18.1 | 17.8 | 17.7 | 17.7 | 17.4 | 17.9 | 17.7 | 18.0 | 18.8 | 19.5 | 20.8 | 19.94 |
| 24.6 | 24.2 | 24.1 | 24.2 | 24.0 | 23.9 | 23.7 | 25.6 | 25.1 | 25.3 | 25.9 | 27.2 | 28.1 | 26.22 |
| 25.8 | 25.4 | 24.8 | 24.0 | 23.8 | 23.3 | 23.0 | 23.6 | 23.8 | 24.0 | 25.0 | 26.7 | 27.8 | 26.35 |
| 22.1 | 22.1 | 21.5 | 21.7 | 21.5 | 21.5 | 21.3 | 21.8 | 22.0 | 22.1 | 23.2 | 24.6 | 25.5 | 23.13 |
| 26.6 | 25.2 | 25.1 | 25.2 | 25.3 | 25.2 | 25.0 | 26.0 | 25.9 | 26.2 | 27.6 | 28.7 | 29.9 | 27.82 |
| 24.48 | 23.80 | 23.33 | 23.25 | 23.10 | 23.00 | 22.82 | 23.55 | 23.45 | 23.68 | 24.65 | 25.88 | 27.05 | 25.32 |
| 12.7 | 12.4 | 12.1 | 11.9 | 11.9 | 11.6 | 11.0 | 10.6 | 10.4 | 11.4 | 13.3 | 15.5 | 17.5 | 14.91 |
| 24.8 | 26.4 | 26.3 | 26.2 | 25.9 | 25.7 | 25.3 | 23.7 | 23.3 | 24.0 | 25.7 | 27.4 | 29.1 | 27.31 |
| 26.6 | 27.0 | 26.6 | 26.1 | 25.2 | 24.8 | 24.3 | 23.2 | 23.0 | 23.9 | 25.7 | 27.1 | 28.1 | 26.71 |
| 19.4 | 18.1 | 17.6 | 17.2 | 16.1 | 15.6 | 15.0 | 15.0 | 15.7 | 16.8 | 20.5 | 23.2 | 24.8 | 20.95 |
| 20.7 | 20.1 | 20.0 | 19.6 | 19.7 | 19.6 | 19.3 | 19.3 | 18.7 | 19.8 | 21.6 | 23.6 | 25.3 | 22.70 |
| 25.2 | 24.7 | 23.8 | 23.4 | 23.0 | 22.7 | 23.0 | 22.7 | 22.6 | 23.9 | 26.8 | 28.9 | 30.4 | 27.02 |
| 21.57 | 21.45 | 21.07 | 20.73 | 20.30 | 20.00 | 19.65 | 19.08 | 18.95 | 19.97 | 22.27 | 24.28 | 25.87 | 23.27 |
| 18.9 | 18.8 | 18.2 | 17.9 | 17.6 | 17.3 | 16.9 | 16.6 | 17.2 | 19.3 | 21.2 | 23.5 | 25.0 | 21.70 |
| 30.1 | 30.2 | 29.5 | 28.9 | 28.4 | 28.1 | 27.8 | 28.1 | 28.4 | 29.3 | 31.1 | 32.5 | 33.5 | 31.62 |
| 33.4 | 33.6 | 33.1 | 32.7 | 32.4 | 31.9 | 31.9 | 30.9 | 32.1 | 34.3 | 36.4 | 38.1 | 39.1 | 35.88 |
| 30.8 | 30.8 | 30.8 | 30.6 | 30.4 | 29.8 | 29.7 | 29.1 | 30.5 | 32.7 | 35.4 | 36.9 | 37.8 | 33.77 |
| 24.0 | 24.3 | 23.8 | 23.4 | 22.9 | 22.5 | 21.8 | 21.7 | 22.3 | 24.6 | 26.9 | 28.7 | 30.4 | 26.70 |
| 27.1 | 26.3 | 25.7 | 25.3 | 25.4 | 25.2 | 24.8 | 23.6 | 24.7 | 26.9 | 29.1 | 30.8 | 32.1 | 29.18 |
| 27.38 | 27.33 | 26.85 | 26.47 | 26.18 | 25.80 | 25.48 | 25.00 | 25.87 | 27.85 | 30.02 | 31.75 | 32.98 | 29.81 |
| 38.3 | 38.4 | 37.4 | 37.0 | 36.5 | 36.2 | 35.8 | 35.9 | 37.3 | 39.3 | 40.8 | 42.5 | 44.0 | 41.03 |
| 43.7 | 43.6 | 42.9 | 42.3 | 41.4 | 41.1 | 40.8 | 40.1 | 42.8 | 45.6 | 48.1 | 50.0 | 51.6 | 47.71 |
| 39.8 | 38.9 | 38.4 | 37.5 | 37.3 | 37.1 | 37.0 | 38.0 | 39.7 | 41.4 | 43.6 | 44.9 | 46.0 | 42.11 |
| 40.8 | 40.4 | 40.7 | 39.7 | 38.8 | 38.8 | 38.6 | 38.5 | 41.4 | 43.6 | 45.2 | 46.7 | 48.2 | 44.09 |
| 36.2 | 36.9 | 36.4 | 36.0 | 35.7 | 35.4 | 35.1 | 34.8 | 36.9 | 39.0 | 41.2 | 42.4 | 43.9 | 39.71 |
| 38.4 | 38.0 | 37.3 | 36.7 | 35.8 | 35.3 | 34.4 | 35.2 | 38.1 | 40.8 | 42.7 | 44.2 | 45.3 | 41.19 |
| 39.53 | 39.37 | 38.85 | 38.20 | 37.58 | 37.32 | 36.95 | 37.08 | 39.37 | 41.62 | 43.60 | 45.12 | 46.50 | 42.64 |
| 44.2 | 44.5 | 43.9 | 43.0 | 42.5 | 42.1 | 42.2 | 44.5 | 47.1 | 48.5 | 50.8 | 52.1 | 53.4 | 49.25 |
| 49.9 | 48.2 | 47.5 | 47.0 | 46.3 | 45.8 | 45.9 | 48.0 | 50.2 | 52.3 | 54.6 | 56.5 | 58.2 | 53.75 |
| 44.9 | 44.7 | 43.7 | 42.8 | 41.7 | 41.5 | 41.4 | 44.6 | 47.4 | 49.7 | 52.0 | 54.4 | 55.5 | 50.01 |
| 51.9 | 50.6 | 49.9 | 48.8 | 48.5 | 48.1 | 48.3 | 50.7 | 53.8 | 55.9 | 58.0 | 59.3 | 59.9 | 55.50 |
| 51.1 | 49.9 | 49.3 | 48.4 | 47.7 | 47.1 | 47.1 | 48.5 | 52.4 | 55.2 | 57.5 | 59.2 | 60.3 | 54.90 |
| 50.4 | 49.4 | 47.8 | 47.1 | 46.1 | 45.4 | 45.4 | 48.7 | 52.0 | 54.6 | 57.2 | 58.8 | 59.8 | 54.07 |
| 48.73 | 47.88 | 47.02 | 46.18 | 45.47 | 45.00 | 45.05 | 47.50 | 50.48 | 52.70 | 55.02 | 56.72 | 57.85 | 52.91 |
| 54.1 | 53.8 | 52.9 | 52.1 | 51.4 | 50.7 | 50.9 | 52.7 | 55.5 | 56.9 | 58.7 | 60.5 | 61.8 | 58.50 |
| 54.7 | 54.0 | 53.1 | 53.0 | 52.3 | 52.1 | 52.2 | 54.0 | 56.4 | 58.8 | 60.9 | 62.7 | 64.0 | 59.97 |
| 56.1 | 56.3 | 55.1 | 54.2 | 53.2 | 52.4 | 52.3 | 55.9 | 58.8 | 61.0 | 62.6 | 64.6 | 65.9 | 60.93 |
| 58.6 | 58.4 | 57.9 | 57.2 | 56.4 | 55.9 | 56.0 | 58.8 | 61.7 | 63.9 | 66.1 | 67.5 | 68.5 | 63.42 |
| 54.3 | 54.0 | 53.4 | 52.4 | 51.8 | 51.0 | 51.4 | 54.0 | 56.7 | 58.9 | 60.9 | 62.3 | 63.7 | 58.44 |
| 57.7 | 56.7 | 55.7 | 55.0 | 54.1 | 53.7 | 54.1 | 57.4 | 60.6 | 64.2 | 65.8 | 67.4 | 68.8 | 62.87 |
| 55.92 | 55.53 | 54.68 | 53.98 | 53.20 | 52.63 | 52.82 | 55.47 | 58.28 | 60.62 | 62.50 | 64.17 | 65.45 | 60.69 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

Monthly Means of the Temperature for every hour of Mean

| Mean Toronto Astronomical Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------|
| JULY. | 1842 | 70.9 | 72.5 | 74.1 | 74.0 | 74.2 | 73.9 | 73.0 | 68.8 | 64.0 | 61.4 | 59.9 |
| | 1843 | 70.5 | 72.3 | 73.6 | 73.7 | 73.8 | 74.1 | 72.9 | 69.3 | 64.3 | 61.6 | 59.8 |
| | 1844 | 71.6 | 73.3 | 73.7 | 74.2 | 74.2 | 74.5 | 73.5 | 69.3 | 65.0 | 63.0 | 61.1 |
| | 1845 | 73.6 | 74.5 | 75.1 | 75.9 | 75.4 | 74.4 | 72.4 | 69.3 | 65.0 | 62.9 | 61.9 |
| | 1846 | 75.0 | 74.5 | 75.6 | 75.7 | 76.0 | 75.3 | 73.2 | 70.2 | 66.5 | 64.1 | 63.6 |
| | 1847 | 75.5 | 75.5 | 75.6 | 75.4 | 75.4 | 74.0 | 72.6 | 69.8 | 66.7 | 64.3 | 63.6 |
| Hourly Means | 72.85 | 73.77 | 74.62 | 74.82 | 74.83 | 74.37 | 72.93 | 69.45 | 65.25 | 62.88 | 61.65 | |
| AUGUST. | 1842 | 70.8 | 71.9 | 72.6 | 73.6 | 73.6 | 73.4 | 71.5 | 66.8 | 63.9 | 62.4 | 61.7 |
| | 1843 | 72.7 | 74.1 | 75.2 | 75.5 | 75.9 | 75.3 | 73.6 | 68.2 | 64.6 | 62.8 | 61.9 |
| | 1844 | 69.6 | 70.5 | 71.0 | 71.7 | 71.7 | 71.8 | 69.3 | 65.8 | 62.5 | 61.0 | 60.2 |
| | 1845 | 74.3 | 74.7 | 75.7 | 75.7 | 75.5 | 74.6 | 72.7 | 69.1 | 66.2 | 64.6 | 62.8 |
| | 1846 | 75.1 | 75.4 | 75.3 | 75.5 | 75.2 | 74.5 | 72.6 | 69.3 | 67.1 | 65.4 | 64.5 |
| | 1847 | 71.3 | 71.8 | 72.1 | 72.0 | 71.2 | 70.2 | 68.7 | 65.3 | 62.7 | 61.3 | 60.3 |
| Hourly Means | 72.30 | 73.07 | 73.65 | 74.00 | 73.85 | 73.30 | 71.40 | 67.42 | 64.50 | 62.92 | 61.90 | |
| SEPTEMBER. | 1842 | 60.9 | 61.7 | 62.3 | 62.9 | 62.6 | 62.0 | 58.4 | 55.5 | 54.3 | 53.0 | 51.8 |
| | 1843 | 64.0 | 65.2 | 65.7 | 65.8 | 65.6 | 64.6 | 61.3 | 58.6 | 57.4 | 56.5 | 55.4 |
| | 1844 | 65.1 | 66.2 | 66.7 | 66.7 | 66.9 | 66.3 | 62.2 | 58.6 | 56.5 | 55.4 | 54.4 |
| | 1845 | 61.3 | 61.9 | 62.2 | 62.2 | 61.9 | 60.4 | 58.7 | 56.1 | 54.9 | 53.8 | 52.6 |
| | 1846 | 68.8 | 68.7 | 69.2 | 68.9 | 68.5 | 67.4 | 65.9 | 63.9 | 62.8 | 61.6 | 60.6 |
| | 1847 | 61.0 | 61.0 | 61.0 | 60.8 | 60.5 | 59.5 | 57.7 | 55.3 | 54.4 | 53.8 | 52.9 |
| Hourly Means | 63.52 | 64.12 | 64.52 | 64.55 | 64.33 | 63.37 | 60.70 | 58.00 | 56.72 | 55.68 | 54.62 | |
| OCTOBER. | 1842 | 51.2 | 51.9 | 52.5 | 52.4 | 51.4 | 49.6 | 46.9 | 45.8 | 44.8 | 43.7 | 42.7 |
| | 1843 | 46.5 | 46.8 | 47.3 | 46.9 | 46.0 | 44.5 | 42.5 | 41.5 | 41.0 | 40.6 | 39.9 |
| | 1844 | 48.7 | 49.2 | 49.8 | 49.8 | 49.2 | 47.1 | 44.8 | 43.7 | 42.8 | 42.3 | 41.4 |
| | 1845 | 51.9 | 52.2 | 52.2 | 52.0 | 51.3 | 49.3 | 47.2 | 46.0 | 45.2 | 44.9 | 44.5 |
| | 1846 | 49.4 | 50.1 | 49.9 | 49.5 | 49.1 | 47.6 | 45.8 | 44.7 | 44.2 | 43.1 | 42.2 |
| | 1847 | 49.3 | 49.4 | 50.0 | 49.7 | 48.9 | 47.3 | 45.9 | 44.8 | 44.1 | 42.9 | 42.3 |
| Hourly Means | 49.50 | 49.93 | 50.28 | 50.05 | 49.32 | 47.57 | 45.52 | 44.42 | 43.68 | 42.92 | 42.17 | |
| NOVEMBER. | 1842 | 36.7 | 37.2 | 37.2 | 37.0 | 35.9 | 34.5 | 33.6 | 32.9 | 32.4 | 32.2 | 32.4 |
| | 1843 | 36.1 | 36.4 | 36.4 | 36.3 | 35.4 | 34.5 | 34.1 | 33.6 | 33.5 | 33.2 | 32.6 |
| | 1844 | 38.9 | 39.6 | 39.9 | 39.8 | 38.7 | 36.9 | 35.4 | 34.6 | 33.9 | 33.5 | 33.2 |
| | 1845 | 40.3 | 40.5 | 40.7 | 40.2 | 39.1 | 38.5 | 37.8 | 37.2 | 36.9 | 36.4 | 35.6 |
| | 1846 | 44.1 | 44.5 | 44.5 | 44.4 | 43.7 | 42.4 | 41.8 | 41.4 | 41.2 | 40.8 | 40.4 |
| | 1847 | 41.3 | 41.6 | 41.6 | 41.6 | 41.1 | 39.8 | 39.0 | 38.6 | 38.5 | 38.6 | 38.4 |
| Hourly Means | 39.57 | 39.97 | 40.05 | 39.88 | 38.98 | 37.77 | 36.95 | 36.38 | 36.07 | 35.78 | 35.43 | |
| DECEMBER. | 1842 | 27.9 | 28.6 | 29.0 | 28.8 | 27.9 | 26.9 | 26.3 | 25.7 | 25.3 | 25.1 | 24.3 |
| | 1843 | 33.1 | 33.3 | 33.3 | 33.0 | 32.2 | 31.4 | 31.0 | 30.6 | 30.2 | 29.9 | 29.8 |
| | 1844 | 31.6 | 32.2 | 32.3 | 31.7 | 30.9 | 30.0 | 29.2 | 29.0 | 28.4 | 28.1 | 27.5 |
| | 1845 | 24.2 | 24.9 | 25.3 | 25.3 | 24.7 | 23.4 | 22.6 | 22.2 | 21.8 | 21.6 | 21.7 |
| | 1846 | 30.1 | 30.9 | 31.4 | 31.4 | 30.9 | 30.0 | 29.1 | 29.0 | 28.7 | 28.4 | 28.1 |
| | 1847 | 32.7 | 33.1 | 33.3 | 33.1 | 32.8 | 32.0 | 31.3 | 31.0 | 30.8 | 30.6 | 30.5 |
| Hourly Means | 29.93 | 30.65 | 30.80 | 30.55 | 29.90 | 28.95 | 28.25 | 27.92 | 27.53 | 27.28 | 26.98 | |

STANDARD THERMOMETER.

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Solar Time, from July 1842 to June 1848, inclusive—continued.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|
| 58.7 | 57.5 | 56.5 | 56.0 | 55.3 | 54.6 | 54.7 | 57.1 | 60.6 | 63.6 | 65.5 | 67.2 | 69.1 | 64.30 |
| 58.3 | 57.1 | 56.3 | 55.9 | 55.4 | 54.4 | 54.0 | 57.3 | 60.9 | 62.8 | 64.8 | 66.9 | 68.6 | 64.11 |
| 60.4 | 58.8 | 58.2 | 57.8 | 57.2 | 57.0 | 56.7 | 59.9 | 63.0 | 65.2 | 67.1 | 68.6 | 70.8 | 65.59 |
| 60.7 | 59.9 | 58.3 | 57.5 | 56.9 | 56.2 | 56.4 | 59.8 | 63.7 | 66.5 | 69.1 | 70.6 | 72.5 | 66.19 |
| 61.9 | 61.2 | 61.9 | 60.3 | 59.3 | 58.9 | 59.0 | 62.5 | 66.6 | 69.2 | 71.3 | 73.1 | 73.8 | 67.82 |
| 62.8 | 62.2 | 61.2 | 60.6 | 59.7 | 58.9 | 58.9 | 62.4 | 66.2 | 69.3 | 72.0 | 73.6 | 74.5 | 67.95 |
| 60.47 | 59.45 | 58.58 | 58.02 | 57.30 | 56.67 | 56.62 | 59.83 | 63.50 | 66.10 | 68.30 | 70.00 | 71.55 | 65.99 |
| 60.9 | 60.4 | 59.8 | 59.2 | 58.7 | 58.4 | 58.8 | 58.4 | 61.1 | 63.7 | 66.2 | 68.4 | 69.9 | 65.25 |
| 60.8 | 60.0 | 59.7 | 58.7 | 58.0 | 57.3 | 56.8 | 58.0 | 61.2 | 64.6 | 67.7 | 69.8 | 71.5 | 66.00 |
| 59.5 | 58.6 | 58.0 | 57.5 | 56.9 | 56.7 | 56.5 | 57.4 | 59.9 | 62.4 | 64.6 | 66.7 | 68.4 | 63.68 |
| 62.0 | 61.2 | 60.5 | 60.0 | 59.2 | 58.8 | 58.6 | 60.4 | 64.8 | 68.0 | 70.5 | 72.1 | 73.9 | 67.33 |
| 63.9 | 62.6 | 61.7 | 61.0 | 60.3 | 60.1 | 59.9 | 61.2 | 64.8 | 68.5 | 70.9 | 72.9 | 74.0 | 67.99 |
| 59.5 | 59.0 | 58.2 | 57.4 | 56.7 | 56.2 | 55.8 | 57.7 | 61.1 | 65.3 | 67.6 | 69.5 | 70.4 | 64.22 |
| 61.10 | 60.30 | 59.65 | 58.97 | 58.30 | 57.92 | 57.73 | 58.85 | 62.15 | 65.42 | 67.92 | 69.90 | 71.35 | 65.74 |
| 51.5 | 51.9 | 51.3 | 50.8 | 50.7 | 50.1 | 49.1 | 49.1 | 50.9 | 53.7 | 56.1 | 58.0 | 59.6 | 55.34 |
| 54.6 | 54.6 | 54.2 | 53.8 | 53.5 | 53.4 | 52.7 | 53.1 | 55.2 | 57.0 | 59.1 | 60.9 | 62.5 | 58.53 |
| 53.3 | 52.8 | 52.0 | 51.3 | 50.9 | 49.9 | 49.2 | 51.0 | 53.7 | 57.1 | 59.8 | 62.1 | 63.9 | 58.00 |
| 52.3 | 51.4 | 50.7 | 49.8 | 49.5 | 48.5 | 47.9 | 48.7 | 52.3 | 55.0 | 57.6 | 59.6 | 60.8 | 55.42 |
| 60.1 | 59.7 | 59.1 | 58.6 | 57.4 | 56.8 | 56.3 | 56.7 | 59.5 | 62.3 | 64.8 | 66.6 | 68.2 | 63.02 |
| 52.1 | 51.4 | 50.8 | 50.3 | 49.8 | 49.6 | 49.3 | 50.0 | 52.3 | 55.3 | 57.5 | 59.5 | 60.3 | 55.25 |
| 53.98 | 53.63 | 53.02 | 52.43 | 51.97 | 51.38 | 50.75 | 51.43 | 53.98 | 56.73 | 59.15 | 61.12 | 62.55 | 57.59 |
| 42.0 | 41.3 | 40.7 | 40.4 | 40.0 | 39.7 | 39.3 | 39.6 | 40.5 | 43.0 | 45.9 | 48.0 | 49.8 | 45.13 |
| 39.1 | 38.3 | 38.3 | 37.8 | 37.8 | 37.4 | 37.2 | 37.9 | 38.5 | 40.0 | 42.7 | 44.6 | 45.7 | 41.62 |
| 40.5 | 40.3 | 38.9 | 39.0 | 38.9 | 38.4 | 38.2 | 38.3 | 39.2 | 41.7 | 44.1 | 45.9 | 47.5 | 43.32 |
| 44.4 | 42.5 | 42.0 | 41.6 | 41.4 | 41.1 | 41.1 | 41.5 | 42.0 | 44.7 | 47.8 | 49.8 | 51.1 | 46.15 |
| 41.7 | 42.5 | 41.8 | 41.5 | 41.2 | 41.1 | 40.8 | 40.9 | 41.5 | 43.7 | 45.9 | 47.8 | 49.0 | 44.79 |
| 41.3 | 40.8 | 40.4 | 39.9 | 39.9 | 39.7 | 39.8 | 39.5 | 40.5 | 42.6 | 45.4 | 47.3 | 48.5 | 44.17 |
| 41.50 | 40.95 | 40.35 | 40.03 | 39.87 | 39.57 | 39.40 | 39.62 | 40.37 | 42.62 | 45.30 | 47.23 | 48.60 | 44.20 |
| 32.1 | 31.4 | 31.3 | 31.1 | 30.6 | 30.6 | 31.2 | 30.7 | 30.7 | 32.0 | 33.5 | 34.9 | 36.1 | 33.26 |
| 32.2 | 31.4 | 31.0 | 30.8 | 30.7 | 30.6 | 30.3 | 30.5 | 30.8 | 31.7 | 33.1 | 34.4 | 35.4 | 33.13 |
| 32.6 | 32.8 | 32.4 | 32.3 | 31.6 | 31.4 | 32.1 | 31.7 | 31.6 | 32.9 | 34.8 | 36.9 | 37.4 | 34.79 |
| 35.4 | 34.1 | 33.8 | 33.7 | 33.7 | 33.4 | 33.3 | 34.2 | 34.3 | 35.1 | 36.9 | 38.1 | 39.5 | 36.61 |
| 40.1 | 39.1 | 38.8 | 38.5 | 38.2 | 38.2 | 38.0 | 39.0 | 38.9 | 39.7 | 40.8 | 42.3 | 43.5 | 41.01 |
| 38.1 | 37.7 | 37.3 | 36.7 | 36.4 | 36.0 | 36.0 | 36.4 | 36.2 | 37.4 | 38.9 | 40.0 | 40.8 | 38.67 |
| 35.08 | 34.42 | 34.13 | 33.85 | 33.53 | 33.37 | 33.48 | 33.75 | 33.75 | 34.80 | 36.33 | 37.77 | 38.78 | 36.24 |
| 24.3 | 23.8 | 23.6 | 23.0 | 22.8 | 22.8 | 23.0 | 23.1 | 22.5 | 23.0 | 24.1 | 25.8 | 27.1 | 25.20 |
| 29.3 | 29.9 | 29.4 | 29.5 | 29.4 | 29.3 | 28.8 | 29.0 | 29.0 | 29.5 | 30.1 | 31.3 | 32.5 | 30.62 |
| 27.5 | 27.5 | 26.3 | 26.4 | 26.1 | 26.2 | 26.7 | 26.4 | 26.4 | 27.1 | 28.4 | 29.7 | 30.8 | 28.60 |
| 21.6 | 21.0 | 20.1 | 19.2 | 19.0 | 19.1 | 19.1 | 18.2 | 18.4 | 18.8 | 20.5 | 22.2 | 23.5 | 21.60 |
| 28.0 | 27.4 | 26.8 | 26.2 | 26.2 | 26.0 | 25.7 | 24.8 | 24.4 | 24.7 | 26.0 | 27.5 | 29.1 | 27.95 |
| 30.5 | 29.6 | 29.5 | 29.2 | 29.2 | 29.1 | 29.1 | 28.4 | 28.2 | 28.4 | 29.5 | 30.8 | 31.7 | 30.60 |
| 26.87 | 26.53 | 25.95 | 25.58 | 25.45 | 25.42 | 25.40 | 24.98 | 24.82 | 25.25 | 26.43 | 27.88 | 29.12 | 27.43 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LIV.—*Monthly Means of the Barometer at every Hour of Mean*

Barometer at 32° = 27 English

| Mean Toronto Astronomical Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------|
| JANUARY. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | 1843 | 2·588 | 2·573 | 2·567 | 2·569 | 2·581 | 2·584 | 2·589 | 2·596 | 2·596 | 2·593 | 2·594 |
| | 1844 | 2·614 | 2·602 | 2·602 | 2·608 | 2·610 | 2·616 | 2·626 | 2·626 | 2·625 | 2·622 | 2·614 |
| | 1845 | 2·604 | 2·596 | 2·595 | 2·604 | 2·609 | 2·616 | 2·624 | 2·632 | 2·638 | 2·644 | 2·647 |
| | 1846 | 2·619 | 2·599 | 2·593 | 2·596 | 2·594 | 2·601 | 2·609 | 2·611 | 2·611 | 2·614 | 2·610 |
| | 1847 | 2·584 | 2·572 | 2·576 | 2·589 | 2·594 | 2·598 | 2·604 | 2·607 | 2·601 | 2·596 | 2·597 |
| | 1848 | 2·651 | 2·633 | 2·626 | 2·630 | 2·637 | 2·646 | 2·654 | 2·661 | 2·668 | 2·667 | 2·665 |
| Hourly Means | 2·610 | 2·596 | 2·593 | 2·599 | 2·604 | 2·610 | 2·618 | 2·622 | 2·623 | 2·623 | 2·621 | |
| FEBRUARY. | 1843 | 2·559 | 2·539 | 2·533 | 2·536 | 2·540 | 2·551 | 2·563 | 2·571 | 2·570 | 2·576 | 2·573 |
| | 1844 | 2·671 | 2·656 | 2·645 | 2·647 | 2·649 | 2·653 | 2·663 | 2·671 | 2·674 | 2·676 | 2·675 |
| | 1845 | 2·597 | 2·579 | 2·570 | 2·567 | 2·562 | 2·565 | 2·565 | 2·570 | 2·567 | 2·562 | 2·557 |
| | 1846 | 2·672 | 2·654 | 2·640 | 2·634 | 2·631 | 2·630 | 2·635 | 2·647 | 2·650 | 2·652 | 2·652 |
| | 1847 | 2·627 | 2·612 | 2·604 | 2·606 | 2·609 | 2·612 | 2·619 | 2·624 | 2·628 | 2·631 | 2·637 |
| | 1848 | 2·612 | 2·597 | 2·584 | 2·585 | 2·586 | 2·590 | 2·595 | 2·603 | 2·608 | 2·610 | 2·609 |
| | Hourly Means | 2·623 | 2·606 | 2·596 | 2·596 | 2·596 | 2·600 | 2·607 | 2·614 | 2·616 | 2·618 | 2·617 |
| MARCH. | 1843 | 2·556 | 2·539 | 2·533 | 2·529 | 2·528 | 2·536 | 2·542 | 2·550 | 2·559 | 2·562 | 2·564 |
| | 1844 | 5·660 | 2·647 | 2·634 | 2·626 | 2·629 | 2·632 | 2·638 | 2·644 | 2·653 | 2·659 | 2·660 |
| | 1845 | 2·606 | 2·597 | 2·590 | 2·594 | 2·595 | 2·598 | 2·604 | 2·612 | 2·616 | 2·620 | 2·616 |
| | 1846 | 2·615 | 2·598 | 2·581 | 2·575 | 2·570 | 2·579 | 2·582 | 2·589 | 2·596 | 2·599 | 2·597 |
| | 1847 | 2·683 | 2·671 | 2·662 | 2·661 | 2·660 | 2·665 | 2·670 | 2·671 | 2·677 | 2·685 | 2·685 |
| | 1848 | 2·662 | 2·641 | 2·626 | 2·615 | 2·617 | 2·617 | 2·619 | 2·627 | 2·630 | 2·634 | 2·635 |
| | Hourly Means | 2·630 | 2·616 | 2·604 | 2·600 | 2·600 | 2·605 | 2·609 | 2·615 | 2·622 | 2·627 | 2·626 |
| APRIL. | 1843 | 2·612 | 2·605 | 2·592 | 2·584 | 2·580 | 2·582 | 2·586 | 2·590 | 2·594 | 2·597 | 2·593 |
| | 1844 | 2·579 | 2·748 | 2·735 | 2·722 | 2·715 | 2·716 | 2·711 | 2·711 | 2·721 | 2·723 | 2·724 |
| | 1845 | 2·607 | 2·604 | 2·594 | 2·589 | 2·590 | 2·591 | 2·592 | 2·591 | 2·601 | 2·602 | 2·595 |
| | 1846 | 2·724 | 2·713 | 2·701 | 2·688 | 2·682 | 2·686 | 2·680 | 2·682 | 2·691 | 2·690 | 2·687 |
| | 1847 | 2·591 | 2·583 | 2·568 | 2·561 | 2·556 | 2·562 | 2·569 | 2·569 | 2·581 | 2·579 | 2·575 |
| | 1848 | 2·749 | 2·742 | 2·732 | 2·721 | 2·716 | 2·714 | 2·713 | 2·717 | 2·725 | 2·727 | 2·728 |
| | Hourly Means | 2·674 | 2·666 | 2·654 | 2·644 | 2·640 | 2·642 | 2·642 | 2·643 | 2·652 | 2·653 | 2·650 |
| MAY. | 1843 | 2·616 | 2·606 | 2·600 | 2·592 | 2·593 | 3·595 | 2·599 | 2·603 | 2·616 | 2·624 | 2·627 |
| | 1844 | 2·556 | 2·550 | 2·547 | 2·538 | 2·524 | 2·520 | 2·519 | 2·522 | 2·536 | 2·546 | 2·554 |
| | 1845 | 2·646 | 2·637 | 2·623 | 2·612 | 2·605 | 2·602 | 2·604 | 2·609 | 2·620 | 2·633 | 2·636 |
| | 1846 | 2·516 | 2·510 | 2·502 | 2·492 | 2·491 | 2·491 | 2·491 | 2·496 | 2·500 | 2·506 | 2·501 |
| | 1847 | 2·602 | 2·587 | 2·576 | 2·566 | 2·560 | 2·555 | 2·557 | 2·559 | 2·566 | 2·575 | 2·580 |
| | 1848 | 2·501 | 2·490 | 2·480 | 2·473 | 2·467 | 2·465 | 2·470 | 2·474 | 2·482 | 2·489 | 2·492 |
| | Hourly Means | 2·573 | 2·563 | 2·555 | 2·546 | 2·540 | 2·538 | 2·540 | 2·544 | 2·553 | 2·562 | 2·565 |
| JUNE. | 1843 | 2·569 | 2·558 | 2·551 | 2·541 | 2·530 | 2·526 | 2·526 | 2·528 | 2·533 | 2·542 | 2·542 |
| | 1844 | 2·622 | 2·609 | 2·603 | 2·598 | 2·590 | 2·587 | 2·589 | 2·594 | 2·599 | 2·611 | 2·614 |
| | 1845 | 2·616 | 2·609 | 2·602 | 2·594 | 2·588 | 2·582 | 2·579 | 2·579 | 2·580 | 2·589 | 2·593 |
| | 1846 | 2·606 | 2·599 | 2·587 | 2·579 | 2·575 | 2·565 | 2·567 | 2·570 | 2·573 | 2·587 | 2·587 |
| | 1847 | 2·574 | 2·566 | 2·562 | 2·557 | 2·554 | 2·548 | 2·547 | 2·549 | 2·553 | 2·564 | 2·567 |
| | 1848 | 2·553 | 2·540 | 2·528 | 2·518 | 2·510 | 2·510 | 2·511 | 2·518 | 2·522 | 2·530 | 2·532 |
| | Hourly Means | 2·590 | 2·580 | 2·572 | 2·565 | 2·558 | 2·553 | 2·553 | 2·556 | 2·560 | 2·571 | 2·573 |

BAROMETRIC PRESSURE.

CV

Solar Time from July 1842 to June 1848, inclusive.

inches + the numbers in the Table.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| 2.597 | 2.602 | 2.600 | 2.602 | 2.597 | 2.589 | 2.587 | 2.611 | 2.611 | 2.622 | 2.625 | 2.624 | 2.610 | 2.596 |
| 2.608 | 2.585 | 2.599 | 2.606 | 2.607 | 2.601 | 2.592 | 2.594 | 2.604 | 2.623 | 2.631 | 2.636 | 2.630 | 2.612 |
| 2.645 | 2.637 | 2.632 | 2.636 | 2.636 | 2.629 | 2.625 | 2.608 | 2.613 | 2.625 | 2.631 | 2.636 | 2.624 | 2.624 |
| 2.608 | 2.618 | 2.616 | 2.625 | 2.628 | 2.626 | 2.621 | 2.620 | 2.627 | 2.636 | 2.645 | 2.649 | 2.638 | 2.617 |
| 2.597 | 2.584 | 2.591 | 2.596 | 2.595 | 2.590 | 2.581 | 2.593 | 2.595 | 2.608 | 2.617 | 2.618 | 2.605 | 2.595 |
| 2.661 | 2.683 | 2.682 | 2.684 | 2.677 | 2.668 | 2.670 | 2.678 | 2.682 | 2.688 | 2.696 | 2.694 | 2.681 | 2.666 |
| 2.619 | 2.618 | 2.620 | 2.625 | 2.623 | 2.617 | 2.613 | 2.617 | 2.622 | 2.634 | 2.641 | 2.643 | 2.631 | 2.618 |
| 2.570 | 2.545 | 2.546 | 2.551 | 2.552 | 2.554 | 2.553 | 2.533 | 2.548 | 2.572 | 2.576 | 2.576 | 2.573 | 2.557 |
| 2.675 | 2.642 | 2.640 | 2.639 | 2.638 | 2.638 | 2.637 | 2.654 | 2.668 | 2.683 | 2.687 | 2.688 | 2.684 | 2.660 |
| 2.551 | 2.548 | 2.551 | 2.553 | 2.549 | 2.556 | 2.560 | 2.599 | 2.605 | 2.614 | 2.620 | 2.615 | 2.613 | 2.575 |
| 2.649 | 2.677 | 2.674 | 2.674 | 2.673 | 2.666 | 2.667 | 2.669 | 2.678 | 2.690 | 2.693 | 2.693 | 2.689 | 2.662 |
| 2.630 | 2.596 | 2.595 | 2.598 | 2.603 | 2.605 | 2.608 | 2.619 | 2.630 | 2.642 | 2.653 | 2.652 | 2.647 | 2.620 |
| 2.609 | 2.604 | 2.608 | 2.611 | 2.611 | 2.612 | 2.619 | 2.608 | 2.620 | 2.629 | 2.634 | 2.633 | 2.627 | 2.609 |
| 2.614 | 2.602 | 2.602 | 2.604 | 2.604 | 2.605 | 2.607 | 2.614 | 2.625 | 2.638 | 2.644 | 2.643 | 2.639 | 2.614 |
| 2.563 | 2.571 | 2.569 | 2.567 | 2.563 | 2.563 | 2.563 | 2.568 | 2.574 | 2.578 | 2.576 | 2.574 | 2.566 | 2.558 |
| 2.659 | 2.653 | 2.656 | 2.651 | 2.651 | 2.655 | 2.659 | 2.648 | 2.662 | 2.670 | 2.673 | 2.675 | 2.670 | 2.653 |
| 2.612 | 2.552 | 2.549 | 2.556 | 2.549 | 2.552 | 2.565 | 2.583 | 2.597 | 2.607 | 2.613 | 2.615 | 2.613 | 2.592 |
| 2.596 | 2.612 | 2.616 | 2.611 | 2.603 | 2.603 | 2.599 | 2.614 | 2.624 | 2.628 | 2.628 | 2.628 | 2.623 | 2.603 |
| 2.688 | 2.679 | 2.676 | 2.672 | 2.666 | 2.670 | 2.678 | 2.668 | 2.681 | 2.686 | 2.689 | 2.689 | 2.685 | 2.676 |
| 2.638 | 2.645 | 2.650 | 2.649 | 2.647 | 2.636 | 2.657 | 2.676 | 2.686 | 2.690 | 2.689 | 2.682 | 2.673 | 2.648 |
| 2.626 | 2.619 | 2.619 | 2.618 | 2.613 | 2.613 | 2.620 | 2.626 | 2.637 | 2.643 | 2.645 | 2.644 | 2.638 | 2.622 |
| 2.589 | 2.586 | 2.578 | 2.573 | 2.575 | 2.582 | 2.590 | 2.617 | 2.630 | 2.635 | 2.636 | 2.633 | 2.624 | 2.598 |
| 2.725 | 2.727 | 2.721 | 2.720 | 2.721 | 2.718 | 2.722 | 2.771 | 2.777 | 2.782 | 2.781 | 2.780 | 2.770 | 2.738 |
| 2.592 | 2.595 | 2.593 | 2.594 | 2.590 | 2.593 | 2.599 | 2.594 | 2.610 | 2.617 | 2.617 | 2.617 | 2.614 | 2.599 |
| 2.684 | 2.682 | 2.666 | 2.675 | 2.676 | 2.677 | 2.687 | 2.733 | 2.747 | 2.752 | 2.752 | 2.748 | 2.737 | 2.702 |
| 2.569 | 2.563 | 2.556 | 2.548 | 2.546 | 2.543 | 2.551 | 2.581 | 2.594 | 2.601 | 2.605 | 2.607 | 2.600 | 2.573 |
| 2.727 | 2.708 | 2.707 | 2.708 | 2.714 | 2.717 | 2.726 | 2.740 | 2.754 | 2.764 | 2.768 | 2.766 | 2.762 | 2.731 |
| 2.648 | 2.644 | 2.637 | 2.636 | 2.637 | 2.638 | 2.646 | 2.673 | 2.685 | 2.692 | 2.693 | 2.692 | 2.685 | 2.657 |
| 2.628 | 2.611 | 2.607 | 2.605 | 2.608 | 2.615 | 2.629 | 2.626 | 2.634 | 2.633 | 2.633 | 2.633 | 2.626 | 2.615 |
| 2.554 | 2.551 | 2.547 | 2.543 | 2.547 | 2.550 | 2.558 | 2.563 | 2.573 | 2.577 | 2.574 | 2.576 | 2.566 | 2.550 |
| 2.641 | 2.617 | 2.628 | 2.632 | 2.637 | 2.631 | 2.649 | 2.659 | 2.665 | 2.668 | 2.670 | 2.668 | 2.661 | 2.636 |
| 2.502 | 2.511 | 2.506 | 2.503 | 2.500 | 2.500 | 2.511 | 2.515 | 2.520 | 2.525 | 2.525 | 2.525 | 2.522 | 2.507 |
| 2.581 | 2.584 | 2.574 | 2.571 | 2.572 | 2.576 | 2.587 | 2.609 | 2.616 | 2.618 | 2.614 | 2.616 | 2.610 | 2.584 |
| 2.490 | 2.496 | 2.497 | 2.496 | 2.496 | 2.501 | 2.510 | 2.522 | 2.528 | 2.529 | 2.524 | 2.519 | 2.513 | 2.496 |
| 2.566 | 2.562 | 2.560 | 2.558 | 2.560 | 2.562 | 2.574 | 2.582 | 2.589 | 2.592 | 2.590 | 2.590 | 2.583 | 2.565 |
| 2.543 | 2.546 | 2.540 | 2.539 | 2.542 | 2.549 | 2.561 | 2.572 | 2.581 | 2.585 | 2.582 | 2.584 | 2.579 | 2.552 |
| 2.618 | 2.603 | 2.600 | 2.600 | 2.599 | 2.603 | 2.610 | 2.624 | 2.631 | 2.633 | 2.632 | 2.629 | 2.625 | 2.609 |
| 2.595 | 2.572 | 2.572 | 2.573 | 2.577 | 2.586 | 2.602 | 2.617 | 2.625 | 2.630 | 2.631 | 2.629 | 2.626 | 2.598 |
| 2.587 | 2.594 | 2.592 | 2.589 | 2.587 | 2.593 | 2.609 | 2.613 | 2.619 | 2.622 | 2.621 | 2.620 | 2.614 | 2.594 |
| 2.570 | 2.551 | 2.547 | 2.546 | 2.548 | 2.553 | 2.568 | 2.569 | 2.576 | 2.581 | 2.580 | 2.581 | 2.578 | 2.562 |
| 2.534 | 2.543 | 2.544 | 2.545 | 2.545 | 2.548 | 2.560 | 2.575 | 2.579 | 2.581 | 2.579 | 2.575 | 2.565 | 2.544 |
| 2.575 | 2.568 | 2.566 | 2.565 | 2.566 | 2.572 | 2.585 | 2.595 | 2.602 | 2.605 | 2.604 | 2.603 | 2.598 | 2.577 |

Monthly Means of the Barometer at every Hour of Mean

Barometer at 32° = 27 English

| Mean Toronto Astron. Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------|
| JULY. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | 1842 | 2·670 | 2·661 | 2·651 | 2·642 | 2·633 | 2·627 | 2·632 | 2·634 | 2·637 | 2·648 | 2·648 |
| | 1843 | 2·630 | 2·621 | 2·612 | 2·601 | 2·596 | 2·591 | 2·598 | 2·602 | 2·609 | 2·622 | 2·625 |
| | 1844 | 2·546 | 2·541 | 2·531 | 2·528 | 2·520 | 2·514 | 2·512 | 2·515 | 2·520 | 2·530 | 2·531 |
| | 1845 | 2·518 | 2·511 | 2·503 | 2·497 | 2·490 | 2·484 | 2·488 | 2·492 | 2·497 | 2·508 | 2·509 |
| | 1846 | 2·597 | 2·585 | 2·577 | 2·571 | 2·568 | 2·559 | 2·560 | 2·563 | 2·569 | 2·585 | 2·587 |
| | 1847 | 2·653 | 2·641 | 2·631 | 2·619 | 2·614 | 2·608 | 2·609 | 2·607 | 2·613 | 2·620 | 2·625 |
| Hourly Means | 2·602 | 2·593 | 2·584 | 2·576 | 2·570 | 2·564 | 2·567 | 2·569 | 2·574 | 2·586 | 2·588 | |
| AUGUST. | 1842 | 2·732 | 2·724 | 2·714 | 2·702 | 2·697 | 2·693 | 2·692 | 2·693 | 2·701 | 2·703 | 2·703 |
| | 1843 | 2·697 | 2·689 | 2·678 | 2·670 | 2·664 | 2·659 | 2·660 | 2·665 | 2·674 | 2·678 | 2·678 |
| | 1844 | 2·535 | 2·529 | 2·518 | 2·511 | 2·509 | 2·510 | 2·515 | 2·521 | 2·528 | 2·534 | 2·533 |
| | 1845 | 2·652 | 2·642 | 2·631 | 2·618 | 2·614 | 2·610 | 2·612 | 2·614 | 2·625 | 2·635 | 2·636 |
| | 1846 | 2·660 | 2·648 | 2·639 | 2·624 | 2·617 | 2·613 | 2·611 | 2·608 | 2·616 | 2·626 | 2·628 |
| | 1847 | 2·649 | 2·644 | 2·631 | 2·621 | 2·617 | 2·616 | 2·615 | 2·614 | 2·621 | 2·623 | 2·622 |
| | Hourly Means | 2·654 | 2·646 | 2·635 | 2·624 | 2·620 | 2·617 | 2·618 | 2·619 | 2·628 | 2·633 | 2·633 |
| SEPTEMBER. | 1842 | 2·683 | 2·674 | 2·663 | 2·655 | 2·648 | 2·648 | 2·651 | 2·653 | 2·659 | 2·659 | 2·657 |
| | 1843 | 2·702 | 2·692 | 2·682 | 2·674 | 2·672 | 2·674 | 2·675 | 2·684 | 2·691 | 2·696 | 2·695 |
| | 1844 | 2·735 | 2·725 | 2·715 | 2·707 | 2·703 | 2·707 | 2·710 | 2·719 | 2·729 | 2·734 | 2·734 |
| | 1845 | 2·567 | 2·554 | 2·542 | 2·532 | 2·533 | 2·536 | 2·536 | 2·542 | 2·550 | 2·551 | 2·549 |
| | 1846 | 2·641 | 2·630 | 2·609 | 2·601 | 2·596 | 2·592 | 2·590 | 2·596 | 2·608 | 2·601 | 2·609 |
| | 1847 | 2·624 | 2·616 | 2·606 | 2·597 | 2·595 | 2·594 | 2·596 | 2·599 | 2·607 | 2·611 | 2·615 |
| | Hourly Means | 2·659 | 2·649 | 2·636 | 2·628 | 2·625 | 2·625 | 2·626 | 2·632 | 2·641 | 2·642 | 2·643 |
| OCTOBER. | 1842 | 2·632 | 2·622 | 2·614 | 2·608 | 2·602 | 2·614 | 2·620 | 2·625 | 2·630 | 2·632 | 2·632 |
| | 1843 | 2·535 | 2·530 | 2·526 | 2·526 | 2·531 | 2·537 | 2·541 | 2·547 | 2·555 | 2·558 | 2·559 |
| | 1844 | 2·641 | 2·625 | 2·620 | 2·618 | 2·620 | 2·624 | 2·628 | 2·631 | 2·632 | 2·632 | 2·631 |
| | 1845 | 2·812 | 2·796 | 2·783 | 2·779 | 2·776 | 2·772 | 2·774 | 2·775 | 2·775 | 2·772 | 2·769 |
| | 1846 | 2·688 | 2·673 | 2·667 | 2·671 | 2·672 | 2·674 | 2·685 | 2·695 | 2·703 | 2·712 | 2·721 |
| | 1847 | 2·687 | 2·670 | 2·659 | 2·658 | 2·658 | 2·659 | 2·661 | 2·664 | 2·666 | 2·674 | 2·680 |
| | Hourly Means | 2·666 | 2·653 | 2·645 | 2·643 | 2·643 | 2·647 | 2·652 | 2·656 | 2·660 | 2·663 | 2·665 |
| NOVEMBER. | 1842 | 2·612 | 2·598 | 2·596 | 2·598 | 2·599 | 2·601 | 2·605 | 2·605 | 2·606 | 2·606 | 2·606 |
| | 1843 | 2·666 | 2·655 | 2·650 | 2·652 | 2·656 | 2·658 | 2·666 | 2·667 | 2·669 | 2·671 | 2·670 |
| | 1844 | 2·603 | 2·586 | 2·579 | 2·579 | 2·584 | 2·591 | 2·599 | 2·606 | 2·610 | 2·615 | 2·615 |
| | 1845 | 2·503 | 2·493 | 2·487 | 2·492 | 2·495 | 2·507 | 2·513 | 2·511 | 2·510 | 2·503 | 2·504 |
| | 1846 | 2·679 | 2·671 | 2·658 | 2·658 | 2·658 | 2·660 | 2·661 | 2·663 | 2·658 | 2·658 | 2·655 |
| | 1847 | 2·695 | 2·687 | 2·678 | 2·678 | 2·680 | 2·679 | 2·680 | 2·682 | 2·680 | 2·678 | 2·674 |
| | Hourly Means | 2·626 | 2·615 | 2·608 | 2·610 | 2·612 | 2·616 | 2·621 | 2·622 | 2·622 | 2·622 | 2·621 |
| DECEMBER. | 1842 | 2·642 | 2·628 | 2·623 | 2·629 | 2·636 | 2·634 | 2·639 | 2·645 | 2·643 | 2·643 | 2·647 |
| | 1843 | 2·660 | 2·648 | 2·643 | 2·645 | 2·653 | 2·657 | 2·665 | 2·673 | 2·673 | 2·671 | 2·670 |
| | 1844 | 2·539 | 2·526 | 2·521 | 2·526 | 2·534 | 2·538 | 2·542 | 2·546 | 2·549 | 2·551 | 2·558 |
| | 1845 | 2·693 | 2·680 | 2·669 | 2·673 | 2·680 | 2·682 | 2·691 | 2·695 | 2·695 | 2·693 | 2·695 |
| | 1846 | 2·646 | 2·641 | 2·633 | 2·638 | 2·639 | 2·639 | 2·642 | 2·642 | 2·637 | 2·632 | 2·626 |
| | 1847 | 2·658 | 2·643 | 2·637 | 2·640 | 2·649 | 2·651 | 2·658 | 2·662 | 2·658 | 2·655 | 2·647 |
| | Hourly Means | 2·640 | 2·628 | 2·621 | 2·625 | 2·632 | 2·634 | 2·640 | 2·644 | 2·643 | 2·641 | 2·641 |

BAROMETRIC PRESSURE.

cvi

Solar Time from July 1842 to June 1848, inclusive—continued.

inches + the numbers in the Table.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| 2.647 | 2.660 | 2.656 | 2.650 | 2.651 | 2.654 | 2.667 | 2.667 | 2.673 | 2.678 | 2.679 | 2.679 | 2.676 | 2.655 |
| 2.627 | 2.619 | 2.616 | 2.615 | 2.615 | 2.623 | 2.633 | 2.633 | 2.640 | 2.645 | 2.642 | 2.638 | 2.635 | 2.620 |
| 2.538 | 2.541 | 2.537 | 2.535 | 2.531 | 2.536 | 2.543 | 2.551 | 2.556 | 2.559 | 2.558 | 2.555 | 2.553 | 2.537 |
| 2.511 | 2.499 | 2.502 | 2.503 | 2.502 | 2.504 | 2.516 | 2.518 | 2.526 | 2.530 | 2.532 | 2.531 | 2.527 | 2.508 |
| 2.589 | 2.578 | 2.578 | 2.577 | 2.577 | 2.583 | 2.594 | 2.600 | 2.607 | 2.609 | 2.608 | 2.608 | 2.604 | 2.585 |
| 2.627 | 2.618 | 2.617 | 2.616 | 2.619 | 2.623 | 2.634 | 2.648 | 2.657 | 2.664 | 2.667 | 2.664 | 2.659 | 2.631 |
| 2.590 | 2.586 | 2.584 | 2.583 | 2.583 | 2.587 | 2.598 | 2.603 | 2.610 | 2.614 | 2.614 | 2.613 | 2.609 | 2.589 |
| 2.705 | 2.702 | 2.696 | 2.695 | 2.695 | 2.698 | 2.702 | 2.728 | 2.736 | 2.739 | 2.740 | 2.741 | 2.738 | 2.711 |
| 2.679 | 2.669 | 2.667 | 2.667 | 2.663 | 2.671 | 2.680 | 2.694 | 2.701 | 2.705 | 2.705 | 2.705 | 2.702 | 2.680 |
| 2.536 | 2.540 | 2.534 | 2.525 | 2.525 | 2.525 | 2.529 | 2.530 | 2.537 | 2.540 | 2.544 | 2.546 | 2.540 | 2.529 |
| 2.639 | 2.623 | 2.619 | 2.615 | 2.614 | 2.616 | 2.624 | 2.642 | 2.653 | 2.656 | 2.658 | 2.663 | 2.658 | 2.632 |
| 2.627 | 2.633 | 2.630 | 2.628 | 2.629 | 2.631 | 2.638 | 2.656 | 2.664 | 2.670 | 2.677 | 2.676 | 2.670 | 2.638 |
| 2.622 | 2.633 | 2.628 | 2.626 | 2.628 | 2.631 | 2.637 | 2.656 | 2.662 | 2.666 | 2.669 | 2.671 | 2.662 | 2.636 |
| 2.635 | 2.633 | 2.629 | 2.626 | 2.626 | 2.629 | 2.635 | 2.651 | 2.659 | 2.663 | 2.666 | 2.667 | 2.662 | 2.638 |
| 2.656 | 2.637 | 2.639 | 2.635 | 2.634 | 2.641 | 2.652 | 2.677 | 2.684 | 2.690 | 2.698 | 2.696 | 2.689 | 2.662 |
| 2.696 | 2.673 | 2.673 | 2.671 | 2.671 | 2.675 | 2.680 | 2.711 | 2.719 | 2.724 | 2.724 | 2.719 | 2.714 | 2.691 |
| 2.735 | 2.733 | 2.731 | 2.732 | 2.732 | 2.735 | 2.743 | 2.739 | 2.746 | 2.747 | 2.751 | 2.751 | 2.746 | 2.731 |
| 2.546 | 2.566 | 2.566 | 2.573 | 2.569 | 2.571 | 2.575 | 2.585 | 2.588 | 2.587 | 2.590 | 2.587 | 2.576 | 2.561 |
| 2.612 | 2.612 | 2.613 | 2.614 | 2.618 | 2.623 | 2.636 | 2.655 | 2.664 | 2.663 | 2.665 | 2.665 | 2.655 | 2.624 |
| 2.609 | 2.598 | 2.596 | 2.593 | 2.590 | 2.593 | 2.599 | 2.625 | 2.631 | 2.635 | 2.640 | 2.639 | 2.632 | 2.610 |
| 2.642 | 2.637 | 2.636 | 2.636 | 2.636 | 2.640 | 2.648 | 2.665 | 2.672 | 2.674 | 2.678 | 2.676 | 2.669 | 2.647 |
| 2.632 | 2.648 | 2.648 | 2.642 | 2.638 | 2.646 | 2.650 | 2.640 | 2.652 | 2.659 | 2.660 | 2.657 | 2.650 | 2.636 |
| 2.556 | 2.552 | 2.551 | 2.549 | 2.546 | 2.544 | 2.542 | 2.517 | 2.537 | 2.544 | 2.547 | 2.547 | 2.545 | 2.543 |
| 2.625 | 2.619 | 2.635 | 2.627 | 2.627 | 2.631 | 2.635 | 2.648 | 2.658 | 2.664 | 2.666 | 2.662 | 2.655 | 2.636 |
| 2.765 | 2.789 | 2.792 | 2.792 | 2.792 | 2.795 | 2.802 | 2.810 | 2.822 | 2.827 | 2.833 | 2.832 | 2.826 | 2.794 |
| 2.723 | 2.704 | 2.702 | 2.700 | 2.699 | 2.696 | 2.698 | 2.695 | 2.707 | 2.710 | 2.709 | 2.703 | 2.700 | 2.696 |
| 2.677 | 2.668 | 2.670 | 2.672 | 2.669 | 2.673 | 2.683 | 2.674 | 2.687 | 2.697 | 2.702 | 2.702 | 2.699 | 2.675 |
| 2.663 | 2.663 | 2.666 | 2.664 | 2.662 | 2.664 | 2.668 | 2.664 | 2.677 | 2.684 | 2.686 | 2.684 | 2.679 | 2.663 |
| 2.604 | 2.618 | 2.614 | 2.614 | 2.610 | 2.609 | 2.598 | 2.635 | 2.637 | 2.642 | 2.638 | 2.640 | 2.629 | 2.613 |
| 2.668 | 2.675 | 2.674 | 2.674 | 2.670 | 2.665 | 2.658 | 2.663 | 2.672 | 2.683 | 2.683 | 2.690 | 2.681 | 2.668 |
| 2.612 | 2.611 | 2.613 | 2.622 | 2.620 | 2.618 | 2.622 | 2.621 | 2.631 | 2.639 | 2.634 | 2.634 | 2.623 | 2.611 |
| 2.501 | 2.511 | 2.510 | 2.514 | 2.514 | 2.516 | 2.515 | 2.502 | 2.512 | 2.520 | 2.523 | 2.527 | 2.517 | 2.508 |
| 2.652 | 2.669 | 2.670 | 2.671 | 2.674 | 2.677 | 2.682 | 2.674 | 2.683 | 2.692 | 2.700 | 2.701 | 2.691 | 2.671 |
| 2.670 | 2.674 | 2.676 | 2.680 | 2.677 | 2.681 | 2.682 | 2.683 | 2.691 | 2.704 | 2.710 | 2.716 | 2.709 | 2.685 |
| 2.618 | 2.626 | 2.626 | 2.629 | 2.628 | 2.628 | 2.626 | 2.630 | 2.638 | 2.647 | 2.648 | 2.651 | 2.642 | 2.626 |
| 2.637 | 2.648 | 2.647 | 2.654 | 2.653 | 2.650 | 2.653 | 2.653 | 2.658 | 2.676 | 2.677 | 2.679 | 2.668 | 2.648 |
| 2.669 | 2.673 | 2.669 | 2.673 | 2.670 | 2.666 | 2.659 | 2.661 | 2.663 | 2.676 | 2.683 | 2.687 | 2.677 | 2.666 |
| 2.559 | 2.557 | 2.556 | 2.563 | 2.557 | 2.542 | 2.533 | 2.553 | 2.558 | 2.564 | 2.568 | 2.571 | 2.557 | 2.549 |
| 2.696 | 2.667 | 2.668 | 2.680 | 2.687 | 2.683 | 2.691 | 2.701 | 2.709 | 2.717 | 2.717 | 2.723 | 2.712 | 2.692 |
| 2.619 | 2.623 | 2.622 | 2.627 | 2.627 | 2.629 | 2.629 | 2.659 | 2.666 | 2.675 | 2.679 | 2.685 | 2.665 | 2.643 |
| 2.646 | 2.656 | 2.649 | 2.651 | 2.649 | 2.642 | 2.640 | 2.665 | 2.672 | 2.679 | 2.688 | 2.690 | 2.677 | 2.657 |
| 2.638 | 2.637 | 2.635 | 2.641 | 2.641 | 2.635 | 2.634 | 2.649 | 2.654 | 2.665 | 2.669 | 2.673 | 2.659 | 2.643 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LV.—*Monthly Means of the Wet Thermometer for every hour of Mean*

| Mean Toronto Astron. Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------|
| JANUARY. | 1843 | 29.3 | 29.8 | 29.8 | 29.5 | 29.0 | 28.3 | 27.8 | 27.3 | 27.4 | 27.3 | 27.3 |
| | 1844 | 20.3 | 20.7 | 21.4 | 21.5 | 21.4 | 20.6 | 19.8 | 19.5 | 19.1 | 19.1 | 18.7 |
| | 1845 | 27.2 | 27.6 | 27.8 | 27.4 | 26.7 | 25.9 | 25.3 | 24.8 | 24.0 | 23.7 | 23.2 |
| | 1846 | 26.6 | 27.2 | 27.7 | 27.9 | 27.6 | 27.0 | 26.4 | 25.7 | 25.7 | 25.5 | 24.9 |
| | 1847 | 23.2 | 23.4 | 23.2 | 22.7 | 22.3 | 21.6 | 21.1 | 20.6 | 20.4 | 20.4 | 20.3 |
| | 1848 | 29.4 | 29.8 | 30.4 | 30.7 | 29.7 | 28.6 | 27.6 | 27.1 | 26.9 | 26.6 | 26.2 |
| Hourly Means | 26.00 | 26.42 | 26.71 | 26.62 | 26.11 | 25.34 | 24.67 | 24.17 | 23.92 | 23.77 | 23.43 | |
| FEBRUARY. | 1843 | 16.0 | 16.6 | 17.1 | 17.1 | 16.8 | 15.8 | 14.2 | 13.1 | 12.3 | 11.2 | 10.5 |
| | 1844 | 28.0 | 29.0 | 29.3 | 29.8 | 29.2 | 28.2 | 26.6 | 25.9 | 25.0 | 24.4 | 23.8 |
| | 1845 | 27.2 | 27.4 | 27.7 | 27.5 | 27.0 | 25.9 | 25.2 | 24.9 | 24.3 | 24.3 | 24.1 |
| | 1846 | 26.3 | 26.5 | 26.5 | 26.6 | 26.3 | 25.5 | 24.2 | 23.4 | 22.4 | 22.0 | 21.6 |
| | 1847 | 23.8 | 24.8 | 25.2 | 25.1 | 24.6 | 23.7 | 22.9 | 21.8 | 21.2 | 20.8 | 20.0 |
| | 1848 | 28.5 | 29.4 | 29.7 | 29.7 | 29.6 | 28.6 | 27.3 | 26.5 | 26.0 | 25.7 | 25.2 |
| Hourly Means | 24.97 | 25.62 | 25.91 | 25.97 | 25.58 | 24.62 | 23.40 | 22.60 | 21.87 | 21.40 | 20.87 | |
| MARCH. | 1843 | 23.2 | 24.3 | 24.4 | 24.6 | 24.1 | 23.5 | 21.5 | 20.4 | 19.5 | 18.7 | 17.9 |
| | 1844 | 31.9 | 32.8 | 33.6 | 33.3 | 33.2 | 32.7 | 31.7 | 30.4 | 29.6 | 29.0 | 28.6 |
| | 1845 | 35.5 | 36.1 | 36.3 | 35.7 | 35.5 | 34.9 | 33.5 | 32.8 | 32.5 | 32.1 | 31.2 |
| | 1846 | 35.0 | 35.3 | 35.8 | 35.6 | 34.7 | 34.7 | 33.5 | 31.8 | 31.2 | 30.0 | 29.6 |
| | 1847 | 27.5 | 27.7 | 28.1 | 27.9 | 27.7 | 27.4 | 26.0 | 24.8 | 24.1 | 23.3 | 22.5 |
| | 1848 | 30.7 | 31.5 | 32.1 | 32.4 | 31.7 | 31.2 | 29.7 | 28.3 | 27.5 | 27.0 | 26.8 |
| Hourly Means | 30.63 | 31.28 | 31.72 | 31.58 | 31.15 | 30.73 | 29.31 | 28.08 | 27.60 | 26.68 | 26.10 | |
| APRIL. | 1843 | 41.0 | 41.6 | 41.9 | 42.3 | 42.2 | 41.9 | 40.4 | 38.6 | 37.7 | 37.0 | 36.2 |
| | 1844 | 48.2 | 49.4 | 49.8 | 50.1 | 49.4 | 49.9 | 47.4 | 45.4 | 43.1 | 42.3 | 41.4 |
| | 1845 | 41.5 | 41.9 | 41.8 | 41.8 | 41.7 | 41.1 | 40.1 | 38.9 | 38.4 | 37.7 | 36.9 |
| | 1846 | 43.6 | 44.0 | 44.4 | 44.0 | 43.9 | 43.3 | 42.4 | 40.8 | 39.7 | 39.1 | 38.7 |
| | 1847 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1848 | 41.1 | 41.3 | 41.6 | 41.5 | 41.2 | 40.8 | 40.2 | 38.8 | 37.7 | 36.9 | 36.5 |
| Hourly Means | 43.08 | 43.64 | 43.90 | 43.94 | 43.68 | 43.40 | 42.10 | 40.50 | 39.32 | 38.60 | 37.94 | |
| MAY. | 1843 | 48.0 | 49.0 | 49.1 | 49.3 | 49.3 | 49.2 | 47.4 | 45.3 | 43.6 | 42.4 | 41.5 |
| | 1844 | 55.6 | 55.4 | 54.8 | 54.4 | 54.5 | 54.5 | 53.1 | 51.0 | 49.3 | 48.3 | 47.6 |
| | 1845 | 50.3 | 50.5 | 50.7 | 50.6 | 50.8 | 50.2 | 49.2 | 47.0 | 45.3 | 43.7 | 42.8 |
| | 1846 | 55.5 | 55.8 | 56.0 | 55.6 | 55.7 | 55.3 | 54.8 | 53.0 | 51.1 | 49.8 | 49.6 |
| | 1847 | 54.6 | 54.8 | 55.2 | 55.1 | 54.5 | 54.7 | 53.5 | 51.8 | 50.9 | 49.8 | 49.2 |
| | 1848 | 55.0 | 55.2 | 55.0 | 54.6 | 54.4 | 54.2 | 53.0 | 51.6 | 50.0 | 48.8 | 48.1 |
| Hourly Means | 53.17 | 53.45 | 53.47 | 53.27 | 53.20 | 53.02 | 51.83 | 49.95 | 48.37 | 47.13 | 46.47 | |
| JUNE. | 1843 | 59.2 | 59.6 | 60.1 | 60.4 | 60.1 | 59.6 | 59.1 | 57.3 | 55.3 | 54.1 | 52.9 |
| | 1844 | 59.4 | 60.5 | 60.7 | 60.8 | 60.9 | 61.6 | 60.2 | 58.0 | 55.2 | 53.6 | 52.6 |
| | 1845 | 60.8 | 60.6 | 60.8 | 60.8 | 61.4 | 60.9 | 59.4 | 58.4 | 56.4 | 55.2 | 54.4 |
| | 1846 | 61.9 | 62.2 | 62.2 | 62.1 | 62.3 | 62.1 | 61.6 | 59.9 | 57.6 | 56.4 | 55.6 |
| | 1847 | 59.2 | 59.8 | 59.1 | 59.5 | 59.0 | 58.3 | 57.4 | 56.0 | 54.4 | 52.9 | 52.1 |
| | 1848 | 62.3 | 62.3 | 62.2 | 62.7 | 62.3 | 61.2 | 60.4 | 59.1 | 57.6 | 56.1 | 55.4 |
| Hourly Means | 60.47 | 60.83 | 60.85 | 61.05 | 61.00 | 60.62 | 59.68 | 58.12 | 56.08 | 54.72 | 53.83 | |

^a Observations cancelled.

WET THERMOMETER.

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Solar Time, from July 1842 to June 1848, inclusive.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|
| 27.0 | 25.1 | 24.9 | 25.1 | 24.9 | 25.0 | 25.3 | 25.4 | 25.0 | 25.4 | 26.3 | 27.2 | 28.5 | 27.00 |
| 18.4 | 18.1 | 17.0 | 16.8 | 16.6 | 16.5 | 16.2 | 16.7 | 16.4 | 16.9 | 17.6 | 18.3 | 19.4 | 18.63 |
| 22.9 | 23.0 | 22.8 | 22.8 | 22.6 | 22.5 | 22.2 | 24.1 | 23.6 | 23.8 | 24.7 | 25.8 | 26.5 | 24.62 |
| 24.4 | 24.3 | 23.6 | 23.0 | 22.7 | 22.2 | 22.0 | 22.5 | 22.7 | 22.9 | 23.8 | 25.1 | 26.0 | 24.89 |
| 20.2 | 20.3 | 19.8 | 20.0 | 19.8 | 19.7 | 19.5 | 19.9 | 20.2 | 20.2 | 21.1 | 22.1 | 22.8 | 21.03 |
| 26.0 | 24.8 | 24.6 | 24.7 | 24.8 | 24.7 | 24.5 | 25.9 | 25.8 | 25.8 | 26.9 | 27.7 | 28.7 | 27.00 |
| 23.15 | 22.60 | 22.11 | 22.07 | 21.90 | 21.77 | 21.62 | 22.41 | 22.28 | 22.50 | 23.40 | 24.37 | 25.32 | 23.86 |
| 9.9 | 9.8 | 9.4 | 9.1 | 9.0 | 8.6 | 8.2 | 7.9 | 7.7 | 8.5 | 10.6 | 12.4 | 14.1 | 11.91 |
| 23.4 | 25.1 | 25.1 | 24.8 | 24.5 | 24.3 | 24.0 | 22.5 | 22.2 | 22.9 | 24.3 | 25.7 | 26.9 | 25.62 |
| 24.5 | 25.0 | 24.7 | 24.4 | 23.6 | 23.1 | 23.1 | 21.3 | 21.2 | 22.3 | 24.1 | 24.7 | 25.8 | 24.72 |
| 20.7 | 19.6 | 19.2 | 18.6 | 17.5 | 16.8 | 16.3 | 18.5 | 19.1 | 19.9 | 22.1 | 24.3 | 25.1 | 22.04 |
| 19.3 | 18.9 | 18.7 | 18.4 | 18.5 | 18.4 | 18.1 | 18.0 | 17.6 | 18.5 | 19.9 | 21.8 | 23.0 | 20.96 |
| 24.8 | 24.0 | 23.3 | 22.8 | 22.5 | 22.2 | 22.4 | 22.0 | 21.9 | 23.1 | 25.4 | 26.8 | 27.7 | 25.63 |
| 20.43 | 20.40 | 20.07 | 19.68 | 19.27 | 18.90 | 18.68 | 18.37 | 18.28 | 19.20 | 21.07 | 22.62 | 23.77 | 21.81 |
| 16.9 | 17.0 | 16.5 | 16.0 | 15.8 | 15.6 | 15.9 | 14.7 | 15.2 | 17.3 | 19.1 | 20.9 | 22.1 | 19.38 |
| 28.5 | 29.7 | 28.1 | 27.3 | 27.1 | 26.7 | 26.4 | 26.8 | 27.0 | 27.8 | 29.2 | 30.4 | 31.0 | 29.70 |
| 30.7 | 31.5 | 31.1 | 30.9 | 30.6 | 30.2 | 30.1 | 29.1 | 29.9 | 31.9 | 33.3 | 34.4 | 35.1 | 32.70 |
| 29.0 | 29.2 | 29.3 | 28.8 | 28.6 | 28.4 | 28.3 | 27.6 | 28.6 | 30.7 | 32.8 | 34.0 | 34.6 | 31.54 |
| 21.9 | 22.3 | 21.8 | 21.5 | 20.9 | 20.6 | 19.8 | 19.8 | 20.3 | 22.3 | 24.0 | 25.4 | 26.5 | 23.92 |
| 26.2 | 25.6 | 24.8 | 24.5 | 24.6 | 24.3 | 24.0 | 22.9 | 23.8 | 25.6 | 27.0 | 28.3 | 29.2 | 27.48 |
| 25.53 | 25.88 | 25.27 | 24.83 | 24.60 | 24.30 | 24.08 | 23.48 | 24.13 | 25.93 | 27.56 | 28.90 | 29.75 | 27.45 |
| 35.8 | 35.9 | 35.2 | 34.9 | 34.4 | 34.2 | 33.6 | 33.1 | 34.3 | 36.4 | 37.6 | 39.2 | 40.2 | 37.73 |
| 41.1 | 40.9 | 40.4 | 39.9 | 39.4 | 39.3 | 39.0 | 38.5 | 40.7 | 42.6 | 44.6 | 46.1 | 47.1 | 44.00 |
| 36.8 | 36.0 | 35.6 | 34.9 | 34.8 | 34.7 | 34.6 | 35.3 | 36.5 | 37.9 | 39.4 | 40.2 | 41.1 | 38.34 |
| 38.3 | 38.1 | 38.3 | 37.6 | 37.0 | 36.8 | 36.3 | 36.0 | 38.4 | 39.7 | 41.2 | 42.2 | 43.2 | 40.29 |
| 35.8 | 35.5 | 34.8 | 34.5 | 33.7 | 33.4 | 32.7 | 33.2 | 35.4 | 36.9 | 38.5 | 39.5 | 40.4 | 37.58 |
| 37.56 | 37.28 | 36.86 | 36.36 | 35.86 | 35.68 | 35.24 | 35.22 | 37.05 | 38.70 | 40.26 | 41.44 | 42.40 | 39.58 |
| 40.9 | 41.1 | 40.8 | 40.4 | 39.9 | 39.7 | 39.9 | 41.6 | 43.2 | 45.1 | 45.8 | 46.7 | 47.6 | 44.45 |
| 46.9 | 46.0 | 45.4 | 44.8 | 44.4 | 44.1 | 44.3 | 45.8 | 47.5 | 49.2 | 51.0 | 52.5 | 53.8 | 49.76 |
| 41.7 | 41.7 | 40.8 | 40.3 | 39.5 | 39.3 | 39.3 | 41.8 | 43.7 | 44.8 | 46.6 | 48.4 | 49.5 | 45.35 |
| 49.0 | 47.6 | 47.1 | 46.6 | 46.5 | 46.2 | 46.4 | 48.1 | 50.2 | 51.7 | 53.3 | 54.4 | 54.6 | 51.41 |
| 48.3 | 47.2 | 46.7 | 46.2 | 45.8 | 45.4 | 45.5 | 46.7 | 49.2 | 51.0 | 52.6 | 53.5 | 54.3 | 50.69 |
| 47.6 | 47.0 | 45.9 | 45.4 | 44.8 | 44.2 | 44.3 | 47.0 | 49.0 | 50.8 | 52.5 | 53.6 | 54.5 | 50.27 |
| 45.73 | 45.10 | 44.45 | 43.95 | 43.48 | 43.15 | 43.28 | 45.17 | 47.13 | 48.77 | 50.30 | 51.52 | 52.38 | 48.66 |
| 51.5 | 51.6 | 51.0 | 50.4 | 49.8 | 49.4 | 49.9 | 51.0 | 53.2 | 54.4 | 55.7 | 57.0 | 58.1 | 55.03 |
| 51.9 | 51.7 | 51.1 | 50.7 | 50.3 | 50.2 | 50.2 | 51.6 | 53.6 | 55.3 | 56.5 | 57.7 | 58.7 | 55.54 |
| 53.8 | 53.9 | 52.7 | 52.0 | 51.4 | 50.7 | 50.5 | 53.3 | 54.8 | 56.3 | 57.7 | 59.5 | 60.5 | 56.51 |
| 55.0 | 54.9 | 54.4 | 53.8 | 53.2 | 52.8 | 53.1 | 55.4 | 57.4 | 58.8 | 60.4 | 61.4 | 61.8 | 58.18 |
| 51.7 | 51.5 | 50.8 | 50.3 | 49.8 | 49.2 | 49.5 | 51.7 | 53.7 | 55.3 | 57.0 | 57.8 | 58.8 | 54.78 |
| 54.8 | 54.5 | 53.9 | 53.2 | 52.5 | 52.2 | 52.4 | 55.1 | 57.1 | 59.4 | 60.6 | 61.5 | 62.1 | 57.95 |
| 53.12 | 53.02 | 52.32 | 51.73 | 51.17 | 50.75 | 50.93 | 53.02 | 54.97 | 56.58 | 57.98 | 59.15 | 60.00 | 56.33 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

Monthly Means of the Wet Thermometer for every hour of Mean

| Mean Toronto Astron. Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------|
| JULY. | 1842 | 62.9 | 63.8 | 64.4 | 64.2 | 64.1 | 64.1 | 63.4 | 60.6 | 58.3 | 57.0 | 56.4 |
| | 1843 | 63.8 | 64.5 | 64.6 | 64.5 | 65.8 | 64.8 | 64.0 | 62.0 | 58.9 | 57.4 | 56.1 |
| | 1844 | 64.5 | 65.4 | 65.1 | 65.8 | 65.9 | 65.9 | 65.6 | 63.7 | 60.6 | 59.3 | 58.1 |
| | 1845 | 64.4 | 64.7 | 65.0 | 65.1 | 65.0 | 64.4 | 63.4 | 62.2 | 60.1 | 58.9 | 58.0 |
| | 1846 | 66.3 | 65.9 | 66.7 | 66.3 | 66.4 | 65.7 | 65.2 | 64.0 | 61.9 | 60.4 | 59.8 |
| | 1847 | 68.0 | 68.3 | 68.1 | 67.9 | 67.6 | 66.8 | 66.3 | 64.8 | 63.1 | 61.7 | 60.9 |
| Hourly Means | 64.98 | 65.43 | 65.65 | 65.63 | 65.80 | 65.28 | 64.65 | 62.88 | 60.48 | 59.12 | 58.22 | |
| AUGUST. | 1842 | 64.4 | 65.3 | 65.7 | 65.8 | 66.0 | 65.6 | 64.5 | 62.0 | 60.3 | 59.4 | 59.0 |
| | 1843 | 66.5 | 67.6 | 67.8 | 67.8 | 67.8 | 67.5 | 66.7 | 63.6 | 61.4 | 59.9 | 59.1 |
| | 1844 | 64.1 | 64.5 | 65.0 | 65.5 | 65.0 | 64.6 | 63.3 | 61.0 | 59.5 | 58.4 | 57.7 |
| | 1845 | 67.1 | 67.3 | 67.7 | 67.4 | 67.4 | 67.3 | 66.2 | 63.8 | 62.1 | 60.8 | 59.8 |
| | 1846 | 68.1 | 68.0 | 67.7 | 67.5 | 67.0 | 66.6 | 65.8 | 63.8 | 62.7 | 61.7 | 61.0 |
| | 1847 | 65.1 | 65.2 | 65.1 | 65.0 | 64.7 | 64.2 | 63.7 | 61.8 | 60.1 | 59.0 | 58.2 |
| Hourly Means | 65.88 | 66.32 | 66.50 | 66.50 | 66.32 | 65.97 | 65.03 | 62.67 | 61.02 | 59.87 | 59.13 | |
| SEPTEMBER. | 1842 | 55.0 | 55.1 | 55.4 | 55.6 | 55.4 | 55.5 | 53.6 | 51.8 | 51.2 | 50.1 | 49.5 |
| | 1843 | 59.0 | 60.1 | 60.3 | 60.2 | 59.9 | 59.0 | 57.1 | 55.3 | 54.5 | 54.8 | 53.1 |
| | 1844 | 59.4 | 59.6 | 59.6 | 59.7 | 59.6 | 59.4 | 57.0 | 55.2 | 53.1 | 52.4 | 51.7 |
| | 1845 | 56.4 | 56.2 | 56.6 | 56.6 | 56.3 | 55.8 | 54.5 | 52.8 | 51.9 | 51.6 | 50.6 |
| | 1846 | 63.3 | 63.1 | 63.4 | 63.1 | 62.8 | 62.4 | 61.8 | 60.4 | 59.8 | 58.9 | 57.9 |
| | 1847 | 56.8 | 56.7 | 56.6 | 56.4 | 56.2 | 55.8 | 54.7 | 53.1 | 52.4 | 51.8 | 51.1 |
| Hourly Means | 58.32 | 58.47 | 58.65 | 58.60 | 58.37 | 57.98 | 56.45 | 54.77 | 53.82 | 53.27 | 52.32 | |
| OCTOBER. | 1842 | 46.7 | 47.1 | 47.5 | 47.4 | 46.6 | 45.3 | 43.8 | 43.1 | 42.5 | 41.7 | 41.0 |
| | 1843 | 43.7 | 43.1 | 43.2 | 43.1 | 42.5 | 41.5 | 40.4 | 40.1 | 39.7 | 39.0 | 38.5 |
| | 1844 | 45.0 | 45.2 | 45.4 | 45.3 | 45.1 | 44.0 | 42.3 | 41.2 | 40.8 | 40.6 | 39.9 |
| | 1845 | 47.9 | 48.2 | 48.2 | 48.0 | 47.6 | 46.4 | 44.8 | 44.1 | 43.5 | 43.3 | 42.9 |
| | 1846 | 45.8 | 46.3 | 45.7 | 45.6 | 45.2 | 44.4 | 43.3 | 42.3 | 41.8 | 41.0 | 40.4 |
| | 1847 | 45.2 | 45.4 | 45.5 | 45.4 | 44.8 | 43.7 | 43.0 | 42.4 | 41.9 | 41.1 | 40.4 |
| Hourly Means | 45.72 | 45.88 | 45.92 | 45.80 | 45.30 | 44.22 | 43.10 | 42.20 | 41.70 | 41.12 | 40.52 | |
| NOVEMBER. | 1842 | 34.6 | 35.3 | 34.9 | 34.8 | 34.1 | 32.8 | 32.3 | 31.6 | 31.2 | 31.1 | 31.1 |
| | 1843 | 33.5 | 34.0 | 33.9 | 34.0 | 33.3 | 32.6 | 32.4 | 32.0 | 32.0 | 31.9 | 31.2 |
| | 1844 | 36.4 | 36.9 | 37.2 | 37.1 | 36.3 | 35.2 | 34.0 | 33.2 | 32.5 | 32.0 | 31.7 |
| | 1845 | 37.4 | 37.5 | 37.6 | 37.3 | 36.7 | 36.2 | 35.7 | 35.3 | 34.9 | 34.5 | 33.9 |
| | 1846 | 41.3 | 41.5 | 41.7 | 41.5 | 40.9 | 40.1 | 39.6 | 39.3 | 39.2 | 39.0 | 38.5 |
| | 1847 | 39.4 | 39.7 | 39.7 | 39.5 | 39.1 | 38.4 | 37.7 | 37.4 | 37.3 | 37.4 | 37.2 |
| Hourly Means | 37.10 | 37.48 | 37.50 | 37.37 | 36.73 | 35.88 | 35.28 | 34.80 | 34.52 | 34.32 | 33.93 | |
| DECEMBER. | 1842 | 25.6 | 26.1 | 26.5 | 26.2 | 25.7 | 24.7 | 24.1 | 23.6 | 23.3 | 23.1 | 22.1 |
| | 1843 | 30.7 | 31.0 | 31.0 | 30.9 | 30.3 | 29.8 | 29.3 | 28.9 | 28.5 | 28.3 | 28.2 |
| | 1844 | 29.3 | 29.8 | 29.9 | 29.5 | 28.6 | 28.2 | 27.6 | 27.2 | 26.8 | 26.6 | 26.0 |
| | 1845 | 22.2 | 22.9 | 23.5 | 23.5 | 22.8 | 21.6 | 20.9 | 20.4 | 20.1 | 19.6 | 19.9 |
| | 1846 | 27.6 | 28.4 | 28.8 | 28.8 | 28.5 | 27.9 | 27.2 | 27.1 | 26.7 | 26.6 | 26.3 |
| | 1847 | 31.3 | 31.6 | 31.8 | 31.8 | 31.6 | 31.1 | 30.5 | 30.3 | 29.8 | 29.8 | 29.8 |
| Hourly Means | 27.78 | 28.30 | 28.58 | 28.45 | 27.93 | 27.22 | 26.60 | 26.25 | 25.87 | 25.67 | 25.38 | |

WET THERMOMETER.

Solar Time, from July 1842 to June 1848, inclusive—continued.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|
| 55.3 | 54.4 | 53.9 | 53.5 | 53.0 | 52.5 | 52.6 | 55.0 | 57.1 | 58.9 | 59.9 | 60.9 | 62.0 | 58.68 |
| 55.2 | 54.3 | 53.7 | 53.4 | 53.1 | 52.4 | 52.2 | 55.3 | 57.8 | 59.0 | 60.0 | 62.7 | 62.7 | 59.09 |
| 57.5 | 56.7 | 56.2 | 55.8 | 55.6 | 55.4 | 55.2 | 57.8 | 59.6 | 61.1 | 62.0 | 62.9 | 64.3 | 60.83 |
| 57.2 | 56.8 | 55.6 | 55.1 | 54.7 | 54.3 | 54.2 | 56.6 | 59.0 | 60.5 | 61.8 | 62.6 | 63.4 | 60.13 |
| 58.7 | 58.6 | 58.3 | 57.9 | 56.6 | 56.9 | 57.0 | 60.1 | 63.1 | 64.4 | 65.4 | 65.6 | 65.7 | 62.37 |
| 60.2 | 59.8 | 59.1 | 58.6 | 57.9 | 57.0 | 56.9 | 59.9 | 62.7 | 64.6 | 66.4 | 67.1 | 67.6 | 63.39 |
| 57.35 | 56.77 | 56.13 | 55.72 | 55.15 | 54.75 | 54.68 | 57.45 | 59.88 | 61.42 | 62.58 | 63.63 | 64.28 | 60.75 |
| 58.4 | 57.9 | 57.5 | 56.9 | 56.6 | 56.4 | 56.7 | 56.7 | 58.6 | 60.4 | 62.8 | 62.9 | 63.9 | 60.99 |
| 58.3 | 58.0 | 57.7 | 57.1 | 56.5 | 56.0 | 55.6 | 56.6 | 59.0 | 61.4 | 63.4 | 64.6 | 65.7 | 61.90 |
| 57.2 | 56.7 | 56.3 | 56.0 | 55.6 | 55.3 | 55.2 | 56.1 | 58.0 | 59.6 | 61.1 | 62.7 | 63.6 | 60.08 |
| 59.1 | 58.9 | 58.2 | 58.1 | 57.5 | 57.3 | 57.0 | 58.4 | 61.8 | 63.9 | 65.3 | 65.9 | 66.8 | 62.71 |
| 60.5 | 59.7 | 58.8 | 58.2 | 57.7 | 57.6 | 57.3 | 58.5 | 61.3 | 63.7 | 65.2 | 66.8 | 67.5 | 63.03 |
| 57.5 | 57.2 | 56.5 | 55.9 | 55.3 | 54.9 | 54.5 | 56.1 | 59.2 | 61.8 | 63.2 | 64.1 | 64.8 | 60.55 |
| 58.50 | 58.07 | 57.50 | 57.03 | 56.53 | 56.25 | 56.05 | 57.07 | 59.65 | 61.80 | 63.50 | 64.50 | 65.38 | 61.54 |
| 49.1 | 49.8 | 49.1 | 48.7 | 48.6 | 48.0 | 46.9 | 47.2 | 49.2 | 51.0 | 52.4 | 53.3 | 54.5 | 51.50 |
| 52.5 | 52.2 | 52.0 | 51.6 | 51.3 | 51.2 | 51.8 | 51.5 | 53.1 | 54.2 | 55.5 | 57.6 | 58.0 | 55.24 |
| 50.9 | 50.6 | 49.9 | 49.1 | 48.8 | 48.1 | 47.7 | 49.5 | 52.0 | 54.5 | 56.3 | 57.3 | 58.7 | 54.17 |
| 50.4 | 49.6 | 49.0 | 48.3 | 48.2 | 47.4 | 46.8 | 47.7 | 50.6 | 52.4 | 54.3 | 55.4 | 56.2 | 52.32 |
| 57.1 | 57.2 | 56.6 | 56.2 | 55.2 | 54.7 | 54.4 | 54.8 | 57.1 | 59.2 | 60.8 | 62.1 | 62.9 | 59.40 |
| 50.6 | 50.1 | 49.6 | 49.1 | 48.8 | 48.5 | 48.2 | 48.8 | 50.8 | 53.0 | 54.5 | 55.9 | 56.2 | 52.74 |
| 51.77 | 51.58 | 51.03 | 50.50 | 50.15 | 49.65 | 49.30 | 49.99 | 52.13 | 54.05 | 55.63 | 56.93 | 57.75 | 54.23 |
| 40.5 | 40.0 | 39.6 | 39.2 | 39.0 | 38.7 | 38.3 | 38.5 | 39.5 | 41.7 | 43.6 | 45.0 | 46.0 | 42.59 |
| 37.9 | 37.1 | 37.0 | 36.7 | 36.6 | 36.4 | 36.2 | 37.0 | 37.4 | 39.1 | 40.5 | 41.6 | 42.2 | 39.60 |
| 39.0 | 39.4 | 37.3 | 37.6 | 37.4 | 37.1 | 37.0 | 37.1 | 37.9 | 40.1 | 42.0 | 43.4 | 44.1 | 41.01 |
| 42.8 | 41.1 | 40.6 | 40.4 | 40.2 | 40.2 | 40.1 | 40.3 | 40.9 | 42.9 | 45.1 | 46.3 | 47.2 | 43.92 |
| 40.0 | 40.9 | 40.5 | 40.1 | 39.9 | 39.7 | 39.5 | 39.6 | 40.1 | 41.8 | 43.6 | 44.7 | 45.7 | 42.41 |
| 39.8 | 39.5 | 39.0 | 38.6 | 38.5 | 38.3 | 38.5 | 38.2 | 39.3 | 41.1 | 43.1 | 44.1 | 44.9 | 41.67 |
| 40.00 | 39.67 | 39.00 | 38.77 | 38.60 | 38.40 | 38.27 | 38.45 | 39.18 | 41.12 | 42.98 | 44.18 | 45.02 | 41.88 |
| 30.7 | 30.2 | 30.0 | 29.9 | 29.4 | 29.4 | 30.0 | 29.5 | 29.7 | 30.7 | 31.9 | 33.3 | 34.1 | 31.78 |
| 30.9 | 30.3 | 29.9 | 29.6 | 29.6 | 29.4 | 29.2 | 29.3 | 29.6 | 30.2 | 31.1 | 32.1 | 33.0 | 31.46 |
| 31.3 | 31.4 | 31.2 | 31.1 | 30.5 | 30.3 | 30.6 | 30.4 | 30.6 | 31.6 | 33.1 | 34.8 | 35.5 | 33.12 |
| 33.8 | 32.6 | 32.1 | 32.1 | 32.1 | 31.9 | 31.7 | 32.7 | 32.8 | 33.5 | 34.8 | 35.7 | 37.1 | 34.58 |
| 38.2 | 37.5 | 37.2 | 36.9 | 36.7 | 36.7 | 36.6 | 37.7 | 37.5 | 38.1 | 39.2 | 40.3 | 41.0 | 39.01 |
| 36.8 | 36.5 | 36.2 | 35.9 | 35.7 | 35.3 | 35.2 | 35.8 | 35.6 | 36.6 | 37.8 | 38.7 | 39.2 | 37.42 |
| 33.62 | 33.08 | 32.77 | 32.58 | 32.33 | 32.17 | 32.22 | 32.57 | 32.63 | 33.45 | 34.65 | 35.82 | 36.65 | 34.56 |
| 22.1 | 22.1 | 21.7 | 21.0 | 21.1 | 20.8 | 21.2 | 21.2 | 20.4 | 21.5 | 22.4 | 24.0 | 25.0 | 23.15 |
| 27.7 | 28.4 | 28.1 | 28.1 | 28.1 | 27.8 | 27.6 | 27.7 | 27.8 | 28.1 | 28.5 | 29.4 | 30.1 | 28.93 |
| 26.1 | 26.2 | 25.1 | 25.1 | 24.9 | 25.1 | 25.4 | 25.3 | 25.2 | 25.8 | 26.8 | 27.8 | 28.7 | 26.96 |
| 19.7 | 19.2 | 18.4 | 17.5 | 17.5 | 17.6 | 17.4 | 16.9 | 16.9 | 17.6 | 19.2 | 20.7 | 21.6 | 19.90 |
| 26.1 | 25.7 | 25.2 | 24.7 | 24.8 | 24.5 | 24.3 | 23.3 | 23.0 | 23.0 | 24.3 | 25.7 | 26.9 | 26.06 |
| 29.9 | 29.2 | 29.0 | 28.6 | 28.4 | 28.5 | 28.4 | 27.8 | 27.6 | 27.7 | 28.6 | 29.7 | 30.7 | 29.73 |
| 25.27 | 25.13 | 24.55 | 24.17 | 24.13 | 24.05 | 24.05 | 23.70 | 23.48 | 23.95 | 24.97 | 26.22 | 27.17 | 25.79 |

TABLE LVI.—*Monthly Means of the Elastic Force of the Aqueous Vapour*

| Mean Toronto Astron. Time. } | | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . |
|---------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| JANUARY. | 1843 | In. .148 | In. .152 | In. .149 | In. .144 | In. .140 | In. .138 | In. .140 | In. .135 | In. .136 | In. .135 | In. .136 |
| | 1844 | .098 | .098 | .102 | .104 | .104 | .100 | .098 | .097 | .095 | .095 | .093 |
| | 1845 | .132 | .130 | .135 | .129 | .126 | .125 | .124 | .119 | .112 | .113 | .110 |
| | 1846 | .127 | .130 | .134 | .135 | .134 | .133 | .129 | .124 | .126 | .126 | .123 |
| | 1847 | .100 | .101 | .098 | .097 | .098 | .098 | .097 | .096 | .096 | .098 | .098 |
| | 1848 | .150 | .151 | .158 | .158 | .151 | .145 | .140 | .139 | .141 | .138 | .137 |
| Hourly Means | | .126 | .127 | .129 | .128 | .125 | .123 | .121 | .118 | .118 | .117 | .116 |
| FEBRUARY. | 1843 | .065 | .065 | .066 | .066 | .067 | .063 | .057 | .053 | .052 | .048 | .046 |
| | 1844 | .132 | .135 | .134 | .139 | .138 | .134 | .128 | .128 | .125 | .120 | .118 |
| | 1845 | .129 | .130 | .130 | .129 | .126 | .120 | .117 | .115 | .112 | .112 | .110 |
| | 1846 | .121 | .119 | .118 | .118 | .121 | .119 | .112 | .109 | .105 | .107 | .105 |
| | 1847 | .108 | .109 | .115 | .113 | .111 | .109 | .107 | .103 | .099 | .098 | .098 |
| | 1848 | .128 | .134 | .136 | .138 | .140 | .137 | .136 | .134 | .133 | .135 | .133 |
| Hourly Means | | .114 | .115 | .117 | .117 | .117 | .114 | .109 | .107 | .104 | .103 | .102 |
| MARCH. | 1843 | .096 | .104 | .103 | .103 | .100 | .098 | .092 | .090 | .087 | .085 | .082 |
| | 1844 | .144 | .155 | .160 | .157 | .162 | .156 | .156 | .149 | .145 | .145 | .143 |
| | 1845 | .153 | .158 | .156 | .156 | .150 | .155 | .146 | .145 | .146 | .152 | .145 |
| | 1846 | .168 | .167 | .174 | .173 | .164 | .173 | .164 | .157 | .158 | .149 | .149 |
| | 1847 | .114 | .114 | .114 | .114 | .116 | .117 | .114 | .107 | .104 | .104 | .101 |
| | 1848 | .143 | .152 | .152 | .152 | .149 | .150 | .144 | .137 | .136 | .137 | .138 |
| Hourly Means | | .136 | .142 | .143 | .143 | .140 | .141 | .136 | .131 | .129 | .129 | .126 |
| APRIL. | 1843 | .205 | .207 | .205 | .212 | .207 | .206 | .204 | .197 | .191 | .187 | .182 |
| | 1844 | .275 | .280 | .281 | .282 | .275 | .289 | .256 | .249 | .237 | .237 | .231 |
| | 1845 | .201 | .205 | .200 | .197 | .202 | .195 | .193 | .191 | .194 | .193 | .183 |
| | 1846 | .218 | .216 | .218 | .210 | .213 | .214 | .214 | .208 | .206 | .206 | .202 |
| | 1847 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1848 | .198 | .194 | .200 | .201 | .198 | .195 | .193 | .192 | .187 | .181 | .180 |
| Hourly Means | | .219 | .220 | .221 | .220 | .219 | .220 | .212 | .207 | .203 | .201 | .196 |
| MAY. | 1843 | .262 | .266 | .265 | .258 | .252 | .253 | .235 | .230 | .229 | .224 | .218 |
| | 1844 | .385 | .362 | .344 | .331 | .337 | .331 | .322 | .310 | .298 | .292 | .287 |
| | 1845 | .292 | .288 | .287 | .284 | .286 | .277 | .266 | .254 | .244 | .240 | .236 |
| | 1846 | .371 | .369 | .370 | .362 | .364 | .360 | .360 | .338 | .313 | .316 | .313 |
| | 1847 | .345 | .346 | .348 | .346 | .340 | .353 | .341 | .328 | .322 | .314 | .307 |
| | 1848 | .358 | .358 | .355 | .345 | .345 | .349 | .337 | .327 | .314 | .304 | .298 |
| Hourly Means | | .336 | .331 | .328 | .321 | .321 | .321 | .310 | .298 | .287 | .282 | .276 |
| JUNE. | 1843 | .444 | .442 | .446 | .446 | .433 | .425 | .419 | .402 | .387 | .378 | .365 |
| | 1844 | .431 | .447 | .439 | .433 | .431 | .442 | .423 | .400 | .376 | .365 | .352 |
| | 1845 | .448 | .435 | .439 | .438 | .450 | .438 | .416 | .414 | .396 | .388 | .385 |
| | 1846 | .459 | .458 | .458 | .457 | .457 | .453 | .455 | .440 | .409 | .398 | .391 |
| | 1847 | .434 | .441 | .428 | .436 | .424 | .427 | .401 | .390 | .375 | .357 | .350 |
| | 1848 | .460 | .454 | .446 | .456 | .450 | .433 | .430 | .417 | .412 | .393 | .392 |
| Hourly Means | | .446 | .446 | .443 | .444 | .441 | .436 | .424 | .410 | .393 | .380 | .373 |

^aThe record of the Wet Thermometer, for the month of April 1847, has been cancelled.

ELASTIC FORCE OF THE AQUEOUS VAPOUR.

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at every Hour from July 1842 to June 1848, inclusive.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·136 | ·124 | ·122 | ·125 | ·124 | ·124 | ·126 | ·129 | ·126 | ·129 | ·134 | ·136 | ·141 | ·135 |
| ·093 | ·092 | ·089 | ·089 | ·088 | ·086 | ·084 | ·086 | ·084 | ·088 | ·099 | ·091 | ·096 | ·094 |
| ·109 | ·113 | ·112 | ·112 | ·110 | ·110 | ·107 | ·117 | ·115 | ·116 | ·122 | ·128 | ·130 | ·119 |
| ·120 | ·122 | ·118 | ·116 | ·114 | ·111 | ·112 | ·113 | ·114 | ·115 | ·119 | ·123 | ·125 | ·123 |
| ·094 | ·096 | ·096 | ·097 | ·096 | ·094 | ·092 | ·094 | ·096 | ·094 | ·095 | ·098 | ·098 | ·098 |
| ·137 | ·132 | ·130 | ·130 | ·131 | ·131 | ·129 | ·142 | ·141 | ·138 | ·141 | ·143 | ·147 | ·141 |
| ·115 | ·113 | ·111 | ·112 | ·110 | ·109 | ·108 | ·114 | ·113 | ·113 | ·118 | ·120 | ·123 | ·118 |
| ·045 | ·046 | ·044 | ·052 | ·041 | ·039 | ·053 | ·039 | ·040 | ·040 | ·049 | ·051 | ·055 | ·052 |
| ·116 | ·125 | ·126 | ·123 | ·122 | ·119 | ·119 | ·112 | ·112 | ·113 | ·118 | ·124 | ·126 | ·124 |
| ·113 | ·118 | ·116 | ·118 | ·115 | ·110 | ·113 | ·099 | ·099 | ·108 | ·117 | ·113 | ·119 | ·116 |
| ·103 | ·098 | ·098 | ·094 | ·090 | ·089 | ·087 | ·096 | ·097 | ·103 | ·106 | ·113 | ·114 | ·106 |
| ·095 | ·095 | ·093 | ·092 | ·093 | ·093 | ·091 | ·090 | ·090 | ·092 | ·096 | ·103 | ·104 | ·100 |
| ·132 | ·125 | ·124 | ·119 | ·120 | ·118 | ·117 | ·114 | ·114 | ·118 | ·126 | ·127 | ·126 | ·129 |
| ·101 | ·101 | ·100 | ·100 | ·097 | ·095 | ·097 | ·092 | ·092 | ·096 | ·102 | ·105 | ·107 | ·104 |
| ·079 | ·081 | ·081 | ·076 | ·076 | ·077 | ·085 | ·071 | ·072 | ·080 | ·087 | ·091 | ·093 | ·087 |
| ·142 | ·145 | ·141 | ·135 | ·136 | ·132 | ·131 | ·134 | ·135 | ·139 | ·130 | ·149 | ·149 | ·145 |
| ·145 | ·157 | ·154 | ·156 | ·153 | ·152 | ·150 | ·143 | ·144 | ·156 | ·154 | ·157 | ·160 | ·152 |
| ·143 | ·147 | ·148 | ·142 | ·140 | ·143 | ·142 | ·137 | ·139 | ·151 | ·157 | ·163 | ·164 | ·155 |
| ·100 | ·103 | ·101 | ·101 | ·096 | ·097 | ·092 | ·093 | ·094 | ·100 | ·102 | ·107 | ·107 | ·105 |
| ·135 | ·133 | ·127 | ·127 | ·127 | ·124 | ·124 | ·118 | ·121 | ·127 | ·128 | ·131 | ·133 | ·135 |
| ·124 | ·128 | ·125 | ·123 | ·121 | ·121 | ·121 | ·116 | ·117 | 126 | ·126 | ·133 | ·136 | ·130 |
| ·181 | ·182 | ·180 | ·176 | ·176 | ·175 | ·166 | ·156 | ·165 | ·181 | ·187 | ·200 | ·203 | ·189 |
| ·228 | ·222 | ·221 | ·217 | ·216 | ·218 | ·215 | ·214 | ·226 | ·235 | ·252 | ·262 | ·269 | ·248 |
| ·184 | ·178 | ·175 | ·173 | ·174 | ·173 | ·173 | ·175 | ·177 | ·186 | ·193 | ·192 | ·199 | ·188 |
| ·202 | ·202 | ·203 | ·200 | ·198 | ·194 | ·187 | ·183 | ·197 | ·197 | ·211 | ·216 | ·219 | ·206 |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| ·180 | ·178 | ·174 | ·174 | ·168 | ·169 | ·166 | ·166 | ·175 | ·173 | ·184 | ·187 | ·192 | ·184 |
| ·195 | ·192 | ·191 | ·188 | ·186 | ·186 | ·181 | ·179 | ·188 | ·194 | ·205 | ·211 | ·216 | ·203 |
| ·217 | ·217 | ·217 | ·220 | ·215 | ·214 | ·217 | ·217 | ·232 | ·247 | ·259 | ·254 | ·259 | ·236 |
| ·282 | ·280 | ·273 | ·267 | ·266 | ·266 | ·269 | ·278 | ·293 | ·309 | ·327 | ·340 | ·358 | ·309 |
| ·223 | ·225 | ·220 | ·220 | ·214 | ·213 | ·213 | ·230 | ·240 | ·238 | ·253 | ·268 | ·282 | ·250 |
| ·309 | ·291 | ·287 | ·288 | ·290 | ·286 | ·289 | ·302 | ·317 | ·328 | ·345 | ·358 | ·358 | ·328 |
| ·301 | ·289 | ·286 | ·282 | ·282 | ·279 | ·282 | ·294 | ·307 | ·320 | ·332 | ·337 | ·344 | ·318 |
| ·294 | ·289 | ·283 | ·279 | ·278 | ·271 | ·274 | ·298 | ·307 | ·321 | ·334 | ·346 | ·356 | ·317 |
| ·271 | ·265 | ·261 | ·259 | ·257 | ·255 | ·257 | ·270 | ·283 | ·294 | ·308 | ·317 | ·326 | ·293 |
| ·346 | ·351 | ·346 | ·342 | ·335 | ·331 | ·342 | ·347 | ·371 | ·385 | ·397 | ·415 | ·430 | ·389 |
| ·349 | ·351 | ·346 | ·338 | ·337 | ·336 | ·335 | ·349 | ·372 | ·389 | ·385 | ·398 | ·423 | ·385 |
| ·380 | ·382 | ·363 | ·355 | ·352 | ·345 | ·341 | ·370 | ·376 | ·389 | ·410 | ·438 | ·453 | ·400 |
| ·384 | ·383 | ·374 | ·368 | ·360 | ·356 | ·363 | ·392 | ·412 | ·427 | ·447 | ·461 | ·462 | ·418 |
| ·348 | ·346 | ·336 | ·336 | ·329 | ·312 | ·315 | ·349 | ·371 | ·388 | ·409 | ·418 | ·428 | ·381 |
| ·389 | ·390 | ·388 | ·376 | ·369 | ·367 | ·368 | ·398 | ·416 | ·441 | ·458 | ·464 | ·468 | ·418 |
| ·366 | ·367 | ·359 | ·352 | ·347 | ·341 | ·344 | ·367 | ·386 | ·403 | ·418 | ·432 | ·444 | ·398 |

TABLE LVI.—*Monthly Means of the Elastic Force of the Aqueous Vapour*

| Mean Toronto Astron. Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------|
| JULY. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | 1842 | ·468 | ·478 | ·478 | ·472 | ·467 | ·469 | ·459 | ·423 | ·412 | ·404 | ·405 |
| | 1843 | ·500 | ·502 | ·490 | ·486 | ·497 | ·492 | ·481 | ·459 | ·427 | ·414 | ·397 |
| | 1844 | ·509 | ·519 | ·503 | ·520 | ·522 | ·519 | ·524 | ·511 | ·466 | ·452 | ·438 |
| | 1845 | ·483 | ·483 | ·484 | ·478 | ·479 | ·473 | ·464 | ·464 | ·451 | ·539 | ·426 |
| | 1846 | ·528 | ·523 | ·534 | ·522 | ·521 | ·506 | ·516 | ·509 | ·488 | ·471 | ·459 |
| | 1847 | ·580 | ·591 | ·582 | ·576 | ·567 | ·557 | ·557 | ·540 | ·523 | ·507 | ·490 |
| Hourly Means. | ·511 | ·516 | ·512 | ·509 | ·509 | ·503 | ·500 | ·484 | ·461 | ·448 | ·436 | |
| AUGUST. | 1842 | ·515 | ·531 | ·538 | ·528 | ·535 | ·525 | ·511 | ·487 | ·472 | ·461 | ·456 |
| | 1843 | ·562 | ·586 | ·575 | ·572 | ·567 | ·567 | ·559 | ·521 | ·494 | ·470 | ·457 |
| | 1844 | ·520 | ·521 | ·531 | ·541 | ·524 | ·510 | ·496 | ·469 | ·464 | ·450 | ·439 |
| | 1845 | ·562 | ·566 | ·568 | ·556 | ·558 | ·566 | ·553 | ·516 | ·497 | ·477 | ·466 |
| | 1846 | ·588 | ·581 | ·571 | ·563 | ·548 | ·545 | ·544 | ·514 | ·506 | ·494 | ·484 |
| | 1847 | ·531 | ·528 | ·522 | ·520 | ·521 | ·515 | ·517 | ·499 | ·480 | ·462 | ·451 |
| | Hourly Means. | ·546 | ·552 | ·551 | ·547 | 542 | ·538 | ·530 | ·501 | ·485 | ·469 | ·459 |
| SEPTEMBER. | 1842 | ·356 | ·349 | ·351 | ·349 | ·347 | ·357 | ·349 | ·338 | ·334 | ·322 | ·322 |
| | 1843 | ·431 | ·450 | ·450 | ·445 | ·439 | ·426 | ·408 | ·390 | ·384 | ·402 | ·370 |
| | 1844 | ·431 | ·422 | ·419 | ·421 | ·417 | ·417 | ·396 | ·388 | ·357 | ·352 | ·346 |
| | 1845 | ·388 | ·375 | ·384 | ·383 | ·380 | ·384 | ·369 | ·354 | ·345 | ·349 | ·340 |
| | 1846 | ·503 | ·500 | ·502 | ·496 | ·492 | ·490 | ·493 | ·473 | ·468 | ·456 | ·439 |
| | 1847 | ·403 | ·402 | ·399 | ·395 | ·393 | ·394 | ·386 | ·370 | ·363 | ·355 | ·348 |
| | Hourly Means. | ·419 | ·416 | ·417 | ·415 | ·411 | ·411 | ·400 | ·386 | ·375 | ·373 | ·361 |
| OCTOBER. | 1842 | ·266 | ·264 | ·266 | ·266 | ·259 | ·249 | ·245 | ·244 | ·241 | ·237 | ·235 |
| | 1843 | ·249 | ·233 | ·230 | ·232 | ·228 | ·226 | ·223 | ·230 | ·226 | ·218 | ·216 |
| | 1844 | ·253 | ·251 | ·249 | ·248 | ·249 | ·249 | ·239 | ·228 | ·229 | ·229 | ·226 |
| | 1845 | ·284 | ·286 | ·286 | ·286 | ·285 | ·278 | ·266 | ·263 | ·259 | ·259 | ·255 |
| | 1846 | ·263 | ·266 | ·255 | ·257 | ·251 | ·251 | ·248 | ·240 | ·234 | ·230 | ·228 |
| | 1847 | ·249 | ·253 | ·250 | ·249 | ·247 | ·241 | ·241 | ·239 | ·237 | ·234 | ·227 |
| | Hourly Means. | ·261 | ·259 | ·256 | ·256 | ·253 | ·249 | ·244 | ·241 | ·238 | ·234 | ·231 |
| NOVEMBER. | 1842 | ·176 | ·184 | ·176 | ·176 | ·176 | ·167 | ·169 | ·166 | ·163 | ·163 | ·162 |
| | 1843 | ·162 | ·169 | ·167 | ·169 | ·164 | ·163 | ·165 | ·166 | ·167 | ·167 | ·161 |
| | 1844 | ·185 | ·187 | ·189 | ·188 | ·185 | ·186 | ·180 | ·172 | ·168 | ·166 | ·164 |
| | 1845 | ·189 | ·189 | ·188 | ·188 | ·189 | ·185 | ·184 | ·184 | ·180 | ·178 | ·176 |
| | 1846 | ·225 | ·224 | ·238 | ·226 | ·221 | ·220 | ·216 | ·215 | ·215 | ·215 | ·210 |
| | 1847 | ·218 | ·221 | ·221 | ·217 | ·214 | ·215 | ·210 | ·208 | ·207 | ·208 | ·206 |
| | Hourly Means. | ·193 | ·196 | ·196 | ·194 | ·192 | ·189 | ·187 | ·185 | ·183 | ·182 | 180 |
| DECEMBER. | 1842 | ·117 | ·120 | ·121 | ·119 | ·119 | ·113 | ·110 | ·110 | ·109 | ·107 | ·100 |
| | 1843 | ·149 | ·150 | ·150 | ·151 | ·150 | ·151 | ·145 | ·145 | ·141 | ·140 | ·140 |
| | 1844 | ·140 | ·143 | ·143 | ·143 | ·136 | ·137 | ·137 | ·132 | ·132 | ·131 | ·128 |
| | 1845 | ·103 | ·106 | ·111 | ·111 | ·106 | ·102 | ·100 | ·097 | ·097 | ·091 | ·093 |
| | 1846 | ·128 | ·132 | ·135 | ·135 | ·133 | ·133 | ·131 | ·131 | ·127 | ·128 | ·126 |
| | 1847 | ·162 | ·164 | ·165 | ·166 | ·165 | ·165 | ·163 | ·162 | ·157 | ·158 | ·159 |
| | Hourly Means. | ·133 | ·136 | ·137 | ·138 | ·135 | ·134 | ·131 | ·129 | ·127 | ·126 | ·124 |

ELASTIC FORCE OF THE AQUEOUS VAPOUR.

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at every Hour from July 1842 to June 1848, inclusive.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·390 | ·379 | ·380 | ·374 | ·369 | ·363 | ·364 | ·398 | ·416 | ·433 | ·441 | ·450 | ·462 | ·423 |
| ·390 | ·381 | ·376 | ·372 | ·370 | ·363 | ·363 | ·404 | ·433 | ·443 | ·452 | ·507 | ·489 | ·437 |
| ·431 | ·426 | ·418 | ·413 | ·413 | ·412 | ·409 | ·446 | ·443 | ·479 | ·484 | ·494 | ·511 | ·469 |
| ·418 | ·414 | ·402 | ·399 | ·394 | ·390 | ·386 | ·412 | ·436 | ·447 | ·454 | ·462 | ·464 | ·442 |
| ·449 | ·453 | ·446 | ·442 | ·417 | ·428 | ·431 | ·480 | ·523 | ·533 | ·540 | ·528 | ·524 | ·490 |
| ·481 | ·463 | ·465 | ·460 | ·449 | ·432 | ·431 | ·476 | ·516 | ·538 | ·567 | ·570 | ·575 | ·521 |
| ·426 | ·419 | ·415 | ·410 | ·402 | ·398 | ·397 | ·436 | ·461 | ·479 | ·490 | ·502 | ·504 | ·464 |
| ·449 | ·442 | ·437 | ·427 | ·424 | ·422 | ·425 | ·430 | ·454 | ·475 | ·519 | ·497 | ·510 | ·478 |
| ·449 | ·449 | ·444 | ·438 | ·429 | ·423 | ·419 | ·433 | ·462 | ·491 | ·521 | ·534 | ·550 | ·499 |
| ·431 | ·428 | ·424 | ·420 | ·417 | ·412 | ·411 | ·424 | ·450 | ·467 | ·486 | ·510 | ·517 | ·469 |
| ·456 | ·458 | ·449 | ·451 | ·444 | ·444 | ·436 | ·456 | ·504 | ·531 | ·558 | ·547 | ·558 | ·507 |
| ·476 | ·467 | ·452 | ·444 | ·437 | ·438 | ·431 | ·450 | ·487 | ·520 | ·537 | ·569 | ·580 | ·509 |
| ·441 | ·437 | ·427 | ·420 | ·412 | ·409 | ·401 | ·421 | ·470 | ·499 | ·512 | ·518 | ·534 | ·477 |
| ·450 | ·447 | ·439 | ·433 | ·427 | ·425 | ·420 | ·436 | ·471 | ·497 | ·522 | ·529 | ·541 | ·490 |
| ·316 | ·327 | ·317 | ·315 | ·313 | ·305 | ·290 | ·297 | ·325 | ·336 | ·343 | ·345 | ·358 | ·332 |
| ·363 | ·357 | ·355 | ·351 | ·346 | ·345 | ·368 | ·356 | ·372 | ·379 | ·390 | ·429 | ·421 | ·393 |
| ·338 | ·337 | ·330 | ·317 | ·316 | ·310 | ·310 | ·331 | ·362 | ·385 | ·403 | ·406 | ·426 | ·372 |
| ·339 | ·328 | ·324 | ·317 | ·317 | ·310 | ·303 | ·313 | ·344 | ·358 | ·375 | ·383 | ·388 | ·352 |
| ·422 | ·430 | ·420 | ·415 | ·400 | ·396 | ·393 | ·400 | ·430 | ·456 | ·473 | ·494 | ·498 | ·456 |
| ·346 | ·342 | ·335 | ·329 | ·322 | ·324 | ·319 | ·326 | ·346 | ·367 | ·381 | ·396 | ·394 | ·364 |
| ·354 | ·354 | ·347 | ·341 | ·336 | ·332 | ·330 | ·337 | ·363 | ·380 | ·394 | ·409 | ·414 | ·378 |
| ·234 | ·230 | ·228 | ·225 | ·224 | ·222 | ·217 | ·219 | ·230 | ·245 | ·253 | ·259 | ·264 | ·243 |
| ·212 | ·205 | ·205 | ·203 | ·201 | ·203 | ·200 | ·209 | ·209 | ·227 | ·226 | ·227 | ·226 | ·219 |
| ·220 | ·230 | ·202 | ·206 | ·206 | ·204 | ·204 | ·205 | ·212 | ·226 | ·241 | ·249 | ·247 | ·229 |
| ·254 | ·239 | ·233 | ·234 | ·233 | ·236 | ·233 | ·234 | ·239 | ·252 | ·265 | ·269 | ·275 | ·258 |
| ·226 | ·235 | ·235 | ·230 | ·229 | ·227 | ·226 | ·227 | ·230 | ·239 | ·242 | ·256 | ·264 | ·241 |
| ·226 | ·226 | ·220 | ·218 | ·216 | ·214 | ·217 | ·214 | ·225 | ·237 | ·248 | ·248 | ·253 | ·235 |
| ·222 | ·228 | ·221 | ·219 | ·218 | ·218 | ·216 | ·218 | ·224 | ·238 | ·246 | ·251 | ·255 | ·238 |
| ·158 | ·156 | ·154 | ·155 | ·152 | ·152 | ·155 | ·154 | ·156 | ·158 | ·166 | ·172 | ·174 | ·164 |
| ·159 | ·158 | ·156 | ·154 | ·147 | ·153 | ·152 | ·152 | ·153 | ·154 | ·154 | ·157 | ·160 | ·160 |
| ·162 | ·163 | ·162 | ·162 | ·159 | ·158 | ·158 | ·157 | ·161 | ·165 | ·168 | ·178 | ·185 | ·171 |
| ·176 | ·167 | ·165 | ·165 | ·165 | ·165 | ·164 | ·169 | ·169 | ·173 | ·178 | ·181 | ·191 | ·177 |
| ·207 | ·205 | ·202 | ·200 | ·199 | ·199 | ·200 | ·210 | ·208 | ·210 | ·220 | ·225 | ·226 | ·214 |
| ·202 | ·200 | ·200 | ·201 | ·200 | ·198 | ·196 | ·202 | ·200 | ·206 | ·213 | ·219 | ·220 | ·208 |
| ·177 | ·175 | ·173 | ·173 | ·170 | ·171 | ·171 | ·174 | ·175 | ·178 | ·183 | ·189 | ·193 | ·182 |
| ·099 | ·106 | ·102 | ·096 | ·100 | ·096 | ·099 | ·098 | ·094 | ·105 | ·107 | ·112 | ·117 | ·107 |
| ·138 | ·142 | ·142 | ·141 | ·141 | ·138 | ·139 | ·140 | ·140 | ·140 | ·142 | ·143 | ·144 | ·143 |
| ·130 | ·132 | ·126 | ·125 | ·124 | ·126 | ·127 | ·128 | ·127 | ·129 | ·133 | ·134 | ·139 | ·133 |
| ·091 | ·090 | ·087 | ·083 | ·086 | ·087 | ·084 | ·086 | ·084 | ·089 | ·095 | ·101 | ·101 | ·095 |
| ·125 | ·124 | ·124 | ·121 | ·123 | ·120 | ·120 | ·114 | ·113 | ·110 | ·117 | ·123 | ·126 | ·125 |
| ·160 | ·158 | ·156 | ·143 | ·148 | ·151 | ·149 | ·147 | ·146 | ·146 | ·149 | ·155 | ·162 | ·157 |
| ·124 | ·125 | ·123 | ·118 | ·120 | ·120 | ·120 | ·119 | ·117 | ·120 | ·124 | ·128 | ·131 | ·127 |

TABLE LVII.—*Mean Monthly Degree of the Humidity of the Air at*

| Mean Toronto Astron. Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|----|
| JANUARY. | 1843 | 84 | 85 | 83 | 80 | 80 | 82 | 85 | 84 | 85 | 84 | 86 |
| | 1844 | 80 | 79 | 80 | 81 | 81 | 82 | 82 | 83 | 83 | 83 | 82 |
| | 1845 | 81 | 82 | 82 | 79 | 79 | 81 | 83 | 81 | 78 | 80 | 80 |
| | 1846 | 80 | 80 | 81 | 81 | 81 | 82 | 82 | 82 | 84 | 85 | 85 |
| | 1847 | 70 | 70 | 68 | 69 | 71 | 74 | 76 | 78 | 79 | 80 | 81 |
| | 1848 | 86 | 86 | 89 | 88 | 86 | 87 | 88 | 89 | 91 | 92 | 93 |
| Hourly Means. | 80 | 80 | 81 | 80 | 80 | 81 | 83 | 83 | 83 | 84 | 84 | |
| FEBRUARY. | 1843 | 60 | 57 | 58 | 58 | 58 | 57 | 55 | 54 | 55 | 55 | 54 |
| | 1844 | 78 | 76 | 73 | 76 | 78 | 78 | 81 | 84 | 86 | 84 | 86 |
| | 1845 | 78 | 79 | 78 | 78 | 77 | 76 | 77 | 76 | 77 | 77 | 76 |
| | 1846 | 75 | 73 | 72 | 72 | 76 | 78 | 78 | 78 | 79 | 82 | 81 |
| | 1847 | 74 | 72 | 75 | 74 | 74 | 76 | 78 | 77 | 78 | 79 | 81 |
| | 1848 | 73 | 73 | 73 | 74 | 77 | 79 | 85 | 88 | 89 | 93 | 93 |
| Hourly Means. | 73 | 72 | 71 | 72 | 73 | 74 | 76 | 76 | 77 | 78 | 79 | |
| MARCH. | 1843 | 66 | 69 | 67 | 67 | 66 | 65 | 68 | 72 | 72 | 73 | 74 |
| | 1844 | 69 | 75 | 75 | 74 | 78 | 76 | 79 | 80 | 81 | 84 | 84 |
| | 1845 | 62 | 63 | 60 | 63 | 61 | 65 | 65 | 67 | 70 | 74 | 74 |
| | 1846 | 73 | 72 | 74 | 74 | 72 | 79 | 78 | 79 | 84 | 83 | 84 |
| | 1847 | 64 | 64 | 62 | 62 | 66 | 68 | 70 | 70 | 70 | 73 | 74 |
| | 1848 | 74 | 76 | 74 | 74 | 74 | 78 | 79 | 81 | 85 | 88 | 89 |
| Hourly Means. | 68 | 70 | 69 | 69 | 69 | 72 | 73 | 75 | 77 | 79 | 80 | |
| APRIL. | 1843 | 69 | 67 | 64 | 66 | 64 | 65 | 70 | 75 | 75 | 77 | 77 |
| | 1844 | 69 | 65 | 64 | 62 | 64 | 66 | 64 | 71 | 75 | 80 | 82 |
| | 1845 | 64 | 64 | 62 | 60 | 64 | 62 | 66 | 71 | 74 | 77 | 74 |
| | 1846 | 63 | 61 | 60 | 58 | 60 | 63 | 67 | 72 | 75 | 79 | 79 |
| | 1847 ^a | — | — | — | — | — | — | — | — | — | — | — |
| | 1848 | 64 | 61 | 64 | 64 | 64 | 65 | 66 | 72 | 73 | 73 | 74 |
| Hourly Means. | 66 | 64 | 63 | 62 | 63 | 64 | 67 | 72 | 74 | 77 | 77 | |
| MAY. | 1843 | 64 | 61 | 60 | 57 | 54 | 55 | 56 | 62 | 68 | 73 | 73 |
| | 1844 | 76 | 67 | 64 | 63 | 63 | 61 | 64 | 70 | 74 | 76 | 79 |
| | 1845 | 65 | 63 | 62 | 61 | 61 | 60 | 61 | 64 | 69 | 75 | 77 |
| | 1846 | 71 | 69 | 68 | 66 | 67 | 63 | 70 | 72 | 71 | 80 | 80 |
| | 1847 | 65 | 64 | 63 | 64 | 64 | 68 | 69 | 74 | 76 | 79 | 79 |
| | 1848 | 68 | 67 | 67 | 66 | 66 | 69 | 72 | 75 | 78 | 79 | 81 |
| Hourly Means. | 68 | 65 | 64 | 63 | 63 | 64 | 65 | 69 | 73 | 77 | 78 | |
| JUNE. | 1843 | 78 | 74 | 72 | 71 | 67 | 68 | 69 | 73 | 78 | 83 | 85 |
| | 1844 | 71 | 71 | 67 | 64 | 62 | 63 | 63 | 69 | 75 | 79 | 81 |
| | 1845 | 70 | 66 | 67 | 67 | 67 | 65 | 66 | 72 | 77 | 81 | 84 |
| | 1846 | 66 | 64 | 64 | 64 | 63 | 63 | 67 | 71 | 74 | 78 | 79 |
| | 1847 | 74 | 74 | 72 | 73 | 72 | 76 | 72 | 77 | 79 | 81 | 82 |
| | 1848 | 64 | 63 | 61 | 60 | 60 | 62 | 65 | 68 | 74 | 78 | 81 |
| Hourly Means. | 71 | 69 | 67 | 67 | 65 | 66 | 67 | 72 | 76 | 80 | 82 | |

^a Observations of the Wet Thermometer in the month of April 1847 have been cancelled.

HUMIDITY OF THE AIR.

every Hour from July 1842 to June 1848, inclusive.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 87 | 83 | 83 | 84 | 85 | 84 | 86 | 88 | 86 | 88 | 88 | 86 | 83 | 85 |
| 83 | 85 | 86 | 86 | 86 | 85 | 82 | 83 | 82 | 85 | 97 | 82 | 82 | 83 |
| 80 | 84 | 83 | 83 | 83 | 83 | 82 | 83 | 83 | 83 | 86 | 85 | 83 | 82 |
| 84 | 87 | 86 | 87 | 86 | 86 | 87 | 86 | 86 | 86 | 86 | 83 | 81 | 84 |
| 78 | 79 | 80 | 80 | 80 | 78 | 78 | 77 | 79 | 78 | 75 | 72 | 70 | 76 |
| 94 | 95 | 94 | 94 | 94 | 94 | 94 | 99 | 99 | 96 | 93 | 90 | 88 | 92 |
| 84 | 86 | 85 | 86 | 86 | 85 | 85 | 86 | 86 | 86 | 88 | 83 | 81 | 84 |
| 54 | 56 | 54 | 67 | 52 | 49 | 39 | 52 | 53 | 51 | 57 | 54 | 54 | 55 |
| 85 | 86 | 86 | 85 | 86 | 84 | 85 | 85 | 86 | 85 | 84 | 82 | 78 | 82 |
| 77 | 79 | 79 | 81 | 82 | 81 | 84 | 77 | 78 | 82 | 82 | 75 | 76 | 78 |
| 83 | 83 | 87 | 85 | 86 | 87 | 87 | 88 | 86 | 87 | 80 | 79 | 75 | 81 |
| 82 | 84 | 82 | 83 | 83 | 84 | 84 | 82 | 85 | 82 | 80 | 78 | 74 | 79 |
| 95 | 92 | 94 | 92 | 93 | 93 | 92 | 91 | 91 | 91 | 85 | 79 | 74 | 86 |
| 79 | 80 | 80 | 82 | 80 | 80 | 78 | 79 | 80 | 80 | 78 | 74 | 72 | 77 |
| 74 | 76 | 78 | 74 | 75 | 77 | 86 | 73 | 72 | 70 | 74 | 70 | 67 | 72 |
| 84 | 86 | 86 | 84 | 86 | 85 | 85 | 86 | 86 | 85 | 71 | 80 | 78 | 81 |
| 75 | 81 | 81 | 84 | 83 | 84 | 84 | 82 | 80 | 78 | 72 | 68 | 66 | 73 |
| 82 | 84 | 85 | 82 | 82 | 86 | 85 | 83 | 81 | 81 | 76 | 74 | 72 | 79 |
| 75 | 76 | 76 | 77 | 76 | 78 | 76 | 77 | 76 | 73 | 69 | 67 | 63 | 71 |
| 90 | 92 | 89 | 90 | 90 | 89 | 90 | 91 | 89 | 86 | 79 | 77 | 73 | 83 |
| 80 | 83 | 82 | 82 | 82 | 83 | 84 | 82 | 81 | 79 | 74 | 73 | 70 | 76 |
| 79 | 79 | 80 | 79 | 81 | 82 | 79 | 75 | 74 | 75 | 74 | 74 | 72 | 74 |
| 81 | 79 | 81 | 81 | 83 | 85 | 85 | 87 | 83 | 78 | 76 | 74 | 72 | 75 |
| 75 | 75 | 76 | 78 | 79 | 79 | 79 | 77 | 74 | 71 | 68 | 65 | 65 | 71 |
| 80 | 81 | 81 | 82 | 84 | 83 | 80 | 79 | 75 | 70 | 71 | 68 | 66 | 72 |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 78 | 79 | 79 | 80 | 80 | 82 | 83 | 81 | 77 | 68 | 68 | 65 | 64 | 72 |
| 79 | 79 | 79 | 80 | 81 | 82 | 81 | 80 | 77 | 72 | 71 | 69 | 68 | 73 |
| 75 | 75 | 76 | 80 | 80 | 81 | 81 | 78 | 73 | 70 | 73 | 66 | 64 | 69 |
| 80 | 84 | 84 | 84 | 86 | 87 | 88 | 84 | 81 | 80 | 78 | 76 | 75 | 76 |
| 75 | 76 | 78 | 81 | 81 | 82 | 82 | 79 | 75 | 68 | 66 | 65 | 66 | 70 |
| 81 | 81 | 81 | 85 | 86 | 87 | 87 | 83 | 78 | 75 | 73 | 72 | 71 | 76 |
| 81 | 81 | 82 | 84 | 86 | 87 | 88 | 88 | 80 | 75 | 72 | 68 | 67 | 75 |
| 81 | 84 | 87 | 87 | 90 | 90 | 91 | 88 | 81 | 77 | 73 | 71 | 70 | 77 |
| 79 | 80 | 81 | 84 | 85 | 86 | 86 | 83 | 78 | 74 | 73 | 70 | 69 | 74 |
| 84 | 86 | 88 | 89 | 90 | 90 | 93 | 89 | 86 | 86 | 82 | 80 | 79 | 81 |
| 83 | 86 | 87 | 86 | 87 | 87 | 87 | 86 | 83 | 80 | 71 | 73 | 72 | 76 |
| 86 | 85 | 85 | 86 | 88 | 89 | 88 | 85 | 77 | 75 | 74 | 74 | 73 | 77 |
| 79 | 80 | 80 | 80 | 81 | 81 | 82 | 81 | 76 | 73 | 72 | 71 | 68 | 73 |
| 84 | 85 | 85 | 86 | 86 | 82 | 81 | 85 | 83 | 79 | 79 | 76 | 75 | 79 |
| 83 | 87 | 89 | 89 | 90 | 90 | 89 | 87 | 81 | 76 | 74 | 71 | 68 | 75 |
| 83 | 85 | 86 | 86 | 87 | 87 | 87 | 86 | 81 | 78 | 75 | 74 | 73 | 77 |

TABLE LVII.—*Mean Monthly Degree of the Humidity of the Air at*

| Mean Toronto Astron. Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|----|
| JULY. | 1842 | 64 | 62 | 58 | 57 | 57 | 58 | 58 | 62 | 71 | 76 | 80 |
| | 1843 | 69 | 61 | 61 | 60 | 61 | 60 | 61 | 66 | 73 | 77 | 79 |
| | 1844 | 67 | 66 | 63 | 64 | 64 | 63 | 66 | 73 | 77 | 81 | 83 |
| | 1845 | 60 | 58 | 57 | 55 | 57 | 57 | 60 | 67 | 75 | 78 | 78 |
| | 1846 | 63 | 63 | 63 | 60 | 60 | 59 | 65 | 72 | 76 | 80 | 80 |
| | 1847 | 68 | 69 | 68 | 67 | 66 | 68 | 72 | 77 | 82 | 86 | 86 |
| Hourly Means. | 65 | 63 | 62 | 61 | 61 | 61 | 64 | 69 | 76 | 80 | 81 | |
| AUGUST. | 1842 | 70 | 70 | 69 | 66 | 67 | 66 | 68 | 75 | 81 | 83 | 84 |
| | 1843 | 73 | 71 | 67 | 67 | 65 | 67 | 69 | 77 | 83 | 83 | 84 |
| | 1844 | 74 | 72 | 72 | 72 | 70 | 67 | 72 | 75 | 84 | 85 | 86 |
| | 1845 | 68 | 67 | 65 | 64 | 65 | 67 | 72 | 75 | 79 | 81 | 83 |
| | 1846 | 70 | 68 | 67 | 65 | 64 | 66 | 70 | 73 | 78 | 81 | 81 |
| | 1847 | 72 | 71 | 69 | 69 | 70 | 72 | 76 | 82 | 86 | 88 | 88 |
| Hourly Means. | 71 | 70 | 68 | 67 | 67 | 68 | 71 | 76 | 82 | 84 | 84 | |
| SEPTEMBER. | 1842 | 67 | 64 | 63 | 62 | 62 | 65 | 72 | 78 | 81 | 82 | 85 |
| | 1843 | 75 | 74 | 73 | 71 | 72 | 73 | 77 | 81 | 83 | 90 | 85 |
| | 1844 | 71 | 67 | 66 | 66 | 65 | 66 | 73 | 81 | 80 | 81 | 83 |
| | 1845 | 73 | 70 | 70 | 70 | 70 | 76 | 76 | 80 | 81 | 86 | 87 |
| | 1846 | 73 | 74 | 72 | 72 | 73 | 76 | 79 | 82 | 83 | 85 | 85 |
| | 1847 | 77 | 77 | 76 | 76 | 77 | 79 | 82 | 86 | 88 | 87 | 88 |
| Hourly Means. | 73 | 71 | 70 | 70 | 70 | 72 | 77 | 81 | 83 | 85 | 86 | |
| OCTOBER. | 1842 | 72 | 69 | 69 | 69 | 69 | 71 | 77 | 80 | 83 | 84 | 87 |
| | 1843 | 79 | 73 | 73 | 73 | 74 | 78 | 82 | 88 | 88 | 87 | 88 |
| | 1844 | 74 | 73 | 71 | 70 | 72 | 77 | 82 | 81 | 84 | 85 | 87 |
| | 1845 | 75 | 75 | 75 | 76 | 77 | 80 | 83 | 86 | 88 | 88 | 88 |
| | 1846 | 76 | 74 | 72 | 73 | 73 | 77 | 82 | 82 | 82 | 83 | 85 |
| | 1847 | 72 | 73 | 70 | 71 | 71 | 75 | 79 | 82 | 83 | 86 | 85 |
| Hourly Means. | 75 | 73 | 72 | 72 | 73 | 76 | 81 | 83 | 85 | 86 | 87 | |
| NOVEMBER. | 1842 | 81 | 83 | 80 | 80 | 83 | 84 | 89 | 88 | 89 | 90 | 89 |
| | 1843 | 77 | 79 | 78 | 79 | 80 | 81 | 84 | 86 | 87 | 88 | 87 |
| | 1844 | 79 | 78 | 78 | 78 | 79 | 85 | 87 | 86 | 86 | 87 | 87 |
| | 1845 | 76 | 75 | 74 | 76 | 80 | 80 | 81 | 83 | 82 | 83 | 84 |
| | 1846 | 79 | 77 | 79 | 78 | 78 | 82 | 82 | 83 | 84 | 85 | 84 |
| | 1847 | 84 | 84 | 84 | 83 | 84 | 88 | 89 | 90 | 89 | 90 | 89 |
| Hourly Means. | 79 | 79 | 79 | 79 | 81 | 83 | 85 | 86 | 86 | 87 | 87 | |
| DECEMBER. | 1842 | 76 | 75 | 76 | 74 | 77 | 76 | 76 | 78 | 78 | 77 | 74 |
| | 1843 | 79 | 79 | 79 | 80 | 82 | 85 | 83 | 84 | 83 | 84 | 84 |
| | 1844 | 79 | 79 | 79 | 80 | 78 | 82 | 84 | 81 | 82 | 85 | 85 |
| | 1845 | 76 | 77 | 79 | 79 | 78 | 78 | 80 | 79 | 79 | 76 | 77 |
| | 1846 | 77 | 77 | 76 | 76 | 77 | 79 | 80 | 80 | 80 | 81 | 81 |
| | 1847 | 87 | 87 | 87 | 88 | 89 | 92 | 93 | 94 | 91 | 93 | 94 |
| Hourly Means. | 79 | 79 | 79 | 79 | 80 | 82 | 83 | 83 | 82 | 83 | 83 | |

HUMIDITY OF THE AIR.

cxix

every Hour from July 1842 to June 1848, inclusive.

| 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means of the 24 Hours. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|
| 81 | 82 | 84 | 85 | 86 | 87 | 87 | 87 | 80 | 76 | 72 | 70 | 67 | 73 |
| 82 | 84 | 85 | 85 | 86 | 88 | 89 | 87 | 83 | 79 | 76 | 79 | 72 | 75 |
| 84 | 87 | 88 | 88 | 90 | 91 | 91 | 88 | 82 | 78 | 76 | 73 | 70 | 77 |
| 80 | 82 | 84 | 86 | 87 | 88 | 86 | 82 | 77 | 71 | 65 | 64 | 60 | 71 |
| 83 | 86 | 85 | 86 | 84 | 88 | 88 | 87 | 83 | 76 | 73 | 66 | 65 | 75 |
| 86 | 82 | 88 | 88 | 89 | 88 | 88 | 87 | 83 | 78 | 74 | 71 | 69 | 78 |
| 83 | 84 | 86 | 86 | 87 | 88 | 88 | 86 | 81 | 76 | 73 | 71 | 67 | 75 |
| 85 | 86 | 86 | 86 | 87 | 88 | 87 | 90 | 86 | 82 | 83 | 73 | 72 | 79 |
| 86 | 88 | 88 | 91 | 91 | 92 | 92 | 92 | 88 | 82 | 79 | 75 | 73 | 80 |
| 87 | 88 | 90 | 91 | 92 | 91 | 92 | 92 | 88 | 84 | 82 | 80 | 77 | 82 |
| 83 | 88 | 87 | 88 | 90 | 91 | 91 | 88 | 85 | 80 | 80 | 72 | 69 | 78 |
| 82 | 84 | 84 | 84 | 85 | 86 | 86 | 85 | 81 | 76 | 75 | 73 | 71 | 76 |
| 88 | 89 | 90 | 91 | 91 | 92 | 92 | 91 | 90 | 82 | 79 | 75 | 74 | 82 |
| 85 | 87 | 88 | 89 | 89 | 90 | 90 | 90 | 86 | 81 | 80 | 75 | 73 | 80 |
| 85 | 86 | 85 | 86 | 85 | 85 | 85 | 87 | 88 | 83 | 77 | 73 | 71 | 77 |
| 87 | 86 | 86 | 86 | 86 | 86 | 94 | 90 | 87 | 83 | 79 | 81 | 76 | 82 |
| 85 | 86 | 86 | 85 | 86 | 88 | 89 | 90 | 89 | 84 | 81 | 76 | 74 | 79 |
| 88 | 88 | 89 | 90 | 91 | 92 | 92 | 91 | 89 | 85 | 81 | 76 | 76 | 82 |
| 83 | 86 | 86 | 86 | 87 | 88 | 88 | 88 | 86 | 83 | 79 | 77 | 74 | 81 |
| 90 | 91 | 91 | 91 | 93 | 92 | 92 | 92 | 91 | 86 | 82 | 80 | 78 | 85 |
| 86 | 87 | 87 | 87 | 88 | 89 | 90 | 90 | 88 | 84 | 80 | 77 | 75 | 81 |
| 88 | 89 | 90 | 91 | 92 | 92 | 91 | 91 | 92 | 90 | 82 | 78 | 75 | 82 |
| 89 | 89 | 89 | 90 | 89 | 91 | 91 | 92 | 91 | 93 | 83 | 78 | 75 | 84 |
| 88 | 93 | 86 | 88 | 88 | 88 | 89 | 89 | 89 | 86 | 84 | 82 | 76 | 83 |
| 88 | 89 | 88 | 89 | 90 | 92 | 91 | 90 | 90 | 86 | 80 | 77 | 75 | 84 |
| 86 | 87 | 89 | 88 | 89 | 88 | 89 | 89 | 88 | 85 | 83 | 78 | 77 | 82 |
| 88 | 89 | 89 | 89 | 88 | 88 | 89 | 89 | 90 | 88 | 83 | 77 | 75 | 82 |
| 88 | 89 | 89 | 89 | 89 | 90 | 90 | 90 | 90 | 88 | 83 | 78 | 75 | 83 |
| 88 | 89 | 88 | 89 | 89 | 89 | 89 | 89 | 91 | 88 | 86 | 85 | 82 | 87 |
| 88 | 90 | 90 | 90 | 89 | 90 | 90 | 90 | 89 | 87 | 81 | 78 | 78 | 85 |
| 88 | 88 | 89 | 89 | 90 | 90 | 87 | 88 | 91 | 89 | 84 | 81 | 82 | 85 |
| 86 | 85 | 84 | 86 | 86 | 87 | 86 | 86 | 86 | 86 | 81 | 79 | 79 | 82 |
| 84 | 87 | 86 | 86 | 86 | 86 | 88 | 89 | 89 | 87 | 87 | 84 | 81 | 84 |
| 88 | 89 | 90 | 93 | 94 | 94 | 93 | 94 | 95 | 93 | 91 | 89 | 87 | 89 |
| 87 | 88 | 88 | 89 | 89 | 89 | 89 | 89 | 90 | 88 | 85 | 83 | 82 | 85 |
| 73 | 79 | 77 | 76 | 79 | 77 | 78 | 77 | 76 | 81 | 80 | 78 | 77 | 77 |
| 84 | 86 | 87 | 85 | 87 | 84 | 87 | 87 | 87 | 85 | 84 | 81 | 78 | 83 |
| 85 | 87 | 86 | 86 | 86 | 87 | 86 | 87 | 86 | 86 | 84 | 81 | 80 | 83 |
| 77 | 78 | 77 | 76 | 81 | 81 | 78 | 82 | 81 | 83 | 83 | 82 | 77 | 79 |
| 80 | 82 | 83 | 84 | 85 | 85 | 84 | 83 | 83 | 81 | 82 | 81 | 78 | 81 |
| 94 | 96 | 95 | 84 | 92 | 95 | 94 | 95 | 95 | 94 | 91 | 90 | 91 | 92 |
| 82 | 85 | 84 | 82 | 85 | 85 | 84 | 85 | 85 | 85 | 84 | 82 | 80 | 82 |

TABLE LVIII.

Mean Temperature of the Air for the period from July 1842 to June 1848 inclusive.

| Toronto Astron. Time. } | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
|----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| | January . . . | 27.83 | 28.33 | 28.60 | 28.57 | 28.05 | 27.05 | 26.23 | 25.70 | 25.38 | 25.18 | 24.80 |
| February . . . | 27.07 | 27.93 | 28.33 | 28.32 | 27.77 | 26.57 | 25.12 | 24.13 | 23.28 | 22.63 | 22.08 | 21.57 |
| March . . . | 34.00 | 34.65 | 35.22 | 35.02 | 34.55 | 33.80 | 32.12 | 30.65 | 29.68 | 28.68 | 28.03 | 27.38 |
| April . . . | 47.53 | 48.47 | 48.85 | 48.92 | 48.53 | 47.80 | 46.00 | 43.47 | 41.88 | 40.80 | 40.03 | 39.53 |
| May . . . | 58.80 | 59.72 | 60.07 | 60.13 | 60.08 | 59.70 | 57.95 | 55.08 | 52.37 | 50.62 | 49.65 | 48.73 |
| June . . . | 66.55 | 67.28 | 67.70 | 68.08 | 68.32 | 67.72 | 66.42 | 63.68 | 60.38 | 58.22 | 56.88 | 55.92 |
| July . . . | 72.85 | 73.77 | 74.62 | 74.82 | 74.83 | 74.37 | 72.93 | 69.45 | 65.25 | 62.88 | 61.65 | 60.47 |
| August . . . | 72.30 | 73.07 | 73.65 | 74.00 | 73.85 | 73.30 | 71.40 | 67.42 | 64.50 | 62.92 | 61.90 | 61.10 |
| September . . . | 63.52 | 64.12 | 64.52 | 64.55 | 64.33 | 63.37 | 60.70 | 58.00 | 56.72 | 55.68 | 54.62 | 53.98 |
| October . . . | 49.50 | 49.93 | 50.28 | 50.05 | 49.32 | 47.57 | 45.52 | 44.42 | 43.68 | 42.92 | 42.17 | 41.50 |
| November . . . | 39.57 | 39.97 | 40.05 | 39.88 | 38.98 | 37.77 | 36.95 | 36.38 | 36.07 | 35.78 | 35.43 | 35.08 |
| December . . . | 29.93 | 30.65 | 30.80 | 30.55 | 29.90 | 28.95 | 28.25 | 27.92 | 27.53 | 27.28 | 26.98 | 26.87 |
| Hourly Means | 49.12 | 49.82 | 50.22 | 50.24 | 49.88 | 49.00 | 47.47 | 45.53 | 43.89 | 42.82 | 42.02 | 41.38 |

| | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Monthly Means. |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| January . . . | 23.80 | 23.33 | 23.25 | 23.10 | 23.00 | 22.82 | 23.55 | 23.45 | 23.68 | 24.65 | 25.88 | 27.05 | 25.32 |
| February . . . | 21.45 | 21.07 | 20.73 | 20.30 | 20.00 | 19.65 | 19.08 | 18.95 | 19.97 | 22.27 | 24.28 | 25.87 | 23.27 |
| March . . . | 27.33 | 26.85 | 26.47 | 26.18 | 25.80 | 25.28 | 25.00 | 25.87 | 27.85 | 30.02 | 31.75 | 32.98 | 29.80 |
| April . . . | 39.37 | 38.62 | 37.95 | 37.75 | 37.32 | 36.95 | 37.08 | 39.37 | 41.62 | 43.60 | 45.12 | 46.50 | 42.63 |
| May . . . | 47.88 | 47.02 | 46.18 | 45.47 | 45.00 | 45.05 | 47.50 | 50.48 | 52.70 | 55.02 | 56.72 | 57.85 | 52.91 |
| June . . . | 55.37 | 54.68 | 53.98 | 53.20 | 52.63 | 52.82 | 55.47 | 58.28 | 60.62 | 62.50 | 64.17 | 65.45 | 60.68 |
| July . . . | 59.45 | 58.58 | 58.02 | 57.30 | 56.67 | 56.62 | 59.83 | 63.50 | 66.10 | 68.30 | 70.00 | 71.55 | 65.99 |
| August . . . | 60.30 | 59.65 | 58.97 | 58.30 | 57.92 | 57.73 | 59.18 | 62.15 | 65.42 | 67.92 | 69.90 | 71.35 | 65.76 |
| September . . . | 53.63 | 53.02 | 52.43 | 51.97 | 51.38 | 50.75 | 51.43 | 53.98 | 56.73 | 59.15 | 61.12 | 62.55 | 57.59 |
| October . . . | 40.95 | 40.35 | 40.03 | 39.87 | 39.57 | 39.40 | 39.62 | 40.37 | 42.62 | 45.30 | 47.23 | 48.60 | 44.20 |
| November . . . | 34.42 | 34.13 | 33.85 | 33.53 | 33.37 | 33.48 | 33.75 | 33.75 | 34.80 | 36.33 | 37.77 | 38.78 | 36.24 |
| December . . . | 26.53 | 25.95 | 25.58 | 25.45 | 25.42 | 25.40 | 24.98 | 24.82 | 25.25 | 26.43 | 27.88 | 29.12 | 27.44 |
| Hourly Means | 40.87 | 40.27 | 39.79 | 39.37 | 39.01 | 38.83 | 39.71 | 41.25 | 43.11 | 45.12 | 46.82 | 48.14 | 44.32 |

TABLE LIX.

Mean Height of the Barometer for the period from July 1842 to June 1848 inclusive.

Barometer at 32° = 29 English inches + the decimals in the Table.

| Toronto Astron. Time. } | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
|----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| | January . . . | .610 | .596 | .593 | .599 | .604 | .610 | .618 | .622 | .623 | .623 | .621 |
| February . . . | .623 | .606 | .596 | .596 | .596 | .600 | .607 | .614 | .616 | .618 | .617 | .614 |
| March . . . | .630 | .616 | .604 | .600 | .600 | .605 | .609 | .615 | .622 | .627 | .626 | .626 |
| April . . . | .674 | .666 | .654 | .644 | .640 | .642 | .642 | .643 | .652 | .653 | .650 | .648 |
| May . . . | .573 | .563 | .555 | .546 | .540 | .538 | .540 | .544 | .553 | .562 | .565 | .566 |
| June . . . | .590 | .580 | .572 | .565 | .558 | .553 | .553 | .556 | .560 | .571 | .573 | .575 |
| July . . . | .602 | .593 | .584 | .576 | .570 | .564 | .567 | .569 | .574 | .586 | .588 | .590 |
| August . . . | .654 | .646 | .635 | .624 | .620 | .617 | .618 | .619 | .628 | .633 | .633 | .635 |
| September . . . | .659 | .649 | .636 | .628 | .625 | .625 | .626 | .632 | .641 | .642 | .643 | .642 |
| October . . . | .666 | .653 | .645 | .643 | .643 | .647 | .652 | .656 | .660 | .663 | .665 | .663 |
| November . . . | .626 | .615 | .608 | .610 | .612 | .616 | .621 | .622 | .622 | .622 | .621 | .618 |
| December . . . | .640 | .628 | .621 | .625 | .632 | .634 | .640 | .644 | .643 | .641 | .641 | .638 |
| Hourly Means | .629 | .618 | .608 | .605 | .603 | .604 | .608 | .611 | .616 | .620 | .620 | .620 |

TABLE LIX.—continued.

Mean Height of the Barometer for the period from July 1842 to June 1848 inclusive.

Barometer at 32° = 29 English inches + the decimals in the Table.

| Toronto Astron. Time. } 12 ^h . 13 ^h . 14 ^h . 15 ^h . 16 ^h . 17 ^h . 18 ^h . 19 ^h . 20 ^h . 21 ^h . 22 ^h . 23 ^h . Monthly Means. | | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| January | In. .618 | In. .620 | In. .625 | In. .623 | In. .617 | In. .613 | In. .617 | In. .622 | In. .634 | In. .641 | In. .643 | In. .631 | In. .618 |
| February | .602 | .602 | .604 | .604 | .605 | .607 | .614 | .625 | .638 | .644 | .643 | .639 | .614 |
| March | .619 | .619 | .618 | .613 | .613 | .620 | .626 | .637 | .643 | .645 | .644 | .638 | .622 |
| April | .644 | .637 | .636 | .637 | .638 | .646 | .673 | .685 | .692 | .693 | .692 | .685 | .657 |
| May | .562 | .560 | .558 | .560 | .562 | .574 | .582 | .589 | .592 | .590 | .590 | .583 | .565 |
| June | .568 | .566 | .565 | .566 | .572 | .585 | .595 | .602 | .605 | .604 | .603 | .598 | .577 |
| July | .586 | .584 | .583 | .583 | .587 | .598 | .603 | .610 | .614 | .614 | .613 | .609 | .589 |
| August | .633 | .629 | .626 | .626 | .629 | .635 | .651 | .659 | .663 | .666 | .667 | .662 | .638 |
| September | .637 | .636 | .636 | .636 | .640 | .648 | .665 | .672 | .674 | .678 | .676 | .669 | .647 |
| October | .663 | .666 | .664 | .662 | .664 | .668 | .664 | .677 | .684 | .686 | .684 | .679 | .663 |
| November | .626 | .626 | .629 | .628 | .628 | .626 | .630 | .638 | .647 | .648 | .651 | .642 | .626 |
| December | .637 | .635 | .641 | .641 | .635 | .634 | .649 | .654 | .665 | .669 | .673 | .659 | .643 |
| Hourly Means | .616 | .615 | .615 | .615 | .616 | .621 | .631 | .639 | .646 | .648 | .648 | .641 | .621 |

TABLE LX.

Mean Elastic Force of the Aqueous Vapour for the period from July 1842 to June 1848 inclusive.

| Toronto Astron. Time. } 0 ^h . 1 ^h . 2 ^h . 3 ^h . 4 ^h . 5 ^h . 6 ^h . 7 ^h . 8 ^h . 9 ^h . 10 ^h . 11 ^h . | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| January | In. .126 | In. .127 | In. .129 | In. .128 | In. .125 | In. .123 | In. .121 | In. .118 | In. .118 | In. .117 | In. .116 | In. .115 |
| February | .114 | .115 | .117 | .117 | .117 | .114 | .109 | .107 | .104 | .103 | .102 | .101 |
| March | .136 | .142 | .143 | .143 | .140 | .141 | .136 | .131 | .129 | .129 | .126 | .124 |
| April | .219 | .220 | .221 | .220 | .219 | .220 | .212 | .207 | .203 | .201 | .196 | .195 |
| May | .336 | .331 | .328 | .321 | .321 | .321 | .310 | .298 | .287 | .282 | .276 | .271 |
| June | .446 | .446 | .443 | .444 | .441 | .436 | .424 | .410 | .393 | .380 | .373 | .366 |
| July | .511 | .516 | .512 | .509 | .509 | .503 | .500 | .484 | .461 | .448 | .436 | .426 |
| August | .546 | .552 | .551 | .547 | .542 | .538 | .530 | .501 | .485 | .469 | .459 | .450 |
| September | .419 | .416 | .417 | .415 | .411 | .411 | .400 | .386 | .375 | .373 | .361 | .354 |
| October | .261 | .259 | .256 | .256 | .253 | .249 | .244 | .241 | .238 | .234 | .231 | .222 |
| November | .193 | .196 | .196 | .194 | .192 | .189 | .187 | .185 | .183 | .182 | .180 | .177 |
| December | .133 | .136 | .137 | .138 | .135 | .134 | .131 | .129 | .127 | .126 | .124 | .124 |
| Hourly Means | .287 | .288 | .288 | .286 | .284 | .282 | .275 | .266 | .259 | .254 | .248 | .244 |

| Toronto Astron. Time. } 12 ^h . 13 ^h . 14 ^h . 15 ^h . 16 ^h . 17 ^h . 18 ^h . 19 ^h . 20 ^h . 21 ^h . 22 ^h . 23 ^h . Monthly Means. | | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| January | In. .113 | In. .111 | In. .112 | In. .110 | In. .109 | In. .108 | In. .114 | In. .113 | In. .113 | In. .118 | In. .120 | In. .123 | In. .118 |
| February | .101 | .100 | .100 | .097 | .095 | .097 | .092 | .092 | .096 | .102 | .105 | .107 | .104 |
| March | .128 | .125 | .123 | .121 | .121 | .121 | .116 | .117 | .126 | .126 | .133 | .136 | .130 |
| April | .192 | .191 | .188 | .186 | .186 | .181 | .179 | .188 | .194 | .205 | .211 | .216 | .203 |
| May | .265 | .261 | .259 | .257 | .255 | .257 | .270 | .283 | .294 | .308 | .317 | .326 | .293 |
| June | .367 | .359 | .352 | .347 | .341 | .344 | .367 | .386 | .403 | .418 | .432 | .444 | .398 |
| July | .419 | .415 | .410 | .402 | .398 | .397 | .436 | .461 | .479 | .490 | .502 | .504 | .464 |
| August | .447 | .439 | .433 | .427 | .425 | .420 | .436 | .471 | .497 | .522 | .529 | .541 | .490 |
| September | .354 | .347 | .341 | .336 | .332 | .330 | .337 | .363 | .380 | .394 | .409 | .414 | .378 |
| October | .228 | .221 | .219 | .218 | .218 | .216 | .218 | .224 | .238 | .246 | .251 | .255 | .238 |
| November | .175 | .173 | .173 | .170 | .171 | .171 | .174 | .175 | .178 | .183 | .189 | .193 | .182 |
| December | .125 | .123 | .118 | .120 | .120 | .120 | .119 | .117 | .120 | .124 | .128 | .131 | .127 |
| Hourly Means | .243 | .239 | .236 | .233 | .231 | .230 | .238 | .249 | .260 | .270 | .277 | .283 | .260 |

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LXI.

Mean Gaseous Pressure for the period from July 1842 to June 1848 inclusive.

29 English inches + the decimals in the Table.

| Toronto Astron. Time. } | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
|----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| January . . . | ·484 | ·469 | ·464 | ·471 | ·479 | ·487 | ·497 | ·504 | ·505 | ·506 | ·505 | ·504 |
| February . . . | ·509 | ·491 | ·479 | ·479 | ·479 | ·486 | ·498 | ·507 | ·512 | ·515 | ·515 | ·513 |
| March . . . | ·494 | ·474 | ·461 | ·457 | ·460 | ·464 | ·473 | ·484 | ·493 | ·498 | ·500 | ·502 |
| April . . . | ·455 | ·446 | ·433 | ·424 | ·421 | ·422 | ·430 | ·436 | ·449 | ·452 | ·454 | ·453 |
| May . . . | ·237 | ·232 | ·227 | ·225 | ·219 | ·217 | ·230 | ·246 | ·266 | ·280 | ·289 | ·295 |
| June . . . | ·144 | ·134 | ·129 | ·121 | ·117 | ·117 | ·129 | ·146 | ·167 | ·191 | ·200 | ·209 |
| July . . . | ·091 | ·077 | ·072 | ·067 | ·061 | ·061 | ·067 | ·085 | ·113 | ·138 | ·152 | ·164 |
| August . . . | ·108 | ·094 | ·084 | ·077 | ·078 | ·079 | ·088 | ·118 | ·143 | ·164 | ·174 | ·185 |
| September . . . | ·240 | ·233 | ·219 | ·213 | ·214 | ·214 | ·226 | ·246 | ·266 | ·269 | ·282 | ·288 |
| October . . . | ·405 | ·394 | ·389 | ·387 | ·390 | ·398 | ·408 | ·415 | ·422 | ·429 | ·434 | ·441 |
| November . . . | ·433 | ·419 | ·412 | ·416 | ·420 | ·427 | ·434 | ·437 | ·439 | ·440 | ·441 | ·441 |
| December . . . | ·507 | ·492 | ·484 | ·487 | ·497 | ·500 | ·509 | ·515 | ·516 | ·515 | ·517 | ·514 |
| Hourly Means | ·342 | ·330 | ·321 | ·319 | ·320 | ·323 | ·332 | ·345 | ·358 | ·366 | ·372 | ·376 |

| Toronto Astron. Time. } | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Monthly Means. |
|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| January . . . | ·505 | ·509 | ·513 | ·513 | ·508 | ·505 | ·503 | ·509 | ·521 | ·523 | ·523 | ·508 | ·500 |
| February . . . | ·501 | ·502 | ·504 | ·507 | ·510 | ·510 | ·522 | ·533 | ·542 | ·542 | ·538 | ·532 | ·510 |
| March . . . | ·491 | ·494 | ·495 | ·492 | ·492 | ·499 | ·510 | ·520 | ·517 | ·519 | ·511 | ·502 | ·492 |
| April . . . | ·452 | ·446 | ·448 | ·451 | ·452 | ·465 | ·494 | ·497 | ·498 | ·488 | ·481 | ·469 | ·454 |
| May . . . | ·297 | ·299 | ·299 | ·303 | ·307 | ·317 | ·312 | ·306 | ·298 | ·282 | ·273 | ·257 | ·272 |
| June . . . | ·201 | ·207 | ·213 | ·219 | ·231 | ·241 | ·228 | ·216 | ·202 | ·186 | ·171 | ·154 | ·179 |
| July . . . | ·167 | ·169 | ·173 | ·181 | ·189 | ·201 | ·167 | ·149 | ·135 | ·124 | ·111 | ·105 | ·126 |
| August . . . | ·186 | ·190 | ·193 | ·199 | ·204 | ·215 | ·215 | ·188 | ·166 | ·144 | ·138 | ·121 | ·148 |
| September . . . | ·283 | ·289 | ·295 | ·300 | ·308 | ·318 | ·328 | ·309 | ·294 | ·284 | ·267 | ·255 | ·269 |
| October . . . | ·435 | ·445 | ·445 | ·444 | ·446 | ·452 | ·446 | ·453 | ·446 | ·440 | ·433 | ·424 | ·425 |
| November . . . | ·451 | ·453 | ·456 | ·458 | ·457 | ·455 | ·456 | ·463 | ·469 | ·465 | ·462 | ·449 | ·444 |
| December . . . | ·512 | ·514 | ·523 | ·521 | ·515 | ·514 | ·530 | ·537 | ·545 | ·545 | ·545 | ·528 | ·516 |
| Hourly Means | ·373 | ·376 | ·380 | ·382 | ·385 | ·391 | ·393 | ·390 | ·386 | ·379 | ·371 | ·359 | ·36 |

TABLE LXIII.

Mean Annual Variations of the Meteorological Phenomena.

| MONTHS. | Thermometer. | Elastic Force of Vapour. | Humidity. | Barometer. | Gaseous Pressure. |
|-----------------|--------------|--------------------------------|-----------|------------|----------------------|
| | ° | In. | | In. | In. |
| January . . . | -19·00 | -·142 | + 5 | -·003 | +·139 |
| February . . . | -21·05 | -·156 | - 2 | +·007 | +·149 |
| March . . . | -14·51 | -·130 | - 3 | +·001 | +·131 |
| April . . . | - 1·68 | -·057 | - 6 | +·036 | +·093 |
| May . . . | + 8·59 | +·033 | - 5 | -·056 | -·089 |
| June . . . | +16·37 | +·138 | - 2 | -·044 | -·182 |
| July . . . | +21·67 | +·204 | - 4 | -·032 | -·235 |
| August . . . | +21·42 | +·230 | + 1 | +·017 | -·213 |
| September . . . | +13·27 | +·118 | + 2 | +·026 | -·092 |
| October . . . | - 0·12 | -·022 | + 4 | +·042 | +·064 |
| November . . . | - 8·08 | -·078 | + 6 | +·005 | +·083 |
| December . . . | -16·89 | -·133 | + 3 | +·022 | +·155 |

HUMIDITY OF THE AIR.

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TABLE LXII.

Mean Degree of the Humidity of the Air for the period from July 1842 to June 1848 inclusive.

| Toronto Astron. Time. } } | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| January . . . | 80 | 80 | 81 | 80 | 80 | 81 | 83 | 83 | 83 | 84 | 84 | 84 |
| February . . . | 73 | 72 | 71 | 72 | 73 | 74 | 76 | 76 | 77 | 78 | 79 | 79 |
| March . . . | 68 | 70 | 69 | 69 | 69 | 72 | 73 | 75 | 77 | 79 | 80 | 80 |
| April . . . | 66 | 64 | 63 | 62 | 63 | 64 | 67 | 72 | 74 | 77 | 77 | 79 |
| May . . . | 68 | 65 | 64 | 63 | 63 | 64 | 65 | 69 | 73 | 77 | 78 | 79 |
| June . . . | 71 | 69 | 67 | 67 | 65 | 66 | 67 | 72 | 76 | 80 | 82 | 83 |
| July . . . | 65 | 63 | 62 | 61 | 61 | 61 | 64 | 69 | 76 | 80 | 81 | 83 |
| August . . . | 71 | 70 | 68 | 67 | 67 | 68 | 71 | 76 | 82 | 84 | 84 | 85 |
| September . . | 73 | 71 | 70 | 70 | 70 | 72 | 77 | 81 | 83 | 85 | 86 | 86 |
| October . . . | 75 | 73 | 72 | 72 | 73 | 76 | 81 | 83 | 85 | 86 | 87 | 88 |
| November . . | 79 | 79 | 79 | 79 | 81 | 83 | 85 | 86 | 86 | 87 | 87 | 87 |
| December . . | 79 | 79 | 79 | 79 | 80 | 82 | 83 | 83 | 82 | 83 | 83 | 82 |
| Hourly Means | 72 | 71 | 70 | 70 | 70 | 72 | 74 | 77 | 79 | 82 | 82 | 83 |

| Toronto Astron. Time. } } | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Monthly Means. |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| January . . . | 86 | 85 | 86 | 86 | 85 | 85 | 86 | 86 | 86 | 88 | 83 | 81 | 84 |
| February . . . | 80 | 80 | 82 | 80 | 80 | 78 | 79 | 80 | 80 | 78 | 74 | 72 | 77 |
| March . . . | 83 | 82 | 82 | 82 | 83 | 84 | 82 | 81 | 79 | 74 | 73 | 70 | 76 |
| April . . . | 79 | 79 | 80 | 81 | 82 | 81 | 80 | 77 | 72 | 71 | 69 | 68 | 73 |
| May . . . | 80 | 81 | 84 | 85 | 86 | 86 | 83 | 78 | 74 | 73 | 70 | 69 | 74 |
| June . . . | 85 | 86 | 86 | 87 | 87 | 87 | 86 | 81 | 78 | 75 | 74 | 73 | 77 |
| July . . . | 84 | 86 | 86 | 87 | 88 | 88 | 86 | 81 | 76 | 73 | 71 | 67 | 75 |
| August . . . | 87 | 88 | 89 | 89 | 90 | 90 | 90 | 86 | 81 | 80 | 75 | 73 | 80 |
| September . . | 87 | 87 | 87 | 88 | 89 | 90 | 90 | 88 | 84 | 80 | 77 | 75 | 81 |
| October . . . | 89 | 89 | 89 | 89 | 90 | 90 | 90 | 90 | 88 | 83 | 78 | 75 | 83 |
| November . . | 88 | 88 | 89 | 89 | 89 | 89 | 89 | 90 | 88 | 85 | 83 | 82 | 85 |
| December . . | 85 | 84 | 82 | 85 | 85 | 84 | 85 | 85 | 85 | 84 | 82 | 80 | 82 |
| Hourly Means | 84 | 85 | 85 | 86 | 86 | 86 | 86 | 84 | 81 | 79 | 76 | 74 | 79 |

TABLE LXIV.

Mean Diurnal Variations of the Meteorological Phenomena.

| HOURS. | Thermometer. | Elastic Force of Vapour. | Humidity. | Barometer. | Gaseous Pressure. | HOURS. | Thermometer. | Elastic Force of Vapour. | Humidity. | Barometer. | Gaseous Pressure. |
|--------|--------------|--------------------------------|-----------|------------|----------------------|--------|--------------|--------------------------------|-----------|------------|----------------------|
| | ° | In. | | In. | In. | | ° | In. | | In. | In. |
| 0 | +4.80 | +0.27 | - 7 | +0.008 | -0.019 | 12 | -3.42 | -0.017 | + 5 | -0.005 | +0.012 |
| 1 | +5.49 | +0.28 | - 8 | -0.003 | -0.031 | 13 | -4.03 | -0.021 | + 6 | -0.006 | +0.015 |
| 2 | +5.90 | +0.28 | - 9 | -0.013 | -0.040 | 14 | -4.51 | -0.024 | + 6 | -0.005 | +0.019 |
| 3 | +5.92 | +0.26 | - 9 | -0.016 | -0.042 | 15 | -4.97 | -0.027 | + 7 | -0.006 | +0.021 |
| 4 | +5.56 | +0.24 | - 9 | -0.018 | -0.041 | 16 | -5.31 | -0.029 | + 7 | -0.005 | +0.024 |
| 5 | +4.68 | +0.22 | - 7 | -0.017 | -0.038 | 17 | -5.48 | -0.030 | + 7 | 0.000 | +0.030 |
| 6 | +3.15 | +0.15 | - 5 | -0.013 | -0.029 | 18 | -4.56 | -0.022 | + 7 | +0.010 | +0.032 |
| 7 | +1.21 | +0.06 | - 2 | -0.010 | -0.016 | 19 | -3.07 | -0.011 | + 5 | +0.018 | +0.029 |
| 8 | -0.41 | -0.01 | 0 | -0.005 | -0.003 | 20 | -1.21 | 0.000 | + 2 | +0.025 | +0.025 |
| 9 | -1.52 | -0.06 | + 3 | -0.001 | +0.005 | 21 | +0.80 | +0.010 | 0 | +0.027 | +0.018 |
| 10 | -2.30 | -0.12 | + 3 | -0.001 | +0.011 | 22 | +2.50 | +0.017 | - 3 | +0.027 | +0.010 |
| 11 | -2.94 | -0.16 | + 4 | -0.001 | +0.015 | 23 | +3.82 | +0.023 | - 5 | +0.020 | -0.002 |

Corrections to be applied to Thermometric Observations made at Toronto at any hour of the day, for the purpose of giving the corresponding mean temperature of the day.

Table LVIII. (page cxx.) exhibits the mean temperature of every month in the year derived from hourly observations from July 1842 to June 1848 inclusive, as well as the mean monthly temperature at every hour of the twenty-four derived from the same series; it furnishes, therefore, by inspection, corrections to be applied to the monthly means of thermometric observations made at any hour of mean time, whereby the mean temperature of the *month*, such as would have been given by a mean of twenty-four equidistant observations, may be obtained, approximately at least, from daily observations at a single hour. Many meteorological problems, however, require determinations of mean temperature for shorter periods than monthly ones. In Europe five-day means are in frequent request; and for some problems even daily means are required. It is desirable therefore that a table should be formed from the mean monthly results in Table LVIII., which may supply, for Toronto and places in its vicinity, the means of deriving from an observation made at any time whatsoever in the course of the twenty-four hours, the best approximation attainable by it to the mean temperature of the *day*, such as would have been given by the mean of twenty-four equidistant observations.

It is now generally recognised that, when a single observer constitutes the whole observing staff, a mean of three equidistant observations in the 24 hours furnishes the most satisfactory approximation to the daily mean temperature which is within his command. The hours of 6 A.M., 2 P.M., and 10 P.M. are those which are usually preferred; but the frequent substitution of the three non-equidistant hours of 7 A.M., 2 P.M., and 9 P.M., shows that even the least inconvenient combination of three hours having equal intervals, is not always unattended with difficulty.* No combination of three fixed hours of observation will however give an equally good approximation to the mean temperature of the day at all seasons of the year; and were it only for this reason it is preferable, even when three equidistant observations are made, to apply to each of the observations separately a correction to the mean temperature of the day, based on such a table as LVIII. (founded on a sufficient number of years of observation), and to take the mean of the three observations so corrected for the mean temperature of the day. But the chief advantage of a table of corrections for the purpose of reducing observations at any hour to the mean temperature of the day, is in its

* The hourly series from July 1842 to June 1848, shows that at Toronto 6 A.M., 2 P.M., and 10 P.M., give a nearer approximation, on the average of the year, to the mean of twenty-four hourly observations, than do 7 A.M., 2 P.M., and 9 P.M. But 6½ A.M., 2 P.M., and 9½ P.M., appear to form a combination preferable for this particular purpose to either of the two other combinations.

setting the observer free to select his hours of observation untrammelled by the condition that their uncorrected mean should present of itself a close approximation to the mean temperature of all the hours. It must of course be always desirable that when the observations are few they should be widely separated, as affording a better chance of compensation for transient accidental variations; but absolute or nearly approximate *equidistance* loses a great part of its importance when a table of corrections exists; and the observer is thus placed at greater freedom to choose the hours which may be most suitable either to his convenience, or to other researches in which he may desire to engage, having reference to particular points of meteorological or climatic interest.

Although the application of such a table may, in strictness, be regarded as limited to observations made exclusively at the station from whence it is derived, yet practically such tables are found of considerable value in facilitating the reduction of observations at stations, not too distant, which may be subject for the most part to the same or to similar meteorological influences. In this point of view, Toronto, as a normal station, may perhaps be useful, within reasonable limits, in aiding the reduction and co-ordination of observations in Canada and the United States, such as those which are now in progress on the system proposed by the Smithsonian Institution.

For these objects Table LXV. has been formed from the data contained in Table LVIII. The temperatures on the different days of the year, and at the different hours of the day, have been computed from the several monthly means by the well-known formula usually called Bessel's:—

$$t_x = A_0 + A_1 \cos a + B_1 \sin a + A_2 \cos 2a + B_2 \sin 2a + A_3 \cos 3a + B_3 \sin 3a \\ + A_4 \cos 4a + B_4 \sin 4a + A_5 \cos 5a + B_5 \sin 5a + A_6 \cos 6a;$$

in which t is the temperature on x the required day, A_0 the mean temperature of the year at the hour required, $a = n \times 30^\circ$, n being the number of months and parts of a month between a fixed epoch and x , and $A_1, A_2, \dots, A_6, B_1, B_2, \dots, B_5$ constants derived from the data in Table LVIII. by the method of least squares. From the temperatures thus computed, corrections have been obtained to the mean temperature of the day for every hour of mean astronomical time throughout the year. Table LXV. exhibits these corrections for every hour on every fifth day throughout the year; the corrections on the intermediate days admitting of easy interpolation at sight.

TABLE LXV.

Corrections for every Fifth Day of the Year, to be applied to the Temperature observed at Toronto at any of the hours of Mean Astronomical Time, in order to give the Mean Temperature of the Day.

First Part, January to June. The corrections in the smaller type are subtractive; in the larger type additive.

| Days of the Month. | Hours of Mean Astronomical Time. | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|------|------|------|------|------|------|------|------|------|------|--------------|------|
| | 0h. | 1h. | 2h. | 3h. | 4h. | 5h. | 6h. | 7h. | 8h. | 9h. | 10h. | 11h. | 12h. | 13h. | 14h. | 15h. | 16h. | 17h. | 18h. | 19h. | 20h. | 21h. | 22h. | 23h. |
| | Subtractive. | | | | | | | | | | | Additive. | | | | | | | | | | | Subtractive. | |
| JANUARY. | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2.3 | 2.8 | 3.1 | 3.0 | 2.4 | 1.5 | 0.7 | 0.4 | 0.0 | 0.1 | 0.5 | 0.7 | 1.4 | 1.9 | 2.1 | 2.1 | 2.2 | 2.3 | 1.8 | 1.9 | 1.6 | 0.7 | 0.5 | 1.6 |
| 10 | 2.4 | 2.9 | 3.1 | 3.1 | 2.5 | 1.6 | 0.8 | 0.2 | 0.0 | 0.1 | 0.5 | 0.8 | 1.5 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 1.7 | 1.8 | 1.6 | 0.7 | 0.5 | 1.7 |
| 15 | 2.5 | 3.0 | 3.3 | 3.2 | 2.7 | 1.7 | 0.9 | 0.4 | 0.1 | 0.1 | 0.5 | 0.8 | 1.5 | 2.0 | 2.1 | 2.2 | 2.3 | 2.5 | 1.8 | 1.9 | 1.6 | 0.7 | 0.6 | 1.7 |
| 20 | 2.6 | 3.1 | 3.4 | 3.4 | 2.9 | 1.9 | 0.9 | 0.4 | 0.0 | 0.2 | 0.6 | 1.0 | 1.6 | 2.0 | 2.1 | 2.3 | 2.4 | 2.7 | 2.0 | 2.1 | 1.8 | 0.7 | 0.6 | 1.8 |
| 25 | 2.8 | 3.4 | 3.7 | 3.8 | 3.3 | 2.1 | 1.2 | 0.4 | 0.0 | 0.2 | 0.7 | 1.1 | 1.6 | 2.0 | 2.1 | 2.4 | 2.6 | 2.8 | 2.3 | 2.5 | 2.1 | 0.8 | 0.6 | 1.9 |
| 30 | 3.0 | 3.7 | 4.0 | 4.1 | 3.6 | 2.4 | 1.3 | 0.5 | 0.0 | 0.4 | 0.8 | 1.2 | 1.7 | 2.0 | 2.2 | 2.5 | 2.7 | 3.0 | 2.8 | 3.0 | 2.5 | 0.9 | 0.6 | 2.0 |
| FEBRUARY. | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3.3 | 4.1 | 4.4 | 4.5 | 3.9 | 2.7 | 1.5 | 0.6 | 0.0 | 0.5 | 0.9 | 1.4 | 1.6 | 2.0 | 2.3 | 2.6 | 3.0 | 3.2 | 3.3 | 3.5 | 2.8 | 1.0 | 0.7 | 2.2 |
| 9 | 3.5 | 4.3 | 4.7 | 4.8 | 4.2 | 3.0 | 1.6 | 0.7 | 0.0 | 0.6 | 1.1 | 1.6 | 1.8 | 2.1 | 2.5 | 2.7 | 3.1 | 3.4 | 3.8 | 4.0 | 3.2 | 1.0 | 0.8 | 2.4 |
| 14 | 3.8 | 4.7 | 5.1 | 5.0 | 4.5 | 3.3 | 1.8 | 0.9 | 0.0 | 0.6 | 1.2 | 1.7 | 1.8 | 2.2 | 2.5 | 3.0 | 3.3 | 3.7 | 4.2 | 4.3 | 3.3 | 1.0 | 1.0 | 2.6 |
| 19 | 3.9 | 4.8 | 5.3 | 5.2 | 4.7 | 3.5 | 2.0 | 0.9 | 0.0 | 0.7 | 1.3 | 1.9 | 1.9 | 2.3 | 2.7 | 3.1 | 3.5 | 3.8 | 4.5 | 4.6 | 3.4 | 0.9 | 1.2 | 2.7 |
| 24 | 4.1 | 5.0 | 5.5 | 5.4 | 4.8 | 3.8 | 2.1 | 1.1 | 0.1 | 0.8 | 1.4 | 2.0 | 2.0 | 2.4 | 2.8 | 3.3 | 3.6 | 4.0 | 4.7 | 4.6 | 3.2 | 0.6 | 1.4 | 2.9 |
| MARCH. | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4.2 | 4.9 | 5.5 | 5.3 | 4.8 | 3.9 | 2.2 | 1.0 | 0.1 | 0.9 | 1.5 | 2.1 | 2.1 | 2.6 | 2.9 | 3.5 | 3.8 | 4.2 | 4.8 | 4.5 | 3.0 | 0.4 | 1.6 | 3.0 |
| 6 | 4.2 | 5.0 | 5.5 | 5.3 | 4.8 | 3.9 | 2.3 | 1.0 | 0.0 | 0.9 | 1.6 | 2.2 | 2.3 | 2.7 | 3.1 | 3.5 | 3.8 | 4.3 | 4.8 | 4.4 | 2.7 | 0.2 | 1.7 | 3.1 |
| 11 | 4.2 | 4.9 | 5.5 | 5.2 | 4.8 | 3.9 | 2.3 | 0.9 | 0.0 | 1.1 | 1.7 | 2.4 | 2.4 | 2.9 | 3.2 | 3.6 | 3.9 | 4.4 | 4.8 | 4.2 | 2.3 | 0.0 | 1.8 | 3.1 |
| 16 | 4.2 | 4.8 | 5.4 | 5.2 | 4.7 | 4.0 | 2.3 | 0.8 | 0.1 | 1.1 | 1.8 | 2.4 | 2.5 | 2.9 | 3.3 | 3.6 | 4.0 | 4.5 | 4.8 | 3.9 | 1.9 | 0.2 | 1.9 | 3.2 |
| 21 | 4.2 | 4.8 | 5.4 | 5.2 | 4.8 | 4.0 | 2.1 | 0.7 | 0.2 | 1.2 | 1.9 | 2.5 | 2.5 | 3.0 | 3.4 | 3.6 | 4.0 | 4.6 | 4.8 | 3.6 | 1.7 | 0.4 | 2.0 | 3.2 |
| 26 | 4.2 | 4.9 | 5.4 | 5.3 | 4.9 | 4.1 | 2.3 | 0.7 | 0.3 | 1.3 | 2.0 | 2.6 | 2.6 | 3.0 | 3.6 | 3.8 | 4.1 | 4.7 | 4.9 | 3.6 | 1.4 | 0.5 | 2.0 | 3.3 |
| 31 | 4.3 | 5.1 | 5.5 | 5.4 | 5.0 | 4.3 | 2.4 | 0.6 | 0.5 | 1.4 | 2.1 | 2.7 | 2.7 | 3.3 | 3.8 | 3.9 | 4.3 | 4.8 | 5.0 | 3.5 | 1.2 | 0.6 | 2.1 | 3.3 |
| APRIL. | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4.5 | 5.3 | 5.7 | 5.7 | 5.3 | 4.5 | 2.7 | 0.6 | 0.6 | 1.6 | 2.3 | 2.8 | 2.8 | 3.5 | 4.0 | 4.1 | 4.5 | 5.0 | 5.2 | 3.4 | 1.2 | 0.7 | 2.2 | 3.5 |
| 10 | 4.6 | 5.5 | 5.9 | 6.0 | 5.6 | 4.8 | 3.0 | 0.7 | 0.7 | 1.7 | 2.5 | 3.0 | 3.0 | 3.7 | 4.3 | 4.5 | 4.9 | 5.3 | 5.4 | 3.4 | 1.1 | 0.8 | 2.3 | 3.6 |
| 15 | 4.9 | 5.8 | 6.2 | 6.3 | 5.9 | 5.2 | 3.4 | 0.8 | 0.7 | 1.8 | 2.6 | 3.1 | 3.3 | 4.0 | 4.7 | 4.9 | 5.3 | 5.7 | 5.5 | 3.3 | 1.0 | 1.0 | 2.5 | 3.9 |
| 20 | 5.1 | 6.1 | 6.5 | 6.6 | 6.2 | 5.6 | 3.7 | 1.0 | 0.8 | 2.0 | 2.7 | 3.3 | 3.5 | 4.4 | 5.1 | 5.3 | 5.8 | 6.1 | 5.7 | 3.1 | 0.9 | 1.1 | 2.7 | 4.1 |
| 25 | 5.4 | 6.4 | 6.8 | 6.8 | 6.5 | 5.9 | 4.0 | 1.3 | 0.8 | 2.1 | 2.9 | 3.5 | 3.9 | 4.8 | 5.5 | 5.9 | 6.4 | 6.0 | 5.7 | 3.0 | 0.8 | 1.3 | 3.0 | 4.3 |
| 30 | 5.6 | 6.6 | 7.0 | 7.1 | 6.8 | 6.2 | 4.4 | 1.5 | 0.8 | 2.1 | 3.0 | 3.7 | 4.2 | 5.1 | 5.9 | 6.4 | 6.9 | 6.8 | 5.7 | 2.9 | 0.7 | 1.6 | 3.2 | 4.6 |
| MAY. | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5.7 | 6.7 | 7.1 | 7.2 | 7.0 | 6.5 | 4.6 | 1.7 | 0.7 | 2.2 | 3.1 | 3.9 | 4.6 | 5.5 | 6.3 | 6.9 | 7.3 | 6.4 | 5.7 | 2.7 | 0.5 | 1.8 | 3.5 | 4.7 |
| 10 | 5.9 | 6.8 | 7.2 | 7.3 | 7.1 | 6.7 | 4.9 | 2.0 | 0.6 | 2.2 | 3.1 | 4.0 | 4.8 | 5.7 | 6.5 | 7.2 | 7.6 | 7.7 | 5.5 | 2.5 | 0.3 | 2.0 | 3.7 | 4.9 |
| 15 | 5.9 | 6.8 | 7.2 | 7.2 | 7.2 | 6.8 | 5.0 | 2.2 | 0.5 | 2.3 | 3.3 | 4.2 | 5.0 | 5.9 | 6.7 | 7.4 | 7.9 | 7.8 | 5.4 | 2.4 | 0.2 | 2.1 | 3.8 | 4.9 |
| 20 | 5.9 | 6.8 | 7.1 | 7.2 | 7.3 | 6.9 | 5.4 | 2.4 | 0.4 | 2.3 | 3.3 | 4.3 | 5.1 | 5.9 | 6.7 | 7.5 | 8.0 | 7.9 | 5.2 | 2.3 | 0.1 | 2.0 | 3.9 | 5.0 |
| 25 | 5.9 | 6.7 | 7.0 | 7.2 | 7.3 | 6.9 | 5.5 | 2.5 | 0.4 | 2.3 | 3.4 | 4.4 | 5.2 | 6.0 | 6.8 | 7.5 | 8.0 | 7.9 | 5.1 | 2.3 | 0.1 | 2.2 | 3.9 | 5.0 |
| 30 | 5.8 | 6.6 | 6.9 | 7.2 | 7.3 | 6.8 | 5.5 | 2.6 | 0.3 | 2.3 | 3.5 | 4.4 | 5.2 | 5.9 | 6.7 | 7.5 | 8.0 | 7.8 | 5.1 | 2.3 | 0.1 | 2.1 | 3.8 | 4.9 |
| JUNE. | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5.8 | 6.6 | 6.9 | 7.2 | 7.4 | 6.9 | 5.6 | 2.7 | 0.3 | 2.3 | 3.6 | 4.5 | 5.2 | 5.9 | 6.6 | 7.5 | 8.0 | 7.8 | 5.1 | 2.4 | 0.1 | 2.0 | 3.7 | 4.8 |
| 10 | 5.8 | 6.6 | 6.9 | 7.3 | 7.5 | 7.0 | 5.7 | 2.9 | 0.2 | 2.3 | 3.6 | 4.6 | 5.2 | 5.9 | 6.6 | 7.4 | 7.9 | 7.9 | 5.1 | 2.4 | 0.0 | 1.9 | 3.6 | 4.8 |
| 15 | 5.9 | 6.6 | 7.0 | 7.4 | 7.6 | 7.0 | 5.7 | 3.0 | 0.3 | 2.5 | 3.8 | 4.8 | 5.3 | 6.0 | 6.7 | 7.5 | 8.0 | 7.9 | 5.2 | 2.4 | 0.1 | 1.8 | 3.5 | 4.8 |
| 20 | 6.0 | 6.7 | 7.2 | 7.6 | 7.9 | 7.2 | 5.9 | 3.1 | 0.3 | 2.5 | 3.9 | 4.9 | 5.5 | 6.2 | 6.8 | 7.7 | 8.2 | 8.1 | 5.3 | 2.4 | 0.1 | 1.8 | 3.5 | 4.8 |
| 25 | 6.1 | 6.9 | 7.5 | 7.8 | 8.0 | 7.3 | 6.2 | 3.3 | 0.4 | 2.7 | 4.0 | 5.1 | 5.7 | 6.4 | 7.0 | 7.8 | 8.4 | 8.3 | 5.5 | 2.3 | 0.0 | 1.8 | 3.5 | 4.9 |
| 30 | 6.3 | 7.2 | 7.8 | 8.1 | 8.3 | 7.7 | 6.4 | 3.4 | 0.4 | 2.8 | 4.1 | 5.2 | 5.9 | 6.7 | 7.3 | 8.0 | 8.7 | 8.6 | 5.6 | 2.3 | 0.0 | 1.9 | 3.6 | 5.0 |

TABLE LXV—continued.

Second Part, July to December. The corrections in the smaller type are subtractive; in the larger type additive.

| Days of the Month. | Hours of Mean Astronomical Time. | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----------|-----|------|------|------|------|------|------|------|------|------|------|--------------|------|------|------|-----|
| | 0h. | 1h. | 2h. | 3h. | 4h. | 5h. | 6h. | 7h. | 8h. | 9h. | 10h. | 11h. | 12h. | 13h. | 14h. | 15h. | 16h. | 17h. | 18h. | 19h. | 20h. | 21h. | 22h. | 23h. | |
| JULY. | Subtractive. | | | | | | | | Additive. | | | | | | | | | | | | Subtractive. | | | | |
| | 5 | 6.5 | 7.4 | 8.1 | 8.4 | 8.5 | 8.0 | 6.7 | 3.5 | 0.5 | 2.9 | 4.2 | 5.3 | 6.2 | 6.9 | 7.6 | 8.3 | 8.9 | 9.0 | 5.8 | 2.3 | 0.1 | 2.0 | 3.7 | 5.2 |
| | 10 | 6.7 | 7.6 | 8.4 | 8.6 | 8.7 | 8.2 | 6.8 | 3.5 | 0.6 | 3.0 | 4.3 | 5.5 | 6.4 | 7.2 | 7.8 | 8.5 | 9.2 | 9.2 | 6.0 | 2.4 | 0.1 | 2.2 | 3.9 | 5.4 |
| | 15 | 6.9 | 7.8 | 8.6 | 8.8 | 8.8 | 8.4 | 6.9 | 3.5 | 0.7 | 3.1 | 4.3 | 5.5 | 6.5 | 7.4 | 8.0 | 8.7 | 9.3 | 9.4 | 6.2 | 2.5 | 0.1 | 2.3 | 4.0 | 5.6 |
| | 20 | 7.0 | 7.8 | 8.7 | 8.9 | 8.9 | 8.4 | 6.8 | 3.3 | 0.9 | 3.2 | 4.3 | 5.5 | 6.6 | 7.5 | 8.0 | 8.8 | 9.3 | 9.4 | 6.4 | 2.7 | 0.1 | 2.4 | 4.1 | 5.7 |
| | 25 | 7.0 | 7.9 | 8.8 | 8.9 | 8.9 | 8.4 | 6.7 | 3.1 | 1.0 | 3.2 | 4.3 | 5.4 | 6.6 | 7.4 | 8.0 | 8.7 | 9.2 | 9.3 | 6.4 | 2.9 | 0.0 | 2.4 | 4.3 | 5.8 |
| 30 | 7.0 | 7.9 | 8.7 | 8.9 | 8.8 | 8.3 | 6.5 | 2.8 | 1.1 | 3.1 | 4.2 | 5.3 | 6.4 | 7.2 | 7.8 | 8.5 | 9.0 | 9.0 | 6.5 | 3.1 | 0.1 | 2.4 | 4.3 | 5.8 | |
| AUGUST. | 5 | 6.9 | 7.7 | 8.5 | 8.8 | 8.6 | 8.1 | 6.3 | 2.4 | 1.2 | 3.1 | 4.2 | 5.1 | 6.1 | 6.9 | 7.5 | 8.2 | 8.6 | 8.7 | 6.6 | 3.3 | 0.2 | 2.4 | 4.3 | 5.8 |
| | 10 | 6.6 | 7.4 | 8.1 | 8.4 | 8.3 | 7.8 | 5.9 | 2.0 | 1.3 | 3.1 | 4.0 | 5.0 | 5.9 | 6.6 | 7.3 | 7.9 | 8.3 | 8.4 | 6.7 | 3.6 | 0.3 | 2.2 | 4.2 | 5.6 |
| | 15 | 6.5 | 7.3 | 7.9 | 8.2 | 8.1 | 7.5 | 5.6 | 1.7 | 1.3 | 2.8 | 3.9 | 4.7 | 5.5 | 6.1 | 6.8 | 7.5 | 7.8 | 8.0 | 6.6 | 3.6 | 0.3 | 2.2 | 4.1 | 5.6 |
| | 20 | 6.3 | 7.0 | 7.6 | 7.9 | 7.8 | 7.2 | 5.2 | 1.3 | 1.3 | 2.7 | 3.7 | 4.4 | 5.1 | 5.7 | 6.4 | 7.1 | 7.5 | 7.8 | 6.5 | 3.7 | 0.4 | 2.0 | 4.0 | 5.4 |
| | 25 | 6.2 | 6.8 | 7.3 | 7.6 | 7.5 | 7.0 | 4.7 | 1.0 | 1.2 | 2.5 | 3.5 | 4.2 | 4.8 | 5.4 | 6.1 | 6.7 | 7.1 | 7.5 | 6.5 | 3.6 | 0.4 | 1.9 | 3.9 | 5.3 |
| | 30 | 6.1 | 6.7 | 7.1 | 7.4 | 7.2 | 6.6 | 4.3 | 0.7 | 1.2 | 2.3 | 3.4 | 4.0 | 4.5 | 5.1 | 5.8 | 6.4 | 6.8 | 7.3 | 6.4 | 3.6 | 0.5 | 1.8 | 3.8 | 5.2 |
| SEPTEMBER. | 5 | 6.0 | 6.6 | 7.0 | 7.2 | 7.0 | 6.3 | 3.9 | 0.6 | 1.0 | 2.1 | 3.2 | 3.9 | 4.3 | 4.8 | 5.5 | 6.1 | 6.6 | 6.7 | 6.3 | 3.6 | 0.6 | 1.7 | 3.6 | 5.1 |
| | 10 | 5.9 | 6.5 | 6.9 | 7.0 | 6.9 | 6.1 | 3.4 | 0.4 | 1.0 | 2.0 | 3.1 | 3.7 | 4.1 | 4.7 | 5.3 | 5.8 | 6.4 | 7.0 | 6.2 | 3.6 | 0.7 | 1.6 | 3.6 | 5.0 |
| | 15 | 5.9 | 6.5 | 6.9 | 7.0 | 6.7 | 5.8 | 3.1 | 0.4 | 0.9 | 1.9 | 3.0 | 3.6 | 4.0 | 4.6 | 5.2 | 5.6 | 6.2 | 6.8 | 6.2 | 3.6 | 0.9 | 1.6 | 3.5 | 5.0 |
| | 20 | 5.9 | 6.5 | 6.9 | 6.9 | 6.5 | 5.5 | 3.0 | 0.3 | 0.8 | 1.8 | 2.9 | 3.5 | 3.9 | 4.5 | 5.0 | 5.4 | 6.0 | 6.7 | 6.1 | 3.7 | 1.0 | 1.4 | 3.4 | 4.9 |
| | 25 | 5.9 | 6.5 | 6.9 | 6.7 | 6.4 | 5.1 | 2.6 | 0.4 | 0.7 | 1.7 | 2.7 | 3.4 | 3.8 | 4.4 | 4.9 | 5.3 | 5.8 | 6.4 | 6.0 | 3.8 | 1.2 | 1.4 | 3.4 | 4.9 |
| | 30 | 5.8 | 6.4 | 6.8 | 6.6 | 6.2 | 4.7 | 2.3 | 0.3 | 0.6 | 1.6 | 2.6 | 3.3 | 3.7 | 4.3 | 4.8 | 5.0 | 5.5 | 6.1 | 5.7 | 3.9 | 1.4 | 1.3 | 3.3 | 4.8 |
| OCTOBER. | 5 | 5.7 | 6.2 | 6.6 | 6.4 | 5.9 | 4.3 | 1.9 | 0.3 | 0.6 | 1.5 | 2.4 | 3.2 | 3.6 | 4.2 | 4.6 | 4.8 | 5.3 | 5.7 | 5.4 | 4.0 | 1.5 | 1.2 | 3.2 | 4.7 |
| | 10 | 5.6 | 6.0 | 6.4 | 6.2 | 5.6 | 3.9 | 1.7 | 0.3 | 0.5 | 1.4 | 2.2 | 2.9 | 3.4 | 4.0 | 4.4 | 4.6 | 4.9 | 5.2 | 5.0 | 3.9 | 1.5 | 1.2 | 3.2 | 4.6 |
| | 15 | 5.3 | 5.7 | 6.1 | 5.8 | 5.1 | 3.4 | 1.3 | 0.2 | 0.5 | 1.3 | 2.0 | 2.7 | 3.2 | 3.8 | 4.2 | 4.3 | 4.6 | 4.8 | 4.6 | 3.8 | 1.6 | 1.1 | 3.0 | 4.4 |
| | 20 | 5.0 | 5.4 | 5.7 | 5.5 | 4.7 | 2.9 | 1.1 | 0.2 | 0.5 | 1.1 | 1.8 | 2.4 | 3.1 | 3.6 | 3.9 | 4.0 | 4.4 | 4.4 | 4.1 | 3.6 | 1.5 | 1.0 | 2.9 | 4.1 |
| | 25 | 4.7 | 5.0 | 5.3 | 5.1 | 4.2 | 2.5 | 1.0 | 0.1 | 0.4 | 1.0 | 1.6 | 2.2 | 2.9 | 3.3 | 3.6 | 3.7 | 4.0 | 4.0 | 3.6 | 3.3 | 1.4 | 0.9 | 2.6 | 3.9 |
| | 30 | 4.3 | 4.6 | 4.8 | 4.6 | 3.7 | 2.1 | 0.8 | 0.1 | 0.4 | 0.9 | 1.4 | 1.9 | 2.7 | 3.0 | 3.3 | 3.5 | 3.7 | 3.6 | 3.2 | 3.1 | 1.4 | 0.7 | 2.4 | 3.5 |
| NOVEMBER. | 5 | 3.9 | 4.3 | 4.4 | 4.2 | 3.3 | 1.9 | 0.8 | 0.1 | 0.3 | 0.7 | 1.2 | 1.6 | 2.4 | 2.7 | 2.9 | 3.2 | 3.4 | 3.3 | 2.9 | 2.8 | 1.3 | 0.6 | 2.1 | 3.2 |
| | 10 | 3.6 | 3.9 | 4.1 | 3.9 | 3.0 | 1.6 | 0.7 | 0.1 | 0.3 | 0.6 | 1.0 | 1.4 | 2.1 | 2.4 | 2.7 | 3.0 | 3.1 | 3.0 | 2.6 | 2.6 | 1.4 | 0.3 | 1.8 | 2.8 |
| | 15 | 3.3 | 3.7 | 3.8 | 3.6 | 2.7 | 1.5 | 0.7 | 0.1 | 0.2 | 0.5 | 0.8 | 1.2 | 1.8 | 2.1 | 2.4 | 2.7 | 2.9 | 2.8 | 2.5 | 2.5 | 1.4 | 0.1 | 1.5 | 2.5 |
| | 20 | 3.1 | 3.5 | 3.6 | 3.4 | 2.6 | 1.5 | 0.5 | 0.2 | 0.1 | 0.4 | 0.7 | 1.0 | 1.6 | 1.9 | 2.2 | 2.5 | 2.6 | 2.4 | 2.5 | 2.5 | 1.6 | 0.2 | 1.2 | 2.3 |
| | 25 | 2.9 | 3.4 | 3.5 | 3.3 | 2.5 | 1.4 | 0.5 | 0.2 | 0.1 | 0.3 | 0.6 | 0.8 | 1.3 | 1.6 | 2.0 | 2.3 | 2.5 | 2.4 | 2.5 | 2.5 | 1.8 | 0.5 | 1.0 | 2.0 |
| | 30 | 2.8 | 3.4 | 3.5 | 3.2 | 2.5 | 1.5 | 0.6 | 0.3 | 0.0 | 0.2 | 0.5 | 0.7 | 1.1 | 1.5 | 1.9 | 2.2 | 2.3 | 2.2 | 2.5 | 2.6 | 2.0 | 0.7 | 0.8 | 1.9 |
| DECEMBER. | 5 | 2.7 | 3.3 | 3.4 | 3.2 | 2.5 | 1.5 | 0.7 | 0.4 | 0.0 | 0.2 | 0.5 | 0.6 | 1.0 | 1.4 | 1.8 | 2.1 | 2.1 | 2.1 | 2.5 | 2.7 | 2.1 | 0.9 | 0.6 | 1.8 |
| | 10 | 2.5 | 3.2 | 3.4 | 3.1 | 2.4 | 1.5 | 0.7 | 0.4 | 0.0 | 0.2 | 0.5 | 0.6 | 0.9 | 1.5 | 1.9 | 2.1 | 2.1 | 1.9 | 2.5 | 2.7 | 2.2 | 1.0 | 0.5 | 1.8 |
| | 15 | 2.5 | 3.2 | 3.4 | 3.1 | 2.5 | 1.5 | 0.8 | 0.5 | 0.1 | 0.2 | 0.5 | 0.6 | 0.9 | 1.5 | 1.9 | 2.0 | 2.0 | 2.0 | 2.5 | 2.6 | 2.2 | 1.0 | 0.4 | 1.7 |
| | 20 | 2.4 | 3.1 | 3.3 | 3.0 | 2.4 | 1.5 | 0.8 | 0.5 | 0.1 | 0.1 | 0.4 | 0.6 | 1.0 | 1.6 | 1.9 | 2.1 | 2.0 | 2.0 | 2.3 | 2.5 | 2.1 | 1.0 | 0.4 | 1.6 |
| | 25 | 2.4 | 3.0 | 3.2 | 3.0 | 2.4 | 1.6 | 0.8 | 0.4 | 0.1 | 0.1 | 0.4 | 0.6 | 1.1 | 1.7 | 1.9 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 1.9 | 0.9 | 0.4 | 1.6 |
| | 30 | 2.3 | 2.9 | 3.1 | 3.0 | 2.2 | 1.5 | 0.8 | 0.4 | 0.1 | 0.1 | 0.5 | 0.7 | 1.2 | 1.8 | 2.0 | 2.0 | 2.1 | 2.1 | 1.9 | 2.0 | 1.8 | 0.8 | 0.5 | 1.6 |

POSTSCRIPT.

The publication of this volume has been delayed by the necessity of reprinting 456 pages, of which the first impression had been destroyed in the fire which took place at Messrs. Clowes's Printing Office on the 10th June 1852.

EDWARD SABINE.

Woolwich, August 5, 1853.

ERRATA.

- Page v. Feb. 1849, for "6·2," read "4·3;" for "1° 35'·2," read "1° 37'·1."
Mean for Feb. 1849, for "1° 36'·9," read "1° 37'·1."
— xxxv. line 25, for "7^h of Toronto time," read "7^h A. M. of Toronto time."
— xcii. — 7, for "Annular," read "Annual."

TORONTO, 1843.

MAGNETICAL OBSERVATIONS.

| DECLINATION. | | | | | | | | | | | | |
|--|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| JANUARY. | 1 | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | 105.9 | 129.4 | 130.7 | 125.5 | 124.8 | 125.0 | 125.6 | 125.1 | 117.8 | 125.6 | 127.0 |
| | 3 | 118.4 | 127.6 | 132.7 | 132.1 | 130.1 | 126.5 | 125.3 | 124.6 | 124.4 | 124.1 | 126.8 |
| | 4 | 128.3 | 129.7 | 131.9 | 132.8 | 132.6 | 128.1 | 125.0 | 124.5 | 124.0 | 124.0 | 126.2 |
| | 5 | 128.1 | 129.3 | 130.5 | 133.9 | 132.8 | 130.0 | 126.0 | 124.0 | 122.9 | 127.7 | 126.9 |
| | 6 | 128.6 | 129.4 | 131.8 | 133.2 | 133.8 | 129.7 | 125.0 | 122.8 | 122.0 | 123.9 | 125.1 |
| | 7 | 128.0 | 129.0 | 132.1 | 135.2 | 133.0 | 129.8 | 126.3 | 121.9 | 121.8 | 123.2 | 125.5 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 128.1 | 131.2 | 132.0 | 133.8 | 132.0 | 129.8 | 125.8 | 123.4 | 122.9 | 122.5 | 125.0 |
| | 10 | 128.2 | 129.6 | 130.4 | 132.8 | 133.0 | 129.0 | 125.1 | 122.6 | 121.7 | 122.6 | 125.0 |
| | 11 | 127.2 | 128.6 | 129.6 | 131.6 | 130.0 | 128.5 | 126.1 | 125.0 | 122.2 | 118.4 | 125.2 |
| | 12 | 126.2 ^a | 128.6 | 129.6 | 131.0 | 131.9 | 130.3 | 128.3 | 125.7 | 123.8 | 122.8 | 124.1 |
| | 13 | 127.0 | 128.4 | 130.1 | 130.0 | 129.6 | 127.2 | 125.8 | 126.0 | 126.8 | 125.9 | 126.4 |
| | 14 | 127.5 | 128.4 | 129.9 | 130.7 | 130.7 | 130.0 | 127.0 | 126.4 | 126.0 | 124.9 | 124.9 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 128.9 | 128.3 | 132.8 | 131.3 | 130.3 | 129.1 | 128.0 | 125.5 | 123.9 | 122.2 | 125.3 |
| | 17 | 128.4 | 129.0 | 129.9 | 129.1 | 131.3 | 126.1 | 121.4 | 120.9 | 121.7 | 124.0 | 125.6 |
| | 18 | 128.1 | 128.7 | 131.1 | 132.5 | 133.2 | 131.1 | 128.4 | 124.8 | 122.2 | 124.0 | 124.2 |
| | 19 | 127.4 | 128.0 | 130.5 | 133.6 | 132.3 | 129.5 | 126.8 | 123.2 | 122.4 | 122.0 | 123.2 |
| | 20 | 128.7 | 127.0 | 129.8 | 134.0 | 132.4 | 129.0 | 125.7 | 123.5 | 122.3 | 121.0 | 123.3 |
| | 21 | 128.0 | 129.5 | 131.0 | 131.5 | 132.6 | 129.4 | 127.7 | 125.9 | 124.0 | 123.9 | 124.8 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 126.9 | 127.2 | 130.6 | 133.1 | 133.1 | 130.9 | 127.4 | 125.4 | 124.0 | 123.9 | 122.7 |
| | 24 | 127.3 | 128.6 | 130.0 | 131.0 | 130.1 | 128.2 | 127.0 | 125.2 | 124.6 | 124.4 | 125.0 |
| | 25 | 127.9 | 128.8 | 130.5 | 132.9 | 133.2 | 128.5 | 126.8 | 125.7 | 126.5 | 124.5 | 125.5 |
| | 26 | 128.6 | 128.6 | 130.7 | 131.3 | 131.0 | 129.7 | 127.2 | 125.0 | 124.8 | 125.9 | 125.5 |
| | 27 | 129.0 | 129.6 | 131.4 | 132.5 | 131.3 | 128.9 | 126.5 | 126.0 | 125.2 | 126.0 | 126.0 |
| | 28 | 123.5 | 130.7 | 132.0 | 133.5 | 132.3 | 129.0 | 121.3 | 119.1 | 120.1 | 121.0 | 124.4 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 128.7 | 129.1 | 129.3 | 132.1 | 132.6 | 129.9 | 126.7 | 122.0 | 122.1 | 124.0 | 125.8 |
| | 31 | 126.6 | 129.3 | 130.1 | 131.1 | 131.1 | 129.6 | 126.2 | 126.1 | 126.1 | 127.0 | 127.7 |
| Hourly Means | 126.52 | 128.91 | 130.81 | 132.00 | 131.58 | 128.95 | 126.16 | 124.24 | 123.32 | 123.82 | 125.27 | |
| FEBRUARY. | 1 | 128.0 | 129.6 | 131.2 | 131.1 | 130.4 | 128.2 | 127.1 | 123.6 | 125.2 | 127.8 | 128.5 |
| | 2 | 130.0 | 129.5 | 132.9 | 134.3 | 133.2 | 130.6 | 126.4 | 123.5 | 125.0 | 127.0 | 129.0 |
| | 3 | 131.1 | 130.7 | 133.1 | 133.0 | 131.0 | 128.6 | 127.2 | 124.9 | 124.3 | 127.1 | 128.8 |
| | 4 | 129.4 | 130.5 | 133.0 | 133.2 | 131.3 | 128.7 | 127.8 | 125.5 | 125.5 | 127.0 | 127.2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 130.7 | 133.6 | 132.8 | 129.3 | 131.4 | 127.0 | 122.7 | 121.9 | 120.0 | 119.1 | 110.0 |
| | 7 | 128.2 | 132.5 | 133.9 | 134.9 | 129.6 | 124.2 | 124.8 | 124.2 | 124.0 | 123.8 | 125.2 |
| | 8 | 130.4 | 130.1 | 134.8 | 133.0 | 131.4 | 128.2 | 126.4 | 126.0 | 125.6 | 126.1 | 128.0 |
| | 9 | 130.0 | 130.1 | 132.5 | 131.0 | 130.0 | 124.2 | 126.7 | 125.5 | 124.8 | 123.9 | 124.2 |
| | 10 | 129.4 | 128.0 | 131.0 | 131.7 | 130.9 | 130.8 | 129.0 | 127.2 | 125.8 | 126.5 | 126.5 |
| | 11 | 128.9 | 129.5 | 129.4 | 130.0 | 129.4 | 127.0 | 125.3 | 125.2 | 124.2 | 124.5 | 125.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 132.2 | 130.7 | 131.1 | 129.1 | 126.0 | 123.0 | 121.1 | 122.0 | 122.6 | 124.4 | 123.0 |
| | 14 | 134.0 | 133.0 | 127.7 | 135.2 | 132.5 | 124.3 | 125.0 | 125.0 | 122.6 | 119.0 | 124.7 |
| | 15 | 129.6 | 131.0 | 131.6 | 132.0 | 128.5 | 125.1 | 122.8 | 122.2 | 123.4 | 123.9 | 127.0 |
| | 16 | 126.0 | 131.2 | 133.0 | 131.2 | 129.8 | 125.3 | 121.9 | 121.5 | 120.3 | 122.8 | 124.5 |
| | 17 | 132.0 | 132.6 | 133.7 | 133.1 | 129.8 | 124.0 | 120.0 | 116.8 | 120.0 | 124.0 | 125.0 |
| | 18 | 129.4 | 130.9 | 132.0 | 132.7 | 130.6 | 127.7 | 124.9 | 123.3 | 124.4 | 123.2 | 126.1 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 129.0 | 130.9 | 132.6 | 134.0 | 131.5 | 128.5 | 124.4 | 120.8 | 125.3 | 125.6 | 124.4 |
| | 21 | 131.0 | 130.2 | 131.5 | 131.7 | 129.7 | 126.2 | 124.7 | 123.6 | 122.8 | 123.8 | 125.0 |
| | 22 | 131.4 | 133.3 | 132.7 | 130.8 | 127.1 | 124.8 | 123.0 | 123.0 | 123.5 | 126.0 | 126.0 |
| | 23 | 130.2 | 131.2 | 133.1 | 132.6 | 129.5 | 126.0 | 125.0 | 123.4 | 123.6 | 124.6 | 126.0 |
| | 24 | 143.1 | 137.9 | 133.9 | 122.6 | 121.3 | 123.8 | 124.8 | 124.2 | 120.2 | 122.7 | 126.2 |
| | 25 | 126.8 | 129.0 | 131.6 | 129.9 | 127.4 | 124.7 | 123.7 | 123.7 | 124.5 | 125.6 | 125.6 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 129.0 | 129.5 | 131.3 | 130.0 | 128.2 | 125.1 | 124.0 | 122.4 | 123.1 | 125.0 | 127.0 |
| | 28 | 131.3 | 131.5 | 133.2 | 130.1 | 128.2 | 125.6 | 124.8 | 124.6 | 125.9 | 125.7 | 126.9 |
| Hourly Means | 130.46 | 131.12 | 132.23 | 131.52 | 129.53 | 126.32 | 124.73 | 123.50 | 123.61 | 124.55 | 125.41 | |

^a Five minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 128.0 | 134.0 | 126.4 | 132.0 | 131.0 | 124.3 | 128.0 | 126.6 | 127.2 | 127.0 | 129.5 | 126.7 | 126.22 |
| 128.0 | 128.9 | 128.7 | 128.7 | 128.2 | 129.2 | 128.7 | 123.1 | 125.5 | 127.6 | 128.2 | 127.7 | 127.21 |
| 128.8 | 130.2 | 130.7 | 129.4 | 129.3 | 127.9 | 126.7 | 127.7 | 126.8 | 123.0 | 128.0 | 125.8 | 127.87 |
| 129.0 | 129.7 | 129.4 | 130.0 | 129.4 | 128.8 | 127.6 | 127.6 | 127.0 | 125.9 | 128.7 | 129.0 | 128.42 |
| 128.0 | 129.0 | 130.0 | 129.7 | 130.9 | 131.0 | 129.3 | 126.8 | 126.0 | 126.6 | 127.6 | 127.5 | 128.12 |
| 127.2 | 128.0 | 128.3 | 128.5 | 128.3 | 128.0 | — | — | — | — | — | — | 127.78 |
| — | — | — | — | — | — | 127.6 | 127.2 | 127.9 | 228.1 | 128.9 | 126.0 | 127.55 |
| 127.1 | 128.1 | 128.8 | 129.1 | 129.0 | 129.0 | 128.2 | 128.2 | 128.2 | 128.2 | 127.8 | 128.0 | 128.02 |
| 123.1 | 124.8 | 127.2 | 131.2 | 129.7 | 129.0 | 127.2 | 127.6 | 128.0 | 127.8 | 127.0 | 128.3 | 127.34 |
| 122.8 | 127.0 | 126.0 | 129.9 | 129.4 | 129.0 | 127.8 | 127.1 | 126.6 | 126.6 | 127.8 | 127.1 | 126.88 |
| 126.9 | 127.0 | 128.0 | 129.0 | 129.2 | 127.7 | 128.9 | 127.3 | 127.3 | 127.8 | 127.9 | 127.2 | 127.59 |
| 127.4 | 128.2 | 128.3 | 128.8 | 128.9 | 128.4 | 127.7 | 127.4 | 127.1 | 127.0 | 127.2 | 127.1 | 127.65 |
| 127.8 | 128.0 | 128.0 | 128.0 | 128.4 | 128.0 | — | — | — | — | — | — | 128.58 |
| — | — | — | — | — | — | 128.8 | 129.8 | 131.4 | 130.2 | 132.1 | 131.4 | 128.06 |
| 127.1 | 129.0 | 129.0 | 128.8 | 128.8 | 128.6 | 128.2 | 128.5 | 128.2 | 127.2 | 128.9 | 129.0 | 126.72 |
| 127.0 | 125.9 | 128.3 | 127.2 | 130.0 | 127.5 | 129.0 | 123.3 | 127.0 | 127.4 | 128.3 | 127.0 | 127.77 |
| 126.0 | 127.8 | 128.6 | 129.0 | 129.0 | 128.3 | 128.0 | 128.0 | 125.7 | 128.0 | 127.3 | 127.4 | 127.61 |
| 127.0 | 127.8 | 127.7 | 128.9 | 128.9 | 129.0 | 128.0 | 128.0 | 128.0 | 127.8 | 128.0 | 127.5 | 127.38 |
| 127.3 | 128.3 | 129.2 | 129.0 | 128.8 | 128.6 | 128.0 | 127.0 | 127.0 | 127.0 | 127.0 | 127.3 | 128.30 |
| 127.9 | 128.8 | 129.3 | 129.4 | 129.0 | 128.4 | — | — | — | — | — | — | 128.28 |
| — | — | — | — | — | — | 130.5 | 129.8 | 128.3 | 127.1 | 127.6 | 127.8 | 128.20 |
| 127.4 | 120.5 | 127.2 | 127.7 | 141.6 | 136.8 | 130.6 | 128.2 | 127.1 | 129.0 | 126.4 | 127.1 | 128.25 |
| 125.6 | 123.8 | 125.3 | 143.6 | 129.2 | 132.1 | 128.0 | 130.8 | 127.0 | 130.0 | 127.3 | 128.0 | 128.13 |
| 127.8 | 126.9 | 128.3 | 130.2 | 129.0 | 128.0 | 130.0 | 127.6 | 127.6 | 128.8 | 128.0 | 128.1 | 128.33 |
| 127.0 | 128.2 | 129.0 | 129.0 | 129.2 | 128.1 | 128.5 | 128.2 | 128.1 | 128.8 | 128.2 | 128.1 | 127.55 |
| 127.9 | 128.1 | 128.0 | 127.4 | 134.1 | 132.6 | 128.2 | 126.4 | 127.0 | 127.5 | 127.6 | 125.9 | 128.01 |
| 140.0 | 127.8 | 129.0 | 128.7 | 128.9 | 128.0 | — | — | — | — | — | — | 128.07 |
| — | — | — | — | — | — | 129.0 | 127.0 | 127.0 | 128.4 | 128.6 | 128.0 | 127.78 |
| 127.5 | 128.3 | 128.6 | 128.5 | 132.5 | 130.0 | 127.8 | 127.0 | 128.0 | 127.3 | 128.3 | 128.9 | — |
| 128.5 | 128.5 | 128.8 | 128.7 | 128.1 | 127.0 | 127.2 | 127.5 | 126.9 | 127.6 | 127.7 | 128.0 | — |
| 127.62 | 127.79 | 128.31 | 129.63 | 129.95 | 128.97 | 128.37 | 127.45 | 127.38 | 127.60 | 128.07 | 127.73 | 127.78 |
| 129.0 | 129.0 | 128.8 | 127.8 | 128.4 | 128.1 | 127.5 | 128.5 | 128.3 | 127.1 | 128.2 | 129.1 | 128.32 |
| 128.9 | 129.2 | 129.9 | 130.0 | 129.4 | 129.0 | 128.8 | 128.2 | 127.8 | 129.2 | 128.4 | 129.0 | 129.10 |
| 128.7 | 129.1 | 129.3 | 129.3 | 129.0 | 128.5 | 128.0 | 127.8 | 128.0 | 128.0 | 128.2 | 128.7 | 128.83 |
| 127.0 | 129.4 | 130.4 | 124.5 | 135.0 | 133.6 | — | — | — | — | — | — | 129.13 |
| — | — | — | — | — | — | 127.7 | 129.1 | 129.8 | 127.1 | 128.0 | 130.7 | 126.86 |
| 127.7 | 126.6 | 128.3 | 128.3 | 128.5 | 129.1 | 129.0 | 127.1 | 129.4 | 128.9 | 127.6 | 129.5 | 128.43 |
| 127.6 | 127.7 | 127.1 | 128.8 | 128.7 | 133.5 | 131.5 | 129.0 | 129.0 | 128.6 | 129.3 | 129.2 | 129.57 |
| 126.7 ^a | 128.6 | 129.8 | 127.4 | 147.2 | 131.7 | 129.0 | 129.2 | 127.6 | 128.4 | 128.4 | 129.0 | 128.47 |
| 127.0 | 126.8 | 127.3 | 128.4 | 128.8 | 129.6 | 133.6 | 134.2 | 133.2 | 129.0 | 128.6 | 127.8 | 128.27 |
| 127.2 | 125.4 | 127.2 | 131.9 | 127.5 | 128.3 | 128.1 | 128.1 | 127.1 | 127.8 | 127.9 | 128.1 | 127.66 |
| 124.0 | 125.7 | 128.2 | 129.3 | 128.8 | 128.5 | — | — | — | — | — | — | 127.44 |
| — | — | — | — | — | — | 129.1 | 128.0 | 128.7 | 129.3 | 130.6 | 130.0 | 128.18 |
| 124.7 | 132.2 | 125.4 | 129.0 | 128.4 | 130.4 | 123.4 | 116.8 | 140.1 | 131.9 | 132.0 | 130.1 | 128.43 |
| 131.9 | 137.8 | 128.7 | 133.0 | 130.8 | 128.7 | 127.0 | 116.3 | 126.4 | 126.8 | 128.0 | 130.8 | 128.12 |
| 127.6 | 126.0 | 147.8 | 130.2 | 129.0 | 128.0 | 127.4 | 127.2 | 127.9 | 127.3 | 129.1 | 131.4 | 127.54 |
| 128.7 | 129.5 | 129.4 | 129.0 | 129.0 | 130.0 | 131.7 | 129.6 | 129.2 | 129.8 | 132.6 | 129.8 | 128.30 |
| 127.8 | 127.0 | 127.6 | 126.1 | 127.9 | 132.6 | 129.3 | 129.0 | 128.5 | 129.2 | 129.0 | 129.8 | 127.99 |
| 126.5 | 127.2 | 128.0 | 132.2 | 130.3 | 129.9 | — | — | — | — | — | — | 127.89 |
| — | — | — | — | — | — | 128.1 | 126.6 | 129.4 | 128.4 | 129.0 | 130.0 | 127.84 |
| 124.3 | 136.0 | 226.0 | 128.0 | 129.0 | 129.0 | 128.8 | 128.4 | 126.9 | 127.0 | 127.2 | 128.4 | 129.05 |
| 127.0 | 127.8 | 128.0 | 127.7 | 127.5 | 127.8 | 127.8 | 128.4 | 128.6 | 130.2 | 131.0 | 131.2 | 130.13 |
| 126.6 | 126.0 | 125.4 | 127.2 | 128.6 | 128.8 | 129.9 | 128.9 | 129.8 | 130.0 | 130.4 | 130.5 | 127.55 |
| 128.0 | 128.0 | 130.6 | 127.3 | 127.0 | 131.0 | 129.9 | 131.2 | 133.2 | 123.5 | 134.5 | 140.8 | 127.15 |
| 130.7 | 138.8 | 129.0 | 129.0 | 132.0 | 157.4 | 140.6 | 127.0 | 127.5 | 127.8 | 128.0 | 128.2 | 127.51 |
| 126.9 | 127.0 | 138.1 | 129.9 | 127.2 | 127.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 128.6 | 126.6 | 125.8 | 125.2 | 128.7 | 128.8 | — |
| 127.0 | 127.2 | 127.8 | 127.1 | 126.7 | 126.6 | 130.3 | 126.9 | 127.0 | 120.2 | 131.5 | 131.2 | — |
| 127.4 | 127.4 | 127.2 | 127.2 | 127.2 | 127.0 | 127.2 | 126.2 | 125.8 | 124.8 | 128.8 | 129.0 | — |
| 127.45 | 128.98 | 129.39 | 128.69 | 129.66 | 130.62 | 129.30 | 127.43 | 128.96 | 127.73 | 129.37 | 130.14 | 128.24 |

^a Seven minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------|
| Angular Value of One Scale Division of the Declinometer = 0' · 721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 129·5 | 130·2 | 131·2 | 130·3 | 128·9 | 125·8 | 124·0 | 123·9 | 123·1 | 124·3 | 126·2 | 127·5 |
| | 2 | 131·5 | 131·0 | 131·8 | 130·3 | 127·7 | 124·6 | 123·0 | 122·2 | 123·0 | 124·0 | 125·0 | 126·2 |
| | 3 | 129·1 | 130·3 | 131·7 | 132·0 | 131·7 | 128·5 | 125·0 ^a | 124·0 | 123·8 ^b | 123·0 | 124·7 | 126·5 |
| | 4 | 129·0 | 127·9 | 135·0 | 136·0 | 132·2 | 128·2 | 124·2 | 121·3 | 119·5 | 119·1 | 120·0 | 122·4 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 131·5 | 132·8 | 133·0 | 131·3 | 131·3 | 128·6 | 124·7 | 120·8 | 120·8 | 118·4 | 118·2 | 121·4 |
| | 7 | 127·8 | 132·0 | 128·7 | 131·6 | 126·9 | 125·0 | 118·3 | 118·5 | 113·1 | 124·9 | 129·0 | 128·9 |
| | 8 | 128·9 | 129·4 | 131·9 | 130·8 | 130·4 | 126·0 | 125·8 | 125·0 | 125·2 | 125·2 | 125·3 | 125·4 |
| | 9 | 129·0 | 131·0 | 133·3 | 132·2 | 130·3 | 128·4 | 125·4 | 118·9 | 120·5 | 123·8 | 125·2 | 125·1 |
| | 10 | 129·2 | 130·0 | 130·5 | 129·5 | 128·0 | 127·4 | 123·5 | 122·3 | 122·9 | 124·2 | 124·0 | 123·8 |
| | 11 | 129·3 | 131·9 | 134·7 | 133·0 | 129·0 | 128·2 | 124·0 | 122·7 | 121·7 | 121·7 | 117·3 | 123·0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 128·5 | 126·5 | 134·6 | 134·3 | 133·3 | 130·1 | 124·8 | 122·5 | 120·8 | 121·5 | 123·0 | 124·6 |
| | 14 | 127·5 | 129·4 | 131·1 | 131·2 | 128·5 | 123·2 | 120·9 | 122·0 ^c | 122·9 | 123·6 | 125·8 | 125·8 |
| | 15 | 128·4 | 130·3 | 131·7 | 132·0 | 129·9 | 126·0 | 123·0 | 121·7 | 121·0 | 121·2 | 124·9 | 125·8 |
| | 16 | 130·6 | 132·3 | 133·2 | 132·5 | 129·3 | 121·7 | 118·4 | 117·0 | 118·5 | 119·3 | 122·0 | 124·0 |
| | 17 | 130·9 | 133·1 | 134·0 | 133·8 | 131·0 | 125·0 | 119·1 ^d | 116·2 | 115·0 | 117·8 | 118·0 | 120·2 |
| | 18 | 133·2 | 134·2 | 137·2 | 137·2 | 129·0 | 125·0 | 121·8 | 118·2 | 119·9 | 121·0 | 121·3 | 121·8 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 131·5 | 134·2 | 134·9 | 133·0 | 130·2 | 126·4 | 123·0 | 121·0 | 121·0 | 121·0 | 121·0 | 122·5 |
| | 21 | 128·7 | 130·4 | 134·0 | 133·7 | 130·0 | 128·0 | 124·9 | 120·2 | 128·6 | 119·7 | 121·8 | 123·8 |
| | 22 | 132·1 | 132·6 | 137·3 | 131·3 | 127·0 | 127·0 | 124·2 | 119·3 | 119·4 | 120·7 | 121·0 | 124·7 |
| | 23 | 132·7 | 133·5 | 134·0 | 135·0 | 132·6 | 130·0 | 125·2 | 121·0 | 122·7 | 122·5 | 124·0 | 125·1 |
| | 24 | 129·6 | 131·0 | 132·2 | 131·8 | 130·4 | 126·6 | 123·8 | 123·0 | 123·1 | 123·8 | 124·9 | 125·8 |
| | 25 | 130·0 | 132·1 | 133·6 | 133·0 | 131·0 | 126·1 | 124·0 | 122·4 | 123·1 | 124·1 | 125·2 | 127·0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 129·7 | 131·0 | 132·7 | 132·6 | 131·0 | 127·2 | 123·4 | 121·0 | 121·8 | 122·6 | 124·2 | 125·3 |
| | 28 | 130·5 | 132·8 | 133·6 | 131·1 | 129·0 | 125·8 | 121·2 | 118·9 | 119·3 | 121·0 | 123·0 | 124·8 |
| | 29 | 133·9 | 134·6 | 131·7 | 128·8 | 123·9 | 126·2 | 129·2 | 117·8 | 110·7 | 113·0 | 115·7 | 119·0 |
| | 30 | 129·0 | 131·3 | 132·7 | 133·5 | 131·7 | 127·4 | 123·1 | 120·6 | 121·5 | 124·4 | 123·6 | 125·0 |
| | 31 | 130·0 | 132·0 | 134·7 | 132·7 | 130·3 | 125·7 | 122·0 | 121·2 | 120·7 | 121·0 | 121·2 | 124·1 |
| Hourly Means | 130·06 | 131·40 | 233·15 | 132·39 | 129·80 | 126·60 | 123·33 | 120·87 | 120·50 | 121·73 | 122·80 | 124·40 | |
| APRIL. | 1 | 132·0 | 133·5 | 135·7 | 134·8 | 133·2 | 129·7 | 124·8 | 120·2 | 117·7 | 118·2 | 119·9 | 125·2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 130·4 | 131·3 | 131·0 | 131·3 | 129·6 | 126·9 | 119·2 | 115·0 | 116·2 | 115·0 ^a | 118·0 | 122·0 |
| | 4 | 129·8 | 131·5 | 131·9 | 133·1 | 131·1 | 127·5 | 124·0 | 121·5 | 120·5 | 120·4 | 121·5 | 124·0 |
| | 5 | 136·7 | 135·0 | 133·4 | 120·4 | 120·8 | 131·9 | 112·5 | 121·0 | 115·0 | 111·9 | 108·9 | 101·0 |
| | 6 | 142·2 | 141·3 | 135·0 | 123·0 | 126·7 | 124·0 | 120·0 | 119·0 | 120·9 | 123·8 | 122·0 | 124·5 |
| | 7 | 132·7 | 132·5 | 134·2 | 128·0 | 129·0 | 125·6 | 122·6 | 121·9 | 120·1 | 125·3 | 122·6 | 120·6 |
| | 8 | 131·7 | 132·3 | 132·0 | 127·6 | 123·3 | 123·8 | 118·2 | 115·5 | 114·5 | 116·0 | 122·0 | 122·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 132·0 | 132·3 | 132·4 | 130·0 | 126·6 | 122·5 | 120·1 | 119·0 | 120·0 | 122·1 | 123·7 | 125·0 |
| | 11 | 134·1 | 134·4 | 131·4 | 130·5 | 123·8 | 121·7 | 122·0 | 120·3 | 119·4 | 122·3 | 123·9 | 124·0 |
| | 12 | 135·2 | 135·1 | 133·0 | 130·4 | 128·7 | 122·5 | 118·1 | 109·1 | 112·4 | 117·0 | 123·1 | 125·5 |
| | 13 | 132·1 | 135·0 | 134·3 | 131·4 | 125·2 | 118·2 | 116·0 | 116·9 | 118·2 | 120·0 | 123·0 | 123·9 |
| | 14 ^e | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 132·3 | 135·3 | 136·5 | 131·5 | 123·8 | 121·4 | 117·4 | 117·0 | 117·2 | 119·0 | 124·0 | 125·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 134·0 | 135·0 | 135·3 | 133·7 | 129·8 | 128·0 | 123·0 | 119·8 | 119·5 | 120·2 | 121·8 | 122·9 |
| | 18 | 129·3 | 134·0 | 134·0 | 132·7 | 129·8 | 126·9 | 120·3 | 115·0 | 118·1 | 119·0 | 120·4 | 121·1 |
| | 19 | 132·5 | 132·9 | 132·8 | 131·3 | 129·2 | 125·4 | 123·0 | 123·9 | 123·5 | 123·8 | 124·6 | 125·0 |
| | 20 | 131·1 | 133·4 | 132·6 | 129·9 | 126·9 | 124·0 | 123·7 | 124·4 | 123·6 | 123·2 | 124·2 | 126·1 |
| | 21 | 132·8 | 135·8 | 135·0 | 130·0 | 127·0 | 124·3 | 122·7 | 121·1 | 121·7 ^c | 122·7 | 124·3 | 125·4 |
| | 22 | 130·7 | 132·3 | 131·0 | 124·0 | 125·3 | 123·1 | 124·0 | 124·2 | 125·6 | 125·5 | 124·8 | 124·5 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 132·1 | 133·0 | 133·0 | 131·0 | 126·4 | 121·9 | 126·4 | 119·8 | 120·0 | 122·1 | 124·0 | 125·8 |
| | 25 | 132·3 | 133·0 | 132·9 | 130·5 | 125·3 | 122·3 | 121·0 | 121·0 | 121·5 | 122·7 | 124·5 | 126·7 |
| | 26 | 130·3 | 132·0 | 131·7 | 130·0 | 124·9 | 119·9 | 117·2 | 116·2 | 116·8 | 119·2 | 121·4 | 123·0 |
| | 27 | 131·3 | 131·0 | 132·3 | 131·1 | 123·6 | 127·4 | 115·9 | 116·0 | 116·2 | 118·0 | 121·0 | 123·1 |
| | 28 | 131·0 | 134·5 | 134·7 | 130·7 | 124·4 | 120·2 | 117·8 | 117·0 | 119·2 | 122·2 | 123·8 | 125·9 |
| | 29 | 132·9 | 134·4 | 134·0 | 131·9 | 126·0 | 121·1 | 118·0 | 115·6 | 115·0 | 118·0 | 121·8 | 125·0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 132·56 | 133·79 | 133·34 | 129·95 | 126·68 | 123·76 | 120·33 | 118·77 | 118·87 | 120·32 | 122·05 | 123·22 | |

^a Two minutes late.

^b Five minutes late.

^c Three minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 127.3 | Sc. Div. 128.0 | Sc. Div. 128.0 | Sc. Div. 128.1 | Sc. Div. 131.2 | Sc. Div. 130.1 | Sc. Div. 128.0 | Sc. Div. 127.0 | Sc. Div. 127.6 | Sc. Div. 128.2 | Sc. Div. 128.5 | Sc. Div. 129.8 | Sc. Div. 127.78 |
| 127.0 | 127.3 | 128.0 | 128.0 | 128.1 | 128.0 | 127.8 | 127.5 | 127.5 | 127.7 | 128.0 | 129.0 | 127.26 |
| 128.0 | 127.8 | 127.8 | 127.9 | 129.2 | 128.0 | 128.0 | 127.8 | 128.0 | 128.5 | 128.2 | 129.2 | 127.86 |
| 123.2 | 125.0 | 127.4 | 130.0 | 129.4 | 129.8 | — | — | — | — | — | — | 127.38 |
| — | — | — | — | — | — | 126.2 | 126.4 | 129.5 | 133.0 | 131.9 | 132.2 | 127.45 |
| 116.6 | 119.0 | 142.7 | 133.0 | 134.0 | 133.1 | 130.1 | 126.5 | 133.4 | 131.0 | 129.2 | 123.8 | 127.72 |
| 128.7 | 128.3 | 127.2 | 128.4 | 128.8 | 128.8 | 128.4 | 129.2 | 128.0 | 128.1 | 128.6 | 129.0 | 126.93 |
| 125.8 | 126.7 | 127.1 | 127.1 | 127.9 | 128.0 | 127.7 | 127.7 | 127.5 | 127.8 | 127.5 | 126.3 | 127.35 |
| 126.0 | 127.0 | 127.2 | 127.0 | 128.8 | 128.0 | 127.5 | 127.2 | 127.8 | 127.8 | 128.1 | 128.7 | 127.26 |
| 126.5 | 126.7 | 122.2 | 126.8 | 129.5 | 129.0 | 126.5 | 126.9 | 127.5 | 127.0 | 128.3 | 128.3 | 126.69 |
| 123.1 | 123.8 | 126.0 | 126.3 | 127.0 | 127.0 | — | — | — | — | — | — | 126.51 |
| — | — | — | — | — | — | 127.7 | 127.0 | 123.8 | 129.0 | 129.6 | 129.5 | 129.14 |
| 126.0 | 126.9 | 135.5 | 142.5 | 134.9 | 130.2 | 132.9 | 135.4 | 128.1 | 126.0 | 128.7 | 127.8 | 129.14 |
| 126.2 | 126.0 | 126.3 | 128.8 | 132.0 | 129.0 | 127.0 | 129.2 | 127.0 | 127.2 | 128.0 | 127.5 | 126.92 |
| 126.3 | 126.8 | 127.2 | 127.1 | 127.4 | 127.6 | 128.5 | 128.8 | 128.0 | 129.0 | 129.0 | 130.0 | 127.15 |
| 126.3 | 127.5 | 127.5 | 129.5 | 128.9 | 127.4 | 127.0 | 127.0 | 127.1 | 127.8 | 128.0 | 129.7 | 126.35 |
| 118.0 | 118.0 | 118.4 | 125.5 | 130.9 | 126.0 | 127.0 | 127.0 | 127.5 | 128.1 | 130.0 | 129.7 | 125.01 |
| 131.6 | 125.9 | 136.5 | 127.6 | 134.3 | 130.0 | — | — | — | — | — | — | 127.28 |
| — | — | — | — | — | — | 130.5 | 130.9 | 128.8 | 130.4 | 131.7 | 131.7 | 128.74 |
| 125.0 | 134.8 | 126.4 | 127.2 | 127.9 | 128.2 | 128.5 | 128.0 | 124.1 | 124.0 | 124.4 | 127.0 | 126.88 |
| 125.9 | 126.5 | 129.0 | 128.4 | 128.2 | 129.0 | 130.1 | 130.8 | 128.8 | 129.0 | 129.5 | 128.7 | 127.40 |
| 125.7 | 128.0 | 137.0 | 130.3 | 131.4 | 128.3 | 125.4 | 123.6 | 128.3 | 131.0 | 125.5 | 130.5 | 127.57 |
| 129.1 | 129.6 | 129.9 | 128.9 | 129.2 | 131.0 | 127.8 | 128.0 | 127.0 | 127.1 | 127.4 | 127.0 | 128.35 |
| 125.9 | 126.8 | 127.1 | 127.7 | 127.6 | 127.5 | 127.8 | 128.6 | 129.0 | 129.2 | 127.0 | 127.0 | 127.38 |
| 127.2 | 127.9 | 127.9 | 127.7 | 129.9 | 129.0 | — | — | — | — | — | — | 127.98 |
| — | — | — | — | — | — | 127.4 | 128.0 | 128.0 | 128.5 | 129.0 | 129.5 | 127.60 |
| 126.8 | 126.9 | 127.0 | 129.8 | 127.4 | 129.9 | 128.0 | 129.0 | 128.0 | 129.0 | 128.9 | 129.2 | 127.60 |
| 126.4 | 126.8 | 127.3 | 127.0 | 127.8 | 127.0 | 128.2 | 127.3 | 129.0 | 128.9 | 127.2 | 130.5 | 126.85 |
| 120.0 | 121.8 | 125.0 | 127.8 | 127.9 | 128.4 | 126.7 | 126.5 | 127.5 | 126.8 | 128.1 | 129.2 | 125.01 |
| 125.9 | 130.5 | 126.6 | 127.2 | 131.6 | 127.2 | 128.0 | 128.8 | 128.5 | 128.8 | 128.9 | 129.3 | 127.71 |
| 125.9 | 129.0 | 126.5 | 126.1 | 125.8 | 129.0 | 127.5 | 127.2 | 129.0 | 128.0 | 128.7 | 130.8 | 127.05 |
| 125.57 | 126.64 | 128.32 | 128.58 | 129.52 | 128.69 | 128.01 | 128.05 | 127.94 | 128.40 | 128.44 | 128.92 | 127.26 |
| 127.0 | 129.7 | 127.7 | 127.4 | 129.0 | 128.5 | — | — | — | — | — | — | 127.82 |
| — | — | — | — | — | — | 130.2 | 128.9 | 127.7 | 128.8 | 130.0 | 128.0 | 127.82 |
| 123.6 | 125.4 | 133.3 | 126.8 | 126.8 | 127.0 | 127.0 | 127.3 | 128.0 | 128.8 | 126.6 | 127.2 | 125.57 |
| 127.0 | 127.9 | 127.6 | 127.8 | 128.6 | 129.7 | 130.2 | 131.5 | 133.1 | 130.7 | 128.0 | 135.0 | 128.08 |
| 106.0 | 118.2 | 135.4 | 128.4 | 135.8 | 118.0 | 135.4 | 138.7 | 140.7 | 140.0 | 132.6 | 141.1 | 125.78 |
| 129.0 | 121.3 | 156.1 | 140.1 | 131.2 | 125.9 | 131.4 | 124.5 | 129.7 | 130.2 | 131.0 | 133.1 | 129.41 |
| 121.0 | 133.7 | 124.3 | 131.2 | 142.6 | 129.0 | 134.5 | 130.4 | 135.5 | 132.4 | 128.2 | 131.0 | 128.70 |
| 130.3 | 728.2 | 125.0 | 128.0 | 127.0 | 127.0 | — | — | — | — | — | — | 126.33 |
| — | — | — | — | — | — | 132.1 | 128.0 | 135.0 | 122.1 | 136.1 | 134.3 | 126.70 |
| 126.3 | 126.3 | 130.4 | 126.7 | 127.3 | 126.8 | 127.2 | 128.0 | 128.6 | 124.4 | 131.0 | 132.0 | 126.70 |
| 125.6 | 126.9 | 128.2 | 132.1 | 132.8 | 131.5 | 127.6 | 124.7 | 124.0 | 123.4 | 136.3 | 132.6 | 127.23 |
| 127.2 | 129.8 | 133.3 | 135.6 | 135.2 | 135.6 | 127.4 | 129.3 | 131.0 | 123.8 | 132.2 | 135.0 | 127.73 |
| 127.5 | 129.1 | 128.1 | 125.0 | 125.3 | 128.0 | — | — | — | — | — | — | 125.77 |
| — | — | — | — | — | — | 132.1 | 125.0 | 123.0 | 126.0 | 128.5 | 126.6 | 127.33 |
| 137.5 | 126.0 | 134.2 | 127.0 | 130.0 | 128.2 | — | — | — | — | — | — | 127.04 |
| — | — | — | — | — | — | 127.4 | 128.0 | 128.5 | 127.2 | 130.7 | 130.6 | 127.62 |
| 124.1 | 130.0 | 122.7 | 128.3 | 127.4 | 128.5 | 134.1 | 127.9 | 129.0 | 124.4 | 131.9 | 131.5 | 127.62 |
| 122.4 | 128.4 | 125.4 | 131.1 | 125.7 | 128.6 | 129.1 | 129.5 | 128.4 | 128.9 | 127.0 | 130.8 | 126.50 |
| 125.8 | 126.5 | 125.7 | 125.8 | 131.8 | 128.4 | 128.1 | 129.3 | 128.0 | 128.2 | 128.1 | 129.1 | 127.61 |
| 126.5 | 126.2 | 126.2 | 127.9 | 128.8 | 128.8 | 127.6 | 128.7 | 127.4 | 128.0 | 128.7 | 128.4 | 127.35 |
| 126.5 | 126.3 | 126.6 | 126.9 | 126.4 | 128.0 | 127.8 | 127.2 | 128.4 | 128.2 | 129.0 | 130.0 | 127.25 |
| 126.6 | 127.0 | 126.8 | 126.0 | 126.5 | 126.9 | — | — | — | — | — | — | 126.32 |
| — | — | — | — | — | — | 125.6 | 126.8 | 127.4 | 127.8 | 128.8 | 120.6 | 126.53 |
| 126.5 | 126.6 | 125.0 | 125.1 | 125.9 | 125.8 | 126.4 | 126.0 | 125.7 | 127.9 | 129.0 | 131.4 | 126.53 |
| 127.0 | 126.7 | 127.8 | 125.7 | 125.6 | 126.9 | 130.5 | 126.7 | 124.0 | 125.7 | 128.1 | 129.1 | 126.56 |
| 124.6 | 125.2 | 125.5 | 125.6 | 126.0 | 126.8 | 126.5 | 127.8 | 126.2 | 128.4 | 129.6 | 129.0 | 125.16 |
| 124.2 | 124.2 | 125.5 | 125.8 | 127.1 | 125.4 | 125.8 | 127.0 | 127.9 | 128.9 | 128.9 | 130.3 | 125.00 |
| 126.4 | 125.6 | 125.5 | 125.6 | 125.8 | 128.0 | 126.0 | 126.8 | 126.4 | 127.0 | 128.6 | 130.8 | 125.99 |
| 126.2 | 126.2 | 126.3 | 126.7 | 127.0 | 127.2 | — | — | — | — | — | — | 125.72 |
| — | — | — | — | — | — | 126.0 | 126.7 | 126.9 | 127.2 | 128.0 | 129.1 | 125.89 |
| 125.62 | 126.73 | 128.86 | 128.19 | 128.98 | 127.69 | 129.00 | 128.11 | 128.77 | 127.85 | 129.87 | 130.69 | 126.83 |

^d Four minutes late.

^e Good Friday.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| Angular Value of One Scale Division of the Declinometer = $0^{\circ}.721$. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| | 1 | 131.3 | 131.2 | 132.0 | 128.8 | 120.7 | 116.9 | 113.9 | 116.8 | 115.4 | 118.3 | 121.5 | 124.8 |
| | 2 | 132.0 | 133.2 | 134.0 | 134.8 | 131.6 | 129.1 | 126.0 | 121.8 | 118.5 | 119.1 | 122.0 | 124.8 |
| | 3 | 133.1 | 134.0 | 133.0 | 130.1 | 125.3 | 120.1 | 116.7 | 115.9 | 116.1 | 118.6 | 120.5 | 122.0 |
| | 4 | 131.0 | 133.5 | 135.8 | 133.4 | 128.0 | 123.1 | 117.4 | 117.2 | 116.9 | 118.3 | 119.7 | 122.9 |
| | 5 | 131.0 | 132.0 | 133.1 | 134.0 | 130.8 | 125.6 | 121.1 | 118.1 | 118.2 | 119.2 | 121.4 | 123.9 |
| | 6 | 133.0 | 134.0 | 136.3 | 137.0 | 131.8 | 126.4 | 122.0 | 120.9 | 117.2 | 114.1 | 112.6 | 124.4 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 128.3 | 133.0 | 132.8 | 131.0 | 128.0 | 124.6 | 123.3 | 122.5 | 122.6 | 122.3 | 123.1 | 123.2 |
| | 9 | 126.0 | 129.7 | 130.0 | 130.0 | 125.0 | 124.0 | 119.3 | 120.0 | 117.3 | 119.0 | 124.1 | 122.0 |
| | 10 | 130.0 | 132.0 | 132.1 | 125.0 | 122.0 | 122.1 | 123.0 | 122.5 | 120.2 | 118.3 | 120.9 | 122.9 |
| | 11 | 130.2 | 129.4 | 129.0 | 127.5 | 126.0 | 124.4 | 120.2 | 118.9 | 119.2 | 121.1 | 123.0 | 124.0 |
| | 12 | 127.1 | 128.9 | 130.0 | 131.0 | 127.6 | 123.8 | 120.4 | 118.0 | 118.0 | 120.3 | 122.4 | 124.0 |
| | 13 | 133.0 | 132.6 | 131.8 | 128.6 | 125.0 | 122.6 | 119.3 | 118.2 | 120.0 | 120.4 | 122.0 | 123.4 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 129.0 | 135.0 | 138.1 | 139.1 | 136.0 | 128.5 | 121.0 | 119.0 | 118.9 | 113.7 | 115.0 | 119.6 |
| | 16 | 131.0 | 132.5 | 133.5 | 128.2 | 122.1 | 120.9 | 120.6 | 118.9 | 118.6 | 118.0 | 120.8 | 123.2 |
| | 17 | 128.2 | 129.1 | 131.9 | 129.1 | 128.0 | 125.5 | 122.2 | 121.5 | 121.5 | 121.3 | 121.8 | 122.9 |
| | 18 | 131.0 | 132.2 | 132.8 | 130.1 | 124.8 | 122.0 | 121.6 | 120.0 | 120.7 | 123.1 | 124.1 | 124.8 |
| | 19 | 129.1 | 132.0 | 132.0 | 132.2 | 129.8 | 126.1 | 121.4 | 119.8 | 119.4 | 120.2 | 123.1 | 125.4 |
| | 20 | 133.0 | 133.0 | 136.0 | 134.0 | 130.1 | 126.1 | 123.8 | 121.9 | 120.4 | 122.0 | 124.1 | 126.0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 133.0 | 134.0 | 132.8 | 132.1 | 127.1 | 121.9 | 119.0 | 118.4 | 118.9 | 120.6 | 120.8 | 123.8 |
| | 23 | 130.8 | 130.6 | 128.6 | 125.5 | 121.1 | 116.9 | 115.0 | 115.4 | 117.4 | 120.9 | 123.3 | 124.5 |
| | 24 | 133.1 | 133.5 | 132.0 | 129.0 | 124.1 | 117.6 | 114.3 | 112.2 | 116.0 | 119.3 | 123.0 | 126.0 |
| | 25 | 132.1 | 133.2 | 134.6 | 132.9 | 125.6 | 117.0 | 113.1 | 112.8 | 115.5 | 119.4 | 124.2 | 126.9 |
| | 26 | 137.0 | 138.7 | 138.0 | 133.8 | 128.0 | 123.1 | 117.3 | 117.0 | 115.9 | 120.0 | 118.9 | 122.9 |
| | 27 | 133.6 | 134.1 | 134.0 | 130.4 | 128.0 | 121.6 | 118.3 | 115.9 | 117.4 | 120.2 | 123.9 | 125.2 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 134.0 | 136.1 | 138.3 | 135.0 | 126.9 ^a | 120.3 | 114.1 | 117.2 | 117.2 | 120.0 | 123.5 | 129.1 |
| | 30 | 133.1 | 135.0 | 134.0 | 131.5 | 127.0 ^b | 123.4 | 119.9 | 118.1 | 118.9 | 119.9 | 121.4 | 124.8 |
| 31 | 133.2 | 133.0 | 133.9 | 130.0 | 124.8 | 120.0 | 116.5 | 114.1 | 116.4 | 119.7 | 122.6 | 125.2 | |
| Hourly Means | 131.38 | 132.80 | 133.35 | 131.26 | 126.86 | 122.74 | 119.29 | 118.26 | 118.25 | 119.53 | 121.62 | 124.17 | |
| JUNE. | 1 | 137.0 | 136.1 | 134.0 | 130.6 | 127.0 | 122.1 | 118.8 | 118.8 | 120.2 | 122.6 | 124.8 | 127.5 |
| | 2 | 140.0 | 141.0 | 135.9 | 130.2 | 124.8 | 119.2 | 116.9 | 116.6 | 118.1 | 120.4 | 123.2 | 125.1 |
| | 3 | 136.1 | 137.0 | 137.0 | 131.0 | 123.0 | 118.4 | 120.2 | 118.6 | 118.8 | 120.9 | 122.6 | 123.5 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 131.6 | 132.3 | 131.0 | 127.1 | 122.1 | 120.8 | 119.3 | 118.1 | 118.9 | 118.7 | 119.1 | 121.6 |
| | 6 | 129.1 | 130.5 | 130.0 | 128.0 | 125.0 | 121.0 | 118.9 | 119.5 | 118.5 | 119.5 | 121.1 | 120.7 |
| | 7 | 131.0 | 132.4 | 132.7 | 126.2 | 125.2 | 121.3 | 120.3 | 116.4 | 116.3 | 117.4 | 125.3 | 125.0 |
| | 8 | 132.0 | 132.0 | 130.2 | 126.7 | 123.5 | 119.6 | 119.0 | 120.2 | 119.6 | 122.0 | 123.8 | 128.4 |
| | 9 | 132.0 | 131.2 | 129.0 | 127.9 | 125.2 | 123.0 | 121.0 | 119.6 | 119.9 | 121.2 | 123.8 | 125.0 |
| | 10 | 133.3 | 139.5 | 132.6 | 131.3 | 126.3 | 122.3 | 121.2 | 119.3 | 121.3 | 116.5 | 124.0 | 126.0 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 134.0 | 136.5 | 136.0 | 132.8 | 126.0 | 122.3 | 118.6 | 118.8 | 122.8 | 122.2 | 125.4 | 125.4 |
| | 13 | 127.0 | 131.3 | 129.2 | 126.1 | 126.2 | 124.0 ^b | 115.0 | 120.2 | 117.0 | 117.5 | 122.4 | 125.5 |
| | 14 | 129.0 | 130.9 | 133.0 | 134.0 | 127.7 | 128.3 | 120.9 | 120.0 | 118.9 | 119.0 | 120.0 | 121.1 |
| | 15 | 127.0 | 130.0 | 130.1 | 130.0 | 126.4 | 121.5 | 119.0 | 117.8 | 118.7 | 118.6 | 119.3 | 122.2 |
| | 16 | 133.7 | 134.6 | 133.3 | 131.1 | 127.0 | 124.1 | 122.1 | 120.3 | 120.0 | 121.0 | 123.8 | 125.4 |
| | 17 | 131.9 | 132.9 | 130.8 | 126.3 | 123.0 | 122.1 | 118.6 | 118.1 | 119.0 | 118.5 | 121.2 | 123.2 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 131.0 | 132.5 | 132.0 | 131.3 | 130.2 | 126.0 | 123.2 | 119.3 | 117.2 | 116.9 | 117.9 | 119.8 |
| | 20 | 132.7 | 134.6 | 133.2 | 129.1 | 127.3 | 122.5 | 119.0 | 116.7 | 117.0 | 117.9 | 120.2 | 122.0 |
| | 21 | 132.4 | 133.5 | 134.0 | 133.0 | 127.0 | 123.0 | 117.0 | 115.0 | 115.8 | 117.4 | 118.9 | 120.9 |
| | 22 | 130.0 | 130.8 | 131.1 | 130.0 | 127.6 | 124.2 | 121.0 | 118.0 | 117.5 | 118.1 | 119.8 | 120.9 |
| | 23 | 131.0 | 133.0 | 131.0 | 129.2 | 125.0 | 121.0 | 116.3 | 113.5 | 114.9 | 117.8 | 119.9 | 121.4 |
| | 24 | 134.0 | 137.0 | 137.4 | 135.0 | 131.0 | 124.0 | 119.4 | 117.6 | 117.4 | 119.9 | 122.9 | 125.6 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 139.5 | 141.0 | 140.0 | 137.0 | 132.0 | 125.2 | 121.0 | 119.1 | 120.0 | 119.5 | 120.0 | 121.0 |
| | 27 | 134.0 | 135.0 | 132.0 | 129.0 | 126.0 | 123.0 | 120.2 | 119.7 | 119.5 | 120.4 | 122.2 | 122.4 |
| | 28 | 131.8 | 132.7 | 130.2 | 129.0 | 125.1 | 124.2 | 119.0 | 119.8 | 120.2 | 121.7 | 122.0 | 123.7 |
| | 29 | 134.0 | 134.4 | 131.2 | 128.1 | 126.5 | 123.0 | 117.5 | 117.9 | 119.1 | 122.1 | 124.5 | 125.1 |
| | 30 | 132.0 | 134.3 | 135.4 | 136.2 | 131.2 | 123.7 | 118.9 | 117.0 | 117.6 | 118.4 | 121.2 | 122.5 |
| Hourly Means | 132.58 | 134.12 | 132.78 | 130.24 | 126.43 | 122.68 | 119.32 | 118.32 | 118.62 | 119.46 | 121.90 | 123.50 | |

^a Three minutes late.^b Five minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 125.2 | 125.8 | 125.3 | 130.0 | 128.8 | 125.2 | 126.0 | 126.5 | 126.8 | 127.0 | 127.8 | 130.8 | 124.87 |
| 126.0 | 126.6 | 126.7 | 127.0 | 126.9 | 127.2 | 126.8 | 126.5 | 127.2 | 128.5 | 128.2 | 130.9 | 127.31 |
| 124.6 | 125.5 | 126.2 | 126.0 | 126.6 | 127.0 | 126.3 | 126.9 | 127.1 | 127.9 | 128.3 | 131.1 | 125.37 |
| 124.2 | 124.7 | 127.0 | 126.8 | 126.5 | 126.0 | 126.9 | 126.8 | 126.5 | 126.5 | 127.0 | 129.2 | 125.64 |
| 125.2 | 126.0 | 125.7 | 125.8 | 126.2 | 126.6 | 127.0 | 127.0 | 127.7 | 128.0 | 127.6 | 128.9 | 126.25 |
| 124.9 | 110.3 | 114.0 | 122.1 | 142.0 | 148.3 | — | — | — | — | — | — | 126.07 |
| — | — | — | — | — | — | 123.4 | 130.0 | 126.5 | 125.4 | 122.0 | 127.0 | 127.12 |
| 130.8 | 131.0 | 128.8 | 127.5 | 126.4 | 130.6 | 123.3 | 126.2 | 128.0 | 127.5 | 128.0 | 128.0 | 127.12 |
| 123.2 | 124.0 | 125.4 | 124.8 | 124.4 | 128.0 | 128.7 | 128.5 | 128.0 | 126.7 | 127.2 | 130.0 | 125.22 |
| 130.4 | 123.0 | 125.2 | 134.1 | 125.5 | 127.4 | 128.1 | 120.3 | 127.0 | 129.9 | 128.5 | 131.0 | 125.89 |
| 124.5 | 127.2 | 126.5 | 126.3 | 126.1 | 124.2 | 124.5 | 126.0 | 126.0 | 127.0 | 124.8 | 128.0 | 125.17 |
| 125.6 | 125.2 | 132.0 | 130.0 | 135.2 | 135.1 | 129.0 | 129.5 | 128.1 | 128.0 | 128.0 | 131.6 | 127.03 |
| 125.1 | 124.8 | 124.0 | 128.0 | 125.9 | 127.0 | — | — | — | — | — | — | 126.05 |
| — | — | — | — | — | — | 129.3 | 128.8 | 129.0 | 127.3 | 129.0 | 130.0 | 126.05 |
| 123.2 | 127.0 | 127.0 | 134.7 | 141.1 | 130.3 | 133.6 | 130.0 | 131.9 | 128.0 | 122.5 | 121.9 | 127.67 |
| 126.0 | 125.2 | 128.0 | 127.3 | 124.9 | 126.3 | 131.1 | 119.6 | 124.6 | 125.3 | 125.8 | 127.3 | 124.99 |
| 129.8 | 130.1 | 127.5 | 127.6 | 127.0 | 130.0 | 125.4 | 127.2 | 124.8 | 124.2 | 123.7 | 125.0 | 126.05 |
| 125.0 | 126.0 | 126.0 | 125.8 | 125.4 | 126.0 | 127.6 | 128.0 | 128.6 | 127.0 | 127.0 | 128.9 | 126.19 |
| 126.2 | 128.1 | 125.8 | 126.1 | 129.0 | 123.2 | 124.0 | 126.0 | 126.5 | 125.2 | 126.8 | 120.3 | 125.74 |
| 126.9 | 125.5 | 125.8 | 125.2 | 125.0 | 125.0 | — | — | — | — | — | — | 127.13 |
| — | — | — | — | — | — | 126.0 | 126.4 | 126.9 | 127.2 | 129.7 | 131.2 | 126.19 |
| 124.3 | 124.6 | 125.9 | 127.0 | 126.2 | 126.4 | 127.1 | 128.0 | 128.5 | 128.2 | 129.4 | 130.7 | 124.22 |
| 124.9 | 124.0 | 123.0 | 126.2 | 125.2 | 124.8 | 125.4 | 125.4 | 126.0 | 127.5 | 128.0 | 130.5 | 124.74 |
| 127.0 | 127.4 | 125.1 | 124.2 | 124.1 | 124.5 | 124.8 | 124.8 | 125.0 | 127.4 | 128.7 | 130.6 | 125.10 |
| 126.2 | 125.7 | 125.2 | 125.0 | 124.9 | 125.0 | 125.4 | 126.1 | 126.8 | 126.5 | 126.2 | 132.0 | 125.74 |
| 123.9 | 124.0 | 124.2 | 123.0 | 121.3 | 124.8 | 124.0 | 125.3 | 127.1 | 128.1 | 130.1 | 131.2 | 125.94 |
| 126.4 | 125.8 | 132.4 | 124.3 | 124.2 | 124.7 | — | — | — | — | — | — | 125.94 |
| — | — | — | — | — | — | 125.0 | 125.4 | 126.0 | 126.0 | 128.0 | 131.7 | 126.50 |
| 126.9 | 127.0 | 126.7 | 125.6 | 126.8 | 126.8 | 135.9 | 127.7 | 119.9 | 122.3 | 127.9 | 130.7 | 126.27 |
| 126.4 | 127.0 | 125.8 | 125.6 | 126.6 | 129.7 | 125.9 | 127.0 | 126.0 | 126.2 | 127.2 | 130.0 | 125.43 |
| 126.2 | 126.1 | 125.8 | 125.0 | 126.0 | 125.4 | 126.0 | 126.2 | 124.4 | 126.2 | 128.6 | 135.0 | 125.92 |
| 125.89 | 125.47 | 125.96 | 126.70 | 127.36 | 127.61 | 126.91 | 126.52 | 126.70 | 126.85 | 127.26 | 129.39 | 125.92 |
| 128.0 | 126.2 | 125.5 | 125.0 | 125.5 | 126.0 | 127.1 | 127.1 | 125.8 | 127.6 | 127.2 | 135.0 | 126.90 |
| 126.5 | 124.5 | 124.5 | 122.1 | 123.7 | 124.2 | 128.0 | 126.0 | 127.2 | 140.0 | 137.7 | 135.8 | 127.15 |
| 124.8 | 134.8 | 125.2 | 128.9 ^a | 119.2 | 124.0 | — | — | — | — | — | — | 125.70 |
| — | — | — | — | — | — | 125.6 | 122.2 | 122.4 | 126.1 | 127.4 | 129.2 | 124.60 |
| 125.6 | 127.6 | 123.6 | 123.3 | 125.4 | 130.1 | 124.6 | 124.5 | 124.0 | 126.0 | 127.0 | 128.0 | 124.97 |
| 122.8 | 126.1 | 129.8 | 127.4 | 128.0 | 126.0 | 123.7 | 126.0 | 125.5 | 125.0 | 127.9 | 129.0 | 126.27 |
| 123.9 | 123.2 | 125.5 | 142.8 | 132.5 | 126.7 | 124.8 | 128.3 | 131.4 | 123.4 | 128.0 | 130.5 | 125.42 |
| 126.4 | 125.0 | 125.0 | 125.0 | 126.9 | 127.0 | 125.4 | 124.5 | 124.0 | 126.9 | 127.4 | 129.7 | 125.41 |
| 124.2 | 123.9 | 123.0 | 123.0 | 123.5 | 124.2 | 124.5 | 127.4 | 128.0 | 130.1 | 133.1 | 126.2 | 125.73 |
| 125.0 | 126.5 | 130.7 | 131.6 | 130.4 | 128.5 | — | — | — | — | — | — | 125.50 |
| — | — | — | — | — | — | 125.1 | 121.6 | 123.5 | 122.5 | 123.2 | 115.4 | 126.50 |
| 126.0 | 126.2 | 121.1 | 130.7 | 131.9 ^c | 125.9 | 122.4 | 126.1 | 125.5 | 125.0 | 125.5 | 129.0 | 124.71 |
| 123.8 | 125.7 | 130.4 | 127.2 | 128.5 | 128.0 | 127.0 | 123.8 | 124.5 | 123.6 | 124.1 | 127.0 | 125.52 |
| 122.4 | 123.8 | 123.8 | 124.0 | 124.0 | 125.9 | 130.1 | 130.0 | 127.0 | 125.4 | 126.5 | 126.8 | 124.11 |
| 123.2 | 124.2 | 123.8 | 124.6 | 124.2 | 124.0 | 124.0 | 122.0 | 125.1 | 125.8 | 126.2 | 131.0 | 125.82 |
| 126.0 | 126.4 | 123.4 | 123.0 | 124.2 | 124.5 | 124.2 | 124.7 | 124.1 | 125.7 | 127.2 | 130.0 | 124.38 |
| 124.0 | 124.0 | 123.8 | 123.6 | 124.0 | 124.4 | — | — | — | — | — | — | 125.34 |
| — | — | — | — | — | — | 124.8 | 125.2 | 126.0 | 125.5 | 125.0 | 129.3 | 124.96 |
| 122.7 | 127.0 | 125.2 | 126.0 | 125.5 | 123.9 | 125.2 | 125.6 | 126.2 | 127.0 | 127.2 | 129.3 | 124.80 |
| 123.8 | 125.5 | 124.0 | 125.0 | 127.0 | 125.2 | 125.4 | 125.1 | 123.0 | 125.0 | 127.2 | 130.7 | 125.08 |
| 123.2 | 122.4 | 122.8 | 127.0 | 126.0 | 125.2 | 126.9 | 125.5 | 125.0 | 126.5 | 127.2 | 129.6 | 124.38 |
| 122.5 | 123.2 | 121.2 | 123.0 | 133.1 | 130.0 | 129.5 | 125.0 | 124.8 | 124.4 | 127.0 | 128.9 | 126.87 |
| 122.5 | 123.2 | 125.5 | 124.2 | 124.0 | 125.6 | 126.0 | 125.9 | 126.5 | 127.8 | 129.0 | 131.0 | 126.89 |
| 125.9 | 126.0 | 125.0 | 126.0 | 125.0 | 126.2 | — | — | — | — | — | — | 125.48 |
| — | — | — | — | — | — | 128.8 | 127.6 | 128.0 | 129.2 | 131.0 | 125.0 | 125.73 |
| 122.6 | 123.0 | 123.0 | 124.0 | 124.3 | 124.7 | 125.4 | 126.0 | 127.0 | 128.6 | 129.9 | 131.5 | 125.85 |
| 123.1 | 122.8 | 122.9 | 123.8 | 123.0 | 123.0 | 128.8 | 127.0 | 127.0 | 128.5 | 128.2 | 130.0 | 128.45 |
| 124.1 | 124.1 | 124.1 | 124.5 | 126.0 | 128.2 | 129.8 | 126.0 | 123.6 | 129.3 | 127.1 | 131.4 | 125.66 |
| 123.5 | 122.0 | 126.3 | 127.2 | 125.6 | 125.6 | 127.0 | 127.7 | 125.8 | 126.7 | 128.5 | 131.0 | 125.85 |
| 125.0 | 124.2 | 126.2 | 128.8 | 131.4 | 132.0 | 134.0 | 143.5 | 130.1 | 131.4 | 131.2 | 136.5 | 128.45 |
| 124.29 | 125.06 | 124.82 | 126.22 | 126.26 | 126.12 | 126.47 | 126.32 | 125.81 | 127.04 | 127.96 | 129.49 | 125.66 |

^a Four minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------------|----------------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JULY. | 1 | Sc. Div. 137.0 | Sc. Div. 138.2 | Sc. Div. 134.0 | Sc. Div. 132.1 | Sc. Div. 127.8 | Sc. Div. 124.0 | Sc. Div. 120.2 | Sc. Div. 115.2 | Sc. Div. 117.2 | Sc. Div. 120.0 | Sc. Div. 122.4 | Sc. Div. 124.0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 136.0 | 134.0 | 134.0 | 134.9 | 131.2 | 126.2 | 120.1 | 117.8 | 119.2 | 120.9 | 120.9 | 122.7 |
| | 4 | 131.4 | 131.8 | 129.7 | 130.1 | 128.0 | 127.0 | 121.7 | 119.3 | 117.8 | 119.7 | 119.1 | 120.2 |
| | 5 | 130.2 | 130.9 | 130.7 | 129.8 | 128.6 | 126.3 | 124.2 | 122.7 | 122.2 | 121.9 | 122.2 | 123.6 |
| | 6 | 130.0 | 130.9 | 130.1 | 130.0 | 127.8 | 125.0 | 122.0 | 119.9 | 120.3 | 119.8 | 121.1 | 122.2 |
| | 7 | 130.0 | 132.0 | 132.7 | 132.5 | 127.9 | 123.3 | 119.1 | 120.0 | 119.3 | 117.2 | 115.8 | 121.1 |
| | 8 | 133.4 | 138.1 | 138.7 | 136.5 | 126.1 | 119.7 | 117.2 | 116.3 | 119.7 | 123.6 | 126.5 | 127.2 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 127.5 | 132.1 | 125.2 | 125.2 | 120.5 | 114.2 | 114.8 | 110.9 | 114.0 | 119.5 | 122.0 | 124.0 |
| | 11 | 131.0 | 131.5 | 130.7 | 130.1 | 126.2 | 123.1 | 121.1 | 120.0 | 119.2 | 119.1 | 118.4 | 122.8 |
| | 12 | 129.1 | 130.9 | 130.7 | 127.2 | 124.0 | 120.4 | 119.0 | 119.4 | 121.0 | 120.0 | 121.8 | 125.3 |
| | 13 | 128.2 | 135.6 | 135.2 | 134.0 | 130.9 | 126.0 | 123.3 | 121.6 | 120.2 | 120.5 | 120.2 | 125.2 |
| | 14 | 130.7 | 127.8 | 130.0 | 135.5 | 131.5 | 124.2 | 118.7 | 115.0 | 115.2 | 117.0 | 118.2 | 119.8 |
| | 15 | 132.9 | 130.7 | 129.7 | 134.6 | 130.9 | 127.3 | 124.2 | 121.4 | 117.3 | 117.0 | 118.8 | 122.1 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 132.0 | 135.0 | 131.9 | 128.9 | 126.1 | 121.9 | 121.0 | 119.4 | 119.5 | 119.5 | 121.0 | 123.0 |
| | 18 | 131.6 | 130.8 | 130.7 | 127.6 | 124.9 | 120.4 | 117.3 | 115.5 | 117.3 | 121.6 | 122.5 | 124.8 |
| | 19 | 130.8 | 132.9 | 134.6 | 132.1 | 128.0 | 124.0 | 119.2 | 116.9 | 117.0 | 119.4 | 121.0 | 123.7 |
| | 20 | 131.2 | 131.3 | 131.9 | 130.2 | 126.8 | 122.5 | 118.2 | 116.2 | 116.8 | 118.8 | 122.0 | 124.6 |
| | 21 | 129.3 | 130.5 | 134.0 | 131.0 | 126.5 | 122.0 | 117.4 | 113.3 | 113.5 | 114.8 | 120.9 | 124.8 |
| | 22 | 136.0 | 139.6 | 137.5 | 132.7 | 124.9 | 120.0 | 115.8 | 115.2 | 116.8 | 118.2 | 120.3 | 122.1 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 134.9 | 135.0 | 135.7 | 133.1 | 128.4 | 124.0 | 125.8 | 123.0 | 116.6 | 113.6 | 108.9 | 123.1 |
| | 25 | 114.2 | 113.2 | 119.9 | 109.5 | 111.6 | 115.6 | 109.8 | 101.7 | 108.0 | 105.6 | 110.4 | 106.9 |
| | 26 | 138.8 | 139.2 | 138.0 | 130.2 | 126.0 | 121.4 | 116.3 | 118.0 | 118.9 | 122.9 | 124.2 | 124.5 |
| | 27 | 134.2 | 137.1 | 134.0 | 127.1 | 121.5 | 118.1 | 116.8 | 114.8 | 118.2 | 120.8 | 120.0 | 124.2 |
| | 28 | 132.0 | 134.1 | 130.1 | 129.0 | 123.9 | 119.5 | 113.0 | 110.2 | 112.9 | 116.8 | 122.0 | 128.1 |
| | 29 | 134.6 | 136.8 | 134.5 | 132.5 | 127.0 | 122.4 | 118.0 | 114.0 | 115.2 | 115.5 | 120.2 | 120.8 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 129.0 | 132.0 | 134.0 | 130.9 | 125.3 | 122.1 | 117.1 | 113.8 | 116.8 | 112.3 | 116.1 | 121.0 |
| Hourly Means | 131.38 | 132.77 | 132.24 | 130.28 | 126.24 | 122.33 | 118.90 | 116.60 | 117.31 | 118.31 | 119.88 | 122.76 | |
| AUGUST. | 1 | 134.0 | 135.0 | 136.8 | 134.0 | 129.8 | 125.1 | 119.8 | 116.8 | 116.2 | 119.0 | 122.7 | 124.8 |
| | 2 | 130.0 | 133.0 | 130.6 | 126.1 | 122.0 | 119.0 | 116.8 | 118.5 | 120.2 | 121.6 | 123.2 | 123.8 |
| | 3 | 130.8 | 132.1 | 133.0 | 131.0 | 128.0 | 120.0 | 118.2 | 116.4 | 119.7 | 121.0 | 124.9 | 127.1 |
| | 4 | 139.1 | 133.9 | 131.1 | 126.0 | 124.9 | 118.5 | 110.2 | 117.2 | 118.1 | 119.2 ^a | 123.3 | 122.8 |
| | 5 | 132.0 | 132.5 | 133.0 | 130.0 | 124.0 | 121.4 | 121.1 | 120.9 | 121.0 | 120.2 | 121.6 | 122.8 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 132.5 | 134.0 | 132.0 | 127.0 | 121.1 | 120.2 | 119.6 | 117.0 | 117.2 | 120.5 | 120.3 | 123.2 |
| | 8 | 135.0 | 139.8 | 135.9 | 129.9 | 119.8 | 118.7 | 112.2 | 116.6 | 114.8 | 117.6 | 122.6 | 124.3 |
| | 9 | 131.0 | 136.9 | 132.8 | 129.7 | 124.2 | 121.2 | 117.5 | 115.7 | 115.8 | 119.8 | 122.8 | 125.9 |
| | 10 | 131.0 | 134.0 | 134.4 | 130.0 | 121.9 | 115.5 | 116.4 | 114.6 | 117.1 | 121.4 | 123.7 | 124.7 |
| | 11 | 136.6 | 135.8 | 132.9 | 128.0 | 122.0 | 119.4 | 113.5 | 113.6 | 117.3 | 120.2 | 124.0 | 129.2 |
| | 12 | 134.0 | 130.0 | 132.6 | 131.4 | 127.0 | 123.9 | 119.0 | 116.5 | 118.4 | 120.5 | 123.2 | 123.9 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 130.3 | 132.0 | 133.9 | 128.0 | 123.0 | 118.0 | 116.0 | 115.6 | 115.8 | 119.6 | 121.0 | 122.8 |
| | 15 | 132.1 | 134.0 | 135.8 | 132.2 | 129.0 | 123.8 | 120.2 | 118.9 | 119.5 | 121.0 | 122.1 | 123.7 |
| | 16 | 128.9 | 132.0 | 132.1 | 131.0 | 128.0 | 122.0 | 116.7 | 115.2 | 114.9 | 118.3 | 120.6 | 122.0 |
| | 17 | 129.5 | 131.1 | 133.0 | 130.8 | 126.2 | 119.0 | 114.0 | 112.6 | 114.5 | 117.8 | 122.6 | 125.7 |
| | 18 | 130.2 | 133.7 | 133.0 | 129.2 | 126.0 | 120.5 | 117.8 | 115.3 | 117.2 | 121.0 | 123.2 | 125.1 |
| | 19 | 133.0 | 136.6 | 136.1 | 130.4 | 124.0 | 120.6 | 119.2 | 118.5 | 119.9 | 121.7 | 123.5 | 125.0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 130.0 | 136.0 | 133.8 | 130.0 | 124.0 | 118.9 | 115.5 | 114.9 | 117.2 | 121.0 | 123.2 | 125.4 |
| | 22 | 130.0 | 131.9 | 128.1 | 130.8 | 123.0 | 125.5 | 114.2 | 113.8 | 108.1 | 112.8 | 114.7 | 121.8 |
| | 23 | 132.2 | 132.0 | 133.4 | 130.6 | 125.8 | 125.0 | 122.0 | 117.6 | 120.2 | 122.1 | 123.5 | 128.6 |
| | 24 | 128.4 | 133.0 | 133.0 | 131.6 | 126.3 | 123.8 | 119.2 | 116.0 | 118.5 | 121.2 | 122.5 | 122.3 |
| | 25 | 132.0 | 134.0 | 131.8 | 131.1 | 124.0 | 117.7 | 111.9 | 108.1 | 109.7 | 115.5 | 122.2 | 124.7 |
| | 26 | 129.1 | 133.5 | 133.8 | 130.9 | 124.0 | 118.9 | 112.8 | 112.4 | 115.0 | 118.8 | 123.0 | 124.8 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 131.2 | 136.4 | 136.1 | 134.2 | 128.8 | 123.8 | 118.6 | 115.7 | 114.8 | 117.2 | 121.0 | 123.2 |
| | 29 | 131.0 | 134.0 | 134.9 | 132.0 | 127.7 | 122.6 | 117.9 | 114.8 | 114.8 | 117.4 | 120.6 | 123.0 |
| | 30 | 129.1 | 131.0 | 131.3 | 132.6 | 127.0 | 124.9 | 121.7 | 118.3 | 117.4 | 118.8 | 120.5 | 122.7 |
| | 31 | 125.0 | 131.3 | 131.5 | 130.0 | 123.3 | 120.2 | 117.8 | 117.0 | 117.5 | 120.1 | 121.8 | 123.0 |
| Hourly Means | 131.41 | 133.69 | 133.21 | 130.31 | 124.99 | 121.04 | 117.03 | 115.87 | 116.70 | 119.46 | 122.16 | 124.31 | |

^a Five minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------|
| Sc. Div. 123.8 | Sc. Div. 124.8 | Sc. Div. 124.1 | Sc. Div. 139.2 | Sc. Div. 126.0 | Sc. Div. 126.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 132.8 | 125.0 | 124.7 | 126.9 | 131.8 | 132.1 | 127.08 |
| 123.1 | 124.2 | 123.5 | 128.2 | 126.4 | 122.8 | 129.0 | 128.2 | 123.5 | 126.2 | 127.2 | 124.0 | 126.01 |
| 120.5 | 121.2 | 128.4 | 127.8 | 126.2 | 119.2 | 133.5 | 129.0 | 126.6 | 127.2 | 128.0 | 129.2 | 125.53 |
| 123.8 | 124.0 | 122.9 | 124.2 | 124.8 | 125.4 | 125.4 | 126.0 | 128.8 | 124.4 | 127.2 | 128.0 | 125.78 |
| 123.8 | 123.2 | 123.7 | 125.7 | 125.0 | 124.8 | 125.2 | 125.8 | 126.0 | 126.5 | 128.8 | 129.0 | 125.27 |
| 113.9 | 113.8 | 121.4 | 127.0 | 127.8 | 128.6 | 136.0 | 134.4 | 139.8 | 123.0 | 124.2 | 130.7 | 125.90 |
| 126.8 | 127.2 | 126.0 | 122.0 | 124.2 | 125.6 | — | — | — | — | — | — | 125.66 |
| — | — | — | — | — | — | 125.5 | 124.2 | 121.6 | 123.6 | 125.7 | 121.0 | 126.10 |
| 127.0 | 132.8 | 125.6 | 123.0 | 124.0 | 125.1 | 126.4 | 128.6 | 120.2 | 129.4 | 127.8 | 123.1 | 123.45 |
| 140.1 | 125.0 | 125.0 | 126.3 | 124.8 | 124.5 | 125.0 | 126.2 | 126.2 | 125.7 | 127.6 | 127.1 | 125.70 |
| 128.2 | 127.2 | 123.8 | 126.0 | 125.5 | 124.2 | 125.0 | 125.4 | 125.8 | 125.5 | 126.2 | 127.2 | 124.95 |
| 124.8 | 124.6 | 124.4 | 125.0 | 138.6 | 135.4 | 133.0 | 126.8 | 126.4 | 126.2 | 126.4 | 121.8 | 127.26 |
| 121.8 | 123.3 | 122.0 | 123.3 | 128.8 | 133.6 | 128.5 | 124.7 | 126.1 | 126.9 | 124.6 | 130.4 | 124.90 |
| 126.3 | 127.2 | 126.4 | 126.0 | 127.0 | 127.4 | — | — | — | — | — | — | 125.85 |
| — | — | — | — | — | — | 125.8 | 125.0 | 126.2 | 124.0 | 122.5 | 129.8 | 125.45 |
| 124.0 | 123.8 | 124.0 | 124.7 | 127.1 | 128.8 | 126.0 | 126.0 | 125.7 | 125.8 | 126.9 | 128.8 | 125.45 |
| 126.9 | 125.4 | 124.5 | 124.2 | 124.0 | 128.1 | 129.0 | 125.8 | 126.0 | 125.2 | 126.5 | 129.0 | 124.98 |
| 125.8 | 125.9 | 125.1 | 125.5 | 126.5 | 127.5 | 125.6 | 125.0 | 125.0 | 124.0 | 125.7 | 129.1 | 125.43 |
| 126.2 | 126.0 | 124.2 | 123.8 | 123.0 | 124.6 | 127.0 | 131.7 | 127.0 | 126.2 | 127.0 | 129.0 | 125.26 |
| 126.2 | 125.8 | 124.9 | 127.0 | 124.0 | 128.2 | 126.0 | 128.6 | 131.7 | 134.2 | 131.1 | 135.0 | 125.86 |
| 124.7 | 123.2 | 129.5 | 123.4 | 123.6 | 125.0 | — | — | — | — | — | — | 125.79 |
| — | — | — | — | — | — | 124.3 | 125.0 | 126.0 | 127.8 | 127.7 | 131.0 | 125.43 |
| 123.2 | 123.2 | 123.2 | 125.1 | 123.2 | 122.8 | 123.4 | 126.0 | 130.5 | 136.4 | 141.4 | 132.2 | 126.36 |
| 116.1 | 121.1 | 127.0 | 126.0 | 142.8 | 123.5 | 123.2 | 123.5 | 124.8 | 126.8 | 129.1 | 124.0 | 118.10 |
| 130.0 | 128.0 | 124.0 | 122.4 | 122.9 | 123.2 | 127.7 | 132.3 | 132.2 | 130.0 | 131.0 | 129.0 | 127.13 |
| 125.2 | 128.5 | 123.3 | 133.0 | 126.2 | 122.9 | 123.1 | 119.5 | 122.6 | 126.6 | 128.2 | 130.0 | 124.83 |
| 124.8 | 123.7 | 122.4 | 123.8 | 134.0 | 127.0 | 129.6 | 126.0 | 126.0 | 125.4 | 127.8 | 124.0 | 124.42 |
| 137.4 | 127.4 | 124.2 | 126.9 | 123.5 | 127.0 | — | — | — | — | — | — | 126.00 |
| — | — | — | — | — | — | 132.3 | 132.0 | 128.4 | 124.9 | 123.5 | 125.1 | 125.45 |
| 123.2 | 123.5 | 123.2 | 126.3 | 124.5 | 123.0 | 125.0 | 125.2 | 123.2 | 125.3 | 126.0 | 129.0 | 123.64 |
| 124.52 | 124.77 | 124.49 | 126.38 | 126.71 | 126.72 | 127.43 | 126.77 | 126.58 | 126.70 | 127.71 | 128.02 | 125.24 |
| 124.0 | 125.2 | 122.0 | 122.8 | 123.9 | 124.0 | 125.6 | 126.8 | 127.0 | 126.1 | 126.9 | 128.0 | 125.68 |
| 124.7 | 123.8 | 124.9 | 123.2 | 123.2 | 128.0 | 127.1 | 132.3 | 130.5 | 128.5 | 130.0 | 132.1 | 125.55 |
| 126.5 | 126.0 | 127.2 | 133.4 | 127.5 | 127.8 | 123.5 | 119.3 | 128.5 | 131.2 | 130.8 | 136.0 | 126.66 |
| 133.2 | 134.0 | 122.3 | 122.1 | 123.0 | 124.1 | 126.0 | 126.0 | 118.8 | 120.0 | 130.0 | 124.1 | 124.50 |
| 123.9 | 123.0 | 123.8 | 124.1 | 124.0 | 133.3 | — | — | — | — | — | — | 125.07 |
| — | — | — | — | — | — | 125.4 | 126.0 | 124.2 | 124.4 | 122.0 | 127.0 | 125.07 |
| 123.0 | 123.2 | 121.8 | 125.5 | 126.7 | 127.0 | 127.2 | 124.5 | 123.8 | 124.0 | 123.0 | 133.0 | 124.47 |
| 125.7 | 128.1 | 146.3 | 127.3 | 127.7 | 121.5 | 120.5 | 130.4 | 127.6 | 126.0 | 127.8 | 126.2 | 125.93 |
| 129.0 | 128.1 | 123.9 | 123.0 | 122.5 | 121.5 | 123.2 | 123.4 | 125.5 | 127.0 | 120.0 | 129.3 ^b | 124.57 |
| 124.8 | 123.5 | 122.0 | 123.2 | 122.5 | 123.0 | 124.1 | 124.0 | 127.0 | 127.0 | 121.1 | 131.0 | 124.08 |
| 126.8 | 125.5 | 123.3 | 125.3 | 125.0 | 125.2 | 124.0 | 126.0 | 127.6 | 125.4 | 128.7 | 121.0 | 124.85 |
| 125.0 | 125.7 | 132.1 | 126.0 | 124.4 | 125.0 | — | — | — | — | — | — | 125.68 |
| — | — | — | — | — | — | 124.5 | 124.0 | 127.0 | 126.2 | 126.9 | 129.0 | 125.68 |
| 124.2 | 124.4 | 123.0 | 123.8 | 123.8 | 124.7 | 125.0 | 128.1 | 126.0 | 121.2 | 128.7 | 129.3 | 124.09 |
| 123.9 | 124.7 | 126.2 | 131.4 | 124.0 | 125.0 | 124.2 | 125.2 | 125.7 | 124.0 | 126.3 | 127.2 | 125.84 |
| 122.8 | 124.0 | 123.2 | 124.5 | 126.1 | 124.9 | 124.7 | 120.2 | 126.0 | 127.0 | 127.0 | 125.1 | 124.05 |
| 125.5 | 125.4 | 124.8 | 124.0 | 124.3 | 123.8 | 128.1 | 127.0 | 125.5 | 126.2 | 126.5 | 127.0 | 124.37 |
| 126.0 | 126.0 | 124.5 | 123.8 | 123.0 | 125.2 | 126.0 | 125.0 | 124.8 | 125.9 | 126.3 | 130.0 | 124.95 |
| 125.0 | 125.0 | 128.5 | 124.8 | 124.0 | 124.4 | — | — | — | — | — | — | 124.92 |
| — | — | — | — | — | — | 125.0 | 124.8 | 125.2 | 124.5 | 127.0 | 132.0 | 125.18 |
| 124.3 | 123.0 | 123.0 | 124.0 | 125.4 | 125.0 | 125.5 | 127.2 | 129.3 | 132.3 | 137.5 | 130.0 | 125.68 |
| 123.0 | 124.1 | 129.2 | 130.6 | 127.0 | 128.4 | 125.4 | 125.0 | 129.1 | 122.6 | 126.1 | 126.0 | 123.80 |
| 124.9 | 131.1 | 128.9 | 130.6 | 130.8 | 129.9 | 124.1 | 122.7 | 123.2 | 121.1 | 119.8 | 129.4 | 126.22 |
| 123.3 | 125.0 | 124.2 | 123.8 | 123.0 | 127.6 | 125.0 | 124.8 | 125.6 | 127.7 | 127.0 | 128.9 | 125.07 |
| 125.2 | 123.9 | 124.0 | 130.2 | 135.0 | 122.0 | 123.4 | 118.7 | 117.4 | 126.2 | 127.0 | 127.3 | 123.46 |
| 134.1 | 128.2 | 126.8 | 126.9 | 124.2 | 124.0 | — | — | — | — | — | — | 124.51 |
| — | — | — | — | — | — | 123.5 | 122.8 | 124.0 | 124.2 | 125.5 | 127.0 | 124.51 |
| 124.5 | 123.8 | 127.6 | 125.4 | 127.8 | 122.2 | 124.0 | 124.0 | 124.7 | 125.2 | 126.9 | 128.3 | 125.22 |
| 123.8 | 123.0 | 123.1 | 123.5 | 123.9 | 125.1 | 124.0 | 125.8 | 125.0 | 126.8 ^c | 127.0 | 127.6 | 124.55 |
| 123.9 | 123.2 | 122.7 | 122.5 | 122.0 | 125.3 | 125.0 | 125.4 | 126.0 | 125.6 | 126.0 | 120.0 | 124.29 |
| 123.8 | 123.5 | 123.2 | 122.8 | 127.2 | 126.6 | 125.0 | 132.8 | 131.7 | 129.9 | 126.9 | 130.6 | 125.10 |
| 125.36 | 125.35 | 125.65 | 125.50 | 125.25 | 125.35 | 124.78 | 125.27 | 125.80 | 125.79 | 126.62 | 128.24 | 124.96 |

^b Eight minutes late.

^c Two minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|-------------------|----------------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| SEPTEMBER. | 1 | Sc. Div. 133.0 | Sc. Div. 133.1 | Sc. Div. 132.1 | Sc. Div. 130.9 | Sc. Div. 119.7 | Sc. Div. 115.9 | Sc. Div. 105.0 | Sc. Div. 116.6 | Sc. Div. 119.8 | Sc. Div. 115.0 | Sc. Div. 120.2 | Sc. Div. 123.8 |
| | 2 | 132.0 | 137.0 | 129.3 | 126.0 | 121.0 | 117.6 | 116.2 | 117.3 | 119.1 | 122.1 | 128.5 | 124.7 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 130.0 | 131.0 | 129.0 | 130.0 | 124.2 | 121.7 | 118.1 | 118.5 | 118.8 | 121.8 | 121.5 | 122.2 |
| | 5 | 128.0 | 128.0 | 130.0 | 126.6 | 118.4 | 116.0 | 112.8 | 115.1 | 118.4 | 121.3 | 128.0 | 125.3 |
| | 6 | 132.0 | 135.1 | 133.0 | 128.2 | 123.7 | 119.2 | 116.1 | 115.0 | 116.2 | 119.9 | 122.5 | 124.0 |
| | 7 | 129.3 | 131.2 | 131.2 | 127.4 | 123.2 | 118.3 | 116.7 | 114.3 | 116.2 | 120.6 | 122.6 | 125.2 |
| | 8 | 129.0 | 125.0 | 124.8 | 126.1 | 122.0 | 117.2 | 115.1 | 117.1 | 120.2 | 122.1 | 124.2 | 125.1 |
| | 9 | 134.0 | 136.8 | 132.8 | 129.4 | 121.9 | 116.8 | 110.6 | 113.1 | 116.0 | 116.0 | 120.0 | 121.8 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 125.0 | 134.0 | 132.0 | 128.2 | 125.0 | 119.0 | 117.3 | 118.8 | 120.4 | 122.8 | 125.2 | 123.9 |
| | 12 | 131.6 | 133.0 | 131.3 | 129.7 | 125.6 | 120.0 | 118.7 | 118.2 | 119.9 | 120.5 | 122.9 | 122.4 |
| | 13 | 132.0 | 133.0 | 132.4 | 131.3 | 124.7 ^a | 118.1 | 114.0 | 115.0 | 118.2 | 121.2 | 123.9 | 123.9 |
| | 14 | 128.5 | 131.9 | 130.0 | 128.0 | 120.8 ^b | 116.3 ^b | 113.9 | 114.6 | 115.8 | 118.8 | 121.3 | 124.2 |
| | 15 | 126.4 | 129.5 | 128.8 | 125.8 | 118.5 | 117.9 | 116.0 | 117.8 | 119.8 | 122.2 | 123.7 | 123.2 |
| | 16 | 130.5 | 132.0 | 130.9 | 125.2 | 121.4 | 118.1 | 116.0 | 116.4 | 119.2 | 123.2 | 125.6 | 125.3 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 131.0 | 131.0 | 134.5 | 126.4 | 123.2 | 122.6 | 118.2 | 114.1 | 115.8 | 117.0 | 116.7 | 122.2 |
| | 19 | 127.0 | 129.4 | 128.8 | 129.0 | 125.1 | 120.7 | 119.2 | 118.2 | 116.0 | 115.0 | 117.8 | 126.7 |
| | 20 | 129.0 | 132.1 | 131.8 | 128.6 | 124.1 | 122.1 | 120.9 | 117.2 | 117.9 | 118.7 | 117.9 | 123.8 |
| | 21 | 129.2 | 133.8 | 132.0 | 130.3 | 126.3 | 121.4 | 114.6 | 114.6 | 116.9 | 119.0 | 122.0 | 120.8 |
| | 22 | 134.0 | 131.8 | 132.0 | 120.7 | 119.0 | 118.9 | 115.1 | 115.8 | 118.3 | 120.8 | 122.0 | 124.1 |
| | 23 | 129.0 | 122.5 | 126.0 | 126.2 | 120.7 | 117.5 | 116.0 | 115.1 | 117.9 | 121.0 | 123.9 | 126.9 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 128.0 | 132.0 | 132.2 | 129.0 | 122.0 | 118.3 | 115.0 | 112.7 | 115.0 | 118.2 | 121.5 | 123.0 |
| | 26 | 127.9 | 133.6 | 134.1 | 131.0 | 126.0 | 121.8 | 116.0 | 116.5 | 117.8 ^d | 118.6 | 120.8 | 122.8 |
| | 27 | 129.0 | 131.0 | 132.2 | 131.8 | 128.0 | 123.0 | 120.0 | 119.8 | 120.2 | 120.5 | 122.0 | 122.0 |
| | 28 | 119.9 | 129.8 | 127.1 | 124.0 | 128.0 | 124.0 | 122.0 | 122.0 | 122.0 | 122.5 | 123.6 | 124.5 |
| | 29 | 127.2 | 130.4 | 132.0 | 131.0 | 129.2 | 126.0 | 122.2 | 118.1 | 117.2 | 118.8 | 119.8 | 122.1 |
| | 30 | 122.2 | 128.0 | 127.6 | 121.9 | 126.2 | 125.7 | 117.4 | 116.6 | 116.9 | 118.5 | 120.6 | 121.2 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 129.03 | 131.38 | 130.69 | 127.80 | 123.38 | 119.77 | 116.27 | 116.48 | 118.07 | 119.85 | 122.37 | 123.63 | |
| OCTOBER. | 2 | 125.6 | 127.2 | 126.8 | 125.2 | 124.4 | 123.1 | 122.0 | 120.2 | 121.4 | 122.4 | 123.3 | 124.2 |
| | 3 | 124.6 | 131.0 | 131.0 | 128.1 | 125.1 | 123.4 | 122.1 | 122.0 | 122.2 | 123.3 | 123.9 | 124.5 |
| | 4 | 127.2 | 128.7 | 130.0 | 126.8 | 125.9 | 123.7 | 121.2 | 123.0 | 122.9 | 123.2 | 124.6 | 125.2 |
| | 5 | 128.0 | 131.8 | 129.2 | 128.6 | 123.8 | 118.9 | 114.0 | 116.0 | 116.1 | 119.5 | 122.2 | 124.7 |
| | 6 | 127.6 | 127.8 | 129.7 | 129.5 | 125.0 | 120.5 | 115.5 | 116.1 | 118.9 | 121.5 | 123.5 | 126.2 |
| | 7 | 126.0 | 128.4 | 132.0 | 131.0 | 125.0 | 120.7 | 117.0 | 117.5 | 119.1 | 121.5 | 124.0 | 124.8 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 128.0 | 130.6 | 132.6 | 133.0 | 130.9 | 126.0 | 119.9 | 118.3 | 118.1 | 120.3 | 123.0 | 124.2 |
| | 10 | 130.0 | 133.1 | 132.0 | 130.5 | 126.1 | 122.0 | 118.9 | 118.6 | 117.8 | 118.5 | 119.2 | 120.1 |
| | 11 | 126.5 | 129.0 | 130.4 | 131.0 | 128.4 | 122.8 | 120.8 | 119.3 | 118.9 | 118.9 | 121.0 | 123.0 |
| | 12 | 125.1 | 126.0 | 126.0 | 131.0 | 128.0 | 124.8 | 121.1 | 119.1 | 117.9 | 117.9 | 120.3 | 121.2 |
| | 13 | 123.0 | 128.4 | 129.0 | 128.0 | 125.0 | 124.8 | 120.2 | 120.0 | 119.0 | 119.5 | 122.5 | 124.1 |
| | 14 | 129.1 | 129.9 | 131.1 | 131.8 | 128.0 | 126.1 | 122.6 | 119.1 | 117.2 | 119.0 | 119.7 | 118.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 110.0 | 128.5 | 130.1 | 130.4 | 128.2 | 125.9 | 123.5 | 120.6 | 122.0 | 117.6 | 116.2 | 124.4 |
| | 17 | 127.7 | 126.0 | 113.5 | 124.5 | 121.0 | 119.3 | 120.1 | 125.1 | 122.7 | 123.0 | 124.2 | 124.0 |
| | 18 | 128.0 | 128.0 | 128.3 | 127.2 | 126.9 | 126.2 | 123.2 | 121.5 | 120.5 | 123.0 | 124.2 | 124.3 |
| | 19 | 126.7 | 128.1 | 129.8 | 128.7 | 126.1 | 124.1 | 123.9 | 122.8 | 122.5 | 122.8 | 124.0 | 124.5 |
| | 20 | 128.4 | 128.9 | 129.2 | 128.9 | 127.4 | 125.4 | 123.3 | 120.9 | 120.8 | 121.5 | 123.4 | 124.0 |
| | 21 | 126.0 | 127.0 | 128.0 | 127.0 | 126.1 | 123.9 | 121.6 | 121.2 | 121.9 | 123.1 | 124.2 | 124.5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 127.5 | 128.8 | 129.0 | 128.2 | 126.3 | 123.0 | 120.5 | 120.7 | 122.4 | 125.0 ^e | 126.0 | 125.3 |
| | 24 | 128.4 | 126.9 | 126.9 | 126.0 | 124.5 | 122.1 | 121.5 | 121.1 | 121.9 | 123.5 | 124.1 | 124.5 |
| | 25 | 129.3 | 131.1 | 130.9 | 129.5 | 124.0 | 119.6 | 119.6 | 119.5 | 121.2 | 122.4 | 124.0 | 125.0 |
| | 26 | 115.2 | 125.1 | 128.8 | 135.0 | 124.1 | 122.8 | 119.2 | 114.9 | 119.0 | 122.9 | 116.2 | 123.4 |
| | 27 | 125.8 | 119.1 | 128.5 | 132.0 | 127.3 | 122.1 ^f | 120.0 | 119.9 | 121.2 | 122.0 | 123.5 | 124.7 |
| | 28 | 124.9 | 127.1 | 130.0 | 130.8 | 130.3 | 125.2 | 124.0 | 119.9 | 120.0 | 121.8 | 123.6 | 123.9 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 126.2 | 128.0 | 128.0 | 126.7 | 127.1 | 121.0 | 121.0 ^g | 121.2 | 119.8 | 117.9 | 121.0 | 124.0 |
| | 31 | 124.2 | 127.1 | 129.1 | 130.2 | 127.2 | 125.0 | 122.0 | 122.8 | 122.2 | 123.4 | 124.2 | 124.5 |
| | Hourly Means | 125.73 | 128.14 | 128.84 | 129.22 | 126.70 | 123.17 | 120.75 | 120.05 | 120.29 | 121.36 | 122.54 | 123.89 |

^a Three minutes late.

^b Five minutes late.

^c Seven minutes late.

^d Twelve minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 125.4 | Sc. Div. 124.0 | Sc. Div. 127.2 | Sc. Div. 133.0 | Sc. Div. 129.2 | Sc. Div. 128.5 | Sc. Div. 128.8 | Sc. Div. 125.5 | Sc. Div. 124.8 | Sc. Div. 123.5 | Sc. Div. 123.0 | Sc. Div. 112.7 | Sc. Div. 123.78 |
| 120.8 | 122.4 | 125.8 | 125.0 | 123.2 | 124.0 | — | — | — | — | — | — | 124.78 |
| — | — | — | — | — | — | 124.8 | 125.7 | 126.0 | 126.4 | 127.0 | 127.1 | 124.54 |
| 120.5 | 122.7 | 127.1 | 129.8 | 125.9 | 127.0 | 133.0 | 135.2 | 130.5 | 125.6 | 122.5 | 123.2 | 125.41 |
| 126.2 | 125.0 | 129.9 | 133.7 | 130.3 | 128.8 | 126.0 | 139.7 | 127.5 | 134.0 | 137.5 | 135.0 | 126.73 |
| 124.2 | 123.8 | 124.8 | 133.9 | 128.7 | 127.1 | 125.6 | 124.2 | 120.0 | 123.5 | 126.8 | 127.0 | 124.77 |
| 125.1 | 124.8 | 125.4 | 124.6 | 124.2 | 125.2 | 126.0 | 128.2 | 124.8 | 123.0 | 126.5 | 128.1 | 124.25 |
| 126.1 | 126.0 | 125.4 | 126.4 | 122.2 | 119.2 | 125.0 | 132.8 | 126.7 | 125.5 | 125.8 | 132.0 | 124.21 |
| 123.9 | 124.0 | 124.0 | 124.2 | 124.8 | 124.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 135.0 | 133.2 | 130.4 | 132.0 | 120.8 | 131.0 | 124.88 |
| 123.9 | 123.9 | 124.2 | 123.8 | 124.0 | 124.6 | 132.1 | 121.2 | 125.3 | 125.0 | 122.2 | 126.0 | 124.49 |
| 125.2 | 124.8 | 126.5 | 125.2 | 127.3 | 139.2 | 126.3 | 128.0 | 125.0 | 127.0 | 126.8 | 120.0 | 125.63 |
| 123.6 | 124.3 | 123.9 | 124.0 | 125.8 | 123.8 | 123.4 | 123.8 | 124.0 | 124.5 | 125.0 | 125.0 | 124.12 |
| 124.2 | 123.0 | 123.2 | 128.2 | 127.0 | 125.0 | 122.8 | 123.3 | 123.0 | 124.0 | 124.2 | 125.0 | 123.21 |
| 122.8 | 126.8 | 123.6 | 123.7 | 123.2 | 124.0 | 123.2 | 126.0 | 125.8 | 125.7 | 128.0 | 127.8 | 123.76 |
| 123.0 | 122.4 | 123.1 | 123.2 | 119.4 | 119.6 | — | — | — | — | — | — | 124.72 |
| — | — | — | — | — | — | 126.4 | 126.6 | 129.2 | 131.0 | 136.6 | 129.0 | — |
| 120.0 | 126.1 | 118.5 | 127.0 | 122.7 | 125.0 | 128.0 | 131.2 | 127.0 | 129.8 | 120.3 | 124.0 | 123.85 |
| 121.5 | 122.2 | 124.0 | 123.9 | 123.8 | 125.2 | 124.0 ^e | 122.2 | 120.0 | 117.5 | 125.2 | 124.6 | 122.76 |
| 123.4 | 122.6 | 121.2 | 134.6 | 123.7 | 123.5 | 116.7 | 130.2 | 125.0 | 124.4 | 131.0 | 116.5 | 124.04 |
| 124.5 | 128.0 | 127.2 | 124.0 | 134.7 | 124.0 | 136.0 | 129.5 | 125.5 | 121.8 | 128.7 | 132.9 | 125.74 |
| 133.4 | 123.6 | 124.6 | 125.0 | 126.0 | 124.5 | 126.2 | 124.5 | 127.2 | 125.4 | 126.0 | 126.0 | 124.37 |
| 125.0 | 124.1 | 123.5 | 125.0 | 124.2 | 123.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 122.3 | 122.4 | 126.8 | 126.8 | 124.9 | 125.6 | 123.18 |
| 123.0 | 123.2 | 125.4 | 125.5 | 123.9 | 125.9 | 126.0 | 125.5 | 125.0 | 126.2 | 126.5 | 127.0 | 123.75 |
| 124.0 | 124.0 | 126.5 | 129.5 | 127.1 | 125.0 | 124.0 | 123.9 | 124.7 | 125.0 | 125.0 | 126.0 | 124.65 |
| 123.0 | 122.4 | 130.3 | 127.6 | 134.0 | 128.2 | 128.8 | 122.5 | 130.3 | 130.5 | 124.0 | 128.0 | 126.21 |
| 124.4 | 127.0 | 126.9 | 132.4 | 126.1 | 125.7 | 125.2 | 126.0 | 125.2 | 124.9 | 125.7 | 126.0 | 125.20 |
| 124.0 | 123.2 | 133.2 | 127.5 | 130.0 | 128.0 | 125.0 | 121.0 | 125.4 | 128.7 | 127.8 | 126.4 | 125.59 |
| 125.5 | 125.0 | 126.6 | 133.0 | 127.1 | 120.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 125.4 | 127.0 | 130.5 | 126.4 | 127.2 | 127.4 | 124.35 |
| 124.22 | 124.20 | 125.46 | 127.45 | 126.10 | 125.12 | 126.38 | 126.90 | 125.98 | 126.08 | 126.35 | 126.13 | 124.55 |
| 127.2 | 125.8 | 123.5 | 124.2 | 125.0 | 124.8 | 126.0 | 132.8 | 138.6 | 138.8 | 129.8 | 116.1 | 125.77 |
| 125.9 | 125.0 | 123.8 | 123.5 | 123.0 | 127.8 | 123.2 | 125.0 | 127.1 | 127.0 | 127.0 | 130.3 | 125.41 |
| 124.5 | 125.7 | 124.5 | 139.5 | 125.2 | 125.7 | 130.2 | 128.4 | 127.2 | 130.5 | 130.8 | 128.0 | 126.78 |
| 125.5 | 126.0 | 129.1 | 133.6 | 127.2 | 127.5 | 126.0 | 124.2 | 125.0 | 124.2 | 124.8 | 125.4 | 124.64 |
| 124.0 | 126.5 | 124.4 | 126.0 | 124.0 | 123.8 | 121.4 | 126.0 | 125.5 | 125.5 | 125.0 | 126.1 | 124.17 |
| 124.1 | 124.1 | 124.0 | 124.0 | 124.2 | 124.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 125.6 | 127.9 | 126.2 | 120.4 | 126.1 | 127.4 | 124.41 |
| 124.5 | 124.2 | 124.2 | 124.0 | 124.6 | 124.9 | 124.4 | 124.4 | 127.2 | 124.8 | 127.8 | 128.0 | 125.33 |
| 122.6 | 125.1 | 125.2 | 125.0 | 126.2 | 126.1 | 124.3 | 124.0 | 125.5 | 125.2 | 125.0 | 126.1 | 124.88 |
| 124.0 | 124.3 | 124.8 | 124.4 | 124.7 | 126.5 | 125.5 | 125.8 | 125.0 | 124.8 | 125.2 | 125.0 | 124.58 |
| 124.0 | 124.2 | 125.3 | 134.2 | 125.8 | 126.1 | 127.6 | 131.2 | 126.6 | 127.0 | 126.2 | 120.0 | 124.86 |
| 124.1 | 123.2 | 124.0 | 124.0 | 128.1 | 126.0 | 126.6 | 126.0 | 126.2 | 124.0 | 120.5 | 128.3 | 124.35 |
| 127.5 | 126.0 | 128.2 | 127.4 | 127.0 | 125.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 123.8 | 125.5 | 126.2 | 127.0 | 131.5 | 123.0 | 125.42 |
| 122.6 | 123.0 | 127.0 | 126.0 | 126.0 | 127.8 | 127.0 | 125.4 | 125.0 | 127.2 | 130.5 | 129.0 | 124.75 |
| 125.8 | 130.7 | 127.0 | 126.5 | 126.0 | 125.8 | 120.7 | 127.8 | 118.3 | 123.8 | 126.3 | 127.0 | 124.03 |
| 125.1 | 124.3 | 126.5 | 132.4 | 139.3 | 129.2 | 127.0 | 123.7 | 125.0 | 125.5 | 125.2 | 126.1 | 126.28 |
| 124.2 | 125.1 | 124.5 | 125.7 | 125.2 | 116.6 | 122.3 | 125.4 | 127.0 | 129.2 | 129.4 | 127.0 | 125.23 |
| 123.3 | 124.0 | 124.9 | 127.9 | 126.0 | 125.2 | 124.0 | 124.2 | 124.9 | 125.0 | 125.6 | 125.7 | 125.12 |
| 124.8 | 125.2 | 126.2 | 124.7 | 124.5 | 124.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 124.2 | 127.0 | 126.4 | 126.5 | 127.0 | 127.0 | 125.11 |
| 124.8 | 124.8 | 125.5 | 125.0 | 126.2 | 125.3 | 125.5 | 125.0 | 125.8 | 126.0 | 126.9 | 127.2 | 125.47 |
| 124.0 | 124.6 | 125.5 | 127.5 | 126.1 | 128.0 | 125.7 | 126.6 | 128.1 | 127.9 | 130.5 | 129.0 | 125.62 |
| 124.9 | 125.1 | 126.0 | 126.0 | 125.8 | 125.0 | 126.0 | 127.0 | 126.2 | 125.4 | 125.2 | 129.4 | 125.34 |
| 125.5 | 130.8 | 133.5 | 130.2 | 128.5 | 127.8 | 128.7 | 119.5 | 120.3 | 123.5 | 122.6 | 126.0 | 124.31 |
| 125.0 | 125.0 | 126.2 | 125.5 | 125.2 | 126.1 | 123.0 | 125.0 | 125.0 | 123.0 | 125.6 | 125.2 | 124.41 |
| 124.2 | 125.4 | 125.0 | 125.4 | 126.0 | 125.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 124.8 | 124.7 | 125.5 | 124.6 | 120.7 | 128.2 | 125.08 |
| 124.0 | 126.4 | 127.6 | 126.1 | 126.2 | 132.0 | 125.4 | 124.8 | 124.8 | 126.1 | 126.0 | 122.2 | 124.77 |
| 124.8 | 126.9 | 138.2 | 128.0 | 129.8 | 130.9 | 127.1 | 128.0 | 127.0 | 125.2 | 127.0 | 128.0 | 126.78 |
| 124.65 | 125.44 | 126.33 | 127.18 | 126.38 | 126.15 | 125.23 | 125.97 | 125.98 | 126.08 | 126.47 | 126.18 | 125.09 |

^e Nine minutes late.

^f Two minutes late.

^g Four minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|-------|
| Angular Value of One Scale Division of the Declinometer = 0' · 721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| NOVEMBER. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | S. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| | 1 | 129·0 | 128·6 | 127·5 | 129·8 | 131·0 | 128·3 | 124·8 | 122·3 | 122·5 | 123·6 | 124·8 | 125·4 |
| | 2 | 128·0 | 129·8 | 129·9 | 130·0 | 130·1 | 124·5 | 123·0 | 122·1 | 122·1 | 123·1 | 123·9 | 121·1 |
| | 3 | 122·2 | 128·1 | 127·8 | 128·0 | 128·0 | 126·4 | 124·1 | 122·8 | 122·8 | 124·0 | 125·2 | 126·0 |
| | 4 | 124·4 | 127·0 | 129·0 | 127·4 | 127·2 | 125·1 | 124·0 | 123·5 | 122·5 | 122·8 | 123·4 | 124·9 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 130·4 | 132·2 | 129·6 | 127·4 | 125·8 | 121·9 | 121·8 | 121·0 | 120·2 | 123·4 | 124·8 | 125·2 |
| | 7 | 128·0 | 127·0 | 130·3 | 129·0 | 124·1 | 117·7 | 118·6 | 116·3 | 119·4 | 123·1 | 124·8 | 126·2 |
| | 8 | 127·0 | 127·8 | 130·4 | 129·0 | 126·1 | 121·3 | 122·1 | 121·4 | 122·9 ^a | 123·4 | 122·5 | 126·0 |
| | 9 | 131·6 | 131·5 | 130·2 | 129·4 | 128·0 | 123·4 | 124·5 | 121·4 | 122·2 | 124·0 | 125·4 | 125·8 |
| | 10 | 129·0 | 128·9 | 130·9 | 130·0 | 126·8 | 123·6 | 122·2 | 121·0 | 122·1 | 123·2 | 124·2 | 125·4 |
| | 11 | 126·9 | 129·0 | 129·9 | 129·0 | 126·2 | 122·2 ^b | 121·8 | 120·3 | 121·9 | 122·7 | 124·5 | 124·8 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 129·7 | 130·2 | 131·4 | 132·8 | 119·8 | 117·0 | 115·8 | 117·2 | 118·2 ^a | 118·7 | 123·8 | 124·8 |
| | 14 | 126·6 | 128·5 | 129·1 | 127·5 | 128·9 | 124·0 | 123·5 | 121·9 | 121·7 | 123·3 | 122·5 | 119·4 |
| | 15 | 125·9 | 128·5 | 129·8 | 129·7 | 127·5 | 125·0 | 122·6 | 121·8 | 122·4 | 122·0 | 126·5 | 126·1 |
| | 16 | 126·9 | 126·5 | 129·2 | 129·0 | 127·8 | 125·3 | 122·0 | 121·1 | 123·4 | 121·4 | 123·0 | 123·6 |
| | 17 | 126·7 | 127·2 | 128·0 | 128·6 | 126·0 | 123·5 | 123·4 | 123·9 | 125·8 ^a | 125·5 | 124·9 | 125·1 |
| | 18 | 128·0 | 129·0 | 129·1 | 127·0 | 124·3 | 123·5 | 119·5 | 118·8 | 125·0 | 122·7 | 124·2 | 125·0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 126·7 | 127·8 | 128·5 | 128·6 | 126·2 | 124·0 | 122·2 | 122·0 | 123·2 ^a | 124·5 | 125·1 | 125·8 |
| | 21 | 129·0 | 129·0 | 128·9 | 128·5 | 124·2 ^c | 121·0 | 119·0 | 119·0 | 120·8 | 123·5 | 124·0 | 125·5 |
| | 22 | 128·2 | 128·0 | 125·9 | 126·3 | 123·9 | 120·7 | 120·7 | 122·3 | 124·2 | 125·4 | 125·8 | 126·5 |
| | 23 | 128·0 | 129·7 | 129·0 | 127·1 | 124·0 | 120·0 | 120·0 | 120·5 | 122·5 ^d | 125·5 | 125·8 | 126·1 |
| | 24 | 129·2 | 123·5 | 126·7 | 126·8 | 122·9 | 120·0 | 118·3 | 120·2 | 120·6 | 123·0 | 124·6 | 126·3 |
| | 25 | 128·0 | 128·2 | 128·9 | 128·2 | 126·0 | 123·9 | 121·4 | 121·7 | 123·2 | 124·9 | 125·5 | 126·0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 128·0 | 128·1 | 130·3 | 131·6 | 131·0 | 128·3 | 125·8 | 122·8 | 122·2 | 122·8 | 125·0 | 126·0 |
| | 28 | 128·0 | 128·0 | 129·1 | 129·8 | 129·1 | 127·6 | 123·4 | 119·9 | 118·8 | 121·9 | 123·8 | 125·2 |
| | 29 | 128·5 | 127·8 | 127·4 | 128·7 | 126·0 | 123·9 | 125·0 | 123·8 | 123·9 | 124·8 | 125·4 | 126·0 |
| 30 | 128·0 | 126·1 | 128·1 | 127·6 | 128·1 | 127·2 | 125·0 | 124·1 | 122·5 | 122·8 | 124·5 | 126·8 | |
| Hourly Means | 127·77 | 128·31 | 129·03 | 128·72 | 126·50 | 123·43 | 122·10 | 121·27 | 122·19 | 123·31 | 124·53 | 125·18 | |
| DECEMBER. | 1 | 129·0 | 129·9 | 129·1 | 129·7 | 126·5 | 123·9 | 120·0 | 119·8 | 121·7 | 122·8 | 123·8 | 125·0 |
| | 2 | 136·2 | 130·3 | 123·7 | 115·9 | 121·5 | 126·5 | 125·0 | 124·4 | 124·8 | 125·3 | 126·8 | 126·2 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 128·0 | 128·0 | 128·1 | 127·0 | 127·0 | 125·1 | 121·5 | 121·5 | 122·1 | 123·6 | 124·0 | 126·3 |
| | 5 | 127·8 | 128·4 | 129·1 | 130·0 | 127·3 | 125·6 | 124·5 | 122·1 | 121·0 | 122·1 | 124·0 | 125·0 |
| | 6 | 128·7 | 127·0 | 127·3 | 128·5 | 126·9 | 124·6 | 123·5 | 121·3 | 122·0 | 124·8 | 126·0 | 128·8 |
| | 7 | 127·0 | 127·3 | 128·4 | 129·0 | 127·6 | 126·0 | 124·0 | 123·9 | 124·8 | 125·8 | 126·1 | 126·9 |
| | 8 | 128·0 | 128·7 | 128·7 | 130·4 | 125·8 | 121·4 | 123·3 | 119·7 | 117·2 | 122·2 | 126·7 | 127·0 |
| | 9 | 127·0 | 127·6 | 127·7 | 125·5 | 127·1 | 125·9 | 123·7 | 119·8 | 120·2 | 126·2 | 122·1 | 124·5 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 128·0 | 126·9 | 128·7 | 128·9 | 129·1 | 125·8 | 122·0 | 121·2 | 117·6 | 121·9 | 121·7 | 125·0 |
| | 12 | 128·6 | 127·0 | 124·0 | 124·9 | 128·9 | 124·5 | 123·4 | 124·8 | 123·3 | 127·1 | 126·9 | 141·0 |
| | 13 | 127·0 | 127·5 | 128·3 | 128·5 | 127·5 | 125·5 | 124·5 | 121·8 | 119·9 | 121·2 | 124·1 | 131·7 |
| | 14 | 126·2 | 126·5 | 128·0 | 128·6 | 129·2 | 127·5 ^e | 126·2 | 124·0 | 122·9 | 122·6 | 124·0 | 125·2 |
| | 15 | 127·0 | 127·4 | 128·0 | 128·0 | 126·9 | 126·0 ^e | 125·1 | 123·8 | 122·8 | 123·5 | 124·6 | 125·5 |
| | 16 | 127·1 | 127·0 | 127·0 | 128·9 | 129·0 | 127·2 | 126·0 | 124·7 | 123·6 | 123·9 | 124·1 | 125·3 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 126·0 | 127·0 | 127·0 | 127·5 | 128·0 | 125·3 | 123·0 | 122·4 | 122·8 | 122·5 | 124·4 | 126·8 |
| | 19 | 126·9 | 126·9 | 127·8 | 127·6 | 126·0 | 125·1 | 124·2 | 124·8 | 124·1 | 124·2 | 124·9 | 126·2 |
| | 20 | 128·5 | 129·2 | 126·9 | 127·6 | 126·3 | 124·5 | 124·2 | 124·0 | 125·1 | 125·2 | 125·5 | 125·8 |
| | 21 | 126·8 | 127·6 | 127·9 | 128·1 | 128·1 | 125·5 | 123·9 | 122·8 | 123·9 | 125·2 | 125·6 | 126·0 |
| | 22 | 127·6 | 128·0 | 128·6 | 128·8 | 127·1 | 124·8 | 123·3 | 121·8 | 123·1 | 125·5 | 126·9 | 127·3 |
| | 23 | 127·4 | 128·6 | 128·8 | 129·4 | 129·0 | 126·5 | 122·5 | 119·8 | 120·0 | 122·8 | 124·9 | 126·2 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 ^f | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 127·0 | 128·1 | 129·7 | 131·2 | 129·5 | 127·3 | 124·9 | 122·4 | 122·0 | 123·2 | 124·7 | 125·6 |
| | 27 | 127·0 | 128·2 | 130·0 | 131·8 | 131·3 | 126·2 | 119·0 | 113·3 | 117·2 | 120·6 | 123·2 | 124·9 |
| | 28 | 127·6 | 125·0 | 121·1 | 122·1 | 128·0 | 128·3 | 122·0 | 121·8 | 122·1 | 122·8 | 123·7 | 124·0 |
| | 29 | 126·9 | 126·1 | 128·0 | 129·6 | 130·0 | 128·0 | 125·8 | 124·1 | 124·0 | 122·3 | 123·0 | 124·9 |
| | 30 | 126·2 | 128·0 | 128·5 | 130·8 | 128·4 | 126·8 | 124·9 | 122·0 | 122·8 | 122·2 | 123·3 | 125·1 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 127·74 | 127·69 | 127·62 | 127·93 | 127·68 | 125·75 | 123·62 | 122·08 | 122·04 | 123·58 | 124·60 | 126·65 | |

^a Four minutes late.

^b Seven minutes late.

^c Ten minutes late.

^d Three minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 125.8 | 127.5 | 126.1 | 129.1 | 128.4 | 128.0 | 126.4 | 126.0 | 126.8 | 126.1 | 128.2 | 128.8 | 126.87 |
| 130.0 | 131.0 | 127.6 | 126.8 | 129.9 | 136.9 | 128.4 | 128.2 | 133.8 | 124.3 | 127.8 | 124.7 | 127.37 |
| 126.5 | 127.0 | 126.4 | 126.1 | 127.5 | 127.3 | 126.1 | 126.2 | 126.2 | 127.0 | 127.4 | 127.7 | 126.12 |
| 125.9 | 126.1 | 126.1 | 126.0 | 126.6 | 125.8 | — | — | — | — | — | — | 125.81 |
| — | — | — | — | — | — | 125.0 | 125.6 | 125.6 | 126.8 | 128.1 | 130.6 | 125.64 |
| 125.5 | 126.3 | 126.0 | 125.8 | 125.8 | 126.4 | 127.0 | 124.5 | 125.0 | 125.8 | 126.5 | 127.0 | 125.04 |
| 127.3 | 127.1 | 128.0 | 126.2 | 125.8 | 126.0 | 125.5 | 125.6 | 125.7 | 125.7 | 126.2 | 127.3 | 126.86 |
| 128.0 | 131.0 | 127.6 | 149.5 | 129.3 | 128.1 | 121.8 | 121.9 | 124.8 | 128.2 | 128.4 | 126.2 | 126.45 |
| 126.3 | 126.7 | 126.8 | 127.0 | 130.8 | 126.9 | 125.8 | 125.7 | 124.8 | 125.0 | 124.5 | 127.0 | 125.84 |
| 126.1 | 126.0 | 125.9 | 126.7 | 125.4 | 126.0 | 126.0 | 126.2 | 125.3 | 123.3 | 127.0 | 129.0 | 125.38 |
| 124.5 | 126.2 | 127.2 | 127.0 | 127.0 | 126.6 | — | — | — | — | — | — | 125.96 |
| — | — | — | — | — | — | 123.8 | 124.0 | 125.8 | 126.2 | 124.0 | 127.6 | 125.68 |
| 126.8 | 127.3 | 137.6 | 134.2 | 128.8 | 126.7 | 125.6 | 125.6 | 124.4 | 125.9 | 128.0 | 126.0 | 125.75 |
| 125.5 | 127.0 | 128.2 | 127.9 | 127.4 | 127.8 | 127.0 | 125.3 | 123.0 | 129.9 | 127.0 | 125.0 | 126.30 |
| 125.4 | 127.8 | 133.1 | 128.1 | 125.8 | 126.2 | 127.4 | 126.8 | 125.2 | 126.0 | 126.5 | 125.1 | 126.42 |
| 128.8 | 127.1 | 126.0 | 125.8 | 126.2 | 132.4 | 130.2 | 130.8 | 126.0 | 127.5 | 127.1 | 127.0 | 126.30 |
| 126.4 | 127.8 | 127.2 | 134.7 | 124.1 | 123.9 | 124.7 | 125.9 | 126.0 | 126.0 | 128.0 | 128.0 | 125.40 |
| 126.9 | 126.7 | 126.6 | 126.1 | 127.0 | 126.0 | — | — | — | — | — | — | 125.87 |
| — | — | — | — | — | — | 126.0 | 125.5 | 125.6 | 125.0 | 126.2 | 126.0 | 125.15 |
| 126.0 | 126.6 | 126.5 | 126.9 | 126.2 | 126.8 | 129.0 | 128.5 | 123.4 | 120.7 | 127.2 | 128.5 | 125.73 |
| 126.0 | 126.1 | 126.0 | 126.2 | 126.2 | 126.1 | 124.2 | 125.6 | 125.4 | 124.8 | 126.5 | 128.2 | 125.90 |
| 126.8 | 127.0 | 127.0 | 127.8 | 127.5 | 127.2 | 126.5 | 123.4 | 125.7 | 125.8 | 127.9 | 127.0 | 125.11 |
| 127.4 | 127.6 | 127.4 | 127.5 | 127.2 | 127.0 | 126.2 | 125.9 | 126.1 | 126.2 | 126.9 | 128.0 | 126.21 |
| 126.6 | 128.7 | 127.7 | 130.0 | 127.3 | 126.0 | 123.7 | 125.2 | 125.0 | 126.4 | 126.2 | 127.8 | 126.75 |
| 125.8 | 127.5 | 127.3 | 127.2 | 127.0 | 129.2 | — | — | — | — | — | — | 126.33 |
| — | — | — | — | — | — | 126.8 | 126.9 | 126.1 | 125.6 | 126.4 | 127.4 | 126.62 |
| 126.8 | 127.0 | 127.1 | 127.0 | 126.7 | 127.4 | 127.0 | 125.2 | 126.0 | 125.7 | 126.8 | 127.5 | 126.49 |
| 127.2 | 128.3 | 127.8 | 128.0 | 127.0 | 125.8 | 126.4 | 126.6 | 126.0 | 127.9 | 128.2 | 128.2 | 126.05 |
| 126.5 | 129.2 | 128.8 | 126.8 | 127.5 | 133.0 | 126.1 | 124.4 | 126.4 | 125.8 | 125.8 | 127.4 | 126.04 |
| 127.5 | 127.7 | 127.4 | 127.0 | 128.6 | 130.1 | 124.9 | 125.2 | 127.4 | 127.5 | 126.8 | 124.9 | 126.05 |
| 126.63 | 127.47 | 127.67 | 128.52 | 127.19 | 127.68 | 126.06 | 125.80 | 125.83 | 125.97 | 126.91 | 127.23 | 126.05 |
| 126.8 | 127.2 | 127.5 | 127.7 | 127.2 | 126.8 | 128.8 | 128.4 | 130.1 | 129.8 | 131.4 | 131.1 | 126.88 |
| 127.1 | 126.0 | 127.1 | 126.9 | 127.7 | 127.6 | — | — | — | — | — | — | 126.29 |
| — | — | — | — | — | — | 125.9 | 126.3 | 125.3 | 128.6 | 128.8 | 127.0 | 125.97 |
| 127.7 | 127.3 | 127.8 | 128.2 | 127.5 | 127.2 | 125.8 | 125.7 | 125.9 | 125.0 | 127.0 | 126.0 | 126.25 |
| 127.9 | 127.4 | 128.0 | 128.0 | 127.1 | 127.0 | 126.4 | 126.2 | 126.8 | 127.2 | 125.0 | 126.2 | 126.74 |
| 127.3 | 127.7 | 128.1 | 128.8 | 128.2 | 128.1 | 130.2 | 126.0 | 126.4 | 127.0 | 127.5 | 127.0 | 127.04 |
| 126.9 | 127.5 | 127.9 | 135.9 | 126.0 | 126.2 | 126.8 | 125.4 | 127.1 | 126.9 | 127.5 | 128.0 | 126.92 |
| 129.0 | 130.5 | 128.8 | 129.1 | 128.9 | 128.2 | 130.1 | 129.2 | 131.3 | 127.2 | 126.9 | 127.8 | 125.60 |
| 125.0 | 126.1 | 126.7 | 129.0 | 129.3 | 123.7 | — | — | — | — | — | — | 126.40 |
| — | — | — | — | — | — | 132.5 | 126.9 | 124.2 | 126.9 | 120.6 | 126.3 | 126.22 |
| 132.2 | 128.0 | 135.0 | 130.5 | 129.0 | 128.8 | 120.1 | 125.0 | 125.0 | 125.6 | 125.9 | 127.3 | 126.27 |
| 135.7 | 127.5 | 127.0 | 126.9 | 127.2 | 127.0 | 126.1 | 127.0 | 126.2 | 126.0 | 126.8 | 127.0 | 125.96 |
| 125.1 | 125.9 | 127.5 | 128.4 | 127.0 | 126.8 | 127.0 | 127.1 | 121.1 | 124.2 | 127.4 | 128.0 | 126.32 |
| 126.0 | 127.0 | 127.2 | 127.5 | 128.0 | 128.8 | 126.3 | 126.0 | 125.4 | 126.0 | 126.6 | 126.0 | 126.15 |
| 127.0 | 126.3 | 129.9 | 126.2 | 126.9 | 126.5 | 126.7 | 126.0 | 125.8 | 125.5 | 126.0 | 126.2 | 126.36 |
| 126.6 | 126.9 | 127.2 | 128.0 | 127.5 | 127.0 | — | — | — | — | — | — | 126.12 |
| — | — | — | — | — | — | 126.3 | 126.0 | 125.4 | 125.9 | 125.9 | 126.2 | 126.13 |
| 127.0 | 127.1 | 127.8 | 127.0 | 125.8 | 130.1 | 126.2 | 125.0 | 127.3 | 127.0 | 126.8 | 127.0 | 126.39 |
| 126.9 | 127.0 ^f | 127.0 | 127.0 | 127.4 | 126.2 | 126.4 | 126.5 | 121.3 | 124.7 | 129.0 | 129.0 | 126.20 |
| 127.0 | 127.0 | 128.0 | 127.7 | 127.7 | 128.2 | 126.0 | 125.5 | 125.2 | 125.9 | 126.0 | 126.4 | 126.37 |
| 127.1 | 127.1 | 127.2 | 127.2 | 126.9 | 126.2 | 126.2 | 126.0 | 125.5 | 125.0 | 126.0 | 126.9 | — |
| 127.5 | 127.9 | 127.9 ^f | 127.6 | 127.2 | 126.2 | 126.2 | 125.5 | 125.5 | 125.4 | 125.9 | 127.0 | 126.01 |
| 127.0 | 127.2 | 127.8 | 127.8 | 127.0 | 126.2 | — | — | — | — | — | — | 126.04 |
| — | — | — | — | — | — | — | — | — | — | — | — | 125.86 |
| 126.2 | 126.8 | 127.4 | 126.9 | 129.2 | 126.1 | 126.8 | 125.2 | 122.2 | 123.7 | 122.5 | 122.0 | 125.58 |
| 125.7 | 127.0 | 127.6 | 129.0 | 129.3 | 127.1 | 125.8 | 124.0 | 124.4 | 125.2 | 123.0 | 133.0 | 124.75 |
| 123.7 | 125.0 | 125.8 | 127.6 | 127.5 | 125.4 | 126.0 | 125.6 | 124.2 | 123.3 | 126.1 | 125.4 | 126.15 |
| 127.0 | 127.2 | 128.0 | 127.7 | 128.0 | 127.3 | 126.0 | 125.5 ^h | 124.0 | 124.2 | 126.0 | 124.0 | 126.62 |
| 127.1 | 127.2 | 127.7 | 128.0 | 128.2 | 129.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 126.9 | 127.6 | 127.1 | 127.8 | 128.3 | 125.0 | — |
| 127.30 | 127.11 | 127.92 | 128.18 | 127.67 | 127.11 | 126.72 | 126.11 | 125.48 | 126.00 | 126.40 | 126.89 | 126.24 |

^e Two minutes late.

^f Three minutes late.

^g Christmas-day.

^h Five minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|--------|
| One Scale Division = .000074 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JANUARY. | 2 | 497.6 | 517.3 | 502.5 | 472.6 | 472.3 | 478.5 | 474.2 | 487.0 | 474.7 | 492.2 | 501.0 | 489.7 |
| | 3 | 489.1 | 505.7 | 506.5 | 503.1 | 492.5 | 484.5 | 483.7 | 482.2 | 502.1 | 501.8 | 504.5 | 500.2 |
| | 4 | 506.6 | 506.7 | 504.6 | 496.8 | 491.1 | 485.2 | 482.2 | 490.7 | 498.2 | 501.2 | 505.3 | 506.5 |
| | 5 | 496.7 | 494.9 | 492.8 | 489.1 | 476.7 | 469.1 | 467.1 | 477.8 | 483.1 | 493.5 | 494.5 | 493.6 |
| | 6 | 488.7 | 489.7 | 488.6 | 483.0 | 473.2 | 457.0 | 458.6 | 457.1 | 470.0 | 476.4 | 482.9 | 482.5 |
| | 7 | 479.7 | 480.0 | 479.5 | 476.8 | 462.8 | 452.2 | 448.2 | 450.2 | 458.1 | 467.4 | 476.0 | 474.0 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 492.2 | 492.0 | 490.8 | 483.9 | 478.1 | 475.1 | 470.7 | 470.9 | 474.9 | 481.1 | 485.7 | 484.0 |
| | 10 | 484.1 | 483.4 | 485.0 | 484.7 | 478.3 | 464.4 | 473.9 | 471.0 | 476.7 | 475.9 | 485.0 | 483.5 |
| | 11 | 483.9 | 484.1 | 483.7 | 478.2 | 473.6 | 465.5 | 462.6 | 464.5 | 459.7 | 463.6 | 472.2 | 476.3 |
| | 12 | 475.9 ^a | 473.7 | 474.9 | 474.9 | 471.2 | 462.7 | 457.7 | 459.7 | 462.5 | 467.2 | 475.3 | 476.3 |
| | 13 | 475.6 | 477.8 | 476.0 | 469.2 | 465.9 | 462.0 | 460.7 | 463.9 | 466.0 | 467.0 | 472.9 | 477.0 |
| | 14 | 481.1 | 481.9 | 480.8 | 480.5 | 477.8 | 475.8 | 476.1 | 475.0 | 475.0 | 477.4 | 480.3 | 487.2 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 489.4 | 487.3 | 496.0 | 502.1 | 494.1 | 489.1 | 488.4 | 486.4 | 493.7 | 490.6 | 497.4 | 493.0 |
| | 17 | 493.9 | 493.4 | 494.6 | 491.9 | 480.5 | 467.6 | 467.6 | 475.9 | 482.6 | 486.5 | 483.4 | 483.1 |
| | 18 | 484.4 | 483.1 | 486.0 | 480.6 | 478.0 | 472.7 | 469.5 | 469.7 | 469.6 | 474.6 | 472.4 | 468.0 |
| | 19 | 465.5 | 464.1 | 458.4 | 457.1 | 450.7 | 439.5 | 436.7 | 436.6 | 446.2 | 454.9 | 457.1 | 460.0 |
| | 20 | 462.7 | 458.1 | 462.4 | 460.8 | 451.3 | 444.4 | 443.1 | 445.6 | 449.2 | 460.0 | 466.0 | 467.0 |
| | 21 | 467.2 | 470.4 | 468.2 | 462.1 | 456.3 | 449.4 | 445.2 | 450.5 | 449.6 | 453.7 | 456.9 | 460.0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 475.8 | 475.9 | 480.1 | 477.2 | 477.5 | 476.2 | 457.5 | 457.3 | 457.5 | 469.9 | 477.7 | 481.5 |
| | 24 | 472.5 | 473.0 | 472.6 | 468.0 | 468.5 | 456.7 | 454.7 | 461.6 | 468.4 | 474.2 | 479.9 | 464.0 |
| | 25 | 472.9 | 471.1 | 471.4 | 467.6 | 463.3 | 458.6 | 461.2 | 465.4 | 474.0 | 478.4 | 481.4 | 482.6 |
| | 26 | 499.4 | 499.4 | 500.0 | 499.1 | 496.0 | 488.3 | 486.7 | 491.9 | 487.6 | 486.6 | 491.0 | 494.0 |
| | 27 | 491.2 | 490.5 | 491.0 | 489.2 | 482.0 | 476.4 | 476.0 | 477.9 | 477.2 | 477.0 | 483.5 | 487.1 |
| | 28 | 486.7 | 487.2 | 486.5 | 479.9 | 475.2 | 462.5 | 432.0 | 453.1 | 464.0 | 459.8 | 468.5 | 458.3 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 490.1 | 490.7 | 481.4 | 484.5 | 476.5 | 466.6 | 465.7 | 465.9 | 469.5 | 473.6 | 480.4 | 476.5 |
| | 31 | 471.5 | 475.6 | 472.0 | 468.0 | 468.5 | 469.7 | 463.4 | 472.8 | 474.7 | 475.8 | 478.7 | 478.8 |
| | Hourly Means | 483.63 | 484.88 | 484.09 | 480.03 | 474.30 | 467.29 | 463.98 | 467.72 | 471.72 | 476.17 | 481.15 | 480.18 |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| JANUARY. | 2 | 31.2 | 33.4 | 33.6 | 34.0 | 35.4 | 36.6 | 37.8 | 38.5 | 38.6 | 38.7 | 38.8 | 39.0 |
| | 3 | 34.6 | 34.0 | 33.8 | 33.6 | 34.7 | 35.5 | 35.5 | 36.6 | 37.3 | 37.6 | 37.7 | 36.7 |
| | 4 | 33.0 | 33.0 | 33.4 | 32.6 | 33.1 | 34.0 | 32.5 | 33.6 | 34.5 | 35.3 | 36.4 | 36.0 |
| | 5 | 39.8 | 39.8 | 40.4 | 40.5 | 40.7 | 41.5 | 42.3 | 42.4 | 42.5 | 42.2 | 43.0 | 43.2 |
| | 6 | 42.6 | 42.6 | 42.6 | 42.5 | 43.0 | 44.0 | 44.6 | 45.2 | 45.6 | 46.0 | 46.0 | 46.1 |
| | 7 | 48.5 | 48.0 | 48.0 | 48.0 | 48.0 | 48.4 | 49.2 | 49.9 | 50.0 | 50.0 | 50.0 | 50.2 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 40.2 | 40.0 | 39.9 | 39.2 | 39.8 | 41.0 | 41.8 | 42.6 | 43.5 | 44.4 | 44.9 | 44.5 |
| | 10 | 44.6 | 45.0 | 45.3 | 44.9 | 44.9 | 45.0 | 45.5 | 45.6 | 45.6 | 46.0 | 46.4 | 46.5 |
| | 11 | 46.3 | 45.7 | 45.7 | 45.0 | 45.4 | 45.7 | 45.9 | 46.1 | 46.5 | 46.6 | 47.5 | 48.0 |
| | 12 | 46.4 | 46.2 | 46.5 | 46.1 | 45.6 | 45.6 | 45.5 | 46.0 | 46.4 | 46.2 | 46.0 | 45.5 |
| | 13 | 47.5 | 47.9 | 48.0 | 47.2 | 47.0 | 47.2 | 47.7 | 48.2 | 48.4 | 48.5 | 47.6 | 47.0 |
| | 14 | 44.2 | 44.0 | 43.9 | 43.0 | 42.8 | 43.0 | 42.6 | 42.6 | 43.0 | 43.5 | 43.4 | 43.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 42.0 | 41.5 | 41.0 | 41.0 | 40.5 | 40.7 | 41.1 | 41.5 | 41.7 | 42.5 | 42.8 | 42.0 |
| | 17 | 41.7 | 41.7 | 41.3 | 41.0 | 40.8 | 41.2 | 42.5 | 43.5 | 44.0 | 44.7 | 45.1 | 45.4 |
| | 18 | 45.8 | 45.5 | 45.2 | 45.0 | 45.5 | 46.5 | 47.8 | 48.9 | 50.0 | 51.1 | 52.0 | 52.5 |
| | 19 | 53.6 | 54.4 | 55.5 | 56.0 | 54.7 | 54.2 | 53.9 | 54.0 | 54.0 | 54.3 | 54.5 | 54.4 |
| | 20 | 53.3 | 53.5 | 53.4 | 52.5 | 52.8 | 53.0 | 53.1 | 53.0 | 53.4 | 53.6 | 53.8 | 53.5 |
| | 21 | 52.2 | 52.5 | 52.3 | 52.4 | 53.0 | 53.4 | 54.2 | 54.6 | 55.5 | 56.3 | 57.3 | 57.6 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 46.2 | 46.0 | 45.5 | 45.2 | 44.8 | 44.8 | 45.5 | 46.0 | 46.5 | 46.8 | 47.2 | 47.0 |
| | 24 | 49.0 | 48.5 | 47.5 | 46.5 | 46.4 | 47.0 | 47.5 | 47.4 | 47.2 | 47.4 | 47.4 | 48.2 |
| | 25 | 47.4 | 47.4 | 47.2 | 46.8 | 46.6 | 45.8 | 45.0 | 44.0 | 43.5 | 43.2 | 42.4 | 42.2 |
| | 26 | 36.0 | 36.2 | 35.8 | 36.1 | 36.3 | 36.9 | 38.0 | 39.2 | 40.8 | 41.4 | 40.9 | 40.5 |
| | 27 | 44.2 | 44.8 | 44.9 | 45.0 | 45.0 | 44.8 | 46.2 | 47.0 | 48.0 | 47.0 | 46.4 | 46.6 |
| | 28 | 46.8 | 46.6 | 46.0 | 45.6 | 45.5 | 45.8 | 46.5 | 46.0 | 46.0 | 46.4 | 46.8 | 46.7 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 41.5 | 41.4 | 41.2 | 40.8 | 41.6 | 43.0 | 44.0 | 44.6 | 45.6 | 46.6 | 46.8 | 46.5 |
| | 31 | 47.0 | 46.6 | 46.4 | 45.8 | 45.6 | 46.0 | 46.2 | 46.4 | 47.0 | 48.3 | 48.5 | 48.4 |
| | Hourly Means | 44.06 | 44.08 | 44.01 | 43.70 | 43.83 | 44.25 | 44.71 | 45.13 | 45.58 | 45.95 | 46.14 | 46.05 |

^a Five minutes late.

HORIZONTAL FORCE.

One Scale Division = '000074 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 456·3 | Sc. Div. 480·9 | Sc. Div. 493·2 | Sc. Div. 490·5 | Sc. Div. 489·5 | Sc. Div. 492·8 | Sc. Div. 490·9 | Sc. Div. 491·4 | Sc. Div. 490·5 | Sc. Div. 493·7 | Sc. Div. 501·0 | Sc. Div. 496·3 | Sc. Div. 488·61 |
| 498·0 | 498·2 | 498·4 | 499·0 | 499·4 | 496·0 | 500·0 | 494·0 | 499·2 | 500·2 | 505·1 | 505·3 | 497·86 |
| 506·2 | 500·5 | 499·5 | 498·7 | 496·1 | 495·3 | 497·0 | 498·2 | 496·0 | 496·4 | 500·0 | 499·8 | 498·28 |
| 490·4 | 489·7 | 485·9 | 483·0 | 483·0 | 483·4 | 483·5 | 482·3 | 483·4 | 487·3 | 486·6 | 488·0 | 485·64 |
| 480·8 | 483·9 | 484·0 | 477·0 | 479·8 | 469·3 | 478·3 | 477·5 | 481·0 | 479·2 | 481·7 | 482·5 | 477·61 |
| 472·8 | 473·7 | 471·2 | 471·7 | 471·9 | 472·1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 487·9 | 494·0 | 492·7 | 492·5 | 490·0 | 492·4 | 474·49 |
| 484·9 | 484·2 | 483·9 | 485·0 | 483·0 | 483·0 | 481·5 | 479·8 | 480·2 | 480·3 | 480·8 | 484·0 | 482·08 |
| 469·0 | 469·2 | 475·0 | 472·8 | 476·3 | 478·2 | 477·6 | 480·0 | 480·0 | 480·5 | 479·8 | 484·0 | 477·85 |
| 472·9 | 465·0 | 467·8 | 468·6 | 469·9 | 468·6 | 468·8 | 471·0 | 471·6 | 473·7 | 472·4 | 472·0 | 471·26 |
| 478·4 | 476·3 | 474·1 | 474·2 | 471·5 | 473·2 | 472·5 | 473·0 | 473·0 | 474·0 | 475·0 | 476·0 | 471·80 |
| 477·6 | 476·6 | 474·7 | 470·5 | 471·0 | 476·0 | 478·0 | 474·3 | 479·5 | 481·2 | 482·4 | 483·0 | 473·28 |
| 487·0 | 485·0 | 482·0 | 481·0 | 479·0 | 480·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 488·1 | 493·4 | 480·9 | 485·7 | 487·9 | 490·9 | 482·08 |
| 492·2 | 494·0 | 495·0 | 494·6 | 491·3 | 493·9 | 487·9 | 491·2 | 492·4 | 492·0 | 489·1 | 487·6 | 492·03 |
| 482·2 | 473·3 | 476·1 | 480·3 | 480·0 | 479·6 | 479·8 | 477·7 | 484·9 | 483·6 | 484·4 | 482·5 | 481·89 |
| 463·0 | 463·0 | 462·0 | 459·0 | 460·1 | 460·2 | 462·5 | 462·6 | 463·0 | 461·2 | 463·5 | 467·3 | 469·00 |
| 462·0 | 461·4 | 461·2 | 459·0 | 460·0 | 460·0 | 461·5 | 460·0 | 459·9 | 461·0 | 462·9 | 463·0 | 456·61 |
| 465·9 | 464·0 | 464·0 | 462·4 | 461·4 | 463·1 | 463·9 | 464·0 | 464·5 | 465·0 | 465·2 | 466·2 | 460·01 |
| 457·9 | 457·9 | 458·1 | 457·1 | 457·2 | 457·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 464·2 | 470·9 | 468·6 | 471·1 | 473·3 | 474·0 | 460·72 |
| 463·7 | 471·0 | 470·0 | 463·7 | 471·4 | 454·2 | 466·9 | 465·1 | 469·9 | 467·0 | 468·7 | 473·7 | 469·56 |
| 470·8 | 467·3 | 465·1 | 455·5 | 460·3 | 464·7 | 465·6 | 462·4 | 467·1 | 466·5 | 468·7 | 473·1 | 466·72 |
| 485·2 | 485·7 | 487·3 | 481·0 | 484·0 | 487·0 | 491·5 | 490·4 | 491·0 | 494·1 | 497·2 | 498·8 | 480·05 |
| 492·1 | 493·0 | 492·0 | 492·8 | 491·1 | 492·7 | 489·9 | 489·3 | 490·0 | 490·0 | 490·7 | 490·8 | 492·27 |
| 490·6 | 485·6 | 481·1 | 476·0 | 468·5 | 463·9 | 476·8 | 477·5 | 478·0 | 477·8 | 477·7 | 481·7 | 480·59 |
| 447·7 | 462·0 | 465·0 | 468·9 | 467·1 | 468·1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 480·9 | 489·0 | 482·9 | 484·1 | 489·7 | 485·8 | 471·04 |
| 475·0 | 473·5 | 575·0 | 475·1 | 480·4 | 478·4 | 471·0 | 472·0 | 471·0 | 475·0 | 475·0 | 476·0 | 475·78 |
| 476·2 | 474·5 | 474·5 | 470·0 | 469·0 | 471·5 | 473·5 | 476·2 | 479·4 | 484·8 | 487·4 | 489·7 | 474·84 |
| 476·88 | 477·28 | 477·54 | 475·67 | 475·85 | 475·49 | 478·49 | 479·12 | 479·25 | 480·69 | 482·16 | 483·25 | 477·38 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 39·2 | 39·2 | 39·0 | 38·8 | 38·6 | 38·2 | 37·6 | 37·8 | 37·0 | 37·0 | 36·6 | 36·5 | 37·13 |
| 36·6 | 36·0 | 35·2 | 34·4 | 34·2 | 34·4 | 34·5 | 34·8 | 34·4 | 33·6 | 33·4 | 33·0 | 35·09 |
| 37·0 | 37·4 | 38·0 | 38·6 | 39·0 | 39·2 | 39·6 | 39·1 | 39·0 | 39·0 | 39·1 | 39·9 | 36·35 |
| 43·8 | 45·0 | 45·5 | 45·5 | 45·4 | 45·1 | 44·5 | 43·6 | 43·0 | 42·8 | 42·9 | 42·6 | 42·83 |
| 46·0 | 46·1 | 46·0 | 46·0 | 46·1 | 46·2 | 46·5 | 46·5 | 47·0 | 47·5 | 47·8 | 48·1 | 45·44 |
| 50·0 | 49·5 | 49·5 | 49·4 | 49·3 | 49·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38·4 | 38·5 | 39·2 | 39·5 | 40·0 | 40·0 | 46·70 |
| 44·6 | 44·4 | 44·0 | 44·0 | 44·0 | 44·2 | 44·5 | 44·5 | 44·4 | 44·6 | 44·6 | 44·5 | 43·09 |
| 47·2 | 47·5 | 47·4 | 47·2 | 47·0 | 46·8 | 46·8 | 46·5 | 46·4 | 46·3 | 46·5 | 46·4 | 46·14 |
| 48·4 | 48·2 | 48·0 | 47·4 | 47·3 | 47·1 | 47·0 | 47·5 | 47·5 | 47·0 | 47·5 | 46·6 | 46·83 |
| 46·0 | 46·3 | 46·5 | 46·4 | 45·0 | 44·5 | 43·5 | 46·5 | 46·5 | 46·5 | 47·0 | 47·1 | 45·99 |
| 47·5 | 47·0 | 46·5 | 44·8 | 44·5 | 44·5 | 44·8 | 44·6 | 44·5 | 44·6 | 44·4 | 44·5 | 46·43 |
| 43·0 | 43·0 | 43·2 | 43·4 | 43·2 | 43·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39·8 | 40·0 | 40·2 | 40·6 | 41·0 | 41·2 | 42·55 |
| 42·0 | 41·6 | 41·6 | 42·0 | 42·0 | 42·0 | 41·8 | 42·1 | 42·5 | 42·0 | 41·5 | 41·5 | 41·70 |
| 45·5 | 46·0 | 45·8 | 45·5 | 45·0 | 44·7 | 44·7 | 44·7 | 45·0 | 45·5 | 45·4 | 45·6 | 44·43 |
| 52·5 | 52·8 | 53·1 | 53·3 | 53·2 | 52·6 | 52·1 | 52·0 | 51·6 | 51·6 | 52·0 | 53·2 | 50·24 |
| 53·8 | 53·6 | 53·5 | 53·5 | 53·5 | 53·5 | 53·4 | 53·2 | 53·3 | 53·4 | 53·4 | 53·0 | 53·94 |
| 53·4 | 53·2 | 52·8 | 52·6 | 52·6 | 52·6 | 52·8 | 52·9 | 53·4 | 53·0 | 52·8 | 53·0 | 53·08 |
| 57·3 | 56·8 | 56·6 | 56·0 | 55·2 | 54·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45·6 | 45·5 | 45·5 | 45·6 | 46·0 | 46·5 | 52·60 |
| 46·4 | 46·3 | 46·4 | 47·4 | 48·5 | 48·4 | 48·5 | 48·5 | 49·2 | 49·5 | 49·5 | 49·0 | 47·05 |
| 47·5 | 46·9 | 46·5 | 46·5 | 47·0 | 47·2 | 47·0 | 46·2 | 46·4 | 46·5 | 46·8 | 47·0 | 47·15 |
| 42·0 | 41·5 | 40·8 | 39·6 | 38·8 | 38·4 | 38·5 | 38·4 | 37·2 | 36·6 | 36·4 | 36·1 | 41·91 |
| 41·5 | 41·8 | 41·6 | 41·6 | 41·6 | 41·6 | 42·0 | 42·1 | 43·0 | 43·4 | 43·6 | 44·0 | 40·25 |
| 47·4 | 47·4 | 47·6 | 46·9 | 47·1 | 47·2 | 47·1 | 46·6 | 47·2 | 48·2 | 47·8 | 47·0 | 46·56 |
| 46·4 | 46·5 | 46·3 | 46·0 | 45·8 | 45·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40·2 | 39·9 | 40·1 | 40·3 | 40·7 | 41·4 | 44·74 |
| 46·3 | 46·3 | 46·0 | 45·9 | 46·0 | 46·0 | 46·2 | 46·6 | 47·0 | 47·2 | 47·2 | 47·0 | 45·05 |
| 48·7 | 48·5 | 48·8 | 48·6 | 47·4 | 45·6 | 44·8 | 43·8 | 42·6 | 41·4 | 40·0 | 38·7 | 45·88 |
| 46·15 | 46·11 | 46·01 | 45·82 | 45·67 | 45·48 | 43·81 | 43·81 | 43·84 | 43·85 | 43·89 | 44·26 | 44·84 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| From 1st to 9th. One Scale Division = .000074 parts of the H. F. | | Change in the magnetic moment of the Bar for 1° Fahr. = .00027. | | | | | | | | | | | |
| From 10th to 23rd. One Scale Division = .000152 parts of the H. F. | | Change in the magnetic moment of the Bar not ascertained. | | | | | | | | | | | |
| From 24th to 28th. One Scale Division = .000099 parts of the H. F. | | Change in the magnetic moment of the Bar for 1° Fahr. = .00027. | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| FEBRUARY. | 1 | 490.4 | 495.5 | 496.5 | 494.4 | 492.4 | 483.8 | 482.3 | 486.3 | 489.8 | 494.6 | 495.0 | 498.2 |
| | 2 | 503.1 | 505.9 | 503.8 | 499.2 | 488.7 | 488.6 | 485.6 | 493.0 | 496.5 | 498.6 | 499.7 | 497.1 |
| | 3 | 502.0 | 500.6 | 499.9 | 498.1 | 493.5 | 488.5 | 484.1 | 485.9 | 487.9 | 494.9 | 498.8 | 493.6 |
| | 4 | 491.5 | 491.1 | 489.7 | 485.2 | 479.4 | 474.5 | 479.7 | 487.7 | 495.9 | 497.0 | 495.7 | 490.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 494.6 | 493.9 | 486.5 | 497.1 | 495.5 | 492.8 | 486.1 | 483.5 | 487.9 | 494.2 | 459.3 | 502.6 |
| | 7 | 504.6 | 511.4 | 507.9 | 502.0 | 495.8 | 481.2 | 493.3 | 479.3 | 498.9 | 503.6 | 502.5 | 504.0 |
| | 8 | 497.7 | 494.9 | 494.4 | 492.2 | 489.5 | 485.3 | 484.1 | 486.5 | 488.4 | 492.6 | 496.4 | 493.6 |
| | 9 | 500.0 | 500.8 | 497.6 | 491.0 | 487.0 | 484.5 | 486.2 | 484.5 | 485.8 | 488.8 | 491.9 | 492.9 |
| | 10 | 502.0 ^b | 501.8 | 496.4 | — | — | — | — | — | — | — | — | — |
| | 11 | 512.6 | 511.1 | 512.7 | 512.3 | 513.9 | 511.5 | 509.9 | 512.8 | 514.3 | 512.9 | 514.9 | 518.3 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 528.0 | 530.2 | 529.0 | 524.1 | 523.1 | 522.3 | 525.4 | 522.6 | 524.9 | 526.6 | 512.1 | 522.5 |
| | 14 | 527.5 | 520.6 | 525.8 | 519.2 | 517.9 | 517.1 | 517.2 | 519.3 | 518.1 | 513.9 | 525.1 | 528.2 |
| | 15 | 527.5 | 526.7 | 524.8 | 522.3 | 517.0 | 517.0 | 516.5 | 514.9 | 522.1 | 521.9 | 524.6 | 523.6 |
| | 16 | 526.4 | 528.0 | 526.9 | 526.9 | 519.6 | 520.7 | 520.5 | 524.0 | 518.1 | 520.8 | 525.4 | 526.5 |
| | 17 | 535.5 | 530.8 | 528.6 | 525.1 | 519.1 | 520.1 | 517.4 | 525.4 | 530.0 | 532.3 | 532.5 | 529.0 |
| | 18 | 532.8 | 531.3 | 531.4 | 530.8 | 528.2 | 525.2 | 524.4 | 526.1 | 525.9 | 530.5 | 533.8 | 533.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 533.7 | 533.2 | 531.5 | 530.7 | 528.2 | 523.2 | 522.4 | 526.3 | 529.2 | 533.6 | 533.0 | 525.8 |
| | 21 | 529.0 | 528.4 | 526.1 | 523.4 | 519.8 | 519.5 | 521.5 | 522.6 | 524.4 | 524.4 | 524.7 | 525.9 |
| | 22 | 525.7 | 525.2 | 522.3 | 521.1 | 520.0 | 519.8 | 520.5 | 524.0 | 526.2 | 526.9 | 527.5 | 528.1 |
| | 23 | 532.4 | 531.9 | 530.5 | 528.6 | 526.0 | 525.8 | 526.8 | 529.1 | 530.2 | 531.1 | 530.5 | 534.0 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 517.7 | 521.8 | 525.0 | 525.9 | 524.5 | 529.5 | 530.0 | 539.3 | 539.0 | 548.7 | 544.5 | 540.5 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 578.1 | 578.1 | 581.0 | 567.4 | 566.5 | 566.9 | 570.3 | — | 572.6 | 586.8 | 586.8 | 587.9 |
| | 28 | 597.4 | 596.9 | 594.6 | 590.0 | 587.2 | 586.9 | 587.0 | 590.2 | 592.9 | 597.9 | 600.4 | 601.4 |
| Hourly Means | 522.19 | 522.20 | 521.21 | 518.50 | 515.13 | 512.94 | 513.24 | 512.54 | 518.14 | 521.48 | 520.69 | 522.59 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| FEBRUARY. | 1 | 37.6 | 37.1 | 36.4 | 36.0 | 35.8 | 36.8 | 38.0 | 38.4 | 39.3 | 40.5 | 39.8 | 39.2 |
| | 2 | 36.2 | 36.0 | 34.6 | 35.0 | 35.8 | 37.0 | 37.5 | 37.8 | 38.0 | 39.5 | 40.5 | 41.4 |
| | 3 | 37.9 | 38.8 | 37.9 | 38.5 | 39.8 | 40.5 | 41.0 | 41.8 | 41.8 | 42.4 | 43.6 | 43.8 |
| | 4 | 43.5 | 42.8 | 42.4 | 42.2 | 42.6 | 43.4 | 44.6 | 45.7 | 46.4 | 47.5 | 48.3 | 48.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 37.5 | 36.8 | 35.9 | 34.6 | 34.6 | 35.2 | 36.2 | 36.9 | 36.8 | 36.9 | 36.6 | 36.4 |
| | 7 | 32.0 | 31.0 | 30.2 | 30.3 | 31.0 | 32.1 | 32.5 | 34.5 | 35.4 | 36.8 | 37.8 | 37.0 |
| | 8 | 38.0 | 37.7 | 37.6 | 37.5 | 37.4 | 38.0 | 38.5 | 39.4 | 40.0 | 40.6 | 40.9 | 40.6 |
| | 9 | 36.3 | 35.8 | 35.6 | 35.0 | 35.4 | 36.3 | 37.7 | 39.2 | 39.6 | 40.2 | 41.0 | 40.0 |
| | 10 ^b | 36.2 | 35.8 | 35.9 | — | — | — | — | — | — | — | — | — |
| | 11 | 44.4 | 43.8 | 43.3 | 41.6 | 41.1 | 40.6 | 40.9 | 41.2 | 40.8 | 41.0 | 41.2 | 41.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 34.6 | 34.1 | 33.1 | 34.0 | 34.8 | 35.9 | 36.9 | 38.4 | 38.7 | 39.4 | 39.5 | 39.5 |
| | 14 | 34.4 | 33.8 | 33.5 | 32.5 | 32.0 | 32.8 | 33.0 | 33.0 | 34.2 | 34.8 | 35.3 | 36.2 |
| | 15 | 35.3 | 35.2 | 34.7 | 34.8 | 36.0 | 36.6 | 37.5 | 38.2 | 38.4 | 38.2 | 38.7 | 40.2 |
| | 16 | 36.5 | 36.0 | 36.2 | 36.6 | 37.2 | 37.2 | 38.0 | 38.5 | 39.0 | 39.8 | 40.4 | 40.4 |
| | 17 | 31.0 | 30.0 | 30.5 | 30.7 | 31.7 | 33.7 | 35.0 | 36.5 | 37.4 | 38.0 | 38.3 | 38.9 |
| | 18 | 31.6 | 31.0 | 30.6 | 30.2 | 31.4 | 33.4 | 34.8 | 36.4 | 37.4 | 39.4 | 40.2 | 40.4 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 33.8 | 33.4 | 34.0 | 34.8 | 35.9 | 37.2 | 38.0 | 39.2 | 39.9 | 40.8 | 41.2 | 40.8 |
| | 21 | 38.5 | 39.0 | 39.0 | 38.5 | 39.0 | 40.2 | 41.6 | 42.5 | 42.8 | 42.8 | 43.2 | 43.9 |
| | 22 | 42.9 | 42.5 | 41.8 | 41.4 | 41.5 | 42.1 | 42.4 | 42.0 | 41.9 | 42.5 | 42.5 | 42.4 |
| | 23 | 36.2 | 35.7 | 36.4 | 36.5 | 37.1 | 37.4 | 38.0 | 37.8 | 38.5 | 39.2 | 40.5 | 40.7 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 45.2 | 45.0 | 44.5 | 43.9 | 43.8 | 44.0 | 45.2 | 45.6 | 46.0 | 46.2 | 46.8 | 46.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 41.5 | 41.0 | 40.5 | 40.0 | 40.5 | 41.5 | 42.5 | — | 43.2 | 43.8 | 44.4 | 43.9 |
| | 28 | 43.1 | 43.0 | 43.2 | 43.4 | 44.2 | 44.8 | 45.4 | 45.6 | 45.6 | 45.5 | 45.0 | 44.8 |
| Hourly Means | 37.62 | 37.25 | 36.90 | 36.73 | 37.21 | 38.03 | 38.87 | 39.46 | 40.05 | 40.72 | 41.17 | 41.19 | |

The connexion of the series was broken between the 9th and 11th, and again between the 23rd and 25th.

HORIZONTAL FORCE.

From 1st to 9th. One Scale Division = .000074 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .00027.
 From 10th to 23rd. One Scale Division = .000152 parts of the H. F. Change in the magnetic moment of the Bar not ascertained.
 From 24th to 28th. One Scale Division = .000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 495.0 | Sc. Div. 495.0 | Sc. Div. 495.7 | Sc. Div. 496.0 | Sc. Div. 497.9 | Sc. Div. 497.5 | Sc. Div. 498.1 | Sc. Div. 499.3 | Sc. Div. 500.2 | Sc. Div. 501.2 | Sc. Div. 504.9 | Sc. Div. 502.8 | Sc. Div. 495.12 |
| 494.4 | 495.3 | 495.2 | 494.1 | 495.0 | 494.0 | 495.2 | 497.5 | 495.5 | 496.5 | 497.4 | 500.0 | 496.25 |
| 492.0 | 490.1 | 488.9 | 488.5 | 487.4 | 486.2 | 486.7 | 488.0 | 489.0 | 491.0 | 491.0 | 491.8 | 491.60 |
| 484.6 | 471.7 | 466.5 | 461.8 | 456.2 | 452.4 | — | — | — | — | — | — | 483.18 |
| — | — | — | — | — | — | 489.7 | 490.0 | 492.0 | 488.0 | 494.0 | 491.9 | 491.9 |
| 508.7 | 497.8 | 497.6 | 499.0 | 501.0 | 494.0 | 500.5 | 502.2 | 503.9 | 501.3 | 501.9 | 499.0 | 495.04 |
| 504.2 | 493.5 | 495.0 | 495.0 | 492.0 | 495.9 | 499.9 | 494.7 | 496.1 | 493.4 | 495.2 | 498.0 | 497.39 |
| 489.5 ^a | 485.2 | 485.9 | 486.9 | 491.4 | 488.8 | 489.1 | 492.4 | 492.4 | 493.4 | 497.0 | 497.9 | 491.06 |
| 489.0 | 487.0 | 494.8 | 494.5 | 494.0 | 493.4 | 500.2 | 495.5 | 485.5 | 493.5 | 494.6 | 490.0 | 491.79 |
| — | — | — | — | — | 508.0 ^b | 508.0 | 513.2 | 510.7 | 507.8 | 511.2 | 511.8 | — |
| 514.0 | 515.1 | 516.3 | 516.5 | 518.3 | 519.5 | — | — | — | — | — | — | 517.01 |
| — | — | — | — | — | — | 521.8 | 525.2 | 523.7 | 525.9 | 525.4 | 529.3 | 529.3 |
| 522.8 | 509.0 | 522.5 | 519.8 | 519.4 | 520.6 | 527.2 | 509.8 | 519.7 | 522.3 | 525.8 | 525.3 | 522.29 |
| 526.3 | 527.2 | 523.7 | 519.8 | 519.9 | 523.7 | 523.6 | 524.9 | 527.3 | 528.2 | 526.2 | 528.0 | 522.86 |
| 521.2 | 520.3 | 520.7 | 523.4 | 522.8 | 523.0 | 523.0 | 524.0 | 524.5 | 525.0 | 525.5 | 524.5 | 522.37 |
| 526.1 | 526.0 | 526.1 | 525.0 | 526.6 | 523.4 | 526.4 | 527.6 | 526.5 | 536.5 | 524.7 | 527.8 | 525.27 |
| 526.0 | 528.5 | 530.0 | 524.3 | 522.9 | 529.3 | 528.5 | 527.3 | 529.3 | 530.1 | 530.3 | 532.1 | 527.68 |
| 532.2 | 529.4 | 523.9 | 520.6 | 523.7 | 527.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 533.2 | 532.0 | 533.1 | 533.6 | 533.5 | 533.4 | 529.55 |
| 527.6 | 514.5 | 524.0 | 527.7 | 526.5 | 526.3 | 526.1 | 524.8 | 526.6 | 527.4 | 527.4 | 528.2 | 527.41 |
| 526.6 | 525.9 | 524.9 | 525.4 | 525.2 | 525.2 | 525.1 | 525.8 | 525.4 | 524.8 | 525.0 | 524.6 | 524.73 |
| 527.7 | 527.3 | 526.4 | 525.5 | 527.5 | 529.0 | 528.3 | 528.4 | 530.1 | 530.0 | 531.7 | 531.3 | 526.27 |
| 532.0 | 531.5 | 526.8 | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | 498.1 ^c | 502.5 | 510.0 | 512.8 | 517.9 | 524.42 |
| 537.8 | 545.8 | 544.2 | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 572.7 | 575.5 | 574.8 | 574.4 | 575.4 | 576.4 | 545.88 |
| 591.1 | 592.6 | 593.3 | 592.6 | 593.1 | 592.6 | 593.1 | 593.8 | 596.0 | 596.0 | 595.5 | 598.5 | 585.68 |
| 601.5 | 601.9 | 601.4 | 602.4 | 603.5 | 603.8 | 603.0 | 606.9 | 604.9 | 603.0 | 608.8 | 608.0 | 598.83 |
| 521.38 | 518.66 | 519.26 | 516.94 | 517.21 | 517.28 | 523.40 | 521.99 | 522.68 | 523.89 | 524.73 | 525.30 | 519.77 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------------------|-------|-------------------|-------|-------|-------|-------|-------|
| 39.6 | 40.0 | 39.0 | 37.5 | 36.4 | 36.2 | 36.4 | 36.5 | 35.6 | 35.4 | 35.8 | 36.3 | 37.48 |
| 41.6 | 40.6 | 40.2 | 39.6 | 39.5 | 39.3 | 38.7 | 37.8 | 37.4 | 37.9 | 38.1 | 38.1 | 38.25 |
| 43.8 | 43.6 | 43.6 | 43.8 | 44.0 | 44.1 | 44.0 | 44.0 | 44.0 | 44.0 | 43.8 | 44.0 | 42.27 |
| 48.2 | 47.6 | 47.4 | 47.0 | 46.5 | 46.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.0 | 38.0 | 39.0 | 39.0 | 38.6 | 38.0 | 43.81 |
| 35.4 | 34.2 | 33.5 | 33.0 | 32.5 | 32.7 | 33.6 | 34.4 | 34.4 | 34.2 | 33.8 | 32.8 | 34.95 |
| 36.5 | 37.0 | 37.4 | 37.2 | 37.0 | 37.4 | 37.6 | 36.5 | 37.2 | 37.6 | 38.0 | 38.0 | 35.33 |
| 40.4 ^a | 40.4 | 39.9 | 39.8 | 39.3 | 39.1 | 38.9 | 38.2 | 37.5 | 36.8 | 36.7 | 36.6 | 38.74 |
| 40.0 | 40.4 | 40.1 | 39.5 | 38.8 | 38.4 | 38.8 | 38.8 | 38.8 | 37.9 | 38.0 | 37.8 | 38.31 |
| — | — | — | — | — | 42.6 ^b | 42.6 | 41.8 | 41.8 | 42.6 | 43.5 | 44.5 | — |
| 40.2 | 39.2 | 38.5 | 38.0 | 37.7 | 37.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 31.4 | 31.5 | 32.2 | 33.4 | 34.6 | 34.8 | 38.74 |
| 39.5 | 39.2 | 38.3 | 37.5 | 36.8 | 36.8 | 36.6 | 36.4 | 37.0 | 36.7 | 36.0 | 35.3 | 36.88 |
| 37.0 | 36.6 | 36.2 | 35.8 | 35.1 | 34.6 | 34.6 | 34.2 | 34.0 | 34.4 | 34.2 | 35.0 | 34.47 |
| 40.8 | 40.5 | 39.5 | 38.8 | 38.7 | 38.5 | 37.8 | 38.0 | 38.4 | 38.0 | 37.5 | 36.5 | 37.78 |
| 40.5 | 39.8 | 39.6 | 38.5 | 37.6 | 36.8 | 35.8 | 35.0 | 34.5 | 33.0 | 32.2 | 31.5 | 37.11 |
| 38.2 | 37.5 | 37.2 | 36.5 | 35.6 | 35.2 | 34.4 | 33.6 | 33.0 | 32.5 | 32.2 | 32.3 | 34.58 |
| 40.4 | 39.8 | 38.6 | 37.4 | 37.2 | 36.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 32.6 | 33.0 | 33.1 | 33.4 | 33.6 | 34.0 | 35.27 |
| 40.4 | 40.6 | 40.6 | 40.8 | 40.9 | 40.1 | 39.4 | 38.2 | 38.5 | 38.4 | 38.8 | 38.4 | 38.50 |
| 43.7 | 44.0 | 44.0 | 43.5 | 43.3 | 43.0 | 43.0 | 43.0 | 42.6 | 42.6 | 43.4 | 43.1 | 42.09 |
| 41.8 | 41.0 | 40.2 | 39.2 | 38.6 | 37.6 | 38.0 | 37.4 | 37.2 | 37.2 | 37.2 | 36.7 | 40.33 |
| 40.5 | 39.5 | 38.5 | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | 45.6 ^c | 45.5 | 45.5 | 45.2 | 44.9 | 39.96 |
| 46.0 | 45.7 | 45.3 | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.6 | 40.9 | 41.2 | 41.3 | 41.0 | 41.2 | 44.07 |
| 43.5 | 44.0 | 44.1 | 44.2 | 44.0 | 44.0 | 43.8 | 43.6 | 43.5 | 43.8 | 43.8 | 43.3 | 42.97 |
| 44.6 | 44.3 | 44.0 | 43.6 | 43.3 | 42.8 | 42.5 | 42.4 | 42.4 | 42.2 | 41.8 | 41.1 | 43.69 |
| 41.02 | 40.70 | 40.26 | 39.56 | 39.14 | 38.84 | 37.93 | 38.04 | 38.04 | 37.97 | 37.92 | 37.72 | 38.85 |

^a Seven minutes late.

^b Not included in the means; new adjustment on the 10th.

^c New adjustment on the 24th.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------|
| One Scale Division = '000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = '00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 608·1 | 608·3 | 605·7 | 601·8 | 599·9 | 597·8 | 597·7 | 603·3 | 607·4 | 611·4 | 615·0 | 614·6 |
| | 2 | 619·3 | 620·3 | 618·9 | 616·4 | 615·0 | 614·1 | 616·0 | 618·8 | 622·5 | 625·0 | 624·8 | 623·5 |
| | 3 | 627·8 | 626·7 | 623·8 | 619·0 | 618·0 | 618·5 | 621·7 ^a | 622·3 | 626·8 ^b | 629·6 | 628·4 | 627·1 |
| | 4 | 631·9 | 631·8 | 631·3 | 627·3 | 624·5 | 620·6 | 619·8 | 618·4 | 624·1 | 622·3 | 625·4 | 621·2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 638·3 | 636·0 | 638·9 | 640·2 | 640·4 | 636·9 | 632·7 | 636·1 | 633·9 | 645·4 | 634·0 | 629·4 |
| | 7 | 632·7 | 625·0 | 619·5 | 623·2 | 613·4 | 609·0 | 621·0 | 619·4 | 620·0 | 638·8 | 634·5 | 628·4 |
| | 8 | 637·2 | 637·7 | 638·8 | 637·3 | 636·7 | 635·9 | 634·1 | 634·6 | 636·1 | 637·6 | 635·2 | 635·3 |
| | 9 | 639·7 | 640·2 | 640·6 | 640·9 | 638·3 | 635·1 | 625·9 | 626·1 | 634·1 | 638·1 | 645·4 | 642·0 |
| | 10 | 642·7 | 642·4 | 640·5 | 641·4 | 639·7 | 640·1 | 639·8 | 638·0 | 640·2 | 643·8 | 645·5 | 645·7 |
| | 11 | 646·5 | 644·8 | 640·1 | 634·3 | 636·9 | 637·0 | 641·2 | 645·2 | 646·8 | 638·4 | 640·0 | 647·0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 650·0 | 642·2 | 646·4 | 646·4 | 637·5 | 629·3 | 640·9 | 642·2 | 643·8 | 651·4 | 653·3 | 654·3 |
| | 14 | 657·5 | 655·1 | 651·9 | 652·5 | 645·4 | 642·9 | 654·8 | 657·5 ^c | 664·3 | 656·4 | 658·0 | 658·8 |
| | 15 | 660·7 | 661·2 | 659·8 | 656·5 | 651·6 | 651·3 | 653·6 | 654·5 | 655·6 | 656·9 | 661·6 | 660·8 |
| | 16 | 663·7 | 660·5 | 659·9 | 655·7 | 653·0 | 652·6 | 660·6 | 666·6 | 666·4 | 664·9 | 670·0 | 665·2 |
| | 17 | 669·1 | 663·3 | 667·0 | 663·5 | 656·6 | 654·0 | 652·0 ^d | 653·5 | 666·9 | 673·8 | 674·0 | 671·4 |
| | 18 | 666·6 | 669·1 | 668·9 | 667·5 | 663·8 | 662·8 | 658·3 | 658·0 | 663·1 | 665·0 | 663·7 | 668·4 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 676·6 | 677·6 | 679·2 | 672·6 | 669·6 | 670·6 | 672·1 | 676·4 | 679·0 | 681·1 | 673·8 | 674·1 |
| | 21 | 682·8 | 681·0 | 676·8 | 673·5 | 670·0 | 666·6 | 667·0 | 668·6 | 677·9 | 680·1 | 683·1 | 680·5 |
| | 22 | 685·7 | 683·9 | 677·1 | 677·7 | 677·1 | 675·7 | 681·2 | 674·8 | 677·4 | 684·7 | 680·4 | 684·6 |
| | 23 | 688·1 | 689·2 | 684·6 | 684·3 | 680·4 | 673·3 | 669·8 | 669·3 | 684·6 | 685·7 | 688·3 | 705·5 |
| | 24 | 693·1 | 690·1 | 690·5 | 687·2 | 685·6 | 683·2 | 682·5 | 682·0 | 684·0 | 687·3 | 692·0 | 691·0 |
| | 25 | 696·5 | 695·3 | 692·6 | 687·8 | 682·0 | 678·3 | 677·5 | 681·5 | 682·6 | 688·5 | 691·0 | 691·6 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 700·0 | 699·0 | 696·7 | 691·0 | 685·5 | 684·8 | 686·2 | 689·2 | 695·6 | 698·1 | 701·6 | 701·5 |
| | 28 | 701·9 | 699·7 | 695·3 | 692·7 | 688·2 | 683·0 | 681·0 | 686·0 | 687·1 | 644·2 | 697·9 | 698·4 |
| | 29 | 705·6 | 700·8 | 695·6 | 682·3 | 686·1 | 678·8 | 679·5 | 681·4 | 688·8 | 686·9 | 686·3 | 688·0 |
| | 30 | 694·2 | 691·8 | 690·6 | 690·7 | 687·6 | 679·9 | 679·3 | 683·2 | 686·5 | 696·0 | 698·3 | 693·4 |
| | 31 | 698·5 | 697·0 | 693·2 | 687·5 | 683·2 | 682·1 | 683·5 | 691·3 | 693·9 | 700·0 | 703·8 | 703·9 |
| Hourly Means | 663·55 | 661·85 | 660·16 | 657·45 | 654·30 | 651·64 | 652·95 | 654·75 | 658·87 | 662·24 | 669·46 | 663·17 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------------------|-------|-------|------|
| MARCH. | 1 | 40·3 | 39·6 | 39·4 | 39·0 | 39·2 | 39·0 | 39·0 | 39·0 | 39·0 | 39·0 | 38·8 | 38·5 |
| | 2 | 34·8 | 34·6 | 35·4 | 35·5 | 36·0 | 36·5 | 36·8 | 37·2 | 38·2 | 39·4 | 39·7 | 39·6 |
| | 3 | 35·0 | 35·4 | 35·6 | 35·4 | 36·0 | 37·0 | 38·5 ^a | 39·0 | 39·5 ^b | 39·8 | 39·9 | 40·3 |
| | 4 | 36·2 | 35·8 | 36·5 | 37·2 | 38·3 | 39·5 | 40·2 | 41·2 | 42·3 | 43·0 | 43·5 | 43·2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 32·0 | 32·3 | 32·6 | 33·2 | 34·0 | 34·4 | 35·5 | 36·3 | 36·9 | 38·0 | 39·1 | 40·2 |
| | 7 | 37·0 | 35·8 | 35·8 | 36·9 | 38·0 | 38·9 | 39·4 | 39·6 | 40·0 | 41·0 | 41·8 | 42·5 |
| | 8 | 37·6 | 37·5 | 37·1 | 36·8 | 38·5 | 40·3 | 41·4 | 41·6 | 42·2 | 42·8 | 43·5 | 43·5 |
| | 9 | 41·7 | 41·5 | 42·3 | 42·5 | 43·0 | 43·5 | 44·3 | 45·0 | 45·9 | 46·5 | 47·0 | 47·9 |
| | 10 | 41·7 | 41·5 | 41·6 | 41·4 | 41·6 | 42·0 | 42·8 | 43·4 | 43·8 | 44·3 | 44·7 | 44·8 |
| | 11 | 46·0 | 45·5 | 45·7 | 45·3 | 45·1 | 45·6 | 46·0 | 46·0 | 46·5 | 46·8 | 47·4 | 48·0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 41·6 | 41·6 | 41·2 | 41·0 | 42·3 | 43·1 | 44·3 | 45·0 | 45·8 | 46·0 | 46·5 | 46·0 |
| | 14 | 40·2 | 39·6 | 38·0 | 38·4 | 39·2 | 40·2 | 40·8 | 41·4 ^c | 41·7 | 42·4 | 43·5 | 44·4 |
| | 15 | 43·7 | 43·2 | 42·5 | 42·0 | 42·5 | 42·8 | 43·7 | 44·2 | 44·6 | 45·1 | 45·1 | 45·6 |
| | 16 | 40·4 | 40·0 | 40·8 | 39·8 | 40·0 | 41·0 | 42·7 | 44·0 | 44·9 | 44·6 | 44·6 | 45·0 |
| | 17 | 38·5 | 38·2 | 38·5 | 38·9 | 39·8 | 41·5 | 42·5 ^d | 43·3 | 44·0 | 44·5 | 44·9 | 44·0 |
| | 18 | 38·8 | 38·5 | 39·0 | 39·0 | 40·0 | 41·0 | 41·4 | 41·7 | 41·8 | 41·8 | 41·8 | 41·2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 37·5 | 36·6 | 36·0 | 37·0 | 37·6 | 38·7 | 38·9 | 40·7 | 42·0 | 43·4 | 44·0 | 43·6 |
| | 21 | 39·8 | 39·6 | 39·5 | 39·4 | 40·5 | 41·2 | 41·6 | 42·0 | 42·4 | 42·8 | 43·7 | 43·2 |
| | 22 | 41·2 | 40·4 | 40·3 | 40·6 | 41·2 | 42·4 | 43·6 | 44·1 | 44·3 | 44·2 | 44·8 | 45·4 |
| | 23 | 39·1 | 38·1 | 37·8 | 37·8 | 38·0 | 38·0 | 38·2 | 38·2 | 38·5 | 38·7 | 38·6 | 38·0 |
| | 24 | 36·2 | 36·6 | 37·0 | 37·5 | 38·7 | 39·5 | 40·8 | 41·5 | 42·8 | 43·8 | 44·5 | 44·2 |
| | 25 | 39·0 | 38·3 | 39·0 | 41·1 | 41·5 | 42·0 | 42·4 | 42·8 | 43·8 | 44·6 | 44·6 | 43·8 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 39·0 | 38·7 | 38·6 | 38·6 | 38·5 | 39·0 | 39·5 | 40·3 | 40·6 | 40·6 | 40·8 | 40·9 |
| | 28 | 41·5 | 42·3 | 42·8 | 43·0 | 43·5 | 44·6 | 45·8 | 47·0 | 48·0 | 48·1 | 47·9 | 47·3 |
| | 29 | 41·3 | 41·5 | 43·3 | 43·4 | 43·8 | 44·7 | 45·8 | 47·0 | 47·8 | 48·4 | 48·5 | 48·7 |
| | 30 | 42·8 | 42·5 | 43·2 | 53·6 | 44·5 | 45·6 | 46·6 | 47·4 | 47·9 | 48·8 | 48·8 | 48·0 |
| | 31 | 43·6 | 43·4 | 43·7 | 43·5 | 43·2 | 42·8 | 42·8 | 43·0 | 42·6 | 42·5 | 42·2 | 42·1 |
| Hourly Means | 39·50 | 39·21 | 39·38 | 39·55 | 40·17 | 40·92 | 41·68 | 46·29 | 42·88 | 43·37 | 43·71 | 43·70 | |

^a Two minutes late.

^b Five minutes late.

^c Three minutes late.

^d Four minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| One Scale Division = .000099 parts of the H. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fah. = .00027. | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. 616.5 | Sc. Div. 616.9 | Sc. Div. 617.0 | Sc. Div. 615.5 | Sc. Div. 615.5 | Sc. Div. 616.3 | Sc. Div. 615.8 | Sc. Div. 617.0 | Sc. Div. 617.6 | Sc. Div. 618.3 | Sc. Div. 618.1 | Sc. Div. 620.5 | Sc. Div. 611.50 |
| 623.3 | 623.6 | 622.9 | 622.9 | 623.0 | 623.0 | 624.3 | 624.4 | 626.8 | 627.0 | 628.2 | 628.9 | 622.21 |
| 628.1 | 629.3 | 629.0 | 628.1 | 625.5 | 627.7 | 627.8 | 630.0 | 630.5 | 630.8 | 632.0 | 632.0 | 626.69 |
| 622.4 | 620.0 | 618.0 | 620.0 | 619.5 | 622.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 641.6 | 629.8 | 623.0 | 635.0 | 636.8 | 638.1 | 626.05 |
| 631.1 | 627.3 | 606.7 | 607.0 | 618.8 | 632.5 | 611.1 | 614.1 | 618.2 | 631.0 | 628.7 | 621.9 | 628.78 |
| 627.3 | 629.2 | 628.0 | 633.8 | 631.6 | 631.6 | 635.7 | 635.8 | 635.1 | 636.1 | 636.8 | 637.1 | 628.46 |
| 636.0 | 637.8 | 636.9 | 636.0 | 637.6 | 637.0 | 636.5 | 637.2 | 637.1 | 637.0 | 636.4 | 640.6 | 636.77 |
| 641.5 | 640.8 | 639.2 | 636.2 | 634.8 | 637.9 | 639.8 | 640.0 | 639.5 | 642.4 | 641.3 | 641.8 | 638.40 |
| 643.0 | 635.3 | 637.7 | 639.0 | 641.0 | 642.5 | 645.1 | 645.6 | 646.5 | 644.9 | 646.8 | 646.3 | 642.20 |
| 649.5 | 646.5 | 646.0 | 647.8 | 651.8 | 653.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 644.5 | 643.9 | 633.6 | 651.1 | 653.3 | 650.9 | 644.59 |
| 647.5 | 650.8 | 640.4 | 650.8 | 640.8 | 650.1 | 648.1 | 649.5 | 648.8 | 651.0 | 654.5 | 655.5 | 646.90 |
| 656.2 | 656.9 | 658.4 | 656.9 | 661.8 | 657.9 | 660.0 | 657.5 | 660.9 | 659.0 | 659.2 | 659.9 | 656.95 |
| 660.6 | 660.2 | 660.8 | 660.0 | 661.2 | 660.1 | 663.0 | 662.0 | 663.0 | 663.0 | 663.0 | 663.4 | 659.35 |
| 665.1 | 664.8 | 663.0 | 660.0 | 667.5 | 665.3 | 665.0 | 665.8 | 666.6 | 668.5 | 666.6 | 669.7 | 663.62 |
| 667.3 | 654.8 | 648.7 | 658.8 | 666.6 | 670.7 | 669.6 | 670.1 | 671.4 | 670.6 | 669.7 | 671.0 | 664.77 |
| 669.1 | 670.5 | 654.5 | 667.4 | 664.6 | 666.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 670.5 | 680.2 | 673.3 | 774.6 | 675.5 | 675.3 | 671.55 |
| 676.9 | 667.5 | 674.0 | 673.1 | 675.0 | 674.8 | 676.4 | 678.7 | 680.0 | 678.0 | 680.0 | 682.4 | 675.81 |
| 681.9 | 680.3 | 682.5 | 681.2 | 679.8 | 681.0 | 679.4 | 684.0 | 686.7 | 687.0 | 689.0 | 690.2 | 679.62 |
| 677.0 | 674.3 | 660.0 | 670.1 | 673.3 | 674.8 | 676.0 | 683.4 | 684.6 | 685.1 | 685.7 | 688.4 | 678.92 |
| 688.6 | 688.0 | 687.0 | 689.5 | 685.3 | 687.0 | 690.6 | 690.4 | 692.5 | 693.7 | 693.5 | 694.9 | 686.84 |
| 689.1 | 688.0 | 688.8 | 690.0 | 691.1 | 693.1 | 691.0 | 691.0 | 693.0 | 694.1 | 695.9 | 695.3 | 689.54 |
| 692.0 | 691.0 | 691.5 | 691.9 | 688.9 | 692.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 698.0 | 700.0 | 699.2 | 700.5 | 700.7 | 695.5 | 691.11 |
| 701.8 | 700.8 | 700.1 | 698.6 | 698.8 | 702.3 | 699.3 | 702.0 | 701.0 | 701.3 | 701.6 | 701.8 | 697.44 |
| 697.3 | 696.8 | 696.5 | 695.0 | 694.9 | 696.0 | 696.1 | 697.3 | 702.2 | 701.3 | 703.8 | 704.3 | 695.29 |
| 683.0 | 681.1 | 679.0 | 679.2 | 680.6 | 684.8 | 688.0 | 688.3 | 690.5 | 691.2 | 691.4 | 693.3 | 687.10 |
| 692.3 | 694.5 | 693.0 | 692.8 | 696.1 | 692.1 | 693.5 | 694.3 | 696.4 | 697.8 | 699.0 | 698.5 | 692.16 |
| 706.2 | 703.2 | 705.1 | 704.9 | 703.6 | 703.5 | 705.3 | 705.7 | 704.0 | 705.3 | 707.0 | 706.0 | 699.07 |
| 661.87 | 660.38 | 657.95 | 659.50 | 660.33 | 662.08 | 662.67 | 663.63 | 663.78 | 669.47 | 666.46 | 666.80 | 660.79 |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 38.6 | 38.5 | 37.8 | 37.8 | 37.6 | 37.8 | 38.0 | 37.5 | 37.2 | 36.6 | 36.1 | 35.4 | 38.28 |
| 39.2 | 39.2 | 38.8 | 38.0 | 37.2 | 36.9 | 36.1 | 35.5 | 35.0 | 34.5 | 34.8 | 34.6 | 36.81 |
| 40.6 | 40.2 | 40.3 | 40.2 | 40.0 | 38.9 | 38.5 | 38.5 | 38.0 | 37.8 | 37.5 | 36.6 | 38.27 |
| 42.4 | 41.0 | 39.8 | 39.4 | 38.5 | 38.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 32.0 | 32.5 | 32.9 | 32.6 | 32.6 | 32.3 | 37.95 |
| 40.0 | 39.0 | 37.8 | 37.0 | 36.5 | 36.2 | 36.0 | 37.0 | 37.2 | 37.1 | 37.9 | 37.8 | 36.42 |
| 42.5 | 42.5 | 42.0 | 41.4 | 40.4 | 39.8 | 39.2 | 38.5 | 37.8 | 37.1 | 37.0 | 37.2 | 39.25 |
| 43.0 | 43.4 | 43.6 | 43.5 | 43.9 | 43.8 | 43.4 | 43.0 | 42.8 | 42.5 | 42.4 | 42.0 | 41.67 |
| 47.8 | 46.9 | 46.0 | 44.8 | 44.2 | 43.9 | 43.5 | 43.4 | 43.0 | 42.8 | 42.6 | 42.1 | 44.25 |
| 45.0 | 45.0 | 45.2 | 45.3 | 45.5 | 46.0 | 46.0 | 46.2 | 46.2 | 46.2 | 46.3 | 46.2 | 44.28 |
| 47.8 | 47.8 | 47.5 | 47.2 | 46.5 | 46.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.0 | 39.2 | 40.4 | 41.0 | 41.6 | 41.7 | 44.98 |
| 45.5 | 45.1 | 44.6 | 44.6 | 43.8 | 43.2 | 42.8 | 42.4 | 42.2 | 42.0 | 41.5 | 41.0 | 43.46 |
| 44.6 | 44.5 | 44.3 | 44.0 | 43.6 | 43.4 | 43.1 | 43.0 | 43.2 | 43.5 | 43.5 | 43.7 | 42.26 |
| 45.5 | 44.6 | 44.4 | 44.2 | 44.0 | 43.5 | 43.3 | 43.0 | 42.6 | 42.2 | 41.6 | 40.8 | 43.53 |
| 45.5 | 45.6 | 46.4 | 45.2 | 44.0 | 43.5 | 42.5 | 41.4 | 40.4 | 39.5 | 39.5 | 39.0 | 42.51 |
| 43.2 | 43.0 | 43.0 | 42.6 | 41.6 | 41.5 | 41.4 | 41.0 | 40.7 | 40.1 | 39.7 | 38.8 | 41.47 |
| 40.6 | 40.2 | 40.4 | 39.8 | 39.4 | 39.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.4 | 39.0 | 38.6 | 38.0 | 37.8 | 37.6 | 39.83 |
| 42.6 | 42.8 | 42.0 | 41.5 | 41.4 | 41.0 | 40.7 | 40.4 | 40.0 | 40.0 | 39.5 | 39.8 | 40.32 |
| 42.5 | 41.5 | 41.2 | 41.0 | 40.7 | 41.2 | 41.7 | 42.0 | 42.0 | 42.0 | 42.0 | 41.8 | 41.47 |
| 45.5 | 45.5 | 45.2 | 44.8 | 44.2 | 43.6 | 43.3 | 42.5 | 41.6 | 41.2 | 40.4 | 39.5 | 42.91 |
| 38.2 | 38.0 | 37.8 | 37.6 | 37.4 | 36.5 | 36.0 | 35.5 | 35.1 | 35.0 | 35.5 | 36.0 | 37.40 |
| 43.0 | 41.5 | 40.4 | 39.6 | 39.4 | 39.4 | 39.1 | 39.0 | 38.7 | 38.5 | 38.8 | 39.2 | 39.99 |
| 43.0 | 41.9 | 41.4 | 40.7 | 39.2 | 38.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.0 | 37.8 | 37.7 | 38.4 | 39.0 | 39.4 | 40.75 |
| 40.6 | 40.3 | 40.1 | 40.0 | 39.6 | 40.3 | 41.2 | 41.0 | 41.4 | 41.5 | 41.6 | 41.9 | 40.19 |
| 47.2 | 47.1 | 46.9 | 46.2 | 45.5 | 44.8 | 44.4 | 43.8 | 42.8 | 42.2 | 41.6 | 41.2 | 44.81 |
| 48.5 | 48.5 | 47.5 | 47.2 | 46.6 | 46.0 | 46.2 | 45.1 | 44.5 | 43.9 | 43.2 | 42.8 | 45.59 |
| 47.2 | 46.8 | 46.6 | 45.8 | 45.1 | 44.8 | 43.8 | 43.2 | 42.8 | 42.8 | 43.4 | 43.4 | 45.22 |
| 42.4 | 42.4 | 42.6 | 42.9 | 43.0 | 43.1 | 43.0 | 43.4 | 43.0 | 42.8 | 42.6 | 42.0 | 42.86 |
| 43.43 | 43.07 | 42.73 | 42.31 | 41.81 | 41.51 | 40.80 | 40.55 | 40.30 | 40.07 | 40.00 | 39.77 | 41.36 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------------|-------------------|--------|
| One Scale Division = .000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = .00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| APRIL. | 1 | 704.8 | 706.6 | 704.3 | 698.0 | 696.1 | 688.5 | 686.4 | 690.9 | 698.3 | 697.4 | 708.0 | 705.8 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 708.8 | 710.0 | 703.6 | 704.6 | 691.6 | 687.5 | 685.6 | 691.0 | 733.6 | 708.0 | 704.0 | 705.9 |
| | 4 | 708.2 | 707.9 | 707.0 | 703.0 | 697.8 | 693.6 | 694.1 | 696.4 | 701.0 | 706.1 | 709.1 | 708.0 |
| | 5 | 719.1 | 716.1 | 702.2 | 694.6 | 684.5 | 657.2 | 661.7 | 668.1 | 686.0 | 705.3 | 708.1 | 711.1 |
| | 6 | 675.3 | 681.8 | 670.8 | 675.7 | 682.7 | 684.9 | 688.3 | 694.9 | 701.7 | 705.9 | 701.9 | 681.9 |
| | 7 | 693.3 | 699.3 | 703.7 | 696.5 | 699.0 | 694.8 | 692.6 | 703.2 | 701.4 | 697.7 | 704.0 | 700.1 |
| | 8 | 706.5 | 710.3 | 701.9 | 694.0 | 694.2 | 693.9 | 689.7 | 697.9 | 700.0 | 709.9 | 705.1 | 708.5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 717.2 | 716.7 | 713.2 | 707.2 | 702.2 | 701.1 | 705.0 | 713.8 | 716.5 | 721.4 | 721.5 | 720.5 |
| | 11 | 722.5 | 719.9 | 715.9 | 712.8 | 709.8 | 710.1 | 715.2 | 714.5 | 708.3 | 719.6 | 723.5 | 722.3 |
| | 12 | 722.2 | 720.4 | 713.8 | 708.8 | 698.0 | 698.0 | 696.5 | 708.0 | 709.7 | 703.6 | 718.5 | 718.4 |
| | 13 | 714.3 | 713.5 | 709.8 | 706.8 | 699.0 | 706.5 | 714.5 | 720.3 | 726.0 | 727.5 | 721.0 | 725.0 |
| | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 725.7 | 723.6 | 719.3 | 713.1 | 712.9 | 710.9 | 712.4 | 719.8 | 722.8 | 727.8 | 722.6 | 722.2 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 737.0 | 735.3 | 731.4 | 726.3 | 717.5 | 720.0 | 724.8 | 729.5 | 734.6 | 742.8 | 739.1 | 745.6 |
| | 18 | 745.5 | 745.5 | 738.5 | 736.0 | 728.3 | 726.5 | 728.0 | 731.5 | 759.2 | 746.9 | 743.8 | 741.2 |
| | 19 | 746.1 | 740.8 | 740.5 | 738.5 | 733.3 | 732.8 | 735.0 | 743.0 | 743.5 | 748.1 | 747.3 | 746.0 |
| | 20 | 739.7 | 737.4 | 734.6 | 730.2 | 729.7 | 732.0 | 735.0 | 738.1 | 740.3 | 742.0 | 746.4 | 743.0 |
| | 21 | 743.1 | 743.8 | 742.3 | 734.4 | 729.3 | 732.0 | 736.0 | 738.0 | 739.4 ^b | 739.2 | 738.7 | 738.4 |
| | 22 | 740.5 | 741.0 | 739.5 | 736.3 | 738.1 | 741.0 | 746.9 | 745.8 | 745.5 | 751.2 | 744.5 | 742.8 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 749.0 | 747.9 | 742.0 | 736.0 | 732.3 | 735.4 | 738.3 | 745.0 | 748.1 | 751.6 | 750.7 | 750.0 |
| | 25 | 755.0 | 752.0 | 747.5 | 741.5 | 743.3 | 747.0 | 752.0 | 755.1 | 758.1 | 758.9 | 758.4 | 757.2 |
| | 26 | 756.3 | 751.5 | 747.2 | 745.0 | 744.8 | 746.1 | 752.0 | 752.5 | 758.2 | 759.9 | 760.6 | 755.9 |
| | 27 | 757.3 | 753.5 | 750.9 | 742.0 | 742.8 | 748.0 | 753.0 | 753.4 | 757.0 | 760.3 | 763.2 | 763.0 |
| | 28 | 760.0 | 757.4 | 751.4 | 743.5 | 744.2 | 746.0 | 751.4 | 753.3 | 758.0 | 763.9 | 756.7 | 760.2 |
| | 29 | 761.4 | 760.5 | 757.4 | 752.3 | 749.0 | 748.0 | 751.3 | 755.4 | 762.1 | 771.6 | 773.8 | 773.9 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 729.53 | 728.86 | 724.53 | 719.88 | 716.68 | 715.91 | 719.57 | 723.31 | 729.55 | 731.94 | 732.10 | 731.12 |

| TEMPERATURE OF THE BILIFAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|
| APRIL. | 1 | 41.4 | 41.5 | 42.5 | 42.4 | 43.3 | 44.6 | 45.4 | 46.4 | 47.2 | 47.1 | 47.6 | 47.9 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 40.8 | 40.7 | 41.8 | 43.4 | 44.6 | 46.2 | 47.6 | 49.5 | 50.5 | 51.6 | 52.7 | 53.5 |
| | 4 | 44.5 | 44.5 | 44.5 | 44.4 | 44.9 | 45.7 | 47.0 | 47.2 | 46.8 | 46.8 | 46.7 | 46.5 |
| | 5 | 45.8 | 45.5 | 47.0 | 48.0 | 49.5 | 50.8 | 51.5 | 52.0 | 52.5 | 53.0 | 53.4 | 53.5 |
| | 6 | 49.6 | 49.6 | 50.6 | 51.5 | 52.0 | 52.7 | 53.0 | 53.2 | 53.0 | 52.6 | 52.8 | 53.1 |
| | 7 | 46.7 | 46.0 | 46.5 | 47.0 | 48.0 | 48.6 | 49.2 | 49.9 | 50.4 | 50.8 | 51.2 | 51.0 |
| | 8 | 49.0 | 49.0 | 49.5 | 49.6 | 50.7 | 51.6 | 52.8 | 52.9 | 53.4 | 53.8 | 53.6 | 53.7 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 44.5 | 44.4 | 44.8 | 45.2 | 46.4 | 46.8 | 47.4 | 47.9 | 48.6 | 49.8 | 50.7 | 50.9 |
| | 11 | 46.3 | 46.0 | 46.6 | 47.8 | 49.4 | 50.1 | 50.6 | 50.8 | 51.0 | 51.4 | 52.5 | 53.5 |
| | 12 | 48.0 | 48.5 | 49.7 | 50.5 | 51.8 | 53.0 | 54.2 | 55.3 | 56.3 | 57.4 | 58.2 | 58.8 |
| | 13 | 50.4 | 50.0 | 51.2 | 51.6 | 51.9 | 52.4 | 52.7 | 52.8 | 53.0 | 53.0 | 52.8 | 52.8 |
| | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 52.8 | 52.8 | 52.8 | 52.9 | 53.8 | 55.2 | 56.0 | 56.8 | 57.5 | 58.5 | 58.9 | 58.9 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 50.0 | 50.6 | 51.2 | 52.4 | 53.2 | 53.6 | 53.6 | 53.8 | 53.8 | 53.8 | 53.6 | 53.3 |
| | 18 | 50.0 | 49.4 | 49.0 | 48.5 | 48.5 | 48.4 | 48.4 | 48.2 | 48.4 | 48.4 | 48.4 | 48.5 |
| | 19 | 47.5 | 47.0 | 47.0 | 47.0 | 47.5 | 48.5 | 49.5 | 50.5 | 51.4 | 51.5 | 51.6 | 51.5 |
| | 20 | 53.5 | 53.3 | 53.0 | 52.8 | 52.8 | 53.5 | 54.0 | 54.4 | 55.2 | 56.0 | 56.6 | 57.3 |
| | 21 | 51.6 | 52.5 | 53.7 | 55.5 | 56.8 | 57.4 | 58.0 | 58.7 | 59.4 ^b | 60.2 | 60.9 | 61.2 |
| | 22 | 56.5 | 56.8 | 57.2 | 57.6 | 58.5 | 59.0 | 59.5 | 59.5 | 59.4 | 59.2 | 59.0 | 59.0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 59.5 | 59.3 | 60.0 | 60.0 | 60.0 | 60.0 | 69.4 | 60.7 | 61.3 | 61.8 | 62.0 | 62.0 |
| | 25 | 57.5 | 57.2 | 57.0 | 57.0 | 57.5 | 58.2 | 58.5 | 58.8 | 58.9 | 59.2 | 59.8 | 60.0 |
| | 26 | 56.6 | 56.4 | 56.4 | 56.5 | 57.0 | 58.0 | 58.5 | 59.2 | 60.0 | 60.3 | 61.0 | 61.0 |
| | 27 | 57.0 | 57.0 | 56.6 | 56.5 | 56.4 | 56.5 | 56.8 | 57.1 | 58.1 | 59.1 | 59.6 | 59.8 |
| | 28 | 57.0 | 57.0 | 57.5 | 58.7 | 60.0 | 60.7 | 61.5 | 61.9 | 63.5 | 64.8 | 65.3 | 65.2 |
| | 29 | 58.0 | 57.3 | 56.8 | 56.0 | 55.6 | 55.5 | 55.5 | 55.6 | 54.4 | 54.5 | 55.0 | 54.5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 50.60 | 50.51 | 50.95 | 51.37 | 52.09 | 52.79 | 53.40 | 53.88 | 54.33 | 54.78 | 55.16 | 55.31 |

^a Good Friday.

HORIZONTAL FORCE.

One Scale Division = '000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 708·2 | Sc. Div. 697·0 | Sc. Div. 690·5 | Sc. Div. 696·9 | Sc. Div. 697·6 | Sc. Div. 700·7 | — | — | — | — | — | — | Sc. Div. 700·31 |
| — | — | — | — | — | — | 701·0 | 702·0 | 705·1 | 706·8 | 708·3 | 708·2 | 708·2 |
| 702·2 | 699·8 | 702·0 | 700·8 | 701·5 | 703·0 | 702·0 | 703·4 | 703·0 | 704·7 | 705·8 | 709·0 | 702·98 |
| 717·0 | 717·0 | 713·0 | 709·2 | 709·1 | 709·0 | 706·8 | 709·2 | 707·8 | 714·4 | 715·4 | 721·0 | 707·55 |
| 690·3 | 693·2 | 659·2 | 679·5 | 669·0 | 665·3 | 659·6 | 634·8 | 644·0 | 645·4 | 664·9 | 679·1 | 679·10 |
| 688·2 | 688·4 | 657·7 | 667·7 | 689·2 | 694·5 | 689·9 | 689·8 | 692·6 | 692·5 | 695·9 | 697·0 | 687·64 |
| 699·7 | 698·3 | 705·1 | 697·2 | 724·8 | 707·0 | 690·5 | 695·8 | 694·6 | 694·0 | 703·8 | 707·0 | 700·14 |
| 701·5 | 694·8 | 697·1 | 710·9 | 705·4 | 705·0 | — | — | — | — | — | — | 704·44 |
| — | — | — | — | — | — | 708·6 | 718·9 | 710·1 | 711·9 | 713·0 | 717·5 | 715·46 |
| 721·0 | 717·5 | 715·0 | 714·6 | 717·1 | 717·5 | 717·2 | 718·4 | 719·2 | 719·2 | 722·1 | 716·0 | 718·04 |
| 719·7 | 717·7 | 716·1 | 716·9 | 722·7 | 722·2 | 719·1 | 728·6 | 718·6 | 718·9 | 715·9 | 722·2 | 710·00 |
| 711·1 | 697·8 | 700·5 | 702·0 | 709·1 | 715·8 | 714·4 | 713·0 | 708·0 | 717·0 | 718·3 | 717·0 | 716·74 |
| 717·1 | 718·0 | 715·3 | 725·5 | 719·6 | 620·4 ^b | — | — | — | — | — | — | 716·74 |
| — | — | — | — | — | — | 720·2 | 715·9 | 712·3 | 711·8 | 723·7 | 717·8 | 723·00 |
| 718·3 | 722·0 | 721·1 | 718·4 | 719·3 | 720·4 | — | — | — | — | — | — | 723·00 |
| — | — | — | — | — | — | 734·2 | 733·7 | 732·0 | 729·3 | 733·7 | 736·5 | 733·55 |
| 740·7 | 739·7 | 732·5 | 737·1 | 733·1 | 733·1 | 738·6 | 733·0 | 731·0 | 726·6 | 733·0 | 743·0 | 740·68 |
| 738·3 | 740·4 | 738·3 | 735·9 | 741·5 | 746·5 | 743·4 | 742·6 | 745·4 | 744·4 | 744·8 | 744·0 | 742·08 |
| 745·6 | 744·6 | 744·2 | 742·6 | 744·6 | 744·3 | 746·2 | 740·8 | 740·6 | 739·8 | 741·1 | 740·6 | 738·15 |
| 735·0 | 733·0 | 738·7 | 737·7 | 737·5 | 738·0 | 740·1 | 739·1 | 740·4 | 741·4 | 743·8 | 742·5 | 737·99 |
| 738·2 | 735·8 | 736·8 | 735·5 | 736·0 | 736·8 | 737·8 | 737·4 | 739·2 | 740·1 | 741·0 | 742·5 | 743·47 |
| 742·9 | 737·5 | 742·0 | 744·0 | 744·4 | 744·5 | — | — | — | — | — | — | 743·47 |
| — | — | — | — | — | — | 743·5 | 744·0 | 746·6 | 746·8 | 747·0 | 747·0 | 746·12 |
| 747·9 | 744·2 | 745·5 | 746·2 | 747·9 | 746·8 | 747·0 | 749·2 | 748·0 | 751·0 | 753·0 | 754·0 | 753·33 |
| 758·2 | 754·9 | 752·0 | 754·5 | 753·6 | 756·2 | 753·8 | 754·0 | 753·5 | 751·7 | 754·6 | 757·0 | 754·70 |
| 753·5 | 756·4 | 756·8 | 757·0 | 757·0 | 756·6 | 758·0 | 758·7 | 758·0 | 755·9 | 757·0 | 758·0 | 756·19 |
| 758·1 | 758·0 | 758·2 | 758·1 | 758·7 | 758·2 | 760·0 | 760·9 | 758·1 | 757·2 | 759·3 | 759·5 | 756·21 |
| 759·0 | 760·8 | 757·1 | 757·8 | 757·8 | 758·4 | 757·6 | 758·4 | 757·9 | 756·0 | 759·9 | 762·3 | 765·61 |
| 771·9 | 769·7 | 767·6 | 765·8 | 765·0 | 761·6 | — | — | — | — | — | — | 765·61 |
| — | — | — | — | — | — | 775·0 | 775·5 | 776·4 | 776·5 | 776·0 | 777·0 | 726·37 |
| 728·48 | 726·52 | 723·43 | 725·49 | 727·56 | 727·58 | 727·69 | 727·38 | 726·77 | 727·22 | 730·47 | 732·32 | 726·37 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 47·2 | 47·3 | 47·0 | 46·5 | 46·0 | 45·8 | — | — | — | — | — | — | 44·56 |
| — | — | — | — | — | — | 43·0 | 42·5 | 42·0 | 42·0 | 41·5 | 41·3 | 47·90 |
| 54·0 | 53·0 | 52·4 | 51·0 | 50·0 | 49·0 | 58·0 | 47·4 | 46·3 | 45·6 | 45·3 | 44·6 | 46·09 |
| 46·5 | 46·5 | 46·5 | 46·6 | 46·4 | 46·6 | 46·6 | 46·4 | 46·5 | 46·3 | 46·0 | 45·7 | 51·02 |
| 53·5 | 53·5 | 52·9 | 52·5 | 52·2 | 51·9 | 51·4 | 51·0 | 51·0 | 50·8 | 50·7 | 50·5 | 51·28 |
| 53·2 | 52·5 | 51·8 | 51·8 | 52·0 | 52·0 | 51·0 | 50·2 | 49·2 | 48·3 | 47·6 | 47·5 | 49·12 |
| 50·5 | 50·4 | 50·1 | 49·6 | 49·5 | 49·5 | 49·2 | 49·0 | 49·0 | 49·2 | 49·0 | 48·7 | 50·27 |
| 53·0 | 52·5 | 52·3 | 52·0 | 51·8 | 52·0 | — | — | — | — | — | — | 48·06 |
| — | — | — | — | — | — | 46·2 | 46·0 | 45·6 | 45·4 | 45·2 | 44·9 | 50·65 |
| 51·1 | 50·5 | 50·0 | 49·8 | 49·8 | 49·6 | 48·8 | 48·0 | 47·5 | 47·4 | 47·1 | 46·5 | 54·04 |
| 54·4 | 54·4 | 53·6 | 52·9 | 52·5 | 52·3 | 51·5 | 51·0 | 50·2 | 59·6 | 49·0 | 48·3 | 52·32 |
| 58·9 | 58·1 | 57·2 | 56·5 | 55·4 | 54·8 | 54·0 | 53·2 | 52·5 | 52·0 | 51·5 | 51·2 | 55·06 |
| 52·5 | 52·4 | 52·0 | 52·0 | 51·7 | 51·4 | — | — | — | — | — | — | 52·23 |
| — | — | — | — | — | — | 53·2 | 53·2 | 53·2 | 53·2 | 53·2 | 53·0 | 48·19 |
| 59·0 | 58·5 | 58·3 | 58·0 | 57·1 | 56·5 | — | — | — | — | — | — | 51·26 |
| — | — | — | — | — | — | 52·5 | 51·8 | 51·2 | 50·7 | 50·5 | 50·4 | 54·62 |
| 52·8 | 52·4 | 52·2 | 51·8 | 51·8 | 51·5 | 51·5 | 51·5 | 51·6 | 51·6 | 51·3 | 50·5 | 57·94 |
| 48·4 | 48·0 | 48·0 | 47·8 | 47·7 | 47·6 | 47·6 | 47·3 | 47·5 | 47·6 | 47·5 | 47·5 | 58·54 |
| 51·6 | 51·8 | 52·2 | 52·6 | 53·1 | 53·9 | 54·3 | 54·5 | 54·2 | 53·8 | 53·9 | 53·9 | 60·20 |
| 57·5 | 57·2 | 56·6 | 56·4 | 55·8 | 55·2 | 54·5 | 54·0 | 53·6 | 53·0 | 52·6 | 52·0 | 57·98 |
| 61·0 | 60·8 | 60·5 | 60·2 | 59·2 | 58·8 | 58·6 | 57·7 | 57·5 | 57·1 | 56·8 | 56·5 | 59·18 |
| 58·5 | 58·0 | 57·5 | 57·2 | 57·1 | 57·0 | — | — | — | — | — | — | 58·19 |
| — | — | — | — | — | — | 60·2 | 60·0 | 59·6 | 59·6 | 59·6 | 59·5 | 61·63 |
| 61·6 | 61·4 | 61·0 | 60·7 | 60·4 | 60·0 | 59·8 | 59·6 | 59·4 | 58·4 | 57·9 | 57·5 | 53·66 |
| 59·8 | 59·0 | 58·4 | 57·7 | 57·2 | 57·0 | 56·9 | 56·8 | 56·7 | 56·4 | 57·0 | 57·0 | 53·08 |
| 61·0 | 61·0 | 60·9 | 60·7 | 60·4 | 60·2 | 60·2 | 60·0 | 59·6 | 59·2 | 58·5 | 57·8 | — |
| 60·4 | 60·5 | 60·1 | 59·5 | 59·2 | 59·2 | 58·8 | 58·2 | 58·0 | 57·5 | 57·4 | 57·3 | — |
| 65·2 | 65·0 | 64·2 | 63·5 | 63·0 | 62·5 | 62·0 | 61·5 | 61·0 | 59·7 | 59·5 | 59·0 | — |
| 54·0 | 54·0 | 53·6 | 53·4 | 53·2 | 53·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50·1 | 49·8 | 49·6 | 49·5 | 49·5 | 49·5 | — |
| 55·23 | 54·95 | 54·55 | 54·20 | 53·85 | 53·64 | 52·91 | 52·53 | 52·19 | 51·83 | 51·59 | 51·27 | 53·08 |

^b Three minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = '000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°, = '00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| | 1 | 776.2 | 775.4 | 768.5 | 765.5 | 757.9 | 763.0 | 767.8 | 770.7 | 778.3 | 783.7 | 785.2 | 778.7 |
| | 2 | 783.5 | 783.0 | 778.7 | 772.0 | 767.5 | 765.8 | 767.7 | 771.9 | 777.1 | 778.5 | 781.0 | 782.0 |
| | 3 | 786.5 | 787.1 | 782.6 | 774.8 | 767.4 | 773.1 | 775.9 | 782.0 | 784.6 | 785.2 | 784.2 | 780.7 |
| | 4 | 786.8 | 783.8 | 780.4 | 775.3 | 774.3 | 776.1 | 776.4 | 784.2 | 782.9 | 785.3 | 785.8 | 787.9 |
| | 5 | 788.3 | 786.8 | 783.3 | 776.5 | 774.3 | 775.5 | 778.0 | 783.9 | 785.4 | 790.8 | 790.9 | 792.3 |
| | 6 | 794.0 | 795.0 | 793.9 | 783.0 | 783.0 | 788.3 | 787.3 | 789.1 | 791.3 | 792.3 | 859.6 | 951.8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 765.5 | 766.5 | 765.1 | 764.6 | 766.0 | 767.0 | 770.0 | 773.9 | 779.2 | 769.5 | 771.1 | 772.1 |
| | 9 | 768.0 | 770.0 | 771.7 | 761.8 | 759.7 | 768.6 | 770.3 | 775.5 | 770.0 | 774.4 | 780.6 | 472.2 |
| | 10 | 777.5 | 770.8 | 762.7 | 760.3 | 758.8 | 774.5 | 769.0 | 776.7 | 780.0 | 768.9 | 772.8 | 780.7 |
| | 11 | 772.5 | 772.3 | 773.0 | 768.4 | 767.0 | 767.5 | 769.0 | 777.2 | 776.2 | 775.4 | 776.4 | 775.2 |
| | 12 | 770.0 | 777.5 | 773.2 | 775.0 | 772.0 | 773.1 | 778.0 | 781.2 | 783.8 | 782.7 | 777.1 | 779.8 |
| | 13 | 778.0 | 777.8 | 774.5 | 770.5 | 772.0 | 769.8 | 772.9 | 777.3 | 781.1 | 783.8 | 783.5 | 782.1 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 787.9 | 793.0 | 796.3 | 790.6 | 784.8 | 784.3 | 783.0 | 802.5 | 791.2 | 777.5 | 771.4 | 782.2 |
| | 16 | 788.3 | 791.0 | 786.6 | 778.8 | 778.6 | 787.6 | 786.5 | 781.0 | 781.2 | 781.4 | 791.1 | 791.0 |
| | 17 | 796.3 | 793.5 | 788.5 | 783.0 | 784.5 | 792.0 | 792.9 | 795.1 | 801.0 | 797.8 | 802.0 | 802.6 |
| | 18 | 807.0 | 806.5 | 803.6 | 798.9 | 795.6 | 795.0 | 798.0 | 804.1 | 805.6 | 811.2 | 809.9 | 809.5 |
| | 19 | 806.0 | 803.0 | 800.8 | 798.3 | 799.1 | 800.3 | 801.1 | 804.9 | 805.2 | 804.9 | 805.6 | 804.3 |
| | 20 | 811.5 | 812.0 | 806.4 | 800.0 | 896.5 | 799.0 | 802.0 | 802.6 | 803.3 | 810.2 | 809.5 | 809.9 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 814.0 | 812.3 | 807.9 | 807.5 | 807.0 | 807.0 | 811.0 | 816.3 | 822.1 | 821.6 | 818.2 | 816.6 |
| | 23 | 811.8 | 810.8 | 809.3 | 808.1 | 812.5 | 819.3 | 825.0 | 819.9 | 820.2 | 818.2 | 817.9 | 817.1 |
| | 24 | 815.8 | 812.0 | 808.3 | 803.4 | 798.0 | 800.5 | 805.8 | 810.0 | 818.0 | 819.5 | 820.0 | 818.0 |
| | 25 | 816.5 | 815.5 | 810.9 | 802.0 | 800.0 | 803.0 | 808.0 | 816.7 | 823.1 | 819.7 | 821.0 | 819.1 |
| | 26 | 821.8 | 817.0 | 812.9 | 806.5 | 804.0 | 800.0 | 804.0 | 806.4 | 814.7 | 834.2 | 819.5 | 804.7 |
| | 27 | 809.9 | 808.9 | 807.9 | 803.3 | 804.3 | 807.9 | 815.4 | 819.0 | 825.2 | 823.6 | 819.6 | 822.4 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 824.0 | 831.0 | 824.3 | 825.3 | 821.5 ^a | 811.0 | 812.5 | 818.2 | 824.1 | 824.1 | 822.0 | 829.9 |
| | 30 | 824.0 | 823.5 | 821.0 | 815.0 | 813.0 ^b | 813.8 | 815.0 | 816.3 | 820.6 | 823.7 | 824.9 | 825.8 |
| 31 | 834.5 | 830.0 | 824.8 | 818.5 | 814.3 | 815.1 | 819.1 | 825.0 | 834.9 | 835.9 | 836.0 | 833.8 | |
| Hourly Means | 796.89 | 796.52 | 793.23 | 788.40 | 786.57 | 788.82 | 791.17 | 795.61 | 798.53 | 799.04 | 801.36 | 804.53 | |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| MAY. | 1 | 49.0 | 49.0 | 49.5 | 49.8 | 50.3 | 49.4 | 49.0 | 49.6 | 48.4 | 48.8 | 47.8 | 47.9 |
| | 2 | 48.5 | 49.0 | 49.0 | 46.9 | 47.0 | 46.4 | 46.5 | 49.2 | 50.4 | 50.6 | 50.6 | 51.4 |
| | 3 | 49.0 | 50.0 | 50.4 | 52.4 | 53.5 | 54.5 | 55.0 | 55.3 | 55.8 | 56.1 | 57.0 | 57.0 |
| | 4 | 52.5 | 52.2 | 52.4 | 52.4 | 52.3 | 52.5 | 53.0 | 53.0 | 53.0 | 53.5 | 53.7 | 53.2 |
| | 5 | 49.6 | 50.2 | 51.0 | 52.0 | 51.7 | 51.5 | 51.3 | 51.2 | 50.6 | 51.2 | 51.7 | 51.9 |
| | 6 | 49.6 | 49.6 | 49.6 | 50.3 | 50.5 | 52.0 | 52.5 | 53.2 | 54.2 | 55.2 | 56.2 | 56.5 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 55.0 | 55.4 | 55.5 | 55.5 | 55.6 | 56.3 | 56.7 | 57.3 | 57.8 | 58.4 | 58.4 | 58.1 |
| | 9 | 54.5 | 54.5 | 56.3 | 57.4 | 58.0 | 57.6 | 58.5 | 58.5 | 58.9 | 59.3 | 59.8 | 59.9 |
| | 10 | 56.5 | 56.5 | 57.0 | 57.5 | 57.7 | 58.0 | 58.4 | 58.5 | 58.8 | 59.0 | 58.8 | 58.6 |
| | 11 | 57.5 | 58.2 | 59.0 | 59.8 | 60.5 | 61.0 | 61.5 | 61.6 | 62.0 | 62.6 | 63.0 | 63.0 |
| | 12 | 58.2 | 58.6 | 59.0 | 60.5 | 61.4 | 61.9 | 62.3 | 62.6 | 63.2 | 63.9 | 64.2 | 64.5 |
| | 13 | 59.5 | 59.5 | 59.5 | 60.5 | 61.5 | 62.5 | 63.4 | 63.8 | 64.8 | 65.5 | 66.5 | 66.2 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 63.0 | 63.5 | 64.5 | 66.5 | 67.0 | 67.4 | 67.5 | 67.6 | 67.8 | 68.0 | 68.3 | 69.0 |
| | 16 | 62.5 | 63.0 | 63.5 | 64.0 | 64.0 | 64.0 | 63.9 | 63.7 | 63.9 | 64.5 | 65.0 | 65.6 |
| | 17 | 57.5 | 58.5 | 59.0 | 59.5 | 60.0 | 60.0 | 60.2 | 60.2 | 60.4 | 60.4 | 60.3 | 60.4 |
| | 18 | 54.5 | 55.5 | 56.5 | 57.7 | 58.5 | 58.5 | 58.5 | 58.6 | 58.9 | 59.3 | 59.7 | 59.9 |
| | 19 | 54.5 | 54.5 | 55.0 | 56.0 | 56.6 | 57.2 | 58.0 | 58.6 | 59.2 | 59.8 | 60.0 | 60.2 |
| | 20 | 53.0 | 54.0 | 55.0 | 56.6 | 57.6 | 58.5 | 59.0 | 59.2 | 59.8 | 50.6 | 61.3 | 61.8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 56.5 | 56.6 | 57.0 | 57.5 | 58.0 | 58.5 | 58.6 | 58.9 | 59.2 | 59.4 | 59.8 | 59.6 |
| | 23 | 57.0 | 57.5 | 58.0 | 58.2 | 59.0 | 59.4 | 59.6 | 60.0 | 60.4 | 60.6 | 61.3 | 61.4 |
| | 24 | 55.2 | 56.0 | 57.0 | 57.9 | 58.3 | 58.7 | 58.8 | 59.5 | 60.0 | 61.4 | 62.5 | 63.4 |
| | 25 | 56.0 | 56.5 | 57.4 | 59.0 | 59.6 | 60.0 | 60.4 | 60.5 | 60.9 | 60.9 | 62.0 | 62.4 |
| | 26 | 57.2 | 57.0 | 57.0 | 57.5 | 58.0 | 58.3 | 58.4 | 59.2 | 59.4 | 59.6 | 59.8 | 59.7 |
| | 27 | 58.6 | 58.4 | 58.3 | 58.3 | 58.5 | 58.8 | 59.8 | 59.5 | 59.6 | 59.6 | 59.4 | 59.4 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 56.0 | 56.5 | 58.0 | 58.5 | 59.6 ^a | 60.2 | 60.4 | 60.6 | 61.0 | 61.3 | 62.1 | 62.9 |
| | 30 | 56.5 | 57.0 | 58.4 | 59.5 | 60.2 ^b | 60.2 | 60.3 | 59.7 | 58.7 | 57.8 | 57.0 | 56.7 |
| | 31 | 52.0 | 52.5 | 53.0 | 52.9 | 52.8 | 52.7 | 52.7 | 53.0 | 53.3 | 53.5 | 53.5 | 53.9 |
| Hourly Means | 55.16 | 55.54 | 56.14 | 56.82 | 57.32 | 57.63 | 57.93 | 58.24 | 58.53 | 58.92 | 59.25 | 59.43 | |

^a Three minutes late.

^b Five minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| One Scale Division = '000099 parts of the H. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fah°. = '00027. | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 775·6 | 779·4 | 780·6 | 777·0 | 771·0 | 775·6 | 779·5 | 779·2 | 778·8 | 776·0 | 778·8 | 778·5 | 775·04 |
| 782·5 | 782·6 | 783·3 | 783·6 | 782·0 | 780·5 | 778·5 | 777·2 | 779·5 | 783·2 | 785·0 | 785·8 | 778·85 |
| 777·9 | 779·2 | 779·5 | 780·0 | 779·6 | 780·5 | 781·6 | 782·2 | 783·9 | 784·5 | 785·4 | 786·4 | 781·03 |
| 786·0 | 784·2 | 782·8 | 783·2 | 784·8 | 783·0 | 785·0 | 786·5 | 786·0 | 785·6 | 787·5 | 788·0 | 783·41 |
| 790·8 | 790·0 | 789·1 | 789·1 | 789·2 | 789·5 | 789·2 | 789·8 | 789·1 | 791·7 | 792·0 | 793·0 | 787·06 |
| 921·6 | 769·1 | 740·9 | 741·9 | 738·0 | 780·8 | — | — | — | — | — | — | 790·06 |
| — | — | — | — | — | — | 759·0 | 761·9 | 762·2 | 762·4 | 760·3 | 755·3 | 779·06 |
| 772·4 | 762·8 | 755·2 | 757·3 | 758·2 | 759·5 | 753·6 | 766·3 | 763·9 | 771·7 | 773·8 | 772·0 | 766·55 |
| 773·9 | 773·3 | 772·7 | 779·8 | 771·0 | 768·7 | 770·9 | 770·0 | 769·4 | 775·1 | 776·1 | 777·5 | 771·72 |
| 787·6 | 776·6 | 769·1 | 779·8 | 775·9 | 754·0 | 778·6 | 778·1 | 776·2 | 775·7 | 776·7 | 775·8 | 773·20 |
| 776·9 | 770·3 | 768·0 | 771·1 | 771·1 | 773·4 | 775·6 | 775·9 | 776·6 | 777·5 | 779·9 | 775·0 | 773·39 |
| 779·4 | 776·6 | 772·3 | 775·1 | 772·5 | 776·2 | 771·4 | 776·5 | 773·8 | 773·0 | 780·7 | 780·8 | 776·37 |
| 776·5 | 778·4 | 775·9 | 776·0 | 776·3 | 780·0 | — | — | — | — | — | — | 779·96 |
| — | — | — | — | — | — | 789·9 | 790·6 | 788·1 | 789·3 | 788·2 | 786·5 | 779·96 |
| 786·2 | 787·5 | 779·7 | 767·1 | 778·5 | 777·0 | 764·0 | 767·1 | 784·5 | 787·1 | 779·7 | 782·4 | 782·73 |
| 793·9 | 782·4 | 783·8 | 790·8 | 793·7 | 780·7 | 786·8 | 788·4 | 794·7 | 791·5 | 794·1 | 790·1 | 787·25 |
| 803·9 | 801·8 | 792·9 | 792·7 | 791·7 | 791·2 | 799·0 | 795·5 | 801·1 | 799·6 | 799·0 | 801·8 | 795·81 |
| 805·4 | 803·7 | 801·7 | 801·5 | 801·2 | 802·0 | 801·0 | 800·5 | 800·0 | 802·9 | 804·1 | 808·0 | 803·20 |
| 803·9 | 804·1 | 802·5 | 804·0 | 807·9 | 806·2 | 804·8 | 805·4 | 805·9 | 804·9 | 806·9 | 810·3 | 804·18 |
| 810·0 | 803·4 | 804·2 | 804·6 | 805·0 | 803·6 | — | — | — | — | — | — | 805·91 |
| — | — | — | — | — | — | 807·0 | 807·8 | 808·0 | 808·3 | 807·0 | 810·0 | 805·91 |
| 813·2 | 812·8 | 810·2 | 810·5 | 810·2 | 810·1 | 810·2 | 810·2 | 810·5 | 809·6 | 810·0 | 811·0 | 812·08 |
| 811·9 | 810·1 | 809·2 | 804·4 | 805·3 | 808·8 | 810·0 | 811·3 | 811·9 | 811·0 | 809·8 | 815·0 | 812·87 |
| 812·4 | 814·7 | 815·0 | 813·1 | 812·0 | 811·8 | 813·0 | 813·5 | 811·4 | 815·8 | 815·0 | 817·0 | 812·25 |
| 813·2 | 814·8 | 815·6 | 816·4 | 816·2 | 816·2 | 816·1 | 818·1 | 818·8 | 816·7 | 816·0 | 814·0 | 814·69 |
| 825·0 | 813·5 | 811·0 | 810·4 | 814·9 | 818·9 | 820·0 | 819·0 | 818·8 | 819·0 | 817·8 | 810·8 | 814·37 |
| 818·0 | 817·5 | 812·9 | 816·2 | 818·0 | 816·5 | — | — | — | — | — | — | 816·96 |
| — | — | — | — | — | — | 821·0 | 821·9 | 824·0 | 823·0 | 824·7 | 826·0 | 816·96 |
| 812·9 | 815·0 | 816·2 | 818·5 | 820·9 | 821·0 | 809·1 | 817·2 | 818·0 | 818·1 | 820·3 | 821·5 | 819·86 |
| 827·0 | 825·8 | 827·0 | 827·9 | 825·0 | 825·0 | 825·1 | 825·6 | 826·9 | 828·7 | 828·7 | 831·3 | 823·36 |
| 832·8 | 831·8 | 834·1 | 834·0 | 835·5 | 835·0 | 833·5 | 833·2 | 836·2 | 834·0 | 836·0 | 841·0 | 830·79 |
| 802·62 | 794·87 | 792·05 | 792·81 | 792·80 | 793·54 | 793·83 | 795·14 | 796·23 | 796·89 | 797·54 | 798·14 | 795·29 |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 48·0 | 49·2 | 49·5 | 48·8 | 48·6 | 48·6 | 48·6 | 48·5 | 48·3 | 48·3 | 48·5 | 48·3 | 48·40 |
| 51·6 | 52·5 | 52·4 | 52·3 | 52·0 | 52·2 | 52·4 | 50·8 | 49·6 | 49·4 | 49·2 | 48·5 | 49·93 |
| 56·7 | 56·0 | 55·5 | 55·0 | 54·4 | 54·0 | 53·6 | 53·2 | 53·0 | 52·8 | 52·6 | 52·5 | 53·97 |
| 52·8 | 52·4 | 52·0 | 51·5 | 50·7 | 50·6 | 50·1 | 50·0 | 49·6 | 49·3 | 49·5 | 49·8 | 51·75 |
| 51·5 | 51·1 | 50·7 | 50·8 | 50·2 | 50·3 | 50·2 | 50·0 | 49·6 | 49·0 | 49·6 | 49·9 | 50·70 |
| 56·9 | 57·2 | 57·1 | 57·0 | 56·6 | 56·6 | — | — | — | — | — | — | 54·43 |
| — | — | — | — | — | — | 56·2 | 56·2 | 56·2 | 55·8 | 55·5 | 55·5 | 54·43 |
| 58·3 | 57·8 | 57·6 | 57·3 | 57·1 | 56·6 | 56·2 | 55·6 | 55·0 | 54·4 | 54·5 | 53·8 | 56·42 |
| 59·9 | 60·0 | 60·0 | 59·4 | 58·6 | 58·3 | 57·7 | 57·8 | 57·2 | 57·0 | 56·9 | 56·6 | 58·02 |
| 58·4 | 58·0 | 58·2 | 58·0 | 58·0 | 57·9 | 57·7 | 57·4 | 57·3 | 57·3 | 57·4 | 57·3 | 57·84 |
| 63·1 | 62·8 | 62·3 | 62·0 | 61·5 | 61·0 | 60·4 | 59·8 | 59·4 | 58·8 | 58·5 | 58·0 | 60·72 |
| 64·3 | 63·5 | 63·2 | 63·0 | 62·6 | 62·0 | 61·4 | 60·9 | 60·7 | 60·5 | 60·1 | 59·7 | 61·76 |
| 66·2 | 65·8 | 65·6 | 65·2 | 64·9 | 64·4 | — | — | — | — | — | — | 63·69 |
| — | — | — | — | — | — | 64·4 | 64·0 | 64·0 | 64·0 | 63·6 | 63·2 | 63·69 |
| 69·4 | 69·5 | 69·0 | 67·4 | 66·6 | 65·8 | 65·2 | 65·0 | 64·1 | 63·4 | 62·9 | 62·4 | 66·26 |
| 65·6 | 65·3 | 64·2 | 63·0 | 61·9 | 60·6 | 60·0 | 59·4 | 58·7 | 58·2 | 58·0 | 57·4 | 62·50 |
| 60·5 | 60·1 | 59·4 | 58·9 | 58·7 | 58·0 | 56·8 | 56·5 | 55·2 | 55·2 | 55·2 | 54·0 | 58·53 |
| 60·5 | 60·4 | 60·3 | 59·2 | 58·4 | 57·5 | 56·9 | 56·6 | 56·4 | 55·5 | 55·2 | 54·5 | 57·81 |
| 60·2 | 59·6 | 59·2 | 58·3 | 57·6 | 57·0 | 56·1 | 55·5 | 54·8 | 54·4 | 53·6 | 53·0 | 57·04 |
| 61·9 | 61·5 | 61·1 | 60·8 | 60·2 | 60·0 | — | — | — | — | — | — | 58·66 |
| — | — | — | — | — | — | 58·6 | 58·4 | 57·9 | 57·4 | 57·0 | 56·7 | 58·66 |
| 59·4 | 59·0 | 58·6 | 58·4 | 58·2 | 58·0 | 57·7 | 57·5 | 57·4 | 57·5 | 57·4 | 57·2 | 58·16 |
| 61·1 | 60·6 | 59·9 | 59·4 | 58·8 | 58·0 | 57·5 | 57·0 | 56·4 | 56·0 | 55·6 | 54·5 | 58·63 |
| 63·8 | 63·7 | 62·9 | 61·8 | 60·4 | 59·6 | 58·8 | 58·4 | 58·1 | 57·2 | 56·9 | 56·4 | 59·45 |
| 62·4 | 61·8 | 61·4 | 60·6 | 60·0 | 59·4 | 58·7 | 58·6 | 58·2 | 57·8 | 57·6 | 57·0 | 59·55 |
| 59·3 | 59·0 | 59·2 | 59·4 | 59·5 | 59·5 | 59·7 | 59·5 | 59·4 | 59·0 | 59·2 | 59·2 | 58·87 |
| 59·4 | 59·2 | 58·8 | 58·6 | 58·2 | 58·2 | — | — | — | — | — | — | 58·61 |
| — | — | — | — | — | — | 59·0 | 58·8 | 58·2 | 57·7 | 56·9 | 55·5 | 58·61 |
| 63·2 | 62·9 | 62·3 | 61·8 | 61·0 | 60·4 | 59·2 | 58·6 | 58·2 | 57·6 | 57·0 | 56·0 | 59·80 |
| 56·4 | 55·8 | 55·4 | 55·2 | 54·8 | 54·2 | 53·6 | 52·9 | 52·7 | 52·3 | 51·9 | 51·5 | 56·20 |
| 53·6 | 52·9 | 52·4 | 52·1 | 51·7 | 51·4 | 51·0 | 50·4 | 49·8 | 49·5 | 49·5 | 49·5 | 52·07 |
| 59·42 | 59·17 | 58·82 | 58·34 | 57·82 | 57·41 | 56·95 | 56·57 | 56·13 | 55·75 | 55·55 | 55·11 | 57·41 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = $\cdot 000099$ parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah $^{\circ}$ = $\cdot 00027$. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JUNE. | 1 | 841.0 | 841.0 | 839.0 | 833.0 | 829.2 | 830.9 | 833.4 | 833.4 | 838.5 | 838.2 | 842.4 | 840.0 |
| | 2 | 837.0 | 838.0 | 833.4 | 838.5 | 837.5 | 837.3 | 836.9 | 837.3 | 845.6 | 845.1 | 850.5 | 835.8 |
| | 3 | 833.8 | 828.3 | 828.2 | 822.6 | 819.3 | 819.4 | 819.6 | 824.5 | 829.6 | 836.1 | 834.7 | 835.7 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 830.0 | 825.8 | 824.7 | 820.0 | 815.5 | 817.0 | 826.3 | 833.8 | 837.1 | 836.0 | 833.0 | 830.8 |
| | 6 | 834.1 | 833.1 | 833.0 | 825.8 | 822.8 | 824.0 | 825.6 | 828.4 | 829.8 | 835.9 | 833.7 | 834.1 |
| | 7 | 836.5 | 834.4 | 829.4 | 826.5 | 822.5 | 823.5 | 829.8 | 829.5 | 837.4 | 826.9 | 842.0 | 848.3 |
| | 8 | 831.1 | 830.8 | 827.8 | 820.4 | 818.3 | 821.3 | 831.8 | 831.3 | 833.0 | 838.0 | 835.0 | 834.5 |
| | 9 | 831.0 | 828.0 | 827.0 | 826.0 | 827.5 | 827.4 | 828.0 | 828.0 | 829.0 | 831.8 | 829.5 | 826.5 |
| | 10 | 834.6 | 836.5 | 835.3 | 832.4 | 831.0 | 832.8 | 831.3 | 838.1 | 845.2 | 828.4 | 845.8 | 845.1 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 844.0 | 837.0 | 837.0 | 831.8 | 830.0 | 827.9 | 835.5 | 840.6 | 844.1 | 841.6 | 841.5 | 832.9 |
| | 13 | 835.3 | 829.3 | 825.9 | 827.9 | 830.8 | 825.5 ^c | 818.0 | 835.9 | 830.9 | 834.3 | 833.6 | 841.9 |
| | 14 | 841.8 | 840.8 | 838.0 | 830.6 | 821.5 | 822.1 | 831.0 | 835.3 | 837.3 | 838.9 | 838.2 | 830.5 |
| | 15 | 834.5 | 842.8 | 841.5 | 836.0 | 833.9 | 837.5 | 840.5 | 841.8 | 847.9 | 851.1 | 851.2 | 845.8 |
| | 16 | 846.0 | 847.0 | 840.9 | 833.9 | 829.4 | 828.9 | 836.0 | 841.5 | 844.2 | 847.2 | 852.0 | 849.5 |
| | 17 | 852.0 | 851.0 | 847.2 | 840.8 | 838.0 | 836.9 | 837.8 | 844.2 | 852.2 | 847.2 | 847.5 | 848.0 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 852.0 | 850.8 | 845.9 | 840.5 | 839.5 | 838.0 | 842.0 | 844.0 | 854.1 | 858.1 | 859.1 | 853.8 |
| | 20 | 848.0 | 845.8 | 844.1 | 841.0 | 838.5 | 842.0 | 846.2 | 850.8 | 854.9 | 852.9 | 849.9 | 851.0 |
| | 21 | 850.0 | 841.0 | 838.0 | 836.1 | 835.0 | 837.0 | 836.0 | 841.4 | 844.5 | 847.5 | 842.8 | 835.4 |
| | 22 | 844.0 | 843.3 | 840.9 | 835.8 | 835.1 | 834.9 | 839.0 | 343.1 | 846.2 | 846.0 | 844.0 | 847.8 |
| | 23 | 843.3 | 839.8 | 838.3 | 836.6 | 835.0 | 837.8 | 840.0 | 844.4 | 850.5 | 854.3 | 853.1 | 850.9 |
| | 24 | 850.0 | 850.3 | 846.5 | 842.0 | 841.8 | 847.1 | 849.6 | 850.1 | 854.0 | 859.6 | 859.6 | 856.8 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 858.0 | 858.0 | 855.1 | 850.0 | 842.8 | 841.0 | 846.0 | 850.5 | 851.4 | 854.6 | 854.8 | 856.5 |
| | 27 | 856.0 | 855.3 | 852.5 | 850.0 | 847.0 | 850.0 | 857.0 | 862.4 | 863.6 | 863.4 | 863.9 | 858.0 |
| | 28 | 856.0 | 853.1 | 848.5 | 851.5 | 855.8 | 856.0 | 854.0 | 863.3 | 866.9 | 864.4 | 860.2 | 856.0 |
| | 29 | 862.0 | 860.3 | 863.1 | 860.1 | 853.5 | 851.3 | 854.5 | 862.0 | 873.0 | 872.2 | 875.6 | 869.0 |
| | 30 | 862.5 | 859.5 | 857.0 | 851.0 | 841.6 | 839.6 | 849.6 | 851.2 | 863.1 | 848.0 | 859.7 | 880.5 |
| Hourly Means | 844.02 | 842.35 | 839.93 | 836.18 | 833.57 | 834.12 | 837.44 | 841.80 | 846.31 | 846.06 | 847.43 | 845.97 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|------|
| JUNE. | 1 | 49.0 | 49.0 | 49.5 | 50.4 | 50.7 | 51.4 | 51.9 | 52.3 | 53.2 | 53.5 | 54.0 | 53.7 |
| | 2 | 49.0 | 49.2 | 49.4 | 49.5 | 50.0 | 51.0 | 51.9 | 52.2 | 53.0 | 53.4 | 53.6 | 53.5 |
| | 3 | 51.7 | 51.7 | 52.0 | 53.0 | 53.9 | 54.6 | 55.5 | 55.8 | 56.0 | 56.4 | 56.6 | 56.8 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 53.8 | 53.5 | 53.5 | 53.5 | 53.5 | 54.0 | 55.0 | 55.1 | 55.3 | 55.6 | 56.0 | 56.2 |
| | 6 | 53.8 | 54.0 | 54.0 | 54.3 | 55.4 | 56.5 | 57.4 | 57.8 | 58.0 | 58.0 | 58.0 | 58.2 |
| | 7 | 54.0 | 55.0 | 55.8 | 56.5 | 57.7 | 58.3 | 58.6 | 59.3 | 60.2 | 60.4 | 60.5 | 60.2 |
| | 8 | 57.0 | 57.0 | 57.5 | 57.5 | 57.7 | 57.5 | 57.8 | 57.9 | 58.0 | 58.0 | 58.3 | 58.4 |
| | 9 | 58.5 | 59.0 | 59.5 | 60.7 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 67.5 | 68.0 | 68.6 |
| | 10 | 60.6 | 60.4 | 60.5 | 60.1 | 60.0 | 60.3 | 60.0 | 60.8 | 61.1 | 61.0 | 61.0 | 60.8 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 57.6 | 58.5 | 59.5 | 60.6 | 61.0 | 62.0 | 62.4 | 62.9 | 63.6 | 64.4 | 65.6 | 66.0 |
| | 13 | 60.7 | 61.6 | 62.0 | 62.0 | 62.5 | 63.0 ^c | 63.2 | 63.3 | 63.5 | 64.0 | 64.5 | 64.4 |
| | 14 | 60.5 | 61.5 | 62.5 | 63.3 | 64.0 | 64.0 | 64.2 | 64.4 | 64.6 | 65.1 | 65.6 | 66.0 |
| | 15 | 60.0 | 60.4 | 61.0 | 62.3 | 62.3 | 62.3 | 62.5 | 62.0 | 62.0 | 62.2 | 62.8 | 63.0 |
| | 16 | 58.8 | 58.8 | 58.8 | 59.0 | 59.6 | 60.5 | 61.0 | 61.3 | 61.7 | 62.4 | 63.1 | 63.4 |
| | 17 | 58.8 | 59.5 | 60.4 | 61.8 | 62.3 | 62.8 | 63.0 | 63.4 | 63.5 | 64.0 | 64.5 | 64.6 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 60.0 | 61.0 | 62.2 | 63.2 | 64.2 | 64.6 | 65.1 | 65.6 | 66.0 | 66.6 | 66.8 | 67.2 |
| | 20 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 67.6 | 68.2 | 69.2 | 70.2 | 71.0 | 71.5 |
| | 21 | 66.0 | 66.5 | 67.3 | 68.0 | 69.0 | 70.0 | 71.0 | 71.8 | 73.0 | 74.0 | 74.5 | 74.8 |
| | 22 | 69.8 | 70.7 | 72.0 | 72.3 | 72.8 | 73.5 | 74.0 | 74.5 | 75.0 | 76.5 | 76.6 | 76.9 |
| | 23 | 70.5 | 70.5 | 70.7 | 71.2 | 71.5 | 71.5 | 71.5 | 71.7 | 72.0 | 72.4 | 72.9 | 73.6 |
| | 24 | 69.5 | 69.5 | 69.2 | 69.1 | 69.0 | 69.2 | 69.5 | 69.8 | 70.5 | 71.5 | 72.7 | 73.5 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 66.0 | 67.0 | 67.5 | 68.4 | 69.4 | 69.5 | 70.0 | 70.2 | 71.1 | 71.9 | 72.8 | 73.5 |
| | 27 | 69.5 | 70.5 | 71.6 | 72.5 | 73.0 | 74.0 | 74.8 | 75.6 | 76.4 | 76.8 | 76.8 | 76.8 |
| | 28 | 71.5 | 71.5 | 71.5 | 71.5 | 71.7 | 72.2 | 72.2 | 72.8 | 73.6 | 74.4 | 74.9 | 75.2 |
| | 29 | 70.3 | 70.5 | 70.7 | 71.0 | 71.5 | 72.0 | 72.5 | 73.4 | 73.7 | 74.1 | 75.0 | 75.0 |
| | 30 | 70.5 | 71.0 | 72.0 | 72.5 | 72.5 | 73.2 | 73.8 | 74.5 | 75.4 | 76.2 | 76.8 | 77.0 |
| Hourly Means | 61.13 | 61.57 | 62.10 | 62.66 | 63.25 | 63.80 | 64.28 | 64.72 | 65.25 | 65.79 | 66.27 | 66.49 | |

^a Three minutes late.

^b Four minutes late.

^c Five minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|---|-------------------|-------------------|--------------------|--------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| One Scale Division = '000099 parts of the H. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fah. = '00027. | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 838·6 | 836·0 | 835·9 | 835·7 | 836·0 | 835·9 | 835·5 | 839·1 | 839·0 | 838·1 | 834·7 | 833·0 | 836·56 |
| 831·9 | 837·8 | 840·0 | 834·0 | 833·1 | 827·3 | 824·7 | 831·1 | 829·8 | 822·8 | 819·8 | 832·5 | 834·90 |
| 843·0 | 817·1 | 817·1 | 810·8 ^a | 812·3 | 822·3 | — | — | — | — | — | — | 826·30 |
| — | — | — | — | — | — | 827·7 | 827·2 | 832·5 | 829·7 | 829·6 | 830·0 | 829·57 |
| 827·6 | 830·6 | 834·5 | 834·0 | 833·9 | 824·6 | 829·0 | 831·9 | 830·9 | 831·5 | 833·7 | 837·5 | 829·57 |
| 834·4 | 830·0 | 834·8 | 826·7 | 822·0 | 826·9 | 830·4 | 829·4 | 829·5 | 830·2 | 831·4 | 836·0 | 830·08 |
| 831·4 | 824·0 | 827·9 | 820·7 | 813·5 | 825·9 | 814·6 | 825·1 | 823·7 | 829·0 | 825·0 | 828·3 | 828·16 |
| 831·5 | 831·2 | 833·0 | 833·3 | 834·8 | 835·8 | 831·3 | 828·1 | 828·6 | 829·0 | 831·1 | 831·3 | 830·51 |
| 823·6 | 825·5 | 824·7 | 826·9 | 827·2 | 828·9 | 832·8 | 831·8 | 831·4 | 840·8 | 842·8 | 827·1 | 829·30 |
| 830·0 | 843·1 | 833·1 | 838·5 | 839·1 | 838·5 | — | — | — | — | — | — | 836·45 |
| — | — | — | — | — | — | 838·5 | 836·0 | 837·3 | 834·4 | 839·0 | 830·9 | 836·45 |
| 846·1 | 831·2 | 832·8 | 829·1 | 830·4 ^b | 830·6 | 836·2 | 834·7 | 832·3 | 833·6 | 834·7 | 831·0 | 835·27 |
| 839·1 | 838·6 | 841·0 | 837·9 | 840·2 | 838·6 | 838·0 | 838·6 | 838·3 | 836·7 | 837·7 | 836·0 | 834·58 |
| 838·3 | 836·8 | 835·8 | 835·9 | 839·8 | 839·8 | 838·3 | 839·0 | 833·8 | 836·1 | 838·1 | 832·0 | 835·40 |
| 843·9 | 843·1 | 840·5 | 842·6 | 840·8 | 838·1 | 839·0 | 842·3 | 840·1 | 841·2 | 843·0 | 843·0 | 841·75 |
| 844·0 | 845·2 | 846·5 | 845·0 | 842·6 | 843·8 | 844·5 | 845·3 | 845·0 | 845·9 | 846·2 | 848·5 | 843·29 |
| 848·0 | 846·0 | 845·0 | 843·8 | 844·2 | 844·9 | — | — | — | — | — | — | 845·57 |
| — | — | — | — | — | — | 845·0 | 846·2 | 847·5 | 847·0 | 845·2 | 848·0 | 845·57 |
| 851·6 | 847·0 | 843·2 | 843·0 | 844·2 | 844·0 | 845·2 | 847·0 | 847·2 | 847·6 | 847·8 | 850·0 | 847·31 |
| 847·3 | 842·9 | 841·5 | 841·7 | 841·9 | 841·0 | 841·0 | 843·3 | 843·2 | 842·9 | 843·3 | 845·0 | 845·01 |
| 840·9 | 835·5 | 839·4 | 840·2 | 841·5 | 838·7 | 839·9 | 839·8 | 840·9 | 839·2 | 842·0 | 843·0 | 840·16 |
| 840·5 | 842·2 | 839·8 | 844·9 | 846·8 | 845·0 | 842·7 | 843·2 | 843·2 | 845·0 | 842·7 | 844·4 | 842·52 |
| 848·8 | 846·9 | 851·8 | 849·2 | 848·1 | 847·0 | 847·4 | 847·2 | 848·0 | 848·2 | 848·3 | 850·0 | 846·04 |
| 853·5 | 853·7 | 852·2 | 848·5 | 850·0 | 850·8 | — | — | — | — | — | — | 850·93 |
| — | — | — | — | — | — | 846·8 | 848·0 | 850·8 | 851·6 | 851·1 | 858·0 | 850·93 |
| 856·5 | 857·0 | 855·4 | 853·6 | 854·3 | 854·0 | 854·2 | 854·8 | 853·8 | 854·2 | 855·5 | 856·0 | 853·25 |
| 858·5 | 854·0 | 857·8 | 854·5 | 854·5 | 855·8 | 853·5 | 855·0 | 853·8 | 854·2 | 854·9 | 854·0 | 855·81 |
| 855·0 | 858·8 | 858·0 | 858·3 | 860·0 | 861·4 | 863·9 | 864·8 | 864·0 | 858·8 | 861·1 | 860·0 | 858·74 |
| 864·5 | 859·0 | 863·4 | 859·0 | 852·0 | 855·8 | 858·8 | 859·8 | 859·8 | 857·0 | 859·0 | 860·0 | 861·03 |
| 861·1 | 853·6 | 847·2 | 848·6 | 845·0 | 845·8 | 838·1 | 835·9 | 852·9 | 853·7 | 854·5 | 854·5 | 852·26 |
| 843·45 | 841·22 | 841·24 | 839·86 | 839·55 | 840·05 | 839·88 | 840·95 | 841·44 | 841·48 | 842·01 | 842·31 | 841·19 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 53·7 | 53·5 | 53·1 | 52·8 | 52·4 | 52·1 | 51·5 | 51·0 | 50·6 | 50·4 | 50·4 | 49·5 | 51·65 |
| 52·9 | 52·0 | 51·8 | 51·6 | 51·4 | 51·6 | 52·0 | 52·1 | 52·1 | 52·1 | 52·0 | 52·0 | 51·64 |
| 56·4 | 56·6 | 56·6 | 56·4 ^a | 56·0 | 57·7 | — | — | — | — | — | — | 54·88 |
| — | — | — | — | — | — | 53·6 | 53·8 | 53·8 | 54·2 | 54·2 | 53·8 | 54·72 |
| 56·2 | 55·8 | 55·4 | 55·2 | 55·0 | 54·6 | 54·6 | 54·5 | 54·4 | 54·4 | 54·2 | 54·0 | 54·72 |
| 57·8 | 57·4 | 57·2 | 56·8 | 56·4 | 56·1 | 55·5 | 55·1 | 54·7 | 54·5 | 54·3 | 53·6 | 56·03 |
| 60·1 | 59·7 | 59·4 | 59·2 | 59·0 | 58·6 | 58·3 | 58·2 | 58·2 | 57·8 | 57·4 | 57·0 | 58·31 |
| 58·6 | 58·5 | 58·6 | 58·6 | 58·6 | 58·4 | 58·7 | 58·2 | 58·0 | 58·4 | 58·5 | 58·5 | 58·09 |
| 68·6 | 68·5 | 67·6 | 67·1 | 66·9 | 65·7 | 64·6 | 64·0 | 63·4 | 62·8 | 62·0 | 61·5 | 64·56 |
| 60·5 | 60·1 | 60·0 | 59·8 | 59·5 | 58·8 | — | — | — | — | — | — | 59·68 |
| — | — | — | — | — | — | 58·6 | 58·4 | 58·0 | 57·4 | 57·4 | 57·0 | 59·68 |
| 66·2 | 65·6 | 65·2 | 64·4 | 63·5 ^b | 63·0 | 62·4 | 61·8 | 61·0 | 60·8 | 60·6 | 60·5 | 62·46 |
| 64·4 | 64·5 | 64·4 | 64·2 | 63·8 | 63·4 | 63·0 | 62·6 | 62·2 | 61·8 | 61·2 | 60·8 | 62·96 |
| 66·8 | 66·8 | 65·8 | 65·2 | 64·5 | 63·5 | 62·6 | 62·4 | 61·0 | 60·4 | 60·0 | 59·5 | 63·51 |
| 62·8 | 62·7 | 62·6 | 61·9 | 61·4 | 61·0 | 60·6 | 60·0 | 59·7 | 59·4 | 59·2 | 59·2 | 61·39 |
| 63·6 | 63·7 | 63·4 | 63·0 | 62·8 | 61·8 | 61·0 | 60·4 | 60·0 | 59·0 | 58·6 | 58·2 | 61·00 |
| 65·2 | 65·4 | 64·8 | 64·3 | 63·6 | 63·2 | — | — | — | — | — | — | 62·64 |
| — | — | — | — | — | — | 63·0 | 62·4 | 61·6 | 61·0 | 60·5 | 59·5 | 62·64 |
| 67·2 | 66·9 | 66·2 | 66·0 | 65·7 | 65·2 | 65·0 | 63·8 | 63·3 | 63·0 | 62·5 | 61·5 | 64·53 |
| 71·4 | 71·2 | 70·5 | 69·6 | 69·2 | 68·7 | 68·2 | 67·5 | 67·1 | 66·7 | 66·2 | 66·0 | 67·79 |
| 74·8 | 74·6 | 73·8 | 73·5 | 73·1 | 72·6 | 72·4 | 72·4 | 72·0 | 71·5 | 70·5 | 69·5 | 71·52 |
| 76·4 | 75·5 | 75·2 | 75·0 | 74·4 | 74·0 | 73·4 | 72·6 | 72·3 | 71·6 | 71·4 | 70·5 | 73·62 |
| 74·1 | 73·6 | 73·5 | 73·2 | 72·8 | 72·2 | 71·7 | 71·1 | 70·7 | 70·4 | 70·0 | 69·5 | 71·78 |
| 73·8 | 73·8 | 73·3 | 72·6 | 72·0 | 71·5 | — | — | — | — | — | — | 70·17 |
| — | — | — | — | — | — | 67·6 | 68·4 | 67·8 | 67·6 | 66·7 | 66·0 | 70·17 |
| 73·4 | 73·8 | 73·5 | 72·8 | 72·4 | 71·8 | 71·6 | 71·0 | 70·5 | 70·0 | 69·5 | 69·0 | 70·69 |
| 76·4 | 76·2 | 75·6 | 75·4 | 75·2 | 75·0 | 74·2 | 73·8 | 73·5 | 73·0 | 72·7 | 71·4 | 74·20 |
| 74·9 | 74·2 | 74·0 | 73·7 | 73·2 | 72·8 | 72·5 | 72·0 | 71·8 | 71·3 | 71·2 | 70·2 | 72·70 |
| 75·0 | 74·8 | 74·5 | 74·4 | 74·0 | 73·5 | 72·8 | 72·4 | 71·8 | 71·1 | 70·5 | 70·5 | 72·71 |
| 77·4 | 77·2 | 77·0 | 76·2 | 75·6 | 75·1 | 74·5 | 74·4 | 74·2 | 74·0 | 73·4 | 73·4 | 74·49 |
| 66·48 | 66·25 | 65·88 | 65·50 | 65·09 | 64·69 | 64·00 | 63·63 | 63·22 | 62·88 | 62·50 | 62·00 | 64·14 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = .000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JULY. | 1 | 856.8 | 856.5 | 852.0 | 845.9 | 836.9 | 835.5 | 844.4 | 839.3 | 848.8 | 863.8 | 863.5 | 858.8 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 875.2 | 877.1 | 867.5 | 863.8 | 853.8 | 852.6 | 855.7 | 867.3 | 873.9 | 884.4 | 882.3 | 883.8 |
| | 4 | 874.8 | 875.0 | 873.6 | 873.4 | 870.0 | 866.6 | 867.0 | 872.0 | 878.4 | 878.3 | 889.6 | 886.2 |
| | 5 | 876.0 | 873.0 | 870.4 | 866.5 | 865.7 | 870.0 | 875.9 | 883.1 | 892.5 | 892.8 | 891.1 | 893.0 |
| | 6 | 885.6 | 886.0 | 882.0 | 878.0 | 877.2 | 874.9 | 877.3 | 877.6 | 882.2 | 884.5 | 887.1 | 884.0 |
| | 7 | 883.0 | 883.0 | 880.0 | 879.0 | 875.4 | 878.3 | 884.5 | 884.2 | 886.1 | 885.3 | 887.9 | 892.6 |
| | 8 | 887.6 | 887.3 | 891.3 | 877.2 | 867.8 | 864.4 | 878.3 | 884.1 | 885.3 | 884.1 | 889.1 | 884.0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 890.0 | 892.4 | 876.3 | 877.6 | 876.8 | 870.8 | 876.9 | 871.9 | 884.5 | 887.9 | 891.3 | 891.9 |
| | 11 | 888.0 | 882.0 | 883.9 | 885.5 | 878.7 | 877.0 | 880.7 | 884.6 | 885.0 | 894.0 | 891.2 | 902.7 |
| | 12 | 895.3 | 892.5 | 889.9 | 888.3 | 886.3 | 890.9 | 896.0 | 896.0 | 896.5 | 897.1 | 897.1 | 894.4 |
| | 13 | 890.0 | 896.0 | 893.0 | 887.3 | 886.0 | 888.5 | 886.0 | 888.3 | 890.3 | 899.6 | 896.1 | 884.8 |
| | 14 | 893.0 | 885.3 | 890.6 | 885.8 | 885.0 | 876.5 | 876.9 | 881.7 | 887.9 | 894.7 | 899.7 | 900.2 |
| | 15 | 895.0 | 887.3 | 890.9 | 891.0 | 883.4 | 883.2 | 882.0 | 886.1 | 887.3 | 890.1 | 899.6 | 907.9 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 896.9 | 894.9 | 886.1 | 887.7 | 892.8 | 893.8 | 893.7 | 895.0 | 896.6 | 897.0 | 896.2 | 894.3 |
| | 18 | 901.2 | 897.9 | 892.6 | 886.9 | 883.9 | 886.4 | 892.1 | 900.1 | 901.4 | 904.8 | 904.2 | 899.9 |
| | 19 | 898.9 | 900.5 | 898.9 | 896.1 | 892.4 | 890.4 | 890.4 | 900.4 | 900.4 | 908.0 | 909.4 | 904.5 |
| | 20 | 909.4 | 908.7 | 904.8 | 903.0 | 896.3 | 895.8 | 901.4 | 905.0 | 908.0 | 913.7 | 915.1 | 912.8 |
| | 21 | 909.0 | 909.0 | 908.0 | 905.0 | 902.3 | 902.0 | 906.0 | 906.4 | 914.3 | 912.1 | 919.7 | 918.7 |
| | 22 | 912.0 | 910.0 | 910.0 | 905.0 | 903.0 | 910.0 | 912.0 | 912.3 | 911.2 | 909.8 | 910.8 | 905.0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 910.3 | 909.0 | 909.4 | 910.0 | 904.8 | 905.8 | 905.0 | 916.4 | 909.6 | 918.7 | 900.3 | 905.3 |
| | 25 | 889.3 | 872.0 | 867.8 | 872.9 | 862.4 | 865.2 | 891.2 | 912.5 | 927.2 | 943.3 | 929.6 | 924.7 |
| | 26 | 901.0 | 899.3 | 888.9 | 893.0 | 891.8 | 900.8 | 904.9 | 916.0 | 911.9 | 906.9 | 905.6 | 905.0 |
| | 27 | 902.5 | 903.5 | 898.0 | 894.4 | 892.5 | 899.9 | 902.3 | 899.3 | 910.4 | 919.6 | 920.0 | 919.1 |
| | 28 | 909.3 | 901.0 | 905.6 | 900.0 | 913.9 | 915.3 | 912.8 | 916.2 | 920.6 | 921.2 | 920.4 | 908.2 |
| | 29 | 915.1 | 914.3 | 910.0 | 899.5 | 899.3 | 900.8 | 901.5 | 904.2 | 920.9 | 926.4 | 916.2 | 925.3 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 915.0 | 927.8 | 923.9 | 923.0 | 921.1 | 919.9 | 917.9 | 924.3 | 927.2 | 930.6 | 933.8 | 931.6 |
| Hourly Means | 894.62 | 893.13 | 890.21 | 887.53 | 884.60 | 885.20 | 888.95 | 893.24 | 897.92 | 901.93 | 901.62 | 900.82 | |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| JULY. | 1 | 73.5 | 74.0 | 75.0 | 76.2 | 76.8 | 77.4 | 78.2 | 79.2 | 79.8 | 80.4 | 81.3 | 81.1 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 68.2 | 68.8 | 69.5 | 69.8 | 68.4 | 68.0 | 68.4 | 68.5 | 68.8 | 68.7 | 69.2 | 69.9 |
| | 4 | 65.5 | 65.5 | 65.5 | 66.9 | 67.6 | 68.0 | 68.5 | 68.8 | 69.2 | 69.5 | 69.8 | 62.6 |
| | 5 | 66.8 | 66.6 | 67.6 | 68.5 | 68.6 | 69.5 | 69.5 | 69.5 | 69.5 | 69.9 | 70.5 | 71.0 |
| | 6 | 65.4 | 66.0 | 67.0 | 67.8 | 68.5 | 69.5 | 69.5 | 69.7 | 70.4 | 70.8 | 71.5 | 71.8 |
| | 7 | 66.3 | 66.0 | 66.0 | 67.0 | 67.0 | 68.2 | 68.5 | 68.8 | 69.6 | 70.5 | 71.5 | 72.1 |
| | 8 | 67.5 | 68.0 | 69.0 | 70.0 | 70.8 | 72.0 | 72.3 | 72.6 | 73.5 | 75.0 | 75.2 | 75.6 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 69.4 | 69.8 | 69.8 | 69.8 | 70.6 | 71.2 | 71.9 | 72.5 | 73.0 | 73.5 | 73.5 | 73.5 |
| | 11 | 65.4 | 65.4 | 67.0 | 67.5 | 68.1 | 67.7 | 67.0 | 67.5 | 68.0 | 67.4 | 68.4 | 69.0 |
| | 12 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 67.5 | 68.2 | 68.6 | 69.2 | 69.8 | 70.6 | 71.0 |
| | 13 | 63.0 | 64.6 | 65.0 | 66.5 | 67.5 | 68.5 | 69.0 | 69.6 | 70.2 | 70.8 | 71.3 | 71.5 |
| | 14 | 66.2 | 67.0 | 67.6 | 68.5 | 70.0 | 71.0 | 71.8 | 72.4 | 73.2 | 74.0 | 74.5 | 74.8 |
| | 15 | 69.5 | 69.5 | 69.3 | 69.2 | 69.4 | 69.6 | 70.5 | 70.8 | 71.6 | 71.8 | 72.2 | 72.6 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 70.0 | 69.8 | 69.7 | 69.5 | 69.4 | 69.7 | 70.4 | 71.5 | 72.5 | 73.5 | 73.8 | 73.8 |
| | 18 | 71.5 | 71.8 | 73.8 | 74.0 | 74.5 | 74.8 | 75.5 | 76.2 | 77.0 | 77.6 | 78.0 | 78.6 |
| | 19 | 71.4 | 71.2 | 70.8 | 71.2 | 71.5 | 71.5 | 71.6 | 71.6 | 72.2 | 72.2 | 72.3 | 72.6 |
| | 20 | 66.0 | 66.5 | 67.5 | 68.1 | 68.5 | 68.8 | 69.0 | 68.8 | 69.0 | 69.3 | 69.8 | 70.2 |
| | 21 | 65.0 | 65.4 | 66.3 | 67.0 | 67.5 | 67.6 | 68.4 | 68.8 | 69.5 | 70.0 | 70.6 | 71.2 |
| | 22 | 66.0 | 67.0 | 68.0 | 69.0 | 69.7 | 70.4 | 71.0 | 71.8 | 72.8 | 73.8 | 74.5 | 74.5 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 71.5 | 71.4 | 71.4 | 71.8 | 72.4 | 72.8 | 73.4 | 73.6 | 74.5 | 75.5 | 75.8 | 76.8 |
| | 25 | 68.6 | 69.4 | 70.3 | 71.5 | 72.2 | 72.3 | 72.2 | 72.5 | 73.0 | 73.6 | 74.3 | 74.5 |
| | 26 | 69.3 | 69.9 | 70.9 | 71.5 | 72.2 | 73.0 | 74.0 | 74.5 | 75.4 | 76.4 | 76.5 | 76.5 |
| | 27 | 71.0 | 71.6 | 72.6 | 73.5 | 74.0 | 74.2 | 74.4 | 74.5 | 74.8 | 74.8 | 74.8 | 74.8 |
| | 28 | 69.6 | 70.0 | 71.0 | 71.7 | 72.5 | 73.5 | 74.5 | 74.5 | 76.6 | 76.8 | 76.4 | 76.1 |
| | 29 | 72.5 | 72.5 | 72.3 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.3 | 72.4 | 72.5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 65.5 | 66.5 | 67.0 | 68.0 | 68.7 | 68.8 | 69.0 | 69.3 | 69.6 | 69.6 | 69.8 | 70.2 |
| Hourly Means | 67.98 | 68.39 | 69.03 | 69.71 | 70.21 | 70.67 | 71.10 | 71.52 | 72.11 | 72.60 | 73.02 | 73.26 | |

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| One Scale Division = ·000099 parts of the H. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fahr. = ·00027. | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 866·0 | 848·7 | 847·0 | 853·3 | 844·6 | 849·9 | — | — | — | — | — | — | 855·43 |
| — | — | — | — | — | — | 867·0 | 867·6 | 865·0 | 873·9 | 874·0 | 871·2 | 872·74 |
| 880·5 | 870·8 | 875·0 | 882·0 | 872·5 | 872·4 | 875·4 | 875·0 | 873·5 | 879·0 | 876·2 | 876·0 | 876·58 |
| 887·3 | 884·9 | 874·0 | 878·4 | 875·0 | 880·4 | 871·5 | 870·9 | 877·5 | 878·0 | 877·9 | 877·1 | 880·26 |
| 880·4 | 880·4 | 877·2 | 879·8 | 880·0 | 880·6 | 881·1 | 882·9 | 884·2 | 882·9 | 881·9 | 884·9 | 882·32 |
| 885·8 | 883·0 | 884·8 | 886·9 | 884·3 | 884·0 | 883·9 | 882·2 | 881·0 | 881·2 | 880·8 | 881·3 | 880·49 |
| 879·8 | 904·5 | 879·3 | 863·4 | 876·0 | 874·7 | 883·8 | 860·7 | 876·2 | 882·7 | 878·2 | 873·2 | 882·11 |
| 881·5 | 875·3 | 874·4 | 879·2 | 878·5 | 881·5 | — | — | — | — | — | — | 883·80 |
| — | — | — | — | — | — | 884·8 | 888·1 | 889·3 | 892·6 | 885·9 | 879·1 | 889·72 |
| 884·8 | 879·9 | 883·6 | 882·6 | 886·8 | 886·2 | 888·1 | 887·2 | 885·2 | 890·3 | 885·0 | 883·3 | 892·86 |
| 905·5 | 884·4 | 891·1 | 889·5 | 892·3 | 892·8 | 893·0 | 894·6 | 893·4 | 894·1 | 894·3 | 895·0 | 891·92 |
| 895·1 | 894·9 | 887·5 | 883·8 | 892·8 | 891·2 | 892·0 | 895·5 | 893·4 | 893·9 | 894·2 | 894·1 | 889·90 |
| 896·4 | 896·4 | 895·8 | 895·2 | 887·4 | 886·4 | 884·7 | 895·7 | 895·0 | 895·0 | 896·1 | 896·0 | 893·69 |
| 895·6 | 896·7 | 890·3 | 890·7 | 893·0 | 883·4 | 888·5 | 892·5 | 893·0 | 890·6 | 892·6 | 893·5 | 895·38 |
| 898·0 | 898·6 | 896·3 | 893·0 | 892·4 | 888·7 | — | — | — | — | — | — | 895·63 |
| — | — | — | — | — | — | 898·1 | 897·6 | 903·2 | 900·7 | 899·0 | 899·1 | 900·77 |
| 895·2 | 897·0 | 898·4 | 898·4 | 895·9 | 892·1 | 896·1 | 896·8 | 899·0 | 897·2 | 898·3 | 899·7 | 907·30 |
| 895·9 | 894·0 | 893·3 | 892·3 | 893·0 | 896·9 | 893·7 | 895·9 | 896·6 | 895·0 | 897·5 | 899·5 | 909·57 |
| 901·3 | 901·7 | 901·6 | 900·6 | 895·0 | 893·5 | 899·9 | 903·4 | 905·6 | 905·9 | 906·0 | 906·9 | 908·26 |
| 910·9 | 910·6 | 906·2 | 905·0 | 905·9 | 908·4 | 906·4 | 907·4 | 908·0 | 910·8 | 912·6 | 909·1 | 904·67 |
| 914·0 | 912·9 | 912·6 | 911·0 | 905·2 | 908·1 | 908·9 | 908·3 | 909·7 | 911·1 | 907·4 | 908·0 | 893·49 |
| 910·0 | 905·5 | 904·1 | 908·0 | 907·9 | 908·6 | — | — | — | — | — | — | 900·35 |
| — | — | — | — | — | — | 907·0 | 907·2 | 910·2 | 904·5 | 905·2 | 909·0 | 905·72 |
| 916·1 | 908·0 | 902·1 | 897·8 | 909·8 | 909·1 | 908·6 | 907·0 | 892·1 | 889·5 | 885·9 | 881·4 | 910·76 |
| 894·5 | 889·8 | 882·9 | 872·7 | 878·6 | 892·2 | 895·5 | 891·5 | 900·1 | 896·0 | 893·0 | 898·9 | 914·01 |
| 899·6 | 894·3 | 895·0 | 897·1 | 898·6 | 908·9 | 901·0 | 890·6 | 898·1 | 902·4 | 898·6 | 899·0 | 926·19 |
| 910·6 | 907·3 | 897·4 | 895·7 | 895·9 | 907·2 | 908·8 | 909·3 | 909·7 | 910·3 | 912·5 | 911·0 | 894·00 |
| 910·1 | 910·8 | 912·4 | 910·0 | 913·7 | 905·8 | 905·6 | 907·8 | 908·9 | 909·4 | 909·9 | 909·0 | — |
| 933·0 | 917·1 | 912·1 | 910·8 | 912·4 | 921·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 912·4 | 911·6 | 914·4 | 918·6 | 919·4 | 920·0 | — |
| 928·2 | 928·9 | 822·3 | 927·8 | 920·6 | 929·8 | 933·0 | 925·4 | 927·8 | 926·0 | 926·6 | 927·0 | — |
| 898·31 | 895·25 | 892·18 | 891·73 | 892·20 | 893·61 | 894·97 | 894·33 | 895·77 | 896·60 | 895·72 | 895·47 | 894·00 |

TEMPERATURE OF THE BIFILAR MAGNET.

| ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 80·6 | 80·1 | 79·6 | 79·5 | 79·4 | 79·3 | — | — | — | — | — | — | 76·13 |
| — | — | — | — | — | — | 70·5 | 70·0 | 69·4 | 69·1 | 68·5 | 68·2 | 68·73 |
| 70·4 | 70·6 | 70·5 | 70·0 | 69·6 | 69·2 | 68·5 | 67·8 | 67·4 | 67·1 | 66·8 | 65·5 | 68·13 |
| 69·2 | 68·8 | 68·6 | 68·8 | 68·4 | 68·5 | 68·4 | 68·2 | 68·2 | 68·0 | 67·6 | 66·0 | 68·70 |
| 71·2 | 71·0 | 70·5 | 69·6 | 69·0 | 68·7 | 68·2 | 68·0 | 67·2 | 66·5 | 66·0 | 65·5 | 69·22 |
| 71·8 | 71·6 | 70·8 | 70·2 | 70·0 | 69·5 | 69·1 | 69·0 | 68·6 | 68·5 | 68·2 | 66·0 | 69·16 |
| 72·4 | 71·9 | 71·2 | 71·0 | 70·6 | 70·2 | 69·8 | 69·3 | 68·6 | 68·4 | 68·0 | 67·0 | — |
| 75·7 | 75·0 | 74·2 | 74·0 | 72·6 | 72·2 | — | — | — | — | — | — | 72·02 |
| — | — | — | — | — | — | 71·2 | 71·0 | 71·0 | 70·6 | 70·0 | 69·4 | 70·41 |
| 73·2 | 72·6 | 71·8 | 71·0 | 70·0 | 69·4 | 68·9 | 68·2 | 67·3 | 66·8 | 66·4 | 65·8 | 66·92 |
| 69·4 | 69·0 | 68·8 | 68·2 | 67·8 | 67·2 | 66·4 | 65·6 | 64·9 | 64·0 | 63·5 | 63·0 | 67·51 |
| 71·0 | 70·8 | 70·8 | 69·2 | 68·5 | 68·0 | 67·2 | 66·4 | 65·5 | 65·0 | 64·4 | 63·5 | 68·53 |
| 71·6 | 71·3 | 70·5 | 70·0 | 69·5 | 69·1 | 68·8 | 68·5 | 67·6 | 67·3 | 67·0 | 66·0 | 71·61 |
| 74·8 | 74·4 | 74·0 | 73·6 | 72·8 | 72·5 | 72·0 | 71·5 | 71·1 | 70·7 | 70·2 | 70·0 | — |
| 72·6 | 72·6 | 72·5 | 72·3 | 71·8 | 71·6 | — | — | — | — | — | — | 71·10 |
| — | — | — | — | — | — | 71·6 | 71·5 | 71·4 | 71·2 | 70·8 | 70·4 | 71·52 |
| 73·4 | 73·0 | 72·7 | 72·6 | 72·3 | 72·1 | 71·8 | 71·5 | 71·2 | 71·1 | 70·8 | 70·5 | 75·25 |
| 78·5 | 78·2 | 77·3 | 76·5 | 76·1 | 75·2 | 74·9 | 74·3 | 73·8 | 73·2 | 72·6 | 72·0 | 70·42 |
| 72·6 | 72·1 | 71·3 | 70·9 | 70·2 | 69·5 | 68·6 | 68·0 | 67·5 | 67·0 | 66·6 | 65·6 | 68·15 |
| 70·8 | 70·8 | 70·3 | 69·6 | 69·0 | 68·4 | 67·6 | 66·8 | 66·1 | 65·5 | 64·8 | 64·5 | 68·33 |
| 71·4 | 71·0 | 70·4 | 69·9 | 69·2 | 68·6 | 68·1 | 67·5 | 67·2 | 66·8 | 66·5 | 66·0 | — |
| 74·2 | 74·0 | 73·0 | 72·8 | 72·5 | 72·4 | — | — | — | — | — | — | 71·82 |
| — | — | — | — | — | — | 73·4 | 73·3 | 73·2 | 72·4 | 72·1 | 71·9 | 72·97 |
| 76·8 | 76·3 | 75·2 | 74·1 | 73·4 | 72·6 | 71·8 | 71·2 | 70·7 | 70·2 | 69·5 | 68·6 | 72·10 |
| 74·4 | 74·1 | 73·5 | 73·2 | 73·0 | 72·8 | 72·2 | 71·6 | 71·2 | 70·5 | 70·0 | 69·5 | 73·41 |
| 76·2 | 75·8 | 75·2 | 74·4 | 74·0 | 73·6 | 73·3 | 72·8 | 72·2 | 72·0 | 71·1 | 71·1 | 72·89 |
| 74·8 | 74·4 | 73·6 | 73·1 | 72·6 | 71·9 | 71·6 | 71·2 | 70·9 | 70·4 | 70·0 | 69·8 | 74·26 |
| 76·9 | 76·1 | 75·8 | 75·5 | 75·2 | 75·0 | 74·5 | 74·3 | 74·2 | 74·0 | 73·4 | 72·7 | — |
| 72·8 | 72·8 | 72·4 | 71·7 | 70·6 | 69·8 | — | — | — | — | — | — | 70·72 |
| — | — | — | — | — | — | 68·2 | 67·6 | 67·0 | 66·5 | 66·0 | 65·5 | 67·75 |
| 70·5 | 70·5 | 69·7 | 65·4 | 66·2 | 66·0 | 66·0 | 66·2 | 66·4 | 66·3 | 65·8 | 65·0 | — |
| 73·35 | 73·03 | 72·47 | 71·81 | 71·32 | 70·90 | 70·10 | 69·67 | 69·22 | 68·81 | 68·33 | 67·73 | 70·68 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------------|-------|
| One Scale Division = '000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| AUGUST. | 1 | 926·5 | 927·0 | 923·5 | 921·0 | 920·3 | 920·5 | 922·1 | 928·3 | 936·1 | 944·4 | 943·6 | 935·6 |
| | 2 | 925·0 | 921·8 | 917·0 | 909·0 | 907·7 | 917·0 | 927·2 | 935·8 | 939·1 | 939·7 | 939·0 | 933·2 |
| | 3 | 925·5 | 926·0 | 922·6 | 922·0 | 517·9 | 926·0 | 933·9 | 935·9 | 945·2 | 935·5 | 931·9 | 939·0 |
| | 4 | 908·8 | 906·9 | 911·3 | 914·3 | 912·0 | 913·8 | 917·1 | 930·8 | 937·4 | 925·4 ^a | 924·3 | 919·6 |
| | 5 | 925·0 | 923·0 | 918·6 | 913·3 | 913·5 | 914·0 | 918·3 | 919·8 | 923·8 | 923·4 | 925·1 | 926·0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 924·8 | 025·3 | 919·8 | 913·1 | 915·5 | 920·5 | 921·5 | 921·5 | 924·5 | 927·0 | 026·7 | 930·0 |
| | 8 | 924·0 | 922·8 | 920·9 | 908·3 | 916·3 | 916·5 | 910·4 | 912·3 | 913·1 | 911·8 | 920·0 | 924·6 |
| | 9 | 925·9 | 921·5 | 910·6 | 906·5 | 906·9 | 905·1 | 908·8 | 917·1 | 920·3 | 931·0 | 936·2 | 940·1 |
| | 10 | 927·0 | 922·5 | 915·8 | 905·5 | 906·8 | 913·6 | 916·9 | 929·4 | 930·8 | 930·9 | 933·4 | 933·5 |
| | 11 | 937·3 | 932·0 | 921·6 | 912·8 | 918·6 | 921·9 | 922·3 | 924·7 | 943·6 | 943·3 | 945·5 | 934·8 |
| | 12 | 937·0 | 934·0 | 920·0 | 915·1 | 922·3 | 922·4 | 918·9 | 924·7 | 929·4 | 932·7 | 939·0 | 932·0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 934·0 | 931·3 | 927·0 | 924·0 | 919·0 | 919·3 | 925·0 | 931·1 | 937·8 | 930·0 | 936·5 | 941·0 |
| | 15 | 935·5 | 933·3 | 928·4 | 925·0 | 920·5 | 915·0 | 918·8 | 923·9 | 928·3 | 933·0 | 938·7 | 941·8 |
| | 16 | 936·3 | 940·3 | 935·0 | 927·5 | 923·6 | 923·0 | 927·2 | 937·5 | 936·7 | 942·5 | 942·4 | 942·0 |
| | 17 | 940·5 | 940·0 | 937·0 | 930·3 | 926·0 | 930·5 | 936·0 | 942·3 | 948·5 | 947·9 | 947·0 | 947·2 |
| | 18 | 946·0 | 945·5 | 940·4 | 937·6 | 936·3 | 938·9 | 945·5 | 946·2 | 956·8 | 957·7 | 956·5 | 952·8 |
| | 19 | 949·0 | 948·0 | 941·9 | 941·0 | 938·0 | 941·8 | 944·5 | 949·7 | 949·8 | 949·8 | 945·1 | 949·8 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 950·8 | 947·5 | 941·3 | 937·0 | 938·0 | 943·5 | 948·5 | 953·3 | 958·5 | 962·8 | 958·9 | 958·3 |
| | 22 | 960·0 | 952·5 | 958·5 | 946·3 | 945·1 | 940·5 | 938·3 | 961·6 | 057·4 | 854·0 | 985·1 | 964·2 |
| | 23 | 951·5 | 948·5 | 943·7 | 941·5 | 935·3 | 934·2 | 936·0 | 940·2 | 948·1 | 947·3 | 951·7 | 941·6 |
| | 24 | 945·0 | 947·3 | 942·8 | 945·5 | 939·8 | 946·5 | 949·3 | 950·6 | 957·1 | 953·8 | 951·9 | 950·9 |
| | 25 | 954·9 | 951·6 | 945·4 | 946·5 | 940·8 | 944·8 | 945·6 | 952·7 | 957·0 | 965·5 | 958·4 | 956·6 |
| | 26 | 946·0 | 945·8 | 939·6 | 932·3 | 928·4 | 933·0 | 942·9 | 953·9 | 959·2 | 954·0 | 953·8 | 940·1 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 950·0 | 949·0 | 943·6 | 935·8 | 931·4 | 930·7 | 933·9 | 936·3 | 945·8 | 944·4 | 951·6 | 952·4 |
| | 29 | 954·1 | 954·5 | 949·0 | 942·0 | 936·5 | 934·5 | 941·0 | 947·1 | 951·1 | 956·8 | 957·4 | 955·4 |
| | 30 | 956·6 | 957·5 | 953·0 | 945·5 | 944·0 | 944·0 | 950·0 | 953·6 | 958·8 | 959·5 | 962·6 | 955·7 |
| | 31 | 954·0 | 954·0 | 948·6 | 944·0 | 942·2 | 946·5 | 944·6 | 948·9 | 956·1 | 960·1 | 956·7 | 957·2 |
| Hourly Means | 938·87 | 937·39 | 932·48 | 927·51 | 926·03 | 927·70 | 931·28 | 937·38 | 942·62 | 942·93 | 945·15 | 942·79 | |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| AUGUST. | 1 | 65·5 | 66·0 | 67·0 | 68·0 | 68·4 | 68·8 | 68·5 | 68·2 | 68·2 | 68·5 | 69·0 | 69·6 |
| | 2 | 65·0 | 66·0 | 66·5 | 67·0 | 67·6 | 68·2 | 67·8 | 68·2 | 69·0 | 70·0 | 70·2 | 70·8 |
| | 3 | 65·2 | 66·0 | 66·7 | 68·0 | 68·6 | 70·0 | 70·5 | 71·0 | 71·9 | 72·8 | 73·4 | 74·0 |
| | 4 | 67·0 | 67·5 | 68·5 | 70·0 | 71·0 | 72·0 | 72·5 | 73·4 | 73·6 | 74·3 ^a | 74·5 | 74·8 |
| | 5 | 69·4 | 69·3 | 69·5 | 70·0 | 71·0 | 72·3 | 73·4 | 74·0 | 74·5 | 75·0 | 75·4 | 75·8 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 71·5 | 72·0 | 72·5 | 73·5 | 73·8 | 74·9 | 75·6 | 75·3 | 75·7 | 75·8 | 76·0 | 76·5 |
| | 8 | 71·5 | 71·5 | 71·5 | 71·7 | 72·0 | 72·5 | 73·0 | 73·4 | 73·8 | 74·0 | 74·5 | 74·8 |
| | 9 | 69·6 | 69·5 | 70·0 | 70·5 | 70·5 | 71·1 | 71·5 | 72·3 | 72·6 | 72·9 | 73·1 | 73·0 |
| | 10 | 69·1 | 69·5 | 70·3 | 71·3 | 72·0 | 73·0 | 73·7 | 74·4 | 74·7 | 75·0 | 75·2 | 75·2 |
| | 11 | 69·4 | 69·8 | 70·5 | 71·5 | 72·2 | 73·0 | 73·0 | 73·4 | 73·8 | 74·4 | 75·1 | 75·5 |
| | 12 | 70·0 | 70·0 | 71·0 | 71·6 | 72·8 | 74·0 | 75·0 | 75·4 | 75·9 | 76·4 | 76·6 | 77·0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 72·0 | 72·0 | 72·0 | 72·0 | 72·0 | 72·0 | 72·5 | 73·5 | 74·5 | 75·5 | 76·0 | 76·6 |
| | 15 | 70·5 | 71·0 | 72·0 | 72·5 | 73·0 | 73·5 | 73·8 | 73·6 | 73·7 | 74·0 | 74·2 | 74·1 |
| | 16 | 68·0 | 68·5 | 69·5 | 70·5 | 71·5 | 72·5 | 73·5 | 74·4 | 75·0 | 76·0 | 76·6 | 77·0 |
| | 17 | 72·0 | 72·0 | 72·0 | 72·5 | 72·6 | 73·4 | 74·0 | 74·0 | 74·5 | 75·0 | 75·4 | 75·4 |
| | 18 | 71·0 | 70·9 | 70·8 | 70·9 | 71·0 | 71·4 | 71·5 | 71·8 | 72·2 | 72·4 | 72·7 | 72·7 |
| | 19 | 67·0 | 67·0 | 67·3 | 67·7 | 68·5 | 69·5 | 69·7 | 70·1 | 70·4 | 70·4 | 70·5 | 70·5 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 66·0 | 66·2 | 67·0 | 67·7 | 69·0 | 69·2 | 69·5 | 69·6 | 69·8 | 70·2 | 70·6 | 71·0 |
| | 22 | 65·0 | 64·7 | 65·8 | 67·0 | 68·0 | 69·0 | 69·5 | 69·6 | 70·0 | 70·4 | 70·6 | 71·0 |
| | 23 | 67·0 | 67·0 | 67·5 | 68·6 | 70·0 | 70·5 | 70·6 | 71·0 | 71·7 | 72·2 | 72·4 | 72·8 |
| | 24 | 66·0 | 66·5 | 67·5 | 68·5 | 69·5 | 70·6 | 70·4 | 70·7 | 71·4 | 71·8 | 72·4 | 72·5 |
| | 25 | 66·0 | 66·3 | 66·7 | 67·5 | 68·7 | 70·0 | 70·5 | 71·1 | 72·0 | 72·7 | 73·4 | 73·8 |
| | 26 | 69·2 | 69·0 | 69·2 | 70·0 | 70·6 | 72·0 | 73·4 | 74·6 | 75·6 | 76·4 | 76·6 | 77·2 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 71·5 | 71·5 | 71·5 | 72·0 | 71·9 | 72·3 | 72·9 | 73·6 | 74·1 | 74·7 | 75·3 | 75·5 |
| | 29 | 70·5 | 71·0 | 71·5 | 72·6 | 74·0 | 74·7 | 75·0 | 75·5 | 76·0 | 76·4 | 76·5 | 77·2 |
| | 30 | 70·0 | 70·5 | 71·0 | 72·0 | 73·5 | 74·2 | 75·0 | 75·7 | 77·0 | 78·0 | 78·8 | 79·0 |
| | 31 | 74·0 | 74·0 | 74·5 | 75·5 | 76·5 | 77·4 | 78·0 | 78·5 | 79·0 | 79·6 | 80·3 | 80·9 |
| Hourly Means | 68·85 | 69·08 | 69·62 | 70·39 | 71·12 | 71·90 | 72·38 | 72·83 | 73·36 | 73·88 | 74·27 | 74·60 | |

^a Five minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|---|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------------|
| One Scale Division = .000099 parts of the H. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fahr. = .00027. | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. 932.9 | Sc. Div. 931.5 | Sc. Div. 924.2 | Sc. Div. 925.4 | Sc. Div. 927.5 | Sc. Div. 926.8 | Sc. Div. 925.0 | Sc. Div. 926.0 | Sc. Div. 927.7 | Sc. Div. 927.0 | Sc. Div. 926.9 | Sc. Div. 927.0 | Sc. Div. 928.20 |
| 928.4 | 927.2 | 926.0 | 927.5 | 926.0 | 926.7 | 926.2 | 918.4 | 920.2 | 922.6 | 926.8 | 929.0 | 925.69 |
| 929.3 | 931.9 | 919.1 | 905.9 | 919.8 | 917.2 | 921.2 | 917.8 | 926.4 | 929.5 | 910.0 | 922.3 | 925.49 |
| 914.5 | 920.5 | 921.1 | 919.3 | 920.8 | 916.6 | 921.4 | 923.3 | 924.6 | 919.4 | 918.1 | 920.4 | 919.36 |
| 922.2 | 920.4 | 922.6 | 921.0 | 921.2 | 916.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 919.2 | 920.5 | 924.6 | 928.0 | 923.6 | 926.0 | 921.23 |
| 925.7 | 928.7 | 923.0 | 918.1 | 913.7 | 917.0 | 923.0 | 925.8 | 926.1 | 927.7 | 933.2 | 921.0 | 923.05 |
| 928.3 | 914.3 | 908.3 | 922.1 | 920.7 | 918.0 | 914.6 | 908.6 | 922.1 | 927.9 | 920.8 | 912.8 | 917.48 |
| 929.6 | 929.8 | 928.2 | 926.0 | 927.5 | 928.0 | 927.3 | 931.7 | 932.2 | 929.1 | 930.2 | 930.3 ^b | 924.17 |
| 931.8 | 930.9 | 928.8 | 929.6 | 933.1 | 931.5 | 532.7 | 932.3 | 936.6 | 935.4 | 940.1 | 938.0 | 927.79 |
| 934.4 | 934.3 | 931.8 | 932.9 | 931.1 | 931.6 | 934.8 | 935.2 | 934.7 | 933.4 | 929.0 | 930.5 | 931.34 |
| 930.0 | 926.4 | 930.7 | 927.7 | 927.4 | 929.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 931.7 | 930.5 | 934.5 | 931.7 | 933.1 | 935.0 | 928.99 |
| 934.2 | 937.8 | 934.9 | 933.8 | 933.9 | 934.0 | 934.6 | 931.4 | 931.7 | 937.2 | 934.3 | 938.0 | 932.16 |
| 935.4 | 939.1 | 938.4 | 935.2 | 937.1 | 936.0 | 938.5 | 939.0 | 938.6 | 941.1 | 939.0 | 939.8 | 933.33 |
| 939.8 | 940.8 | 936.2 | 934.0 | 934.3 | 936.9 | 938.9 | 936.6 | 941.4 | 940.1 | 939.8 | 940.3 | 936.38 |
| 940.7 | 938.5 | 936.6 | 937.1 | 934.5 | 931.8 | 935.7 | 934.9 | 938.5 | 941.0 | 042.3 | 943.0 | 938.66 |
| 948.8 | 945.0 | 945.0 | 944.1 | 943.2 | 940.6 | 941.4 | 947.1 | 948.4 | 949.0 | 948.5 | 950.6 | 946.33 |
| 948.3 | 949.0 | 945.8 | 949.1 | 946.0 | 947.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 948.0 | 949.9 | 949.3 | 947.6 | 949.0 | 951.8 | 947.08 |
| 954.6 | 951.7 | 951.3 | 950.3 | 949.8 | 949.0 | 950.0 | 958.2 | 957.4 | 955.0 | 950.2 | 950.0 | 951.08 |
| 954.3 | 930.7 | 920.2 | 936.0 | 932.4 | 954.5 | 956.6 | 952.3 | 954.5 | 945.9 | 944.9 | 940.8 | 949.44 |
| 944.6 | 936.0 | 948.6 | 941.8 | 949.7 | 948.4 | 945.8 | 947.9 | 949.2 | 948.3 | 946.1 | 950.0 | 944.81 |
| 952.8 | 949.9 | 952.4 | 950.0 | 951.2 | 955.5 | 952.8 | 950.6 | 949.3 | 949.0 | 948.5 | 950.0 | 949.69 |
| 951.3 | 947.3 | 950.1 | 938.0 | 951.4 | 947.6 | 947.9 | 947.8 | 949.5 | 946.7 | 946.1 | 949.1 | 949.48 |
| 945.0 | 943.1 | 945.1 | 943.5 | 951.4 | 945.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 947.2 | 949.6 | 948.1 | 948.0 | 947.4 | 947.0 | 945.68 |
| 946.8 | 949.2 | 946.1 | 948.5 | 955.4 | 951.8 | 951.0 | 952.0 | 951.0 | 950.6 | 051.5 | 953.0 | 946.32 |
| 954.5 | 953.4 | 952.4 | 952.2 | 952.3 | 953.8 | 954.0 | 955.9 | 956.0 | 956.7 ^c | 955.7 | 956.3 | 951.36 |
| 951.7 | 951.8 | 948.8 | 949.4 | 947.4 | 949.6 | 951.3 | 952.9 | 950.8 | 950.8 | 950.5 | 950.0 | 951.91 |
| 951.1 | 946.9 | 948.0 | 944.2 | 938.9 | 941.8 | 947.2 | 945.6 | 943.2 | 944.5 | 948.3 | 950.5 | 948.46 |
| 939.30 | 937.26 | 935.69 | 935.14 | 936.21 | 936.57 | 937.70 | 937.81 | 939.54 | 939.38 | 938.29 | 938.98 | 936.85 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------------------|-------|
| 69.8 | 69.7 | 69.8 | 69.6 | 68.8 | 68.6 | 67.7 | 66.5 | 66.0 | 65.2 | 64.9 | 64.3 | 67.77 |
| 70.8 | 70.6 | 70.4 | 69.6 | 69.0 | 68.1 | 67.4 | 67.0 | 66.6 | 66.2 | 65.8 | 65.2 | 68.64 |
| 74.0 | 73.5 | 72.6 | 72.2 | 71.8 | 71.2 | 70.0 | 69.6 | 69.2 | 68.4 | 67.8 | 67.0 | 70.22 |
| 74.8 | 74.5 | 73.4 | 72.7 | 72.2 | 71.5 | 71.0 | 70.6 | 70.4 | 70.2 | 69.7 | 69.5 | 71.65 |
| 75.4 | 75.2 | 74.4 | 73.8 | 73.7 | 73.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72.4 | 72.3 | 72.0 | 71.7 | 71.4 | 71.5 | 72.77 |
| 75.8 | 75.5 | 74.8 | 74.4 | 74.2 | 74.0 | 73.6 | 73.1 | 72.9 | 72.4 | 72.2 | 72.0 | 74.08 |
| 75.0 | 75.0 | 74.8 | 74.5 | 74.1 | 73.7 | 73.1 | 72.5 | 72.0 | 71.4 | 70.6 | 70.0 | 72.95 |
| 73.0 | 73.0 | 72.5 | 72.2 | 71.8 | 71.5 | 70.9 | 70.4 | 70.2 | 70.0 | 69.6 | 69.3 ^b | 71.29 |
| 75.0 | 74.8 | 74.5 | 73.8 | 73.2 | 72.6 | 72.0 | 71.7 | 71.0 | 70.4 | 70.0 | 69.5 | 72.58 |
| 75.6 | 75.6 | 75.1 | 74.6 | 74.0 | 73.7 | 72.8 | 72.4 | 72.0 | 71.7 | 71.0 | 70.6 | 72.95 |
| 77.0 | 76.6 | 76.1 | 75.8 | 75.2 | 75.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 73.6 | 73.2 | 72.8 | 72.4 | 72.1 | 72.0 | 74.06 |
| 76.7 | 76.3 | 75.9 | 75.3 | 74.7 | 74.2 | 73.8 | 72.8 | 72.5 | 72.0 | 71.5 | 70.5 | 73.62 |
| 74.0 | 73.8 | 73.2 | 72.7 | 72.2 | 71.8 | 71.5 | 70.8 | 70.4 | 70.2 | 69.6 | 69.0 | 72.30 |
| 77.0 | 76.8 | 76.1 | 75.6 | 75.2 | 74.6 | 74.2 | 73.5 | 73.1 | 72.8 | 72.5 | 72.3 | 73.61 |
| 75.2 | 75.0 | 74.6 | 74.2 | 74.0 | 73.4 | 73.1 | 72.8 | 72.7 | 72.4 | 72.2 | 71.5 | 73.50 |
| 73.0 | 72.7 | 72.1 | 71.7 | 71.4 | 71.0 | 70.5 | 69.2 | 68.8 | 68.6 | 68.2 | 67.5 | 71.00 |
| 70.5 | 70.4 | 69.8 | 69.6 | 69.0 | 68.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68.0 | 67.7 | 67.2 | 66.8 | 66.6 | 66.0 | 68.70 |
| 71.2 | 70.8 | 70.0 | 69.4 | 69.0 | 68.8 | 67.9 | 67.2 | 66.8 | 66.5 | 65.8 | 65.0 | 68.51 |
| 71.0 | 71.0 | 70.8 | 70.6 | 70.5 | 70.2 | 69.6 | 69.5 | 69.4 | 68.4 | 67.7 | 67.2 | 69.02 |
| 73.0 | 72.6 | 72.2 | 71.5 | 70.6 | 70.2 | 69.8 | 69.5 | 69.2 | 68.4 | 67.2 | 66.5 | 70.08 |
| 72.7 | 72.0 | 71.5 | 71.0 | 70.8 | 69.9 | 69.0 | 68.6 | 68.2 | 68.0 | 67.5 | 66.5 | 69.70 |
| 73.8 | 73.8 | 73.0 | 72.8 | 72.5 | 72.0 | 71.5 | 71.2 | 70.6 | 70.3 | 70.0 | 69.5 | 70.82 |
| 77.2 | 76.4 | 76.0 | 75.7 | 74.5 | 74.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 73.0 | 73.0 | 72.6 | 72.5 | 72.2 | 72.0 | 73.46 |
| 75.5 | 75.5 | 75.3 | 74.6 | 73.5 | 73.2 | 72.9 | 72.2 | 71.9 | 71.5 | 71.3 | 71.0 | 73.13 |
| 76.4 | 75.6 | 75.2 | 74.3 | 74.0 | 73.4 | 73.0 | 72.5 | 72.0 | 71.5 ^c | 71.0 | 70.5 | 73.76 |
| 79.0 | 78.3 | 77.7 | 77.5 | 76.7 | 76.7 | 76.1 | 75.4 | 75.2 | 74.8 | 74.6 | 74.2 | 75.47 |
| 80.7 | 80.5 | 79.8 | 79.2 | 78.8 | 78.0 | 77.6 | 77.0 | 76.6 | 76.1 | 75.6 | 75.2 | 77.64 |
| 74.56 | 74.28 | 73.76 | 73.29 | 72.80 | 72.33 | 71.70 | 71.19 | 70.83 | 70.40 | 69.99 | 69.46 | 71.95 |

^b Eight minutes late.

^c Two minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|--------|
| One Scale Division = $\cdot 000099$ parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah $^{\circ}$ = $\cdot 00027$. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| SEPTEMBER. | 1 | 951.0 | 950.0 | 444.6 | 929.8 | 934.5 | 943.0 | 942.6 | 957.1 | 956.0 | 938.0 | 944.0 | 948.7 |
| | 2 | 950.2 | 954.0 | 947.0 | 940.9 | 952.0 | 949.0 | 946.0 | 954.9 | 958.2 | 965.2 | 938.8 | 951.9 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 949.0 | 949.7 | 941.4 | 941.0 | 937.5 | 944.0 | 946.0 | 949.4 | 951.4 | 952.1 | 943.6 | 942.4 |
| | 5 | 950.0 | 949.8 | 946.0 | 941.5 | 944.5 | 948.0 | 949.9 | 953.9 | 957.2 | 958.6 | 957.8 | 959.2 |
| | 6 | 961.4 | 961.3 | 956.6 | 952.0 | 945.8 | 944.5 | 947.5 | 956.2 | 963.4 | 969.0 | 965.0 | 965.5 |
| | 7 | 963.0 | 965.0 | 957.9 | 953.0 | 947.9 | 951.9 | 956.2 | 961.9 | 967.7 | 969.7 | 968.4 | 967.3 |
| | 8 | 966.1 | 958.3 | 955.5 | 954.0 | 950.5 | 950.3 | 957.8 | 964.0 | 971.2 | 972.2 | 965.7 | 963.0 |
| | 9 | 971.5 | 976.0 | 967.4 | 947.9 | 951.5 | 950.9 | 969.1 | 976.1 | 978.1 | 981.3 | 981.7 | 974.9 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 985.0 | 986.0 | 979.0 | 971.0 | 968.0 | 970.0 | 979.0 | 984.2 | 991.7 | 995.9 | 987.8 | 985.9 |
| | 12 | 986.0 | 984.5 | 080.3 | 980.0 | 976.8 | 977.0 | 978.0 | 984.1 | 994.0 | 984.1 | 989.8 | 978.6 |
| | 13 | 988.0 | 987.0 | 981.4 | 973.0 | 973.0 ^a | 974.0 | 977.5 | 983.6 | 990.4 | 995.5 | 987.0 | 980.4 |
| | 14 | 989.0 | 986.0 | 980.6 | 973.5 | 972.5 ^b | 979.0 ^b | 982.0 | 994.5 | 988.4 | 991.2 | 086.9 | 975.9 |
| | 15 | 989.0 | 985.0 | 975.0 | 970.0 | 976.8 | 970.0 | 980.0 | 981.7 | 981.1 | 983.3 | 983.8 | 984.3 |
| | 16 | 983.0 | 979.5 | 971.2 | 969.8 | 970.5 | 973.0 | 971.0 | 974.7 | 980.7 | 984.3 | 982.4 | 979.8 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 982.5 | 980.3 | 972.0 | 973.0 | 969.0 | 965.8 | 961.3 | 976.4 | 973.5 | 981.5 | 974.5 | 977.4 |
| | 19 | 972.0 | 469.7 | 972.0 | 963.0 | 963.0 | 961.0 | 968.0 | 963.3 | 073.1 | 970.7 | 986.3 | 977.1 |
| | 20 | 974.0 | 980.0 | 978.0 | 972.2 | 966.2 | 961.0 | 971.3 | 975.7 | 973.7 | 982.8 | 975.9 | 981.4 |
| | 21 | 982.1 | 983.8 | 977.3 | 968.3 | 967.0 | 964.6 | 965.8 | 975.1 | 967.9 | 980.0 | 981.2 | 985.7 |
| | 22 | 988.0 | 988.0 | 984.9 | 984.5 | 958.8 | 976.0 | 982.0 | 988.1 | 965.0 | 994.1 | 990.9 | 982.1 |
| | 23 | 990.3 | 981.5 | 986.8 | 985.0 | 983.0 | 982.1 | 982.8 | 989.1 | 994.5 | 991.3 | 990.4 | 987.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 992.0 | 992.5 | 986.4 | 980.1 | 974.8 | 973.5 | 979.6 | 984.9 | 994.4 | 999.6 | 999.2 | 998.5 |
| | 26 | 999.5 | 999.6 | 996.1 | 987.5 | 984.0 | 979.5 | 986.0 | 994.6 | 999.5 ^d | 1003.3 | 1005.3 | 990.5 |
| | 27 | 1009.0 | 1007.0 | 1003.5 | 998.0 | 994.2 | 992.5 | 1002.8 | 998.7 | 1002.7 | 1009.2 | 1008.1 | 1015.4 |
| | 28 | 1022.0 | 1014.0 | 1008.5 | 1000.7 | 999.0 | 997.3 | 997.3 | 998.8 | 1003.1 | 1005.9 | 1010.4 | 1011.0 |
| | 29 | 1018.0 | 1016.0 | 1014.1 | 1111.0 | 1010.0 | 1006.2 | 996.0 | 997.9 | 998.3 | 1002.8 | 1010.0 | 1007.7 |
| | 30 | 1013.2 | 1016.0 | 993.4 | 992.5 | 999.3 | 997.9 | 991.3 | 993.6 | 997.0 | 1002.5 | 1006.2 | 1010.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 981.72 | 980.79 | 975.27 | 969.74 | 968.08 | 968.88 | 971.82 | 977.40 | 980.85 | 983.23 | 981.97 | 980.44 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------------------|-------|-------|------|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| SEPTEMBER. | 1 | 74.8 | 74.5 | 74.5 | 74.5 | 74.8 | 75.2 | 76.0 | 76.5 | 77.5 | 77.5 | 78.5 | 78.6 |
| | 2 | 74.7 | 74.7 | 74.7 | 74.5 | 74.0 | 75.5 | 76.1 | 77.2 | 78.6 | 79.0 | 79.2 | 79.2 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 77.5 | 77.0 | 76.5 | 76.6 | 77.3 | 77.4 | 78.0 | 78.6 | 79.4 | 80.2 | 80.5 | 80.2 |
| | 5 | 73.5 | 73.0 | 72.0 | 72.3 | 72.5 | 73.0 | 73.4 | 73.6 | 74.0 | 74.2 | 74.6 | 74.5 |
| | 6 | 70.0 | 69.3 | 69.3 | 69.5 | 70.0 | 70.5 | 71.2 | 71.4 | 72.0 | 72.0 | 72.2 | 72.0 |
| | 7 | 70.5 | 70.0 | 70.0 | 70.3 | 70.5 | 71.5 | 72.0 | 72.2 | 72.8 | 73.0 | 73.0 | 73.2 |
| | 8 | 69.5 | 69.3 | 69.2 | 69.5 | 69.8 | 70.3 | 71.0 | 71.7 | 72.0 | 72.6 | 73.2 | 73.2 |
| | 9 | 65.2 | 65.5 | 66.5 | 66.8 | 66.6 | 66.5 | 66.3 | 66.1 | 66.5 | 67.0 | 67.5 | 67.8 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 57.2 | 58.0 | 58.6 | 59.5 | 60.5 | 61.5 | 61.7 | 62.2 | 62.4 | 62.6 | 62.9 | 63.3 |
| | 12 | 57.0 | 57.0 | 57.6 | 58.5 | 59.5 | 60.5 | 61.0 | 61.3 | 61.9 | 62.4 | 62.6 | 62.8 |
| | 13 | 57.0 | 57.0 | 57.6 | 58.2 | 59.0 ^a | 59.2 | 59.7 | 59.8 | 60.2 | 60.7 | 60.5 | 60.5 |
| | 14 | 69.0 | 60.0 | 60.0 | 59.5 | 59.5 ^b | 59.5 ^b | 59.7 | 60.0 | 60.2 | 60.4 | 60.7 | 60.4 |
| | 15 | 61.5 | 61.6 | 61.6 | 62.0 | 62.0 | 62.5 | 63.0 | 63.2 | 63.5 | 64.4 | 65.3 | 66.0 |
| | 16 | 63.0 | 63.5 | 64.5 | 65.0 | 65.5 | 66.6 | 66.6 | 66.8 | 67.2 | 67.6 | 68.4 | 68.6 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 68.6 | 68.6 | 69.4 | 70.6 | 70.5 | 71.0 | 72.0 | 72.2 | 73.0 | 73.0 | 73.0 | 73.0 |
| | 19 | 65.6 | 65.0 | 66.0 | 66.6 | 67.5 | 68.0 | 68.4 | 68.8 | 69.0 | 68.8 | 68.8 | 68.9 |
| | 20 | 65.0 | 65.2 | 66.2 | 67.0 | 67.2 | 67.2 | 67.2 | 67.3 | 67.6 | 68.2 | 68.8 | 68.9 |
| | 21 | 66.5 | 67.0 | 68.0 | 69.5 | 71.8 | 72.7 | 73.8 | 74.8 | 76.3 | 77.4 | 78.2 | 77.5 |
| | 22 | 66.5 | 66.5 | 67.0 | 67.5 | 67.5 | 67.6 | 67.3 | 67.1 | 67.0 | 67.0 | 67.0 | 66.6 |
| | 23 | 63.5 | 63.5 | 63.5 | 63.8 | 64.0 | 64.4 | 65.5 | 66.8 | 68.0 | 68.8 | 69.7 | 70.4 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 67.0 | 66.5 | 66.0 | 66.0 | 25.5 | 65.5 | 65.5 | 65.5 | 65.4 | 65.4 | 65.4 | 65.2 |
| | 26 | 61.0 | 60.5 | 60.0 | 60.5 | 60.5 | 60.5 | 60.5 | 60.4 | 60.4 ^d | 60.6 | 60.8 | 60.4 |
| | 27 | 65.5 | 55.0 | 54.5 | 55.0 | 55.5 | 56.0 | 56.5 | 56.5 | 56.5 | 56.5 | 57.4 | 57.5 |
| | 28 | 53.0 | 52.5 | 52.5 | 52.5 | 53.0 | 53.6 | 55.0 | 56.5 | 57.4 | 58.2 | 58.8 | 58.8 |
| | 29 | 55.0 | 55.0 | 55.0 | 55.5 | 56.5 | 57.5 | 58.5 | 58.6 | 59.4 | 60.2 | 61.2 | 61.2 |
| | 30 | 57.0 | 57.0 | 57.5 | 58.0 | 58.0 | 59.7 | 60.5 | 61.1 | 61.6 | 62.2 | 62.5 | 62.5 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 64.45 | 64.33 | 64.55 | 64.95 | 65.38 | 65.90 | 66.40 | 66.78 | 67.30 | 67.69 | 68.10 | 68.12 | |

^a Three minutes late.

^b Five minutes late.

^c Seven minutes late.

^d Twelve minutes late.

HORIZONTAL FORCE.

One Scale Division = .000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 945.9 | 934.9 | 928.3 | 941.9 | 945.0 | 950.4 | 942.8 | 938.5 | 636.3 | 938.5 | 938.4 | 943.8 | 942.67 |
| 942.0 | 944.9 | 942.7 | 949.7 | 950.0 | 950.1 | — | — | — | — | — | — | 948.84 |
| — | — | — | — | — | — | 945.8 | 948.8 | 945.8 | 944.5 | 949.9 | 949.8 | — |
| 945.6 | 948.1 | 951.2 | 948.0 | 951.8 | 950.7 | 950.0 | 941.3 | 944.8 | 943.4 | 949.5 | 956.0 | 947.00 |
| 958.8 | 954.4 | 954.2 | 957.4 | 954.0 | 959.8 | 958.3 | 960.6 | 943.5 | 951.5 | 947.1 | 951.0 | 952.79 |
| 966.9 | 966.3 | 966.0 | 958.2 | 967.6 | 955.2 | 960.9 | 965.0 | 967.1 | 965.3 | 968.2 | 966.5 | 960.89 |
| 965.3 | 965.7 | 966.0 | 965.7 | 964.5 | 963.8 | 962.2 | 966.1 | 968.3 | 967.4 | 988.0 | 966.3 | 963.32 |
| 900.4 | 961.9 | 963.1 | 961.1 | 960.8 | 960.5 | 967.1 | 961.6 | 968.2 | 970.7 | 971.2 | 966.8 | 962.58 |
| 977.8 | 976.8 | 978.5 | 977.1 | 975.3 | 976.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 981.5 | 979.5 | 973.6 | 972.7 | 984.9 | 981.0 | 973.39 |
| 980.0 | 983.9 | 985.0 | 981.2 | 984.8 | 981.7 | 978.5 | 984.5 | 985.9 | 986.0 | 983.2 | 984.0 | 982.72 |
| 978.0 | 979.5 | 982.0 | 983.8 | 980.1 | 969.8 | 980.2 | 980.0 | 985.4 | 985.0 | 984.9 | 989.5 | 982.14 |
| 981.8 | 980.8 | 984.1 | 983.8 | 984.9 | 986.9 | 986.6 | 986.6 | 986.0 | 985.8 | 986.2 | 979.5 | 983.49 |
| 983.9 | 988.0 | 987.2 | 986.5 | 983.5 | 986.0 | 987.3 | 987.1 | 988.0 | 688.5 | 989.3 | 989.1 | 985.16 |
| 982.0 | 977.8 | 978.0 | 980.0 | 975.6 | 978.6 | 979.0 | 978.8 | 979.8 | 980.0 | 981.5 | 982.0 | 980.09 |
| 973.9 | 977.0 | 979.2 | 976.0 | 969.5 | 971.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 976.5 | 979.8 | 980.2 | 987.2 | 981.0 | 981.5 | 977.33 |
| 977.0 | 975.3 | 972.2 | 971.2 | 977.2 | 969.0 | 970.8 | 968.8 | 974.8 | 971.5 | 974.5 | 972.1 | 973.40 |
| 975.7 | 976.4 | 979.7 | 978.6 | 978.0 | 976.0 | 978.8 | 978.0 | 977.7 | 979.0 | 981.4 | 979.5 | 974.08 |
| 982.0 | 980.9 | 980.2 | 974.4 | 977.6 | 978.8 | 983.7 | 978.0 | 976.7 | 978.4 | 973.3 | 974.3 | 976.27 |
| 986.8 | 985.8 | 990.0 | 992.0 | 993.8 | 990.1 | 981.2 | 980.7 | 980.0 | 981.9 | 985.4 | 990.5 | 980.71 |
| 980.5 | 988.8 | 991.5 | 990.1 | 989.8 | 989.6 | 995.1 | 992.1 | 993.9 | 991.7 | 991.5 | 992.0 | 987.46 |
| 990.4 | 990.7 | 990.5 | 990.0 | 990.5 | 990.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 989.9 | 990.1 | 994.3 | 994.0 | 994.3 | 992.5 | 989.25 |
| 997.8 | 997.7 | 995.0 | 995.2 | 996.0 | 995.6 | 995.0 | 997.0 | 994.8 | 995.2 | 999.0 | 998.5 | 992.18 |
| 1004.1 | 1002.7 | 997.0 | 999.5 | 998.6 | 1003.2 | 1008.9 | 1008.5 | 1010.5 | 1010.0 | 1011.7 | 1011.5 | 1000.02 |
| 1012.5 | 1008.1 | 989.7 | 998.2 | 1003.3 | 995.5 | 987.2 | 989.4 | 1004.2 | 1008.0 | 1009.5 | 1017.0 | 1003.07 |
| 1006.5 | 1000.7 | 998.0 | 1000.9 | 1002.3 | 1003.0 | 1006.0 | 1005.2 | 1004.6 | 1004.8 | 1007.7 | 1015.0 | 1005.11 |
| 997.1 | 998.4 | 1002.5 | 993.2 | 992.3 | 992.6 | 999.9 | 1004.6 | 1008.0 | 1006.6 | 1010.9 | 1006.2 | 1004.18 |
| 999.1 | 983.9 | 982.0 | 998.9 | 996.9 | 998.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 995.1 | 998.9 | 997.0 | 999.5 | 1003.5 | 1008.0 | 998.90 |
| 978.92 | 978.05 | 977.45 | 978.41 | 978.60 | 977.79 | 978.78 | 978.83 | 979.59 | 980.27 | 981.77 | 982.46 | 977.96 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 78.6 | 78.2 | 77.8 | 77.4 | 77.0 | 76.5 | 76.5 | 76.5 | 76.2 | 76.0 | 76.0 | 75.0 | 76.44 |
| 79.2 | 79.0 | 78.7 | 78.4 | 78.0 | 78.0 | — | — | — | — | — | — | 77.47 |
| — | — | — | — | — | — | 79.3 | 79.0 | 78.6 | 78.2 | 78.0 | 77.5 | — |
| 79.5 | 78.5 | 78.0 | 77.0 | 66.5 | 76.0 | 75.3 | 75.0 | 74.7 | 74.2 | 74.0 | 73.5 | 77.14 |
| 74.2 | 73.5 | 73.1 | 72.9 | 72.2 | 71.8 | 71.5 | 71.2 | 70.4 | 70.2 | 70.0 | 70.0 | 72.57 |
| 72.0 | 71.8 | 71.8 | 71.6 | 71.6 | 71.6 | 71.4 | 71.0 | 70.8 | 70.5 | 70.5 | 70.5 | 71.02 |
| 73.2 | 72.7 | 72.5 | 72.0 | 71.8 | 71.5 | 71.0 | 70.2 | 70.0 | 70.0 | 69.7 | 69.5 | 71.38 |
| 73.0 | 72.4 | 71.5 | 70.8 | 70.0 | 69.0 | 68.5 | 67.8 | 67.5 | 66.9 | 66.4 | 65.7 | 70.03 |
| 67.4 | 66.6 | 66.2 | 65.6 | 65.2 | 64.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.5 | 59.5 | 59.0 | 58.5 | 58.2 | 58.0 | 64.45 |
| 63.3 | 62.8 | 62.0 | 61.5 | 61.0 | 60.0 | 59.5 | 58.8 | 58.4 | 58.0 | 57.5 | 57.0 | 60.42 |
| 63.0 | 62.2 | 61.8 | 61.0 | 60.2 | 59.6 | 59.0 | 58.5 | 58.0 | 57.5 | 57.2 | 57.0 | 59.88 |
| 60.4 | 60.2 | 60.2 | 60.0 | 59.7 | 59.7 | 59.9 | 59.4 | 59.2 | 59.8 | 60.2 | 60.0 | 59.50 |
| 60.2 | 59.9 | 60.0 | 59.8 | 59.6 | 59.8 | 60.2 | 60.4 | 60.9 | 61.2 | 61.5 | 61.3 | 60.20 |
| 66.4 | 66.0 | 65.5 | 65.2 | 64.8 | 64.6 | 64.5 | 64.1 | 64.0 | 63.8 | 63.4 | 63.5 | 63.85 |
| 68.4 | 68.0 | 67.5 | 67.2 | 66.8 | 66.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 69.2 | 69.2 | 69.0 | 69.0 | 68.8 | 68.6 | 67.12 |
| 72.4 | 71.7 | 71.0 | 70.4 | 70.2 | 68.6 | 68.2 | 67.5 | 67.2 | 66.8 | 66.2 | 66.0 | 70.02 |
| 68.6 | 68.4 | 68.2 | 67.5 | 67.4 | 67.0 | 66.5 | 66.1 | 66.0 | 55.7 | 65.5 | 65.5 | 67.24 |
| 68.5 | 68.2 | 68.3 | 68.2 | 68.2 | 68.0 | 67.8 | 67.6 | 67.4 | 67.2 | 66.9 | 66.8 | 67.45 |
| 76.8 | 75.5 | 74.5 | 73.4 | 73.0 | 72.4 | 71.3 | 71.0 | 69.6 | 68.8 | 68.1 | 67.5 | 72.31 |
| 66.2 | 65.8 | 65.5 | 65.4 | 65.0 | 64.4 | 64.3 | 64.0 | 64.2 | 64.0 | 64.0 | 63.5 | 65.87 |
| 70.9 | 70.5 | 70.5 | 70.0 | 70.0 | 69.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 69.2 | 69.2 | 68.2 | 67.3 | 67.4 | 67.4 | 67.60 |
| 65.0 | 64.8 | 64.4 | 64.2 | 63.9 | 63.5 | 63.1 | 62.8 | 62.5 | 62.2 | 61.6 | 61.5 | 64.52 |
| 59.7 | 58.8 | 58.5 | 58.2 | 57.8 | 57.1 | 57.0 | 56.6 | 56.4 | 56.4 | 56.2 | 55.5 | 58.93 |
| 57.2 | 57.2 | 57.0 | 56.8 | 56.5 | 56.2 | 55.4 | 54.5 | 54.3 | 54.0 | 53.6 | 53.5 | 55.78 |
| 58.8 | 58.2 | 57.8 | 57.3 | 56.8 | 56.4 | 56.0 | 55.4 | 55.0 | 54.7 | 55.0 | 55.0 | 55.76 |
| 61.2 | 60.8 | 60.5 | 60.2 | 59.8 | 59.7 | 59.3 | 58.6 | 58.5 | 58.4 | 58.0 | 57.5 | 58.59 |
| 62.2 | 62.0 | 62.0 | 61.4 | 61.4 | 61.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 61.7 | 61.5 | 61.0 | 61.0 | 60.5 | 60.0 | 60.60 |
| 67.93 | 67.45 | 67.11 | 66.67 | 66.32 | 65.89 | 65.58 | 65.21 | 64.88 | 64.63 | 64.40 | 64.11 | 66.01 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|---|--------------------|--------------------|------------------|------------------|--------------------|-------------------|-------|
| From 1st to 9th. One Scale Division = .000099 parts of the H. F. } | | | | | | Change in the magnetic moment of the Bar for 1° Fah°. = .00027. | | | | | | | |
| From 11th to 31st. One Scale Division = .000087 parts of the H. F. } | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| OCTOBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 483·1 | 480·1 | 475·3 | 477·6 | 471·9 | 474·3 | 476·7 | 473·1 | 481·1 | 482·3 | 477·9 | 480·3 |
| | 3 | 466·4 | 485·1 | 478·7 | 474·1 | 476·0 | 473·7 | 476·5 | 478·1 | 473·8 | 485·1 | 485·1 | 485·1 |
| | 4 | 492·6 | 489·3 | 487·1 | 479·1 | 485·6 | 486·6 | 482·6 | 486·3 | 485·9 | 485·6 | 486·3 | 486·6 |
| | 5 | 490·8 | 502·6 | 487·0 | 486·0 | 479·6 | 463·2 | 473·1 | 480·7 | 479·5 | 469·8 | 486·2 | 486·1 |
| | 6 | 485·1 | 486·3 | 480·8 | 476·1 | 470·1 | 470·6 | 474·1 | 479·3 | 483·1 | 485·1 | 478·9 | 475·4 |
| | 7 | 485·1 | 478·1 | 472·7 | 464·1 | 458·1 | 460·6 | 466·6 | 468·6 | 477·9 | 479·3 | 482·0 | 484·8 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 493·1 | 488·6 | 484·0 | 477·3 | 470·5 | 466·6 | 468·6 | 480·8 | 486·2 | 488·7 | 490·5 | 493·3 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 491·0 | 490·0 | 485·0 | 477·7 | 471·5 | 471·0 | 476·0 | 476·2 | 477·5 | 482·5 | 489·0 | 491·5 |
| | 12 | 490·0 | 487·5 | 485·8 | 483·5 | 479·8 | 476·0 | 479·3 | 476·5 | 478·2 | 479·0 | 476·5 | 479·6 |
| | 13 | 488·8 | 491·5 | 492·1 | 481·0 | 481·0 | 480·0 | 479·0 | 481·4 | 483·5 | 488·5 | 492·4 | 493·8 |
| | 14 | 498·5 | 496·5 | 497·9 | 495·6 | 492·0 | 487·9 | 486·4 | 490·4 | 489·6 | 485·4 | 497·0 | 488·0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 489·5 | 496·5 | 495·3 | 481·3 | 483·0 | 482·5 | 491·0 | 480·4 | 499·4 | 496·2 | 489·1 | 495·0 |
| | 17 | 495·8 | 488·0 | 459·0 | 493·0 | 490·5 | 484·0 | 491·6 | 591·8 | 500·8 | 499·0 | 497·3 | 497·0 |
| | 18 | 480·0 | 480·0 | 496·0 | 498·8 | 500·0 | 496·3 | 497·5 | 501·6 | 499·3 | 497·0 | 494·2 | 488·4 |
| | 19 | 495·0 | 493·5 | 490·8 | 492·4 | 495·6 | 495·4 | 493·7 | 496·1 | 492·6 | 488·7 | 487·9 | 492·5 |
| | 20 | 497·5 | 491·0 | 492·0 | 490·4 | 489·5 | 484·0 | 482·0 | 477·9 | 478·9 | 484·3 | 491·5 | 490·1 |
| | 21 | 488·3 | 487·5 | 484·6 | 480·0 | 476·2 | 476·0 | 478·2 | 480·2 | 484·9 | 488·0 | 491·2 | 489·6 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 505·0 | 503·5 | 499·0 | 493·0 | 490·3 | 490·0 | 491·6 | 498·4 | 504·3 | 508·1 ^a | 507·0 | 503·2 |
| | 24 | 504·0 | 503·0 | 502·0 | 502·0 | 499·8 | 498·2 | 497·5 | 497·1 | 499·8 | 500·0 | 502·0 | 497·8 |
| | 25 | 503·0 | 500·5 | 498·6 | 493·0 | 489·5 | 492·0 | 495·8 | 495·8 | 498·6 | 501·8 | 501·6 | 496·9 |
| | 26 | 490·8 | 503·0 | 503·3 | 495·8 | 484·0 | 476·6 | 479·8 | 474·5 | 489·2 | 500·0 | 488·7 | 491·9 |
| | 27 | 500·3 | 490·0 | 496·9 | 491·5 | 486·5 | 485·5 ^b | 486·0 | 488·8 | 495·0 | 497·6 | 500·2 | 500·0 |
| | 28 | 500·5 | 506·0 | 503·6 | 495·9 | 487·5 | 483·8 | 484·6 | 489·5 | 494·1 | 496·5 | 499·8 | 502·5 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 504·0 | 505·0 | 495·0 | 496·0 | 491·0 | 495·0 | 490·5 ^c | 492·8 | 495·5 | 492·0 | 498·1 | 503·5 |
| | 31 | 512·5 | 512·0 | 507·4 | 501·8 | 500·3 | 494·9 | 491·4 | 492·6 | 493·9 | 499·6 | 504·3 | 502·8 |
| Hourly Means | 493·23 | 493·40 | 490·00 | 487·08 | 483·99 | 481·79 | 483·60 | 485·16 | 488·90 | 490·40 | 491·79 | 491·83 | |

| TEMPERATURE OF THE BILIFAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------------------|-------|------|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| OCTOBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 60·5 | 60·5 | 61·0 | 61·0 | 61·2 | 61·2 | 61·2 | 61·3 | 61·8 | 62·3 | 62·6 | 62·7 |
| | 3 | 57·8 | 57·6 | 57·6 | 58·0 | 58·4 | 58·6 | 59·0 | 59·0 | 58·8 | 59·8 | 58·8 | 59·0 |
| | 4 | 54·5 | 54·5 | 55·0 | 55·5 | 56·0 | 56·6 | 57·0 | 57·0 | 57·5 | 57·7 | 58·3 | 58·5 |
| | 5 | 53·5 | 53·8 | 54·8 | 56·0 | 56·5 | 57·0 | 57·2 | 57·6 | 58·4 | 59·4 | 60·0 | 59·9 |
| | 6 | 55·6 | 56·0 | 56·5 | 57·0 | 58·0 | 58·5 | 59·5 | 59·9 | 61·0 | 61·5 | 61·6 | 61·5 |
| | 7 | 60·5 | 60·5 | 60·5 | 60·5 | 60·5 | 60·5 | 60·5 | 60·5 | 60·4 | 60·4 | 60·6 | 60·6 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 52·8 | 52·5 | 52·5 | 53·0 | 53·5 | 54·0 | 54·0 | 54·3 | 55·0 | 55·4 | 55·7 | 55·6 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 56·5 | 56·5 | 56·5 | 56·5 | 56·5 | 56·5 | 57·0 | 57·4 | 57·6 | 57·8 | 57·7 | 57·7 |
| | 12 | 57·5 | 57·2 | 57·5 | 58·5 | 58·7 | 59·0 | 59·0 | 58·9 | 59·1 | 59·4 | 59·8 | 60·0 |
| | 13 | 53·6 | 53·5 | 53·5 | 53·7 | 54·5 | 55·0 | 55·5 | 56·1 | 56·5 | 56·7 | 56·9 | 56·8 |
| | 14 | 52·0 | 52·0 | 53·0 | 53·5 | 53·0 | 53·4 | 53·7 | 54·2 | 54·2 | 54·0 | 54·0 | 53·7 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 49·0 | 49·0 | 49·0 | 49·0 | 50·0 | 50·5 | 51·0 | 51·5 | 51·9 | 52·0 | 52·4 | 52·6 |
| | 17 | 51·5 | 51·5 | 51·1 | 51·5 | 51·9 | 52·0 | 52·5 | 52·5 | 52·8 | 53·0 | 53·0 | 53·0 |
| | 18 | 51·5 | 51·0 | 51·0 | 51·0 | 51·5 | 52·0 | 52·9 | 52·9 | 53·0 | 53·3 | 53·6 | 53·8 |
| | 19 | 53·8 | 53·2 | 54·0 | 54·5 | 55·0 | 55·2 | 55·2 | 54·9 | 54·5 | 55·7 | 56·0 | 56·4 |
| | 20 | 54·0 | 53·8 | 53·5 | 54·0 | 54·3 | 55·0 | 56·0 | 56·4 | 57·0 | 57·5 | 58·4 | 58·4 |
| | 21 | 58·0 | 57·8 | 58·0 | 58·0 | 57·9 | 58·0 | 58·1 | 58·1 | 58·0 | 58·0 | 57·7 | 57·4 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 47·6 | 47·4 | 48·2 | 49·0 | 49·6 | 50·2 | 50·7 | 51·0 | 51·5 | 52·2 ^a | 53·0 | 52·9 |
| | 24 | 47·5 | 47·5 | 46·5 | 47·5 | 48·8 | 50·0 | 50·5 | 51·2 | 51·5 | 52·4 | 53·0 | 53·0 |
| | 25 | 49·5 | 49·5 | 49·5 | 50·0 | 50·5 | 51·5 | 51·5 | 51·7 | 51·8 | 52·4 | 52·6 | 52·2 |
| | 26 | 48·5 | 48·0 | 47·5 | 48·0 | 49·0 | 49·4 | 49·5 | 50·0 | 50·4 | 50·6 | 50·5 | 50·3 |
| | 27 | 48·5 | 47·6 | 47·0 | 46·8 | 47·0 | 47·5 ^b | 47·7 | 47·5 | 48·0 | 48·1 | 48·4 | 48·4 |
| | 28 | 47·2 | 47·0 | 47·5 | 48·0 | 48·6 | 49·5 | 49·6 | 50·2 | 50·6 | 51·4 | 51·4 | 51·0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 46·5 | 46·0 | 46·0 | 46·0 | 46·5 | 46·9 | 47·0 ^c | 47·1 | 47·3 | 47·8 | 48·2 | 48·0 |
| | 31 | 45·0 | 44·8 | 45·0 | 45·8 | 45·8 | 46·4 | 47·0 | 47·3 | 47·5 | 47·0 | 47·5 | 47·0 |
| Hourly Means | 52·52 | 52·35 | 52·49 | 52·89 | 53·33 | 53·77 | 54·11 | 54·34 | 54·64 | 55·01 | 55·27 | 55·22 | |

^a Nine minutes late.

^b Two minutes late.

^c Four minutes late.

HORIZONTAL FORCE.

From 1st to 9th. One Scale Division = '000099 parts of the H. F. } Change in the magnetic moment of the Bar for 1° Fah. = '000234.
 From 11th to 31st. One Scale Division = '000087 parts of the H. F. }

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 464.4 | 477.1 | 476.4 | 476.6 | 475.5 | 473.0 | 472.3 | 474.3 | 462.7 | 469.7 | 475.8 | 464.6 | 474.84 |
| 482.1 | 482.3 | 481.5 | 482.0 | 482.3 | 479.1 | 485.2 | 485.1 | 482.1 | 485.8 | 489.3 | 493.1 | 481.15 |
| 488.4 | 488.7 | 488.0 | 492.1 | 475.7 | 475.0 | 471.8 | 472.7 | 472.9 | 472.8 | 481.2 | 485.8 | 483.28 |
| 485.2 | 485.1 | 470.6 | 465.7 | 468.8 | 472.4 | 478.6 | 480.4 | 481.8 | 482.6 | 485.1 | 486.1 | 480.29 |
| 477.0 | 481.3 | 479.1 | 474.4 | 468.3 | 476.9 | 474.8 | 486.5 | 486.1 | 486.6 | 485.1 | 485.1 | 479.42 |
| 485.1 | 485.1 | 480.1 | 480.3 | 481.5 | 485.4 | — | — | — | — | — | — | 479.81 |
| — | — | — | — | — | — | 483.9 | 489.6 | 487.7 | 496.5 | 494.1 | 488.3 | — |
| 493.3 | 493.9 | 493.1 | 492.6 | 491.5 | 491.7 | 491.3 | 492.1 | 493.3 | 488.4 | 492.6 | 490.8 | 487.20 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 490.0 | 488.4 | 488.8 | 489.2 | 488.8 | 490.6 | 489.8 | 489.5 | 490.0 | 489.5 | 489.0 | 490.0 | 485.52 |
| 480.9 | 481.0 | 476.2 | 482.0 | 486.0 | 484.0 | 483.8 | 482.9 | 487.5 | 488.2 | 490.8 | 489.0 | 482.67 |
| 489.5 | 489.4 | 488.8 | 489.0 | 486.8 | 479.3 | 489.8 | 485.5 | 487.3 | 488.9 | 497.4 | 505.0 | 487.90 |
| 482.5 | 471.0 | 485.5 | 484.8 | 485.5 | 488.2 | — | — | — | — | — | — | 489.05 |
| — | — | — | — | — | — | 486.1 | 482.8 | 490.0 | 495.0 | 489.8 | 490.8 | — |
| 493.9 | 492.3 | 496.8 | 497.0 | 495.0 | 498.0 | 496.5 | 496.0 | 491.2 | 491.3 | 486.6 | 497.5 | 492.14 |
| 481.0 | 484.0 | 484.8 | 489.1 | 488.8 | 490.5 | 495.7 | 495.6 | 488.5 | 498.5 | 500.5 | 485.0 | 490.41 |
| 490.4 | 492.4 | 493.3 | 484.3 | 491.5 | 475.0 | 491.0 | 492.9 | 491.6 | 493.5 | 495.0 | 496.4 | 492.35 |
| 493.0 | 492.6 | 494.8 | 486.1 | 496.0 | 475.0 | 475.9 | 479.1 | 481.6 | 485.1 | 486.0 | 490.0 | 489.56 |
| 487.9 | 486.0 | 488.2 | 480.1 | 485.4 | 488.9 | 487.2 | 488.1 | 488.5 | 489.4 | 488.5 | 489.5 | 487.37 |
| 491.6 | 491.5 | 490.2 | 491.2 | 492.8 | 493.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 499.4 | 497.6 | 499.6 | 495.6 | 498.6 | 500.0 | 489.44 |
| 502.3 | 501.8 | 501.2 | 500.5 | 498.6 | 498.5 | 497.8 | 502.2 | 504.6 | 505.0 | 504.9 | 503.6 | 500.60 |
| 497.8 | 499.5 | 501.0 | 500.9 | 499.0 | 496.9 | 496.6 | 493.7 | 489.0 | 489.7 | 502.6 | 501.5 | 498.81 |
| 497.8 | 498.9 | 501.7 | 500.0 | 502.0 | 502.1 | 498.1 | 497.3 | 498.6 | 495.9 | 500.7 | 496.6 | 498.20 |
| 498.9 | 494.1 | 494.7 | 495.8 | 492.6 | 491.8 | 490.0 | 498.8 | 499.2 | 500.7 | 500.2 | 503.5 | 493.25 |
| 500.9 | 501.2 | 499.7 | 499.5 | 498.4 | 500.6 | 500.8 | 500.0 | 501.1 | 500.5 | 502.0 | 503.0 | 496.92 |
| 503.8 | 501.1 | 502.0 | 502.0 | 503.4 | 502.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 500.9 | 502.1 | 504.6 | 507.8 | 503.2 | 504.0 | 499.23 |
| 498.4 | 499.0 | 500.1 | 500.0 | 498.7 | 502.3 | 498.0 | 501.1 | 503.9 | 501.1 | 504.2 | 508.0 | 498.88 |
| 501.9 | 502.3 | 499.3 | 500.1 | 499.3 | 496.9 | 496.7 | 503.9 | 499.9 | 497.5 | 501.9 | 504.0 | 500.72 |
| 490.32 | 490.40 | 490.24 | 489.40 | 489.29 | 488.33 | 489.28 | 490.79 | 490.53 | 491.82 | 493.80 | 494.05 | 489.56 |

TEMPERATURE OF THE BIPILAR MAGNET.

| ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 62.5 | 62.1 | 61.5 | 61.0 | 60.5 | 60.0 | 59.8 | 59.2 | 58.8 | 58.6 | 58.4 | 58.0 | 60.74 |
| 58.2 | 57.8 | 57.2 | 57.0 | 56.6 | 56.4 | 56.2 | 55.7 | 55.0 | 55.1 | 54.8 | 54.5 | 57.33 |
| 58.4 | 57.8 | 57.4 | 57.2 | 56.5 | 56.0 | 55.7 | 55.0 | 55.0 | 54.6 | 54.5 | 54.0 | 56.26 |
| 59.7 | 59.2 | 58.8 | 58.7 | 58.4 | 58.0 | 57.6 | 57.4 | 57.2 | 57.0 | 56.8 | 56.0 | 57.45 |
| 61.2 | 61.0 | 61.0 | 60.8 | 60.8 | 60.6 | 60.6 | 60.5 | 60.5 | 60.4 | 60.4 | 60.5 | 59.79 |
| 60.6 | 60.8 | 61.0 | 61.0 | 60.7 | 60.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 54.8 | 54.8 | 54.2 | 53.7 | 53.5 | 53.0 | 58.94 |
| 55.5 | 55.5 | 55.5 | 55.6 | 55.6 | 55.6 | 55.5 | 55.5 | 54.6 | 54.0 | 53.7 | 53.4 | 54.51 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 58.0 | 58.0 | 57.7 | 57.6 | 57.5 | 57.8 | 57.8 | 58.2 | 58.2 | 58.0 | 57.8 | 57.6 | 57.43 |
| 60.0 | 59.2 | 58.5 | 58.2 | 57.5 | 56.8 | 56.3 | 55.6 | 55.0 | 54.8 | 54.3 | 54.2 | 57.71 |
| 56.2 | 55.6 | 55.5 | 55.4 | 55.0 | 54.5 | 54.0 | 53.6 | 53.5 | 53.3 | 53.0 | 52.5 | 54.77 |
| 53.5 | 53.2 | 53.0 | 52.8 | 52.5 | 52.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 48.5 | 48.5 | 48.6 | 48.4 | 48.2 | 48.6 | 52.02 |
| 52.4 | 52.5 | 52.6 | 52.0 | 51.6 | 51.5 | 51.5 | 51.3 | 51.2 | 51.7 | 52.0 | 51.5 | 51.24 |
| 52.5 | 52.4 | 52.0 | 51.6 | 51.4 | 51.0 | 51.0 | 51.4 | 51.6 | 51.5 | 51.2 | 51.5 | 51.89 |
| 54.2 | 54.0 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.6 | 54.2 | 54.2 | 53.8 | 54.0 | 53.29 |
| 56.0 | 55.4 | 54.6 | 54.0 | 53.7 | 53.5 | 53.3 | 53.1 | 53.3 | 53.4 | 53.5 | 54.0 | 54.42 |
| 58.2 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.2 | 58.2 | 58.0 | 58.0 | 58.0 | 56.87 |
| 56.6 | 56.0 | 55.5 | 55.0 | 55.0 | 54.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 49.5 | 49.2 | 49.0 | 48.7 | 48.5 | 48.0 | 55.02 |
| 52.7 | 52.5 | 51.3 | 50.5 | 50.2 | 50.0 | 49.5 | 49.0 | 48.6 | 48.0 | 48.0 | 47.7 | 50.05 |
| 52.8 | 52.7 | 52.2 | 51.7 | 51.0 | 50.4 | 50.0 | 49.5 | 49.4 | 49.4 | 49.2 | 49.5 | 50.30 |
| 51.6 | 51.2 | 51.0 | 50.5 | 49.8 | 49.4 | 49.0 | 47.8 | 47.9 | 48.8 | 48.8 | 48.8 | 50.30 |
| 50.1 | 50.0 | 49.6 | 49.4 | 49.2 | 49.0 | 48.7 | 48.6 | 48.6 | 48.8 | 48.8 | 48.5 | 49.21 |
| 48.5 | 48.5 | 48.5 | 48.8 | 48.4 | 48.0 | 48.6 | 48.2 | 48.0 | 47.7 | 47.4 | 47.4 | 47.94 |
| 50.2 | 50.0 | 49.4 | 49.0 | 48.7 | 48.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 46.5 | 46.5 | 46.8 | 47.0 | 47.0 | 46.5 | 48.68 |
| 47.6 | 47.2 | 47.0 | 46.8 | 46.0 | 46.4 | 46.2 | 45.3 | 45.1 | 45.2 | 45.1 | 45.0 | 46.51 |
| 46.8 | 46.5 | 46.4 | 46.2 | 46.3 | 46.0 | 45.9 | 45.8 | 45.5 | 45.2 | 44.8 | 44.6 | 46.11 |
| 54.96 | 54.68 | 54.39 | 54.13 | 53.82 | 53.56 | 52.76 | 52.50 | 52.32 | 52.22 | 52.06 | 51.89 | 53.55 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr = '00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| NOVEMBER. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| | 1 | 505.0 | 509.5 | 505.5 | 505.5 | 501.9 | 501.4 | 500.0 | 500.3 | 501.5 | 504.2 | 504.0 | 507.6 |
| | 2 | 508.5 | 510.5 | 508.5 | 506.0 | 508.1 | 502.4 | 501.1 | 496.8 | 499.8 | 504.1 | 503.7 | 493.9 |
| | 3 | 504.0 | 507.0 | 500.8 | 496.5 | 498.5 | 499.3 | 498.7 | 497.8 | 495.7 | 501.8 | 506.2 | 507.0 |
| | 4 | 505.5 | 510.0 | 511.0 | 508.0 | 507.3 | 506.2 | 502.5 | 507.6 | 509.0 | 514.1 | 512.2 | 511.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 525.0 | 521.0 | 515.3 | 511.3 | 513.4 | 508.1 | 507.4 | 511.7 | 515.9 | 516.0 | 516.8 | 517.9 |
| | 7 | 516.0 | 514.0 | 509.3 | 504.5 | 496.5 | 501.0 | 502.0 | 497.0 | 508.2 | 509.9 | 512.2 | 511.0 |
| | 8 | 512.0 | 513.0 | 508.0 | 510.0 | 503.0 | 508.8 | 507.4 | 510.0 | 509.3 ^a | 508.2 | 507.8 | 511.0 |
| | 9 | 512.5 | 509.3 | 502.8 | 498.3 | 500.6 | 500.5 | 500.5 | 501.4 | 507.4 | 509.7 | 510.5 | 511.9 |
| | 10 | 512.0 | 508.5 | 505.6 | 501.5 | 498.7 | 497.3 | 501.8 | 502.1 | 504.7 | 507.3 | 508.9 | 508.2 |
| | 11 | 506.7 | 507.8 | 503.6 | 502.8 | 501.0 | 500.0 ^b | 498.0 | 498.5 | 503.1 | 505.9 | 506.8 | 509.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 519.0 | 516.0 | 515.4 | 507.5 | 484.0 | 491.0 | 502.0 | 503.5 | 508.6 | 498.6 | 509.1 | 509.1 |
| | 14 | 516.8 | 516.5 | 516.0 | 507.0 | 506.4 | 507.8 | 508.8 | 510.3 | 513.1 | 517.3 | 521.4 | 493.7 |
| | 15 | 521.0 | 516.0 | 514.6 | 506.0 | 508.0 | 510.5 | 509.0 | 509.3 | 510.1 | 512.0 | 516.6 | 518.2 |
| | 16 | 513.5 | 513.0 | 509.1 | 505.0 | 506.0 | 505.3 | 506.5 | 501.8 | 501.7 | 499.4 | 501.0 | 500.7 |
| | 17 | 509.0 | 508.0 | 504.0 | 502.0 | 504.0 | 501.3 | 502.6 | 505.0 | 503.4 ^a | 503.2 | 504.5 | 508.8 |
| | 18 | 507.5 | 504.0 | 500.4 | 497.9 | 497.9 | 498.5 | 500.2 | 506.1 | 508.5 | 509.4 | 508.9 | 508.1 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 512.3 | 510.0 | 506.6 | 503.0 | 501.1 | 502.0 | 508.0 | 509.0 | 513.0 ^a | 514.0 | 514.9 | 513.6 |
| | 21 | 511.0 | 509.5 | 506.0 | 502.0 | 498.9 | 498.0 | 498.6 | 501.5 | 501.0 | 502.7 | 504.6 | 506.1 |
| | 22 | 509.3 | 506.0 | 505.4 | 504.8 | 504.1 | 502.8 | 504.5 | 509.0 | 513.2 | 516.1 | 515.6 | 516.8 |
| | 23 | 514.0 | 513.0 | 508.0 | 505.0 | 508.3 | 507.2 | 512.0 | 515.0 | 513.0 ^c | 511.6 | 512.8 | 513.4 |
| | 24 | 511.8 | 505.0 | 510.0 | 505.5 | 498.0 | 500.0 | 502.3 | 502.0 | 504.7 | 502.8 | 504.8 | 506.2 |
| | 25 | 504.0 | 502.3 | 497.8 | 493.9 | 490.7 | 492.4 | 493.8 | 497.7 | 502.3 | 504.2 | 505.7 | 506.3 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 522.0 | 522.5 | 520.0 | 516.0 | 512.0 | 518.0 | 506.0 | 509.8 | 515.2 | 517.5 | 522.2 | 523.0 |
| | 28 | 526.5 | 527.0 | 526.0 | 522.0 | 518.0 | 511.8 | 507.0 | 508.9 | 514.1 | 519.0 | 519.3 | 521.2 |
| | 29 | 520.3 | 518.0 | 518.7 | 512.8 | 513.0 | 512.3 | 511.5 | 510.9 | 510.7 | 516.5 | 517.0 | 518.0 |
| | 30 | 518.5 | 520.0 | 521.6 | 520.0 | 517.3 | 513.2 | 514.0 | 514.2 | 515.5 | 511.3 | 512.8 | 516.2 |
| Hourly Means | 513.22 | 512.21 | 509.62 | 505.95 | 503.72 | 503.73 | 504.08 | 505.28 | 507.80 | 509.11 | 510.78 | 510.33 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|------|
| NOVEMBER. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| | 1 | 44.1 | 44.0 | 44.5 | 44.3 | 44.3 | 44.5 | 44.8 | 45.0 | 45.0 | 45.4 | 45.5 |
| | 2 | 46.8 | 46.8 | 46.5 | 46.5 | 46.9 | 47.1 | 47.4 | 48.0 | 47.9 | 47.7 | 48.1 |
| | 3 | 45.5 | 45.2 | 45.0 | 45.0 | 45.5 | 45.9 | 46.0 | 46.4 | 46.8 | 46.4 | 46.4 |
| | 4 | 44.0 | 44.0 | 44.4 | 45.5 | 45.5 | 45.5 | 45.5 | 45.4 | 45.6 | 45.6 | 45.3 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 37.5 | 37.5 | 37.2 | 38.0 | 38.5 | 39.5 | 40.2 | 40.6 | 41.4 | 42.0 | 42.4 |
| | 7 | 42.5 | 43.2 | 43.0 | 43.5 | 43.5 | 44.0 | 44.5 | 45.0 | 45.4 | 45.6 | 45.5 |
| | 8 | 45.0 | 44.8 | 44.8 | 44.8 | 44.8 | 45.0 | 45.5 | 45.5 | 45.8 ^a | 46.0 | 45.8 |
| | 9 | 46.0 | 45.5 | 45.5 | 45.5 | 45.5 | 46.0 | 46.4 | 46.6 | 47.0 | 47.2 | 47.6 |
| | 10 | 47.1 | 47.0 | 46.9 | 47.0 | 47.0 | 47.5 | 48.0 | 48.0 | 48.2 | 48.6 | 49.2 |
| | 11 | 48.8 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 49.0 | 49.1 | 49.3 | 49.7 | 49.8 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 41.5 | 41.5 | 41.0 | 41.0 | 41.3 | 41.8 | 42.0 | 42.6 | 43.2 | 43.6 | 43.6 |
| | 14 | 40.0 | 40.0 | 40.0 | 40.5 | 41.0 | 41.5 | 42.0 | 42.5 | 43.0 | 43.6 | 44.0 |
| | 15 | 41.5 | 41.4 | 41.0 | 41.0 | 41.5 | 42.0 | 42.5 | 42.8 | 42.8 | 43.4 | 43.6 |
| | 16 | 46.6 | 47.0 | 47.5 | 47.5 | 47.5 | 48.0 | 48.5 | 49.6 | 50.3 | 50.8 | 51.2 |
| | 17 | 48.0 | 47.4 | 46.5 | 46.5 | 46.8 | 47.5 | 47.5 | 47.7 | 47.6 ^a | 47.5 | 47.3 |
| | 18 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 50.0 | 50.0 | 50.0 | 50.2 | 50.2 | 50.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 45.1 | 45.0 | 44.2 | 45.0 | 45.7 | 46.1 | 47.0 | 47.5 | 48.1 ^a | 48.5 | 49.3 |
| | 21 | 47.5 | 47.5 | 47.5 | 47.8 | 48.5 | 48.5 | 49.0 | 49.4 | 49.5 | 49.5 | 49.5 |
| | 22 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 46.6 | 46.9 | 47.2 | 47.4 | 47.6 | 47.3 |
| | 23 | 45.0 | 45.0 | 45.0 | 45.0 | 45.3 | 45.8 | 46.5 | 46.9 | 47.1 ^c | 47.3 | 47.5 |
| | 24 | 51.0 | 51.5 | 51.6 | 51.6 | 51.7 | 51.5 | 52.0 | 52.0 | 52.5 | 53.2 | 53.4 |
| | 25 | 53.2 | 52.6 | 52.4 | 52.5 | 52.2 | 51.8 | 51.6 | 51.6 | 52.0 | 52.4 | 52.5 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 39.0 | 39.4 | 39.4 | 38.6 | 38.6 | 38.7 | 39.5 | 39.8 | 40.6 | 41.5 | 42.2 |
| | 28 | 39.0 | 38.6 | 38.8 | 40.0 | 40.5 | 41.4 | 42.0 | 42.4 | 42.6 | 42.6 | 42.8 |
| | 29 | 43.0 | 43.0 | 42.7 | 43.0 | 43.0 | 43.4 | 43.5 | 43.7 | 43.9 | 44.9 | 45.4 |
| | 30 | 43.5 | 43.0 | 42.6 | 43.0 | 43.2 | 43.4 | 43.4 | 43.7 | 43.8 | 43.8 | 43.8 |
| Hourly Means | 44.91 | 44.84 | 44.73 | 44.93 | 45.13 | 45.44 | 45.82 | 46.12 | 46.42 | 46.72 | 46.89 | |

^a Four minutes late.

^b Seven minutes late.

^c Three minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .000234

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 506.8 | Sc. Div. 503.2 | Sc. Div. 505.2 | Sc. Div. 501.0 | Sc. Div. 499.1 | Sc. Div. 499.0 | Sc. Div. 517.6 | Sc. Div. 507.9 | Sc. Div. 505.5 | Sc. Div. 503.7 | Sc. Div. 505.5 | Sc. Div. 508.5 | Sc. Div. 504.56 |
| 485.6 | 482.5 | 495.6 | 498.1 | 497.9 | 487.3 | 489.4 | 495.2 | 489.6 | 498.0 | 500.0 | 500.5 | 498.46 |
| 507.0 | 505.9 | 504.2 | 502.1 | 503.0 | 503.2 | 503.6 | 501.8 | 503.0 | 504.3 | 505.5 | 510.0 | 502.79 |
| 509.2 | 509.7 | 509.5 | 509.0 | 506.8 | 505.1 | — | — | — | — | — | — | 510.63 |
| — | — | — | — | — | — | 514.5 | 513.8 | 516.6 | 518.7 | 518.2 | 519.0 | — |
| 516.1 | 515.2 | 515.8 | 516.2 | 516.0 | 513.0 | 513.9 | 514.5 | 514.2 | 514.8 | 515.0 | 515.3 | 514.99 |
| 512.5 | 511.1 | 513.2 | 509.9 | 509.2 | 506.4 | 510.2 | 510.4 | 511.3 | 511.9 | 512.0 | 512.0 | 508.82 |
| 508.6 | 502.3 | 505.0 | 511.0 | 502.7 | 504.2 | 497.7 | 502.0 | 503.4 | 505.9 | 504.0 | 504.0 | 506.64 |
| 510.5 | 510.1 | 509.9 | 510.0 | 510.6 | 511.0 | 510.1 | 510.0 | 507.8 | 504.5 | 502.9 | 501.0 | 506.83 |
| 509.2 | 506.4 | 504.8 | 503.2 | 501.3 | 502.0 | 502.8 | 502.8 | 504.0 | 506.0 | 505.8 | 506.8 | 504.65 |
| 510.0 | 508.4 | 507.5 | 506.3 | 505.9 | 505.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 510.0 | 509.5 | 510.8 | 505.1 | 507.6 | 512.0 | 505.90 |
| 510.0 | 510.2 | 505.2 | 502.2 | 504.0 | 510.3 | 511.6 | 512.3 | 512.6 | 512.4 | 513.3 | 514.0 | 507.58 |
| 506.4 | 514.1 | 512.8 | 514.2 | 512.3 | 512.2 | 513.2 | 512.6 | 514.4 | 515.2 | 516.5 | 518.5 | 512.40 |
| 516.5 | 513.9 | 505.9 | 511.6 | 515.0 | 515.2 | 515.2 | 512.5 | 513.7 | 510.0 | 508.3 | 514.0 | 512.63 |
| 506.2 | 504.4 | 505.8 | 502.4 | 502.6 | 501.0 | 505.0 | 501.0 | 502.6 | 504.6 | 505.5 | 505.0 | 504.55 |
| 507.0 | 506.0 | 506.6 | 506.5 | 505.0 | 503.8 | 504.9 | 504.0 | 502.8 | 505.1 | 505.9 | 508.0 | 505.06 |
| 508.9 | 507.2 | 507.0 | 507.0 | 505.5 | 505.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 509.8 | 510.2 | 510.8 | 501.3 | 513.8 | 514.9 | 506.24 |
| 512.0 | 513.3 | 514.0 | 512.1 | 508.3 | 503.3 | 509.3 | 511.0 | 507.0 | 511.2 | 509.0 | 511.0 | 509.54 |
| 505.7 | 506.6 | 506.2 | 506.8 | 505.8 | 505.5 | 501.0 | 505.4 | 505.0 | 507.3 | 507.5 | 509.0 | 504.65 |
| 517.8 | 515.8 | 512.8 | 510.0 | 508.2 | 506.8 | 505.2 | 508.8 | 510.5 | 510.6 | 511.9 | 512.3 | 509.93 |
| 514.5 | 514.2 | 514.5 | 513.5 | 511.9 | 509.8 | 510.0 | 509.8 | 510.2 | 512.0 | 513.1 | 512.0 | 511.62 |
| 504.1 | 498.0 | 498.0 | 498.1 | 501.1 | 500.7 | 502.4 | 504.3 | 502.8 | 501.0 | 502.8 | 504.0 | 502.93 |
| 505.0 | 505.1 | 505.0 | 505.0 | 504.0 | 507.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 516.1 | 517.0 | 519.5 | 521.2 | 522.5 | 519.4 | 505.77 |
| 523.0 | 521.8 | 521.4 | 520.0 | 518.3 | 518.0 | 517.1 | 519.8 | 522.0 | 519.6 | 523.8 | 526.3 | 518.97 |
| 521.2 | 522.4 | 520.7 | 520.5 | 519.2 | 518.5 | 518.0 | 518.8 | 520.1 | 520.0 | 519.2 | 521.0 | 519.18 |
| 513.1 | 516.3 | 501.2 | 509.2 | 508.3 | 508.1 | 508.3 | 511.8 | 514.6 | 510.7 | 515.0 | 517.0 | 513.07 |
| 515.5 | 515.8 | 515.4 | 515.0 | 514.0 | 510.9 | 515.2 | 512.5 | 514.4 | 515.0 | 511.8 | 520.1 | 515.43 |
| 510.09 | 509.23 | 508.58 | 508.50 | 507.54 | 506.69 | 508.94 | 509.22 | 509.58 | 509.62 | 510.63 | 512.14 | 508.61 |

TEMPERATURE OF THE BIPILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 45.5 | 45.4 | 45.6 | 45.5 | 45.5 | 45.8 | 45.8 | 46.2 | 46.6 | 46.5 | 46.5 | 46.5 | 45.35 |
| 47.8 | 47.8 | 47.8 | 47.8 | 47.5 | 47.2 | 46.8 | 45.9 | 45.7 | 45.5 | 45.5 | 45.5 | 47.01 |
| 46.8 | 46.6 | 46.1 | 46.2 | 46.1 | 45.8 | 45.7 | 45.5 | 45.4 | 45.0 | 44.6 | 44.4 | 45.77 |
| 44.4 | 44.3 | 43.9 | 43.8 | 43.5 | 43.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.0 | 38.0 | 37.4 | 37.4 | 37.3 | 37.3 | 42.92 |
| 42.8 | 43.0 | 42.6 | 42.2 | 42.0 | 42.0 | 42.2 | 42.4 | 42.4 | 42.5 | 42.5 | 42.5 | 41.10 |
| 45.1 | 45.1 | 44.9 | 45.0 | 44.8 | 44.9 | 45.2 | 45.5 | 45.6 | 45.6 | 45.4 | 45.4 | 44.72 |
| 46.4 | 46.8 | 46.7 | 46.6 | 46.4 | 46.4 | 46.5 | 46.3 | 46.1 | 45.9 | 46.1 | 46.0 | 45.82 |
| 46.6 | 46.3 | 46.4 | 46.4 | 46.2 | 46.2 | 46.2 | 46.4 | 46.5 | 46.6 | 46.8 | 47.0 | 46.39 |
| 49.0 | 48.8 | 49.2 | 49.0 | 49.0 | 49.3 | 49.8 | 49.6 | 49.5 | 49.4 | 49.0 | 48.8 | 48.50 |
| 49.7 | 49.8 | 49.0 | 48.6 | 48.0 | 47.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.4 | 41.5 | 41.5 | 41.6 | 41.6 | 41.5 | 47.05 |
| 42.5 | 42.2 | 42.0 | 41.7 | 41.5 | 41.2 | 41.1 | 40.8 | 40.6 | 40.4 | 40.2 | 40.0 | 41.68 |
| 43.8 | 43.5 | 43.0 | 42.8 | 42.2 | 41.4 | 41.2 | 40.9 | 40.9 | 41.1 | 41.5 | 41.5 | 41.90 |
| 44.2 | 44.0 | 44.0 | 44.2 | 44.2 | 44.2 | 44.0 | 43.8 | 44.7 | 45.8 | 46.4 | 46.5 | 43.48 |
| 51.3 | 51.3 | 51.1 | 50.6 | 50.2 | 50.0 | 49.7 | 49.6 | 49.4 | 49.2 | 48.6 | 48.4 | 49.38 |
| 48.2 | 48.5 | 49.0 | 49.4 | 49.8 | 49.6 | 49.8 | 49.5 | 49.2 | 49.5 | 49.5 | 49.5 | 48.30 |
| 49.5 | 49.4 | 49.0 | 48.4 | 48.0 | 47.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.2 | 45.0 | 45.2 | 45.4 | 45.5 | 45.3 | 48.38 |
| 49.0 | 48.6 | 48.4 | 48.6 | 48.6 | 48.5 | 48.0 | 47.7 | 48.0 | 48.2 | 47.9 | 47.7 | 47.49 |
| 49.6 | 49.3 | 49.3 | 48.9 | 48.7 | 49.2 | 49.2 | 48.0 | 47.5 | 47.2 | 47.0 | 47.2 | 48.55 |
| 47.2 | 47.0 | 47.0 | 47.0 | 46.8 | 46.5 | 46.2 | 46.0 | 46.0 | 45.6 | 45.4 | 45.1 | 46.70 |
| 47.6 | 47.8 | 48.0 | 48.6 | 48.8 | 48.6 | 48.6 | 49.2 | 49.6 | 50.0 | 50.6 | 50.6 | 47.58 |
| 52.8 | 52.6 | 52.3 | 52.2 | 51.8 | 51.7 | 51.9 | 52.0 | 52.5 | 52.8 | 53.0 | 53.2 | 52.24 |
| 51.4 | 50.7 | 50.2 | 49.5 | 49.2 | 48.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.5 | 38.9 | 38.8 | 38.7 | 39.0 | 39.0 | 48.34 |
| 41.6 | 40.8 | 40.8 | 39.8 | 39.6 | 39.4 | 39.5 | 39.2 | 39.0 | 38.7 | 38.7 | 39.0 | 39.81 |
| 42.7 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 43.0 | 43.0 | 42.6 | 42.6 | 42.6 | 42.5 | 41.87 |
| 45.6 | 45.6 | 45.4 | 45.0 | 44.6 | 44.5 | 44.5 | 44.4 | 44.4 | 44.2 | 43.8 | 43.6 | 44.19 |
| 44.2 | 44.0 | 44.0 | 44.0 | 43.5 | 43.9 | 44.1 | 44.5 | 44.3 | 44.8 | 45.2 | 45.0 | 43.87 |
| 46.74 | 46.60 | 46.47 | 46.32 | 46.12 | 45.99 | 45.12 | 44.99 | 44.98 | 45.01 | 45.01 | 44.96 | 45.71 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| DECEMBER. | 1 | 518·3 | 517·5 | 513·3 | 513·0 | 502·4 | 498·9 | 498·0 | 499·5 | 506·1 | 510·0 | 506·8 | 511·6 |
| | 2 | 517·0 | 512·6 | 498·3 | 508·5 | 517·5 | 512·4 | 508·5 | 506·3 | 510·8 | 508·5 | 509·9 | 511·5 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 520·0 | 520·2 | 518·5 | 515·0 | 509·8 | 507·8 | 507·6 | 511·9 | 512·9 | 513·1 | 515·4 | 516·1 |
| | 5 | 517·0 | 518·0 | 519·0 | 517·9 | 514·8 | 509·3 | 509·0 | 512·1 | 513·4 | 514·4 | 516·5 | 516·0 |
| | 6 | 521·2 | 520·0 | 524·3 | 523·5 | 525·1 | 520·8 | 517·1 | 518·2 | 518·0 | 517·2 | 519·0 | 509·7 |
| | 7 | 517·0 | 517·0 | 516·1 | 513·8 | 512·0 | 510·4 | 508·5 | 510·9 | 513·9 | 514·9 | 516·2 | 517·3 |
| | 8 | 519·0 | 520·0 | 520·0 | 522·1 | 512·0 | 506·0 | 506·5 | 497·6 | 501·8 | 495·0 | 502·4 | 509·3 |
| | 9 | 515·0 | 515·5 | 511·4 | 514·0 | 514·0 | 510·5 | 503·5 | 508·8 | 508·6 | 509·7 | 515·3 | 518·0 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 521·6 | 521·0 | 518·9 | 518·0 | 510·5 | 500·5 | 506·3 | 509·0 | 498·7 | 517·8 | 519·6 | 517·0 |
| | 12 | 519·6 | 515·0 | 509·1 | 501·0 | 509·0 | 510·9 | 508·8 | 511·8 | 509·7 | 517·1 | 520·6 | 516·3 |
| | 13 | 528·0 | 529·8 | 529·1 | 526·3 | 524·5 | 521·5 | 522·8 | 510·1 | 515·0 | 515·4 | 525·1 | 521·3 |
| | 14 | 525·5 | 524·5 | 519·0 | 523·8 | 522·0 | 514·5 ^a | 513·5 | 514·1 | 514·9 | 512·7 | 518·7 | 522·5 |
| | 15 | 516·0 | 516·5 | 515·0 | 509·5 | 511·0 | 509·0 ^a | 505·0 | 504·6 | 505·0 | 509·1 | 511·9 | 515·8 |
| | 16 | 519·0 | 518·0 | 520·0 | 519·0 | 518·0 | 512·0 | 506·5 | 507·1 | 509·2 | 512·6 | 516·0 | 518·1 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 525·0 | 525·0 | 527·0 | 526·5 | 524·0 | 516·0 | 513·0 | 512·0 | 513·4 | 514·0 | 518·7 | 523·0 |
| | 19 | 522·8 | 521·5 | 523·0 | 524·0 | 523·0 | 522·0 | 519·6 | 517·7 | 516·8 | 517·9 | 520·5 | 521·2 |
| | 20 | 522·0 | 524·8 | 524·0 | 524·0 | 519·5 | 516·3 | 511·5 | 514·0 | 516·0 | 515·5 | 516·7 | 515·1 |
| | 21 | 515·2 | 517·5 | 516·0 | 513·2 | 511·8 | 509·7 | 508·9 | 509·0 | 513·9 | 516·7 | 512·8 | 510·7 |
| | 22 | 515·9 | 517·0 | 516·6 | 515·0 | 511·5 | 509·3 | 511·5 | 513·3 | 517·2 | 521·8 | 520·4 | 518·2 |
| | 23 | 517·5 | 517·5 | 515·3 | 511·0 | 504·0 | 500·5 | 502·5 | 507·8 | 518·0 | 521·2 | 520·2 | 519·0 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 522·0 | 524·0 | 523·0 | 518·8 | 512·0 | 507·0 | 503·0 | 508·5 | 512·0 | 516·1 | 520·4 | 522·0 |
| | 27 | 518·0 | 522·0 | 518·1 | 518·0 | 513·0 | 497·3 | 491·9 | 494·0 | 506·0 | 511·9 | 513·1 | 513·9 |
| | 28 | 516·7 | 514·5 | 503·6 | 516·5 | 510·0 | 500·4 | 495·0 | 495·8 | 500·8 | 505·7 | 507·9 | 507·3 |
| | 29 | 518·0 | 519·8 | 518·7 | 518·5 | 516·0 | 510·5 | 509·0 | 506·3 | 509·1 | 503·5 | 512·6 | 517·7 |
| | 30 | 520·5 | 523·5 | 520·9 | 522·4 | 519·0 | 513·8 | 510·2 | 513·4 | 515·4 | 517·8 | 518·9 | 519·6 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 519·51 | 519·71 | 517·53 | 517·33 | 514·66 | 509·89 | 507·91 | 508·55 | 511·02 | 513·18 | 515·82 | 516·33 | |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| DECEMBER. | 1 | 45·0 | 44·7 | 44·5 | 44·7 | 44·7 | 44·8 | 45·0 | 45·0 | 45·0 | 45·3 | 45·4 | 45·4 |
| | 2 | 46·5 | 46·2 | 46·0 | 46·0 | 45·5 | 45·5 | 46·0 | 46·2 | 47·3 | 47·5 | 47·4 | 47·2 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 41·0 | 41·8 | 40·0 | 41·7 | 42·3 | 42·5 | 43·0 | 43·8 | 43·6 | 43·8 | 44·0 | 44·4 |
| | 5 | 44·3 | 44·1 | 44·0 | 43·6 | 43·5 | 43·5 | 43·5 | 43·0 | 42·9 | 42·9 | 42·9 | 42·8 |
| | 6 | 41·0 | 41·3 | 41·0 | 41·0 | 41·0 | 42·0 | 42·0 | 42·4 | 42·4 | 42·2 | 42·2 | 41·8 |
| | 7 | 44·4 | 44·2 | 44·0 | 43·6 | 43·4 | 44·0 | 44·4 | 44·7 | 45·0 | 45·0 | 45·4 | 45·0 |
| | 8 | 44·5 | 44·5 | 44·0 | 43·6 | 43·6 | 43·6 | 44·0 | 44·0 | 43·8 | 43·6 | 43·6 | 44·0 |
| | 9 | 44·5 | 44·2 | 44·0 | 43·8 | 44·0 | 44·0 | 44·5 | 44·8 | 44·8 | 44·6 | 44·8 | 44·6 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 39·6 | 40·0 | 40·6 | 41·0 | 41·5 | 42·2 | 42·5 | 42·7 | 43·2 | 43·7 | 44·0 | 44·0 |
| | 12 | 40·6 | 39·8 | 38·5 | 38·5 | 39·0 | 39·5 | 39·0 | 39·0 | 38·5 | 38·5 | 38·5 | 38·2 |
| | 13 | 32·5 | 32·5 | 32·6 | 33·0 | 33·6 | 34·5 | 35·5 | 36·0 | 37·0 | 37·8 | 38·4 | 38·1 |
| | 14 | 38·5 | 38·5 | 38·5 | 38·8 | 40·0 | 40·6 ^a | 41·0 | 41·5 | 42·0 | 42·5 | 42·9 | 43·5 |
| | 15 | 46·0 | 46·0 | 46·0 | 45·2 | 45·0 | 46·0 ^a | 46·4 | 46·5 | 46·8 | 46·8 | 47·0 | 47·4 |
| | 16 | 45·5 | 45·5 | 45·2 | 45·0 | 45·0 | 45·5 | 45·6 | 45·6 | 45·7 | 46·2 | 46·5 | 46·5 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 42·5 | 42·5 | 42·5 | 42·5 | 43·0 | 43·5 | 44·0 | 44·5 | 44·5 | 44·5 | 44·5 | 44·2 |
| | 19 | 43·7 | 43·5 | 43·0 | 43·0 | 43·3 | 44·0 | 44·5 | 44·8 | 44·6 | 45·0 | 45·2 | 45·0 |
| | 20 | 44·3 | 44·2 | 44·0 | 44·0 | 44·5 | 45·0 | 45·5 | 46·0 | 46·4 | 46·4 | 46·8 | 47·5 |
| | 21 | 49·4 | 49·4 | 49·2 | 48·8 | 48·5 | 48·5 | 48·8 | 49·2 | 49·6 | 50·0 | 50·2 | 50·2 |
| | 22 | 47·5 | 47·0 | 46·6 | 46·4 | 46·5 | 47·0 | 47·5 | 48·0 | 48·2 | 48·4 | 48·5 | 48·1 |
| | 23 | 46·6 | 46·5 | 46·0 | 45·5 | 45·4 | 45·4 | 45·4 | 45·4 | 45·4 | 45·6 | 45·8 | 46·2 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 42·0 | 42·0 | 41·6 | 41·5 | 41·4 | 41·4 | 41·5 | 42·0 | 42·9 | 43·6 | 43·8 | 44·0 |
| | 27 | 47·4 | 47·5 | 47·5 | 47·8 | 48·4 | 48·5 | 48·5 | 48·5 | 48·5 | 48·7 | 48·8 | 48·8 |
| | 28 | 47·3 | 47·0 | 47·0 | 46·5 | 46·5 | 46·5 | 47·0 | 47·6 | 47·8 | 48·2 | 48·4 | 47·5 |
| | 29 | 43·5 | 43·0 | 42·5 | 42·0 | 42·0 | 43·0 | 43·5 | 43·5 | 43·6 | 43·6 | 43·5 | 43·5 |
| | 30 | 41·5 | 41·2 | 41·5 | 41·5 | 42·5 | 42·8 | 42·6 | 42·5 | 42·2 | 42·4 | 42·8 | 42·6 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 43·58 | 43·45 | 43·24 | 43·16 | 43·36 | 43·75 | 44·05 | 44·29 | 44·47 | 44·67 | 44·85 | 44·82 | |

^a Two minutes late.

^b Three minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|---|--------------------|--------------------|-------------------|-------------------|-------------------|--|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| One Scale Division = .000087 parts of the H. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fahr. = .000234. | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. 513.9 | Sc. Div. 511.6 | Sc. Div. 522.2 | Sc. Div. 515.9 | Sc. Div. 514.8 | Sc. Div. 513.7 | Sc. Div. 508.6 | Sc. Div. 504.4 | Sc. Div. 506.1 | Sc. Div. 506.0 | Sc. Div. 507.8 | Sc. Div. 508.0 | Sc. Div. 509.10 |
| 512.2 | 503.8 | 505.9 | 507.1 | 504.2 | 505.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 517.0 | 519.0 | 520.0 | 517.3 | 518.5 | 519.3 | 511.32 |
| 514.9 | 512.1 | 512.6 | 513.0 | 513.1 | 512.2 | 515.3 | 515.0 | 515.8 | 516.5 | 517.5 | 515.8 | 514.25 |
| 516.0 | 515.0 | 515.0 | 515.9 | 516.2 | 517.9 | 518.7 | 520.1 | 522.0 | 520.8 | 517.4 | 521.0 | 516.35 |
| 516.9 | 517.9 | 519.0 | 517.0 | 512.5 | 509.5 | 513.0 | 517.0 | 517.8 | 516.3 | 518.2 | 517.5 | 517.78 |
| 516.9 | 515.9 | 514.7 | 514.8 | 511.5 | 512.0 | 512.2 | 513.0 | 514.5 | 515.8 | 517.3 | 518.0 | 514.36 |
| 510.9 | 508.5 | 511.0 | 512.1 | 515.5 | 508.8 | 508.4 | 511.8 | 510.1 | 508.6 | 514.3 | 515.5 | 510.30 |
| 517.3 | 514.5 | 514.3 | 512.3 | 508.7 | 513.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 507.1 | 511.0 | 517.5 | 514.4 | 506.8 | 521.0 | 512.63 |
| 511.1 | 505.6 | 504.6 | 511.5 | 518.8 | 513.5 | 514.0 | 515.6 | 514.5 | 516.6 | 516.4 | 518.0 | 513.30 |
| 522.0 | 517.9 | 517.1 | 522.1 | 520.0 | 521.4 | 520.0 | 510.0 | 524.3 | 519.9 | 524.9 | 527.0 | 516.48 |
| 524.5 | 524.1 | 520.9 | 526.7 | 522.3 | 521.3 | 523.8 | 521.8 | 527.9 | 525.5 | 526.6 | 524.4 | 523.28 |
| 521.6 | 521.8 | 521.2 | 519.0 | 518.3 | 517.7 | 516.4 | 516.2 | 516.0 | 516.1 | 516.1 | 516.5 | 518.44 |
| 512.2 | 511.2 | 511.2 | 512.4 | 511.8 | 513.3 | 513.2 | 515.8 | 516.0 | 514.7 | 517.0 | 518.0 | 512.30 |
| 516.7 | 516.2 | 514.8 | 516.0 | 514.2 | 515.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 519.2 | 520.8 | 520.2 | 522.2 | 522.3 | 524.0 | 516.55 |
| 521.3 | 520.7 | 520.2 | 517.2 | 519.6 | 516.2 | 515.2 | 514.7 | 517.7 | 519.0 | 520.2 | 520.5 | 519.17 |
| 519.9 | 519.0 ^b | 518.0 | 517.5 | 518.4 | 520.0 | 518.5 | 516.1 | 520.6 | 519.8 | 515.8 | 520.0 | 519.73 |
| 514.3 | 513.3 | 511.3 | 510.3 | 510.4 | 514.8 | 512.8 | 512.5 | 512.8 | 514.2 | 515.0 | 515.0 | 515.67 |
| 511.8 | 512.2 | 511.6 | 511.9 | 512.2 | 511.7 | 511.7 | 512.6 | 513.0 | 515.5 | 515.0 | 516.0 | 512.94 |
| 516.2 | 514.2 | 513.8 ^b | 511.0 | 511.8 | 511.5 | 513.0 | 513.0 | 514.2 | 514.8 | 515.2 | 517.0 | 514.73 |
| 519.5 | 517.8 | 517.5 | 516.0 | 515.3 | 514.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 519.2 | 517.8 | 518.0 | 519.1 | 519.2 | 521.5 | 515.41 |
| 522.5 | 522.2 | 520.3 | 518.0 | 510.1 | 509.0 | 512.8 | 513.0 | 515.7 | 516.9 | 515.0 | 517.0 | 515.89 |
| 512.1 | 511.4 | 509.5 | 505.0 | 506.7 | 508.6 | 505.0 | 507.5 | 507.5 | 508.6 | 511.0 | 511.5 | 509.23 |
| 502.3 | 500.0 | 510.4 | 511.0 | 511.5 | 510.8 | 511.0 | 512.3 | 513.5 | 512.7 | 513.5 | 515.0 | 508.26 |
| 518.5 | 518.5 | 517.4 | 513.8 | 515.2 | 516.7 | 519.9 | 521.2 ^d | 518.2 | 528.6 | 517.8 | 522.8 | 515.76 |
| 520.7 | 520.9 | 518.9 | 516.8 | 513.9 | 514.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 525.3 | 528.0 | 527.7 | 529.9 | 528.0 | 528.0 | 520.34 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 516.25 | 514.65 | 514.54 | 514.57 | 513.88 | 513.76 | 514.85 | 515.21 | 516.86 | 516.79 | 517.07 | 518.73 | 514.94 |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | |
|------------------------------------|-------------------|-------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| 45.4 | 45.4 | 45.4 | 45.6 | 46.0 | 46.5 | 47.0 | 46.7 | 46.7 | 46.8 | 47.2 | 47.0 | 45.63 |
| 47.0 | 46.6 | 46.2 | 45.7 | 45.2 | 44.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.0 | 40.0 | 40.0 | 40.5 | 40.5 | 40.5 | 44.75 |
| 44.9 | 44.7 | 44.4 | 44.6 | 44.4 | 44.6 | 44.4 | 44.2 | 44.5 | 44.6 | 44.6 | 44.6 | 43.60 |
| 42.6 | 42.4 | 42.0 | 41.8 | 41.2 | 40.6 | 40.4 | 40.4 | 40.4 | 40.8 | 41.2 | 41.0 | 42.32 |
| 41.6 | 42.0 | 42.4 | 42.0 | 42.2 | 42.2 | 42.8 | 43.0 | 43.4 | 43.9 | 44.4 | 44.5 | 42.28 |
| 44.9 | 44.9 | 45.2 | 45.0 | 45.0 | 45.0 | 45.0 | 44.6 | 44.6 | 44.9 | 45.0 | 44.5 | 44.65 |
| 44.8 | 45.2 | 45.2 | 45.6 | 45.6 | 44.8 | 44.4 | 44.0 | 44.7 | 44.6 | 44.5 | 44.6 | 44.37 |
| 44.6 | 44.0 | 43.6 | 43.0 | 42.6 | 42.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 36.2 | 36.5 | 37.4 | 38.2 | 39.0 | 39.3 | 42.47 |
| 44.5 | 44.5 | 44.5 | 44.5 | 44.2 | 44.4 | 44.2 | 43.5 | 43.2 | 42.5 | 41.6 | 41.0 | 42.82 |
| 38.4 | 38.2 | 37.6 | 36.5 | 35.6 | 35.4 | 35.2 | 35.2 | 34.8 | 34.2 | 33.7 | 33.0 | 37.31 |
| 37.6 | 37.6 | 38.1 | 38.4 | 38.8 | 38.9 | 38.5 | 38.4 | 38.4 | 38.8 | 39.0 | 38.2 | 36.76 |
| 44.2 | 44.2 | 44.0 | 44.2 | 44.5 | 44.6 | 45.0 | 44.6 | 44.6 | 45.2 | 45.6 | 45.6 | 42.69 |
| 46.8 | 46.6 | 46.4 | 45.7 | 45.2 | 45.2 | 45.3 | 45.5 | 45.5 | 45.5 | 45.4 | 45.5 | 45.99 |
| 46.7 | 46.6 | 46.2 | 46.0 | 46.0 | 46.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.5 | 41.5 | 41.6 | 42.0 | 42.2 | 42.5 | 44.86 |
| 44.2 | 44.3 | 44.2 | 44.0 | 43.8 | 43.6 | 43.4 | 43.4 | 43.2 | 43.2 | 43.0 | 43.5 | 43.60 |
| 45.0 | 44.9 ^b | 44.9 | 44.8 | 44.6 | 44.5 | 44.5 | 44.4 | 44.2 | 44.2 | 44.5 | 44.0 | 44.34 |
| 48.0 | 48.5 | 49.0 | 49.0 | 49.0 | 49.6 | 49.6 | 49.4 | 49.2 | 49.0 | 49.4 | 49.4 | 47.24 |
| 50.2 | 49.4 | 48.8 | 48.2 | 48.0 | 47.7 | 47.6 | 48.0 | 48.2 | 48.5 | 48.2 | 48.0 | 48.86 |
| 48.1 | 47.7 | 47.4 ^b | 47.2 | 47.2 | 47.4 | 47.5 | 47.5 | 47.2 | 47.2 | 47.2 | 46.5 | 47.41 |
| 46.5 | 46.5 | 47.0 | 47.4 | 47.0 | 47.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.2 | 41.2 | 41.5 | 41.8 | 42.0 | 42.0 | 45.01 |
| 44.6 | 45.1 | 45.5 | 45.5 | 45.2 | 45.8 | 46.2 | 46.4 | 46.6 | 46.7 | 46.8 | 47.0 | 44.13 |
| 49.2 | 48.8 | 48.4 | 48.0 | 48.0 | 48.0 | 47.9 | 47.5 | 47.0 | 47.0 | 47.4 | 47.7 | 48.07 |
| 47.0 | 46.0 | 45.6 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.4 | 45.4 | 44.6 | 44.0 | 46.30 |
| 43.8 | 43.8 | 43.8 | 43.8 | 43.5 | 43.6 | 43.6 | 42.7 ^d | 42.0 | 41.8 | 41.6 | 41.5 | 43.03 |
| 42.0 | 41.6 | 41.5 | 40.7 | 40.5 | 40.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 35.8 | 35.8 | 36.0 | 36.0 | 36.0 | 36.0 | 40.35 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 44.90 | 44.78 | 44.69 | 44.50 | 44.34 | 44.31 | 43.30 | 43.18 | 43.21 | 43.33 | 43.38 | 43.26 | 43.95 |

^c Christmas-day.

^d Four minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|-------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = '000093 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JANUARY. | 2 | 88·8 | 87·2 | 87·9 | 87·5 | 86·6 | 87·8 | 89·4 | 89·4 | 87·9 | 87·9 | 86·9 | 86·9 |
| | 3 | 85·3 | 86·4 | 87·6 | 87·0 | 86·3 | 86·2 | 88·3 | 87·0 | 87·0 | 86·0 | 86·4 | 86·4 |
| | 4 | 88·4 | 89·0 | 89·8 | 89·2 | 87·9 | 88·1 | 89·4 | 89·2 | 88·6 | 90·3 | 87·4 | 87·1 |
| | 5 | 83·3 | 83·3 | 83·1 | 82·3 | 81·8 | 81·4 | 82·0 | 82·0 | 80·9 | 80·2 | 78·9 | 79·5 |
| | 6 | 77·9 | 78·2 | 78·7 | 78·2 | 77·0 | 76·3 | 76·3 | 77·0 | 77·2 | 76·5 | 76·6 | 75·7 |
| | 7 | 71·2 | 71·1 | 71·6 | 71·2 | 70·8 | 70·9 | 71·5 | 69·9 | 70·0 | 70·5 | 70·4 | 69·1 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 80·9 | 81·5 | 81·5 | 81·4 | 81·5 | 81·5 | 80·4 | 79·6 | 79·4 | 78·9 | 77·2 | 77·2 |
| | 10 | 76·7 | 76·0 | 76·0 | 75·8 | 75·6 | 75·0 | 75·8 | 75·8 | 76·6 | 76·6 | 76·6 | 75·2 |
| | 11 | 73·3 | 73·8 | 71·8 | 72·3 | 72·5 | 72·5 | 73·4 | 74·4 | 75·4 | 76·0 | 75·7 | 74·5 |
| | 12 | 73·1 ^a | 73·1 | 74·0 | 73·7 | 73·7 | 74·1 | 74·9 | 75·6 | 75·3 | 75·9 | 75·9 | 75·7 |
| | 13 | 72·3 | 72·0 | 72·0 | 72·2 | 72·3 | 72·3 | 72·5 | 72·6 | 72·4 | 72·1 | 73·0 | 72·6 |
| | 14 | 76·8 | 76·8 | 77·0 | 77·2 | 76·5 | 77·1 | 77·9 | 77·9 | 77·5 | 77·5 | 77·9 | 78·0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 80·0 | 80·0 | 79·2 ^a | 79·3 | 79·2 | 79·2 | 79·2 | 79·2 | 80·0 | 79·9 | 79·5 | 79·4 |
| | 17 | 80·4 | 80·5 | 80·4 | 81·3 | 79·6 | 79·3 | 79·3 | 78·7 | 78·3 | 77·8 | 77·0 | 76·6 |
| | 18 | 74·5 | 75·4 | 75·4 | 74·1 | 73·6 | 72·6 | 72·4 | 71·2 | 70·0 | 68·8 | 67·6 | 67·1 |
| | 19 | 63·8 | 62·8 | 62·1 | 60·8 | 61·0 | 61·7 | 62·2 | 62·9 | 63·8 | 63·9 | 63·7 | 63·9 |
| | 20 | 64·6 | 64·7 | 63·9 | 63·7 | 63·3 | 63·7 | 64·5 | 64·5 | 64·5 | 65·1 | 65·0 | 63·9 |
| | 21 | 64·7 | 66·7 | 66·4 | 62·4 | 62·6 | 62·1 | 62·1 | 63·2 | 62·3 | 62·2 | 61·4 | 60·1 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 72·9 | 72·9 | 72·7 | 72·7 | 73·2 | 73·2 | 72·9 | 74·1 | 74·1 | 74·1 | 74·0 | 73·9 |
| | 24 | 71·0 | 71·8 | 72·0 | 72·1 | 71·7 | 72·1 | 71·7 | 72·2 | 72·7 | 73·1 | 73·1 | 72·6 |
| | 25 | 73·5 | 73·2 | 75·0 | 72·1 | 72·2 | 73·6 | 75·0 | 75·2 | 74·7 | 77·7 | 78·2 | 78·2 |
| | 26 | 83·7 | 85·0 | 85·3 | 85·7 | 85·3 | 85·0 | 85·0 | 83·3 | 82·3 | 81·8 | 81·8 | 81·8 |
| | 27 | 77·3 | 76·0 | 76·2 | 75·8 | 75·1 | 74·2 | 72·6 | 72·3 | 71·5 | 72·6 | 74·5 | 74·8 |
| | 28 | 69·4 | 71·3 | 72·3 | 72·3 | 72·6 | 72·6 | 72·7 ^a | 75·9 | 76·1 | 75·2 | 75·6 | 76·7 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 79·9 | 79·9 | 78·1 | 79·5 | 78·8 | 77·6 | 77·2 | 76·1 | 76·4 | 75·4 | 75·4 | 74·1 |
| | 31 | 72·9 | 73·4 | 73·2 | 73·3 | 73·3 | 74·4 | 74·0 | 74·6 | 73·9 | 72·4 | 71·8 | 71·8 |
| | Hourly Means | 76·02 | 76·23 | 76·28 | 75·89 | 75·54 | 75·56 | 75·87 | 75·91 | 75·72 | 75·71 | 75·44 | 75·11 |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|--------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| JANUARY. | 2 | 33·0 | 32·4 | 34·4 | 34·8 | 35·7 | 36·4 | 37·0 | 37·8 | 38·1 | 38·4 | 38·4 | 38·9 |
| | 3 | 36·9 | 36·2 | 36·0 | 35·8 | 36·2 | 36·5 | 36·6 | 37·1 | 37·4 | 37·8 | 38·0 | 37·3 |
| | 4 | 34·4 | 34·5 | 34·2 | 34·2 | 34·2 | 35·0 | 34·4 | 34·7 | 35·4 | 35·8 | 36·4 | 36·4 |
| | 5 | 39·8 | 40·0 | 40·1 | 40·8 | 40·8 | 41·6 | 42·5 | 41·4 | 41·7 | 42·2 | 42·6 | 42·6 |
| | 6 | 42·7 | 42·9 | 42·7 | 42·7 | 42·8 | 43·5 | 44·2 | 44·6 | 45·0 | 45·4 | 45·4 | 45·5 |
| | 7 | 47·9 | 47·9 | 48·0 | 48·0 | 48·2 | 48·2 | 48·6 | 49·4 | 49·4 | 49·3 | 49·4 | 50·0 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 40·6 | 40·7 | 40·6 | 40·0 | 40·0 | 40·5 | 41·2 | 41·9 | 42·3 | 43·0 | 43·9 | 43·6 |
| | 10 | 44·8 | 44·9 | 44·9 | 44·5 | 44·5 | 44·7 | 45·2 | 45·4 | 45·4 | 45·6 | 46·0 | 46·0 |
| | 11 | 46·8 | 46·4 | 46·0 | 46·4 | 46·0 | 46·0 | 46·0 | 46·2 | 46·4 | 46·4 | 46·8 | 47·7 |
| | 12 | 47·0 ^a | 46·9 | 46·6 | 46·6 | 46·2 | 46·1 | 46·0 | 46·0 | 46·2 | 46·4 | 46·0 | 46·0 |
| | 13 | 47·2 | 47·6 | 47·7 | 47·6 | 47·3 | 47·2 | 47·5 | 47·9 | 47·9 | 48·0 | 47·4 | 47·4 |
| | 14 | 44·7 | 44·5 | 44·3 | 43·9 | 43·4 | 43·4 | 43·2 | 43·4 | 43·9 | 43·9 | 43·5 | 43·4 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 41·4 | 41·4 | 41·6 | 41·2 | 40·9 | 40·9 | 41·0 | 41·2 | 41·3 | 41·7 | 41·4 | 42·0 |
| | 17 | 41·5 | 41·6 | 41·4 | 42·0 | 42·0 | 41·0 | 41·8 | 42·4 | 43·0 | 43·4 | 44·0 | 44·4 |
| | 18 | 45·4 | 45·3 | 45·4 | 45·0 | 45·4 | 46·2 | 46·9 | 48·0 | 49·0 | 49·5 | 49·2 | 51·0 |
| | 19 | 53·8 | 54·4 | 55·2 | 56·0 | 55·2 | 54·5 | 54·2 | 54·2 | 54·1 | 54·4 | 54·9 | 54·9 |
| | 20 | 53·4 | 54·0 | 53·6 | 53·1 | 53·2 | 53·1 | 53·1 | 53·0 | 54·0 | 53·6 | 53·4 | 53·4 |
| | 21 | 53·0 | 53·3 | 53·6 | 54·5 | 53·8 | 53·9 | 54·1 | 54·2 | 54·7 | 55·2 | 56·0 | 56·5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 47·0 | 47·0 | 47·0 | 46·5 | 46·6 | 46·8 | 45·9 | 46·2 | 46·2 | 46·4 | 46·8 | 47·0 |
| | 24 | 48·7 | 48·4 | 48·2 | 47·5 | 47·2 | 47·2 | 47·4 | 47·2 | 47·1 | 47·0 | 47·4 | 47·5 |
| | 25 | 47·0 | 47·4 | 48·8 | 47·2 | 46·8 | 46·0 | 45·6 | 45·0 | 44·4 | 43·8 | 43·0 | 42·9 |
| | 26 | 37·5 | 37·3 | 38·3 | 37·5 | 37·6 | 37·7 | 38·2 | 39·0 | 39·4 | 40·2 | 40·0 | 40·0 |
| | 27 | 43·4 | 43·9 | 44·0 | 44·5 | 44·3 | 44·5 | 45·2 | 45·9 | 46·7 | 46·2 | 45·6 | 45·8 |
| | 28 | 47·0 | 46·6 | 46·4 | 46·0 | 45·7 | 45·9 | 46·4 | 46·2 | 46·0 | 46·6 | 46·8 | 46·5 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 41·5 | 41·4 | 41·4 | 41·0 | 41·4 | 42·3 | 43·0 | 43·8 | 44·4 | 45·2 | 45·5 | 45·4 |
| | 31 | 47·2 | 47·1 | 46·6 | 46·2 | 45·8 | 46·0 | 46·6 | 46·6 | 46·4 | 47·4 | 47·6 | 47·8 |
| | Hourly Means | 44·37 | 44·38 | 44·50 | 44·37 | 44·28 | 44·44 | 44·68 | 44·95 | 45·22 | 45·49 | 45·59 | 45·77 |

^a Five minutes late.

VERTICAL FORCE.

One Scale Division = '000093 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 87·8 | Sc. Div. 87·7 | Sc. Div. 84·4 | Sc. Div. 85·3 | Sc. Div. 84·2 | Sc. Div. 79·7 | Sc. Div. 82·6 | Sc. Div. 83·3 | Sc. Div. 84·0 | Sc. Div. 85·2 | Sc. Div. 86·0 | Sc. Div. 85·0 | Sc. Div. 86·22 |
| 86·7 | 86·7 | 87·4 | 88·3 | 88·3 | 88·2 | 87·5 | 88·7 | 87·8 | 89·2 | 89·5 | 89·2 | 87·39 |
| 87·3 | 86·9 | 86·5 | 86·2 | 85·1 | 84·5 | 84·4 | 83·9 | 83·9 | 83·9 | 83·8 | 83·3 | 86·84 |
| 79·2 | 78·0 | 76·8 | 76·1 | 75·7 | 76·0 | 77·0 | 77·4 | 78·0 | 78·7 | 77·8 | 78·4 | 79·49 |
| 75·2 | 74·9 | 74·4 | 74·1 | 74·1 | 73·5 | 72·8 | 73·0 | 73·0 | 72·7 | 72·5 | 71·8 | 75·32 |
| 69·0 | 69·8 | 69·8 | 69·8 | 69·8 | 70·1 | — | — | — | — | — | — | 73·26 |
| — | — | — | — | — | — | 81·9 | 82·9 | 82·9 | 81·2 | 81·9 | 80·9 | 78·74 |
| 77·7 | 77·4 | 78·0 | 77·9 | 77·9 | 77·9 | 77·2 | 77·1 | 77·1 | 77·0 | 76·9 | 76·7 | 75·13 |
| 73·8 | 74·6 | 74·6 | 75·1 | 75·3 | 74·7 | 74·7 | 74·0 | 73·9 | 73·9 | 73·7 | 73·1 | 73·56 |
| 72·9 | 74·0 | 73·7 | 73·4 | 73·3 | 73·3 | 73·3 | 73·0 | 73·0 | 74·8 | 72·6 | 72·6 | 74·42 |
| 75·2 | 75·1 | 74·8 | 74·8 | 74·8 | 73·9 | 73·9 | 73·7 | 73·7 | 73·7 | 73·7 | 73·7 | 73·64 |
| 72·7 | 72·7 | 73·6 | 73·4 | 74·9 | 76·1 | 76·0 | 75·9 | 75·8 | 75·8 | 75·8 | 76·4 | 78·40 |
| 78·0 | 78·0 | 78·6 | 78·6 | 78·4 | 78·1 | — | — | — | — | — | — | 79·55 |
| — | — | — | — | — | — | 81·6 | 79·9 | 79·9 | 81·3 | 80·9 | 80·1 | 77·56 |
| 79·4 | 79·4 | 79·4 | 80·0 | 80·0 | 80·0 | 80·0 | 79·5 | 79·0 | 79·3 | 79·3 | 79·8 | 68·55 |
| 76·2 | 76·1 | 76·0 | 76·3 | 76·6 | 77·0 | 76·7 | 76·7 | 76·1 | 75·6 | 74·6 | 74·3 | 63·37 |
| 67·4 | 66·7 | 65·8 | 64·3 | 63·7 | 64·6 | 64·6 | 65·2 | 65·0 | 65·0 | 65·5 | 64·6 | 64·43 |
| 63·0 | 63·0 | 63·6 | 64·1 | 64·1 | 64·1 | 64·1 | 64·1 | 64·1 | 64·1 | 64·8 | 65·1 | 64·79 |
| 63·9 | 63·9 | 63·9 | 65·2 | 65·3 | 65·3 | 65·3 | 65·0 | 63·8 | 64·4 | 64·5 | 64·5 | 73·12 |
| 59·4 | 59·4 | 59·5 | 60·2 | 61·0 | 61·1 | — | — | — | — | — | — | 73·10 |
| — | — | — | — | — | — | 73·1 | 72·9 | 72·8 | 73·1 | 73·1 | 73·1 | 77·53 |
| 75·0 | 75·4 | 75·5 | 76·6 | 72·0 | 72·1 | 72·5 | 72·9 | 71·7 | 69·8 | 70·3 | 70·3 | 81·85 |
| 72·9 | 73·8 | 74·7 | 75·6 | 75·6 | 73·6 | 74·0 | 73·2 | 74·4 | 73·5 | 73·5 | 73·5 | 73·52 |
| 75·1 | 75·1 | 75·1 | 74·8 | 78·5 | 82·1 | 82·1 | 82·4 | 84·0 | 84·0 | 84·6 | 84·3 | 75·74 |
| 81·4 | 81·0 | 80·8 | 80·9 | 80·9 | 80·7 | 80·1 | 79·7 | 79·2 | 78·2 | 77·8 | 77·8 | 75·52 |
| 73·1 | 72·8 | 72·3 | 72·8 | 73·9 | 73·1 | 72·6 | 73·0 | 73·0 | 71·5 | 71·5 | 71·9 | 73·46 |
| 77·0 | 77·0 | 75·5 | 75·0 | 75·0 | 74·9 | — | — | — | — | — | — | 75·56 |
| — | — | — | — | — | — | 79·8 | 79·8 | 80·0 | 80·4 | 80·4 | 80·3 | — |
| 74·4 | 74·6 | 75·0 | 74·4 | 73·2 | 73·2 | 73·6 | 73·6 | 72·9 | 72·9 | 72·9 | 73·3 | — |
| 71·8 | 69·6 | 70·6 | 70·6 | 71·0 | 72·7 | 72·7 | 76·0 | 76·1 | 77·3 | 77·3 | 78·4 | — |
| 74·83 | 74·75 | 74·63 | 74·76 | 74·72 | 74·63 | 75·93 | 76·03 | 75·97 | 76·02 | 75·97 | 75·86 | 75·56 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 38·9 | 39·0 | 39·0 | 39·4 | 39·3 | 39·0 | 38·8 | 39·1 | 38·5 | 38·2 | 38·0 | 38·0 | 37·52 |
| 37·6 | 37·2 | 36·8 | 36·1 | 36·0 | 35·7 | 35·7 | 35·7 | 35·6 | 35·2 | 34·8 | 34·4 | 36·36 |
| 36·8 | 37·2 | 37·7 | 38·2 | 38·6 | 38·8 | 39·2 | 39·2 | 39·2 | 39·2 | 39·2 | 39·7 | 36·77 |
| 43·0 | 44·0 | 44·6 | 44·7 | 44·8 | 44·6 | 44·4 | 44·1 | 43·6 | 43·2 | 43·2 | 42·9 | 42·63 |
| 45·5 | 46·0 | 46·1 | 46·2 | 46·2 | 46·2 | 46·8 | 46·6 | 46·7 | 47·2 | 47·2 | 47·8 | 45·25 |
| 50·2 | 49·7 | 49·6 | 49·4 | 49·3 | 49·3 | — | — | — | — | — | — | 46·79 |
| — | — | — | — | — | — | 40·0 | 40·0 | 40·0 | 40·2 | 40·4 | 40·5 | 42·72 |
| 43·6 | 43·8 | 43·9 | 43·6 | 43·6 | 43·6 | 44·0 | 44·2 | 44·0 | 44·2 | 44·2 | 44·2 | 45·96 |
| 46·8 | 47·0 | 47·0 | 47·2 | 47·0 | 46·8 | 46·6 | 46·4 | 46·4 | 46·4 | 46·6 | 46·9 | 42·86 |
| 48·2 | 48·0 | 48·2 | 47·7 | 47·5 | 47·4 | 47·2 | 47·4 | 47·6 | 47·4 | 47·4 | 47·6 | 46·35 |
| 46·1 | 46·3 | 46·5 | 46·4 | 46·9 | 45·5 | 44·5 | 46·9 | 47·0 | 46·7 | 46·7 | 47·0 | 46·64 |
| 47·8 | 47·6 | 47·0 | 45·7 | 45·4 | 45·4 | 45·3 | 45·2 | 45·0 | 44·8 | 44·7 | 44·8 | 42·83 |
| 43·4 | 43·2 | 43·3 | 43·2 | 43·2 | 43·2 | — | — | — | — | — | — | 41·50 |
| — | — | — | — | — | — | 40·2 | 40·3 | 40·3 | 40·5 | 40·6 | 41·0 | 43·59 |
| 41·7 | 41·6 | 41·6 | 41·8 | 41·8 | 41·8 | 41·6 | 41·6 | 41·9 | 41·8 | 41·4 | 41·5 | 49·95 |
| 44·6 | 45·0 | 45·2 | 45·0 | 44·8 | 44·4 | 44·4 | 44·8 | 44·7 | 44·8 | 44·5 | 45·4 | 54·30 |
| 51·7 | 52·0 | 52·7 | 53·5 | 54·0 | 53·3 | 52·9 | 52·5 | 52·2 | 52·0 | 52·2 | 53·4 | 53·25 |
| 54·6 | 54·8 | 54·7 | 54·0 | 54·0 | 54·0 | 53·7 | 53·6 | 53·6 | 53·6 | 53·4 | 53·3 | 52·84 |
| 53·4 | 53·4 | 53·2 | 53·2 | 53·0 | 52·8 | 52·8 | 52·7 | 53·2 | 53·1 | 53·0 | 53·4 | 47·24 |
| 56·8 | 56·5 | 56·4 | 56·1 | 55·5 | 55·0 | — | — | — | — | — | — | 47·36 |
| — | — | — | — | — | — | 46·9 | 46·5 | 46·4 | 46·4 | 46·4 | 46·5 | 42·82 |
| 46·8 | 46·6 | 46·6 | 47·0 | 48·0 | 48·0 | 48·1 | 48·0 | 48·3 | 48·9 | 49·0 | 49·0 | 40·08 |
| 47·5 | 47·4 | 47·2 | 47·2 | 47·5 | 47·7 | 47·5 | 47·0 | 46·7 | 46·7 | 46·7 | 46·8 | 46·00 |
| 42·4 | 42·0 | 41·7 | 40·4 | 40·4 | 39·6 | 39·6 | 39·9 | 39·2 | 38·5 | 38·2 | 37·9 | 44·99 |
| 40·6 | 40·9 | 40·9 | 41·2 | 41·2 | 41·2 | 41·4 | 41·4 | 42·0 | 42·4 | 42·9 | 43·2 | 44·63 |
| 46·6 | 46·6 | 46·8 | 46·5 | 46·9 | 47·0 | 47·0 | 46·8 | 47·0 | 48·0 | 47·5 | 47·2 | 46·32 |
| 46·4 | 46·4 | 46·4 | 46·2 | 46·0 | 46·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41·0 | 40·9 | 41·0 | 40·9 | 41·0 | 41·5 | — |
| 45·5 | 45·8 | 45·5 | 45·9 | 46·0 | 46·1 | 46·2 | 46·4 | 46·7 | 47·0 | 46·8 | 47·0 | — |
| 48·0 | 48·5 | 48·2 | 48·4 | 48·0 | 47·0 | 46·2 | 45·4 | 44·2 | 43·2 | 42·2 | 41·2 | — |
| 45·94 | 46·02 | 46·03 | 45·93 | 45·96 | 45·75 | 44·69 | 44·72 | 44·65 | 44·63 | 44·55 | 44·70 | 45·07 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000093 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| FEBRUARY. | 1 | 77.4 | 79.5 | 79.3 | 82.2 | 81.1 | 83.4 | 82.2 | 80.7 | 82.1 | 82.1 | 80.5 | 81.1 |
| | 2 | 85.8 | 85.8 | — | 79.4 | 81.5 | 82.7 | 82.4 | 82.6 | 82.6 | 82.1 | 81.5 | 80.2 |
| | 3 | 81.8 | 82.4 | 82.3 | 81.7 | 81.3 | 80.1 | 80.1 | 79.6 | 79.9 | 78.6 | 77.8 | 76.2 |
| | 4 | 76.2 | 77.0 | 77.6 | 77.0 | 76.5 | 75.9 | 74.7 | 73.4 | 72.3 | 71.1 | 69.9 | 68.7 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 82.7 | 82.7 | — | 82.7 | 81.6 | 82.8 | 83.1 | 83.4 | 84.9 | 85.3 | 89.0 | 88.0 |
| | 7 | 88.5 | 88.2 | 88.9 | 89.5 | 88.7 | 88.4 | 90.3 | 89.0 | 87.7 | 86.1 | 85.2 | 85.5 |
| | 8 | 83.3 | 84.1 | 85.4 | 83.2 | 83.2 | 82.4 | 82.6 | 82.2 | 82.3 | 81.3 | 81.2 | 81.2 |
| | 9 | 84.3 | 84.4 | 84.3 | 84.8 | 83.4 | 82.8 | 82.3 | 82.3 | 82.3 | 81.9 | 81.5 | 81.5 |
| | 10 | 83.6 | 83.2 | 82.9 | 82.2 | 81.2 | 81.2 | 81.7 | 82.0 | 83.6 | 83.3 | 83.7 | 81.7 |
| | 11 | 75.6 | 75.8 | 76.3 | 76.0 | 76.6 | 77.3 | 77.7 | 77.5 | 77.5 | 77.9 | 78.5 | 79.5 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 86.6 | 86.9 | 86.9 | 83.7 | 85.0 | 84.7 | 84.7 | 84.1 | 84.6 | 84.6 | 84.6 | 85.4 |
| | 14 | 84.9 | 85.0 | 84.4 | 87.6 | 88.1 | 86.6 | 87.6 | 88.4 | 89.8 | 90.2 | 90.5 | 88.5 |
| | 15 | 87.6 | 87.2 | 87.4 | 86.1 | 85.0 | 85.3 | 85.3 | 85.1 | 85.6 | 85.5 | 85.5 | 83.3 |
| | 16 | 85.0 | 84.8 | 88.0 | 76.2 ^b | 80.8 | 81.9 | 82.5 | 82.7 | 84.5 | 83.7 | 81.9 | 81.1 |
| | 17 | 88.6 | 89.9 | 89.6 | 90.3 | 87.8 | 87.7 | 87.6 | 86.1 | 85.7 | 84.6 | 83.6 | 83.6 |
| | 18 | 90.6 | 91.0 | 91.1 | 89.7 | 89.3 | 88.2 | 87.3 | 85.9 | 85.4 | 84.2 | 82.3 | 82.4 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 88.0 | 88.0 | 87.5 | 74.4 | 80.8 | 81.2 | 81.5 | 81.1 | 79.8 | 79.8 | 79.1 | 80.4 |
| | 21 | 82.8 | 82.8 | 81.4 | 81.1 | 81.1 | 79.4 | 77.9 | 77.5 | 76.6 | 76.9 | 76.9 | 76.4 |
| | 22 | 76.6 | 77.2 | 77.6 | 77.6 | 77.6 | 77.2 | 76.5 | 76.5 | 78.0 | 78.0 | 78.1 | 78.6 |
| | 23 | 84.1 | 83.2 | 86.5 | 82.8 | 81.7 | 82.5 | 82.4 | 82.4 | 82.7 | 82.1 | 80.1 | 80.1 |
| | 24 | 82.6 | 83.6 | 85.5 | 81.1 | 79.9 | 75.5 | 78.8 | 83.0 | 82.6 | 82.3 | 81.6 | 81.5 |
| | 25 | 74.3 | 73.1 | 74.7 | 74.8 | 73.6 | 73.2 | 72.9 | 72.8 | 73.0 | 72.6 | 72.4 | 72.9 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 79.0 | 79.1 | 80.0 | 79.7 | 78.7 | 78.7 | 77.7 | 76.6 | 75.7 | 75.6 | 74.5 | 75.2 |
| | 28 | 75.6 | 76.2 | 75.3 | 75.8 | 74.5 | 73.0 | 73.1 | 72.6 | 72.6 | 72.6 | 73.2 | 73.6 |
| Hourly Means | 82.73 | 82.96 | 83.31 | 81.65 | 81.63 | 81.34 | 81.37 | 81.15 | 81.33 | 80.93 | 80.55 | 80.28 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| FEBRUARY. | 1 | 40.4 | 39.7 | 39.7 | 39.0 | 38.3 | 38.6 | 39.2 | 39.8 | 39.7 | 40.0 | 40.0 | 40.0 |
| | 2 | 37.4 | 37.0 | — | 38.0 | 37.6 | 37.7 | 38.0 | 38.1 | 38.2 | 39.0 | 39.8 | 40.4 |
| | 3 | 39.8 | 39.9 | 39.5 | 39.4 | 39.8 | 40.0 | 40.2 | 40.8 | 41.0 | 41.4 | 42.2 | 42.6 |
| | 4 | 43.6 | 43.0 | 42.7 | 42.6 | 42.4 | 43.0 | 44.0 | 44.9 | 45.4 | 46.4 | 46.9 | 47.4 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 39.0 | 38.7 | — | 36.8 | 36.6 | 36.8 | 37.0 | 37.4 | 37.4 | 37.3 | 37.3 | 36.8 |
| | 7 | 33.6 | 33.1 | 32.2 | 32.1 | 32.2 | 33.0 | 33.2 | 34.0 | 35.0 | 36.0 | 36.9 | 36.9 |
| | 8 | 38.3 | 38.4 | 38.8 | 38.0 | 38.0 | 38.6 | 39.0 | 39.4 | 39.9 | 40.1 | 40.0 | 40.0 |
| | 9 | 38.0 | 37.8 | 37.4 | 37.0 | 37.0 | 37.3 | 38.1 | 39.0 | 39.4 | 39.8 | 40.4 | 39.4 |
| | 10 | 37.8 | 37.8 | 37.7 | 37.2 | 37.5 | 37.6 | 37.7 | 37.9 | 38.1 | 38.3 | 39.0 | 39.8 |
| | 11 | 43.6 | 43.4 | 42.9 | 42.4 | 41.7 | 41.3 | 41.3 | 41.3 | 41.2 | 41.2 | 41.2 | 41.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 35.0 | 34.9 | 36.2 | 36.3 | 36.0 | 36.2 | 36.8 | 37.8 | 38.2 | 38.7 | 38.5 | 39.0 |
| | 14 | 36.0 | 35.4 | 35.2 | 34.2 | 33.6 | 33.9 | 34.0 | 34.0 | 34.5 | 35.0 | 35.4 | 36.0 |
| | 15 | 35.9 | 35.9 | 35.5 | 35.7 | 36.2 | 37.0 | 37.2 | 38.0 | 38.3 | 38.2 | 38.4 | 39.4 |
| | 16 | 37.8 | 37.7 | 43.3 | 40.4 ^b | 38.8 | 38.5 | 38.6 | 39.0 | 39.2 | 39.6 | 39.8 | 40.0 |
| | 17 | 33.0 | 32.2 | 39.6 | 33.2 | 32.7 | 33.7 | 34.4 | 35.6 | 36.6 | 37.0 | 38.0 | 38.2 |
| | 18 | 32.6 | 32.7 | 32.2 | 32.6 | 32.6 | 33.4 | 34.7 | 35.8 | 36.6 | 38.0 | 39.0 | 39.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 34.8 | 34.4 | 35.2 | 36.4 | 37.4 | 37.7 | 38.2 | 39.0 | 39.6 | 40.0 | 40.1 | 40.0 |
| | 21 | 39.3 | 39.6 | 39.8 | 39.2 | 39.4 | 40.0 | 40.4 | 41.6 | 42.0 | 42.3 | 42.4 | 42.7 |
| | 22 | 42.8 | 42.4 | 42.1 | 41.6 | 41.6 | 42.0 | 42.4 | 42.0 | 41.8 | 42.0 | 41.9 | 41.7 |
| | 23 | 37.6 | 37.4 | 38.7 | 37.9 | 38.1 | 38.0 | 38.2 | 38.4 | 38.7 | 38.9 | 39.6 | 40.0 |
| | 24 | 35.3 | 35.0 | 35.0 | 35.2 | 36.0 | 37.0 | 38.2 | 38.6 | 39.4 | 40.2 | 41.0 | 41.8 |
| | 25 | 45.6 | 45.8 | 45.5 | 45.0 | 44.4 | 44.6 | 45.2 | 45.7 | 45.8 | 46.2 | 46.6 | 46.4 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 41.5 | 41.2 | 41.1 | 40.2 | 40.4 | 41.2 | 41.7 | 42.4 | 42.8 | 43.4 | 43.8 | 43.4 |
| | 28 | 43.4 | 43.2 | 44.2 | 43.4 | 44.0 | 45.0 | 45.4 | 45.6 | 45.6 | 45.5 | 45.2 | 45.0 |
| Hourly Means | 38.42 | 38.19 | 38.84 | 38.08 | 38.01 | 38.42 | 38.88 | 39.42 | 39.77 | 40.19 | 40.56 | 40.71 | |

Seven minutes late.

VERTICAL FORCE.

(One Scale Division = .000093 parts of the V. F.

Change in the magnetic moment of the Bar for 1° Fah. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 81.0 | Sc. Div. 81.0 | Sc. Div. 80.8 | Sc. Div. 83.8 | Sc. Div. 83.5 | Sc. Div. 83.5 | Sc. Div. 84.9 | Sc. Div. 84.3 | Sc. Div. 84.8 | Sc. Div. 85.7 | Sc. Div. 85.0 | Sc. Div. 85.8 | Sc. Div. 82.32 |
| 79.9 | 80.6 | 80.6 | 80.7 | 80.9 | 81.2 | 81.1 | 81.1 | 82.1 | 82.1 | 81.6 | 81.6 | 81.75 |
| 76.0 | 76.1 | 76.2 | 76.4 | 75.2 | 75.2 | 75.8 | 75.8 | 76.6 | 76.6 | 76.6 | 75.8 | 78.09 |
| 69.3 | 71.2 | 71.7 | 75.5 | 75.1 | 73.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 82.6 | 81.6 | 81.7 | 81.7 | 81.7 | 81.8 | 75.74 |
| 87.5 | 87.5 | 87.5 | 87.7 | 88.3 | 88.3 | 88.3 | 88.2 | 87.7 | 88.2 | 87.9 | 87.3 | 86.11 |
| 86.4 | 86.4 | 86.4 | 86.8 | 88.3 | 87.1 | 83.8 | 84.7 | 84.8 | 84.8 | 83.9 | 83.3 | 86.78 |
| 82.9 ^a | 82.5 | 82.5 | 82.5 | 82.2 | 82.7 | 82.6 | 83.1 | 83.1 | 83.1 | 83.9 | 84.2 | 82.82 |
| 82.2 | 82.3 | 82.5 | 82.5 | 82.5 | 82.6 | 80.9 | 80.9 | 81.9 | 83.4 | 84.0 | 84.0 | 82.73 |
| 81.7 | 81.7 | 80.8 | 80.3 | 79.6 | 79.6 | 78.3 | 78.5 | 78.5 | 77.9 | 76.9 | 75.8 | 80.83 |
| 80.2 | 81.3 | 81.3 | 81.3 | 82.1 | 82.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 91.3 | 90.2 | 90.5 | 89.9 | 88.5 | 87.7 | 81.36 |
| 85.4 | 87.1 | 87.1 | 86.3 | 85.6 | 86.1 | 77.3 | 71.4 | 76.8 | 81.7 | 84.6 | 84.5 | 83.99 |
| 88.2 | 87.9 | 87.8 | 88.3 | 87.8 | 88.5 | 88.1 | 86.1 | 86.9 | 87.7 | 87.8 | 87.6 | 87.68 |
| 82.2 | 81.7 | 78.5 | 79.0 | 79.1 | 79.1 | 78.9 | 78.9 | 78.7 | 78.7 | 78.7 | 78.7 | 82.55 |
| 81.1 | 82.0 | 82.4 | 83.4 | 83.4 | 83.4 | 83.4 | 84.6 | 84.3 | 84.2 | 88.0 | 91.0 | 83.51 |
| 83.9 | 85.5 | 86.2 | 87.3 | 87.9 | 87.8 | 87.6 | 87.7 | 88.5 | 89.3 | 89.4 | 89.5 | 87.32 |
| 82.3 | 82.8 | 84.3 | 86.4 | 87.3 | 86.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 84.0 | 84.1 | 87.1 | 87.9 | 88.0 | 87.9 | 86.50 |
| 83.4 | 82.6 | 82.7 | 81.8 | 81.6 | 81.4 | 81.9 | 81.9 | 82.4 | 82.4 | 81.8 | 82.5 | 82.00 |
| 76.0 | 76.0 | 76.0 | 76.0 | 76.2 | 76.7 | 76.7 | 77.1 | 77.1 | 77.1 | 77.1 | 76.6 | 77.89 |
| 78.6 | 78.6 | 80.1 | 80.1 | 81.5 | 81.8 | 80.9 | 82.5 | 83.0 | 83.0 | 83.0 | 82.8 | 79.39 |
| 79.6 | 79.8 | 77.2 | 85.0 | 84.4 | 85.1 | 84.8 | 85.1 | 84.9 | 84.0 | 77.5 | 79.8 | 82.41 |
| 80.4 | 77.3 | 78.7 | 74.0 | 73.5 | 68.5 | 70.4 | 72.6 | 73.2 | 74.2 | 74.3 | 74.4 | 77.90 |
| 71.2 | 72.6 | 72.4 | 72.7 | 73.0 | 72.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 77.2 | 78.2 | 78.0 | 78.0 | 78.6 | 78.9 | 74.32 |
| 76.6 | 75.9 | 75.5 | 74.6 | 74.6 | 74.6 | 74.6 | 76.2 | 76.7 | 75.4 | 74.8 | 75.1 | 76.42 |
| 73.6 | 73.9 | 74.7 | 75.5 | 75.5 | 76.3 | 76.3 | 75.7 | 75.3 | 75.3 | 77.4 | 77.6 | 74.80 |
| 80.40 | 80.60 | 80.58 | 81.16 | 81.21 | 81.01 | 81.32 | 81.27 | 81.86 | 82.18 | 82.13 | 82.26 | 81.47 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 40.0 | 40.0 | 39.4 | 39.0 | 38.2 | 37.0 | 37.6 | 37.5 | 37.2 | 36.7 | 36.7 | 37.1 | 38.78 |
| 40.4 | 40.0 | 39.9 | 40.0 | 40.0 | 39.9 | 39.3 | 39.2 | 39.0 | 39.2 | 39.1 | 39.7 | 39.00 |
| 43.0 | 43.2 | 43.2 | 43.2 | 43.5 | 43.5 | 43.8 | 43.6 | 43.6 | 43.4 | 43.4 | 43.8 | 41.99 |
| 47.6 | 47.2 | 47.0 | 46.8 | 46.4 | 46.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.2 | 38.2 | 40.0 | 39.8 | 39.6 | 39.5 | 43.69 |
| 36.4 | 36.0 | 35.2 | 34.7 | 34.2 | 34.2 | 34.4 | 34.8 | 35.2 | 35.0 | 34.9 | 34.3 | 36.10 |
| 36.6 | 37.0 | 37.2 | 37.2 | 37.0 | 37.4 | 37.6 | 37.2 | 37.2 | 37.7 | 38.0 | 38.2 | 35.69 |
| 39.8 ^a | 39.8 | 39.6 | 39.6 | 39.4 | 39.6 | 39.5 | 39.6 | 39.0 | 38.6 | 38.0 | 38.4 | 39.14 |
| 39.4 | 39.5 | 39.4 | 40.0 | 39.8 | 39.5 | 39.2 | 39.0 | 39.2 | 39.0 | 39.0 | 39.0 | 38.86 |
| 39.8 | 40.3 | 40.9 | 41.0 | 41.4 | 41.4 | 41.4 | 41.2 | 41.2 | 41.6 | 42.4 | 43.7 | 39.70 |
| 41.0 | 40.0 | 40.0 | 39.8 | 39.6 | 39.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 32.6 | 32.6 | 33.0 | 33.6 | 34.4 | 35.4 | 39.31 |
| 39.2 | 39.0 | 38.5 | 38.3 | 37.6 | 37.6 | 37.3 | 37.2 | 37.2 | 37.2 | 37.0 | 37.0 | 37.36 |
| 36.7 | 36.5 | 36.4 | 36.2 | 35.7 | 34.3 | 35.2 | 35.2 | 35.4 | 35.2 | 35.0 | 35.6 | 35.19 |
| 39.8 | 40.2 | 39.7 | 39.4 | 39.2 | 38.9 | 38.8 | 38.9 | 39.2 | 39.0 | 38.4 | 38.0 | 38.13 |
| 40.0 | 39.8 | 40.0 | 39.2 | 38.6 | 38.0 | 38.0 | 36.6 | 35.9 | 35.0 | 33.8 | 33.4 | 38.38 |
| 38.2 | 37.4 | 37.4 | 37.0 | 36.4 | 35.9 | 35.6 | 34.8 | 34.2 | 33.9 | 33.3 | 33.6 | 35.50 |
| 39.4 | 39.4 | 38.8 | 38.2 | 37.7 | 37.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.0 | 34.0 | 34.1 | 34.1 | 34.2 | 34.7 | 35.64 |
| 40.6 | 40.5 | 40.3 | 40.2 | 40.2 | 40.0 | 40.0 | 39.6 | 39.2 | 39.4 | 39.6 | 39.4 | 38.82 |
| 43.1 | 43.3 | 43.6 | 43.2 | 43.0 | 42.6 | 42.8 | 42.4 | 42.4 | 42.4 | 42.6 | 43.0 | 41.80 |
| 41.4 | 41.0 | 40.4 | 40.0 | 40.0 | 39.4 | 39.2 | 39.0 | 38.6 | 38.4 | 38.4 | 38.3 | 40.77 |
| 40.0 | 39.8 | 39.2 | 39.2 | 38.6 | 38.2 | 37.7 | 37.2 | 36.5 | 36.2 | 35.2 | 35.2 | 38.15 |
| 43.0 | 43.6 | 44.3 | 45.5 | 45.8 | 46.2 | 46.4 | 46.2 | 45.8 | 45.4 | 45.4 | 45.4 | 41.49 |
| 47.6 | 46.5 | 46.4 | 46.0 | 45.9 | 46.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.2 | 41.3 | 41.2 | 41.3 | 41.2 | 41.2 | 44.69 |
| 43.3 | 43.4 | 43.9 | 43.8 | 43.8 | 43.7 | 43.6 | 43.4 | 43.3 | 43.4 | 43.4 | 43.6 | 42.74 |
| 44.9 | 44.7 | 44.5 | 43.9 | 43.6 | 43.2 | 43.0 | 42.9 | 42.8 | 42.6 | 42.2 | 41.8 | 43.98 |
| 40.88 | 40.75 | 40.63 | 40.47 | 40.23 | 39.95 | 39.02 | 38.82 | 38.77 | 38.67 | 38.55 | 38.72 | 39.37 |

^a Two minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| One Scale Division = .000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 78.4 | 78.8 | 77.5 | 78.8 | 78.8 | 78.8 | 79.3 | 79.8 | 79.7 | 80.1 | 80.4 | |
| | 2 | 83.9 | 85.5 | 83.8 | 82.9 | 82.2 | 81.4 | 81.4 | 81.3 | 79.9 | 79.9 | 80.5 | |
| | 3 | 85.3 | 85.3 | 84.9 | 84.7 | 83.0 | 82.1 | 82.1 ^a | 79.5 | 79.3 ^b | 79.5 | 79.1 | 79.5 |
| | 4 | 83.4 | 83.8 | 83.6 | 82.2 | 80.8 | 80.1 | 79.5 | 79.1 | 78.0 | 77.1 | 78.3 | 78.9 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 89.0 | 89.7 | 88.9 | 87.9 | 86.6 | 85.9 | 85.6 | 85.8 | 86.0 | 85.9 | 86.9 | 86.9 |
| | 7 | 80.6 | 84.6 | 84.6 | 84.7 | 82.4 | 82.2 | 84.4 | 85.9 | 84.0 | 82.6 | 80.3 | 80.5 |
| | 8 | 84.9 | 84.8 | 83.8 | 83.2 | 81.4 | 80.4 | 79.4 | 79.2 | 78.8 | 77.7 | 77.0 | 77.0 |
| | 9 | 77.4 | 77.9 | 77.2 | 76.6 | 75.3 | 74.5 | 73.6 | 74.0 | 72.9 | 72.7 | 71.7 | 70.9 |
| | 10 | 77.7 | 78.2 | 77.2 | 77.1 | 76.6 | 76.2 | 77.0 | 76.6 | 75.6 | 75.2 | 74.8 | 75.1 |
| | 11 | 72.6 | 72.9 | 72.2 | 71.9 | 72.0 | 71.3 | 72.3 | 71.7 | 72.6 | 72.6 | 71.2 | 71.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 78.7 | 78.9 | 80.6 | 79.9 | 77.2 | 77.9 | 76.1 | 74.1 | 72.8 | 73.5 | 72.2 | 72.9 |
| | 14 | 80.6 | 81.2 | 81.3 | 80.8 | 79.6 | 79.6 | 80.8 | 80.3 ^c | 80.3 | 78.5 | 77.7 | 76.8 |
| | 15 | 77.0 | 77.0 | 77.7 | 78.4 | 76.7 | 76.7 | 76.4 | 75.8 | 75.8 | 74.7 | 75.4 | 74.7 |
| | 16 | 79.9 | 80.7 | 80.4 | 80.2 | 78.5 | 77.9 | 77.4 | 76.4 | 75.8 | 75.8 | 76.8 | 75.7 |
| | 17 | 81.3 | 81.8 | 82.0 | 81.5 | 80.1 | 78.4 | 79.7 | 77.3 | 77.6 | 76.8 | 76.4 | 77.8 |
| | 18 | 81.7 | 81.7 | 81.6 | 81.3 | 79.6 | 77.8 | 77.5 | 77.5 | 78.3 | 78.3 | 78.6 | 78.7 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 82.6 | 82.6 | 83.3 | 82.8 | 80.3 | 80.3 | 79.9 | 79.8 | 79.5 | 78.3 | 76.9 | 77.8 |
| | 21 | 80.7 | 81.2 | 81.2 | 80.8 | 78.7 | 78.2 | 77.9 | 77.7 | 79.1 | 79.4 | 78.5 | 78.0 |
| | 22 | 77.1 | 79.6 | 78.7 | 79.6 | 77.3 | 76.7 | 75.9 | 75.6 | 75.0 | 76.4 | 75.4 | 74.9 |
| | 23 | 79.2 | 81.4 | 81.6 | 82.3 | 80.7 | 79.7 | 79.8 | 80.8 | 82.5 | 81.1 | 81.2 | 83.4 |
| | 24 | 84.4 | 84.4 | 84.2 | 82.1 | 79.3 | 78.3 | 78.0 | 78.0 | 76.7 | 75.1 | 76.3 | 75.8 |
| | 25 | 80.7 | 81.0 | 80.5 | 79.7 | 77.0 | 75.2 | 75.2 | 74.9 | 74.8 | 73.5 | 73.5 | 75.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 81.0 | 81.1 | 81.3 | 80.4 | 79.8 | 79.8 | 80.4 | 79.7 | 79.7 | 79.9 | 80.2 | 79.8 |
| | 28 | 77.2 | 76.6 | 76.3 | 76.0 | 74.3 | 72.6 | 69.1 | 70.5 | 68.6 | 70.6 | 71.3 | 71.3 |
| | 29 | 77.0 | 76.1 | 76.1 | 74.5 | 74.4 | 72.4 | 70.4 | 71.4 | 73.5 | 76.8 | 78.7 | 75.7 |
| | 30 | 75.9 | 77.6 | 77.2 | 75.7 | 74.2 | 73.2 | 72.4 | 72.6 | 72.3 | 72.3 | 71.7 | 71.8 |
| | 31 | 76.3 | 76.3 | 76.2 | 75.4 | 74.8 | 74.5 | 75.0 | 75.9 | 76.7 | 77.2 | 77.3 | 77.5 |
| Hourly Means | 80.17 | 80.77 | 80.51 | 80.05 | 78.58 | 77.86 | 77.65 | 77.45 | 77.30 | 77.09 | 76.95 | 77.02 | |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------------------|-------|-------|------|
| MARCH. | 1 | 41.2 | 40.5 | 40.9 | 40.1 | 40.1 | 40.0 | 40.0 | 40.0 | 40.0 | 39.3 | 39.6 | |
| | 2 | 36.3 | 36.0 | 36.2 | 36.4 | 36.8 | 37.4 | 37.4 | 37.8 | 38.4 | 38.4 | 39.0 | 39.4 |
| | 3 | 36.0 | 36.4 | 36.0 | 36.2 | 36.6 | 37.4 | 38.5 ^a | 38.9 | 39.5 ^b | 39.8 | 40.0 | 40.0 |
| | 4 | 37.4 | 37.1 | 37.4 | 38.4 | 38.8 | 39.4 | 39.8 | 40.4 | 41.3 | 41.9 | 42.3 | 42.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 33.2 | 32.8 | 33.1 | 33.5 | 34.2 | 34.6 | 35.2 | 35.9 | 36.2 | 37.2 | 38.1 | 38.8 |
| | 7 | 39.4 | 38.2 | 37.4 | 37.7 | 38.0 | 39.1 | 39.2 | 39.4 | 39.8 | 40.8 | 41.0 | 41.1 |
| | 8 | 38.4 | 38.3 | 38.2 | 38.2 | 39.2 | 40.0 | 40.4 | 40.8 | 41.2 | 41.8 | 42.6 | 42.6 |
| | 9 | 41.7 | 41.5 | 42.4 | 42.6 | 43.0 | 43.5 | 44.2 | 44.6 | 45.6 | 46.2 | 46.4 | 46.9 |
| | 10 | 42.2 | 42.1 | 42.0 | 41.9 | 42.0 | 42.2 | 42.6 | 42.9 | 43.4 | 43.5 | 44.2 | 44.4 |
| | 11 | 46.4 | 45.9 | 46.2 | 45.5 | 45.4 | 45.5 | 45.9 | 46.4 | 46.2 | 46.6 | 47.0 | 47.3 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 41.4 | 41.4 | 41.1 | 40.9 | 42.0 | 42.5 | 43.4 | 44.2 | 45.0 | 45.4 | 45.8 | 45.7 |
| | 14 | 40.9 | 40.2 | 39.4 | 39.0 | 40.0 | 40.5 | 40.8 | 41.0 ^c | 41.2 | 41.8 | 42.2 | 43.2 |
| | 15 | 43.6 | 43.2 | 42.7 | 42.4 | 43.0 | 43.2 | 43.7 | 44.2 | 44.4 | 44.7 | 44.5 | 45.0 |
| | 16 | 40.9 | 40.3 | 40.2 | 40.2 | 40.3 | 40.8 | 41.9 | 43.0 | 44.0 | 43.9 | 44.0 | 44.4 |
| | 17 | 39.3 | 39.0 | 38.9 | 39.9 | 39.9 | 41.0 | 42.0 | 42.8 | 43.4 | 43.6 | 43.9 | 43.5 |
| | 18 | 39.2 | 39.1 | 39.2 | 40.0 | 40.2 | 40.9 | 41.3 | 41.6 | 41.6 | 41.6 | 41.6 | 41.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 39.0 | 38.8 | 38.4 | 38.2 | 38.7 | 39.2 | 40.0 | 40.2 | 41.0 | 42.2 | 42.8 | 42.6 |
| | 21 | 39.8 | 40.0 | 40.0 | 40.0 | 40.6 | 41.2 | 41.4 | 41.6 | 42.0 | 42.0 | 42.4 | 42.4 |
| | 22 | 41.5 | 40.8 | 40.4 | 40.6 | 41.3 | 42.0 | 43.0 | 43.5 | 43.8 | 43.9 | 44.4 | 44.7 |
| | 23 | 40.2 | 40.0 | 39.7 | 39.4 | 39.7 | 39.7 | 39.5 | 39.5 | 39.7 | 39.9 | 40.1 | 39.2 |
| | 24 | 36.8 | 37.2 | 38.0 | 38.7 | 39.4 | 40.0 | 40.2 | 40.6 | 41.4 | 42.5 | 43.0 | 43.0 |
| | 25 | 39.7 | 39.6 | 39.6 | 39.8 | 41.3 | 42.0 | 42.2 | 42.6 | 43.3 | 44.2 | 44.4 | 43.4 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 39.6 | 39.4 | 39.5 | 39.4 | 39.4 | 39.7 | 40.0 | 40.2 | 40.4 | 40.5 | 40.5 | 40.5 |
| | 28 | 42.0 | 42.0 | 42.4 | 42.6 | 43.0 | 43.8 | 45.0 | 46.0 | 46.7 | 47.0 | 46.6 | 46.4 |
| | 29 | 41.7 | 41.9 | 43.0 | 43.2 | 43.4 | 43.8 | 45.4 | 46.4 | 47.2 | 47.8 | 47.8 | 48.0 |
| | 30 | 43.2 | 43.1 | 43.6 | 44.0 | 44.5 | 45.2 | 46.0 | 46.5 | 47.2 | 48.0 | 48.2 | 47.6 |
| | 31 | 44.0 | 43.7 | 44.1 | 43.7 | 43.6 | 43.2 | 43.2 | 43.2 | 43.0 | 42.9 | 42.4 | 42.4 |
| Hourly Means | 40.19 | 39.94 | 40.00 | 40.09 | 40.53 | 41.03 | 41.56 | 42.01 | 42.48 | 42.89 | 43.13 | 43.15 | |

^a Two minutes late.

^b Five minutes late.

^c Three minutes late.

VERTICAL FORCE.

One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 81·9 | Sc. Div. 81·1 | Sc. Div. 81·1 | Sc. Div. 81·9 | Sc. Div. 81·8 | Sc. Div. 81·8 | Sc. Div. 81·8 | Sc. Div. 82·1 | Sc. Div. 82·1 | Sc. Div. 82·9 | Sc. Div. 83·0 | Sc. Div. 82·9 | Sc. Div. 80·68 |
| 81·4 | 81·4 | 81·7 | 82·0 | 82·0 | 83·0 | 83·5 | 83·8 | 84·5 | 85·7 | 85·9 | 85·4 | 82·67 |
| 79·5 | 79·9 | 80·0 | 80·0 | 81·3 | 81·3 | 81·6 | 82·0 | 82·0 | 82·3 | 82·3 | 82·4 | 81·62 |
| 80·2 | 81·1 | 81·9 | 82·3 | 83·7 | 83·7 | — | — | — | — | — | — | 81·75 |
| — | — | — | — | — | — | 81·6 | 80·1 | 80·7 | 84·2 | 88·6 | 89·0 | 86·20 |
| 90·8 | 97·2 | 97·4 | 95·9 | 90·2 | 84·1 | 77·5 | 72·6 | 76·6 | 82·5 | 80·6 | 78·3 | 82·92 |
| 80·5 | 80·5 | 80·5 | 81·4 | 83·0 | 83·6 | 83·3 | 83·1 | 83·5 | 84·7 | 85·0 | 84·1 | 78·78 |
| 77·3 | 78·0 | 76·8 | 76·8 | 76·6 | 76·6 | 76·6 | 77·2 | 77·2 | 77·5 | 75·8 | 76·8 | 74·80 |
| 70·7 | 71·9 | 72·4 | 74·5 | 75·7 | 75·7 | 75·9 | 76·6 | 76·6 | 76·6 | 77·2 | 76·6 | 75·35 |
| 75·9 | 75·9 | 76·5 | 76·5 | 74·2 | 74·2 | 73·1 | 73·1 | 72·9 | 73·3 | 72·9 | 72·6 | — |
| 72·1 | 72·3 | 73·9 | 73·9 | 72·6 | 72·6 | — | — | — | — | — | — | 73·11 |
| — | — | — | — | — | — | 82·5 | 76·1 | 69·7 | 71·3 | 74·9 | 78·2 | 76·48 |
| 74·4 | 75·4 | 76·1 | 75·0 | 77·8 | 80·2 | 77·2 | 73·9 | 73·6 | 78·5 | 79·4 | 79·3 | 78·07 |
| 76·5 | 76·8 | 76·8 | 76·8 | 75·1 | 75·8 | 77·0 | 77·0 | 76·6 | 75·7 | 75·7 | 76·5 | 76·42 |
| 74·4 | 75·2 | 75·7 | 75·7 | 75·7 | 76·2 | 75·7 | 76·8 | 77·1 | 77·5 | 78·6 | 79·2 | 77·62 |
| 74·7 | 73·4 | 73·4 | 75·1 | 75·9 | 76·4 | 77·1 | 79·1 | 79·5 | 80·4 | 80·9 | 81·6 | 80·15 |
| 79·8 | 84·8 | 85·8 | 82·0 | 79·3 | 79·7 | 79·7 | 79·7 | 79·7 | 80·3 | 80·3 | 81·7 | — |
| 78·7 | 79·3 | 83·9 | 85·3 | 84·5 | 87·7 | — | — | — | — | — | — | 80·72 |
| — | — | — | — | — | — | 80·6 | 80·6 | 80·6 | 80·6 | 81·5 | 81·4 | 80·12 |
| 79·2 | 79·5 | 80·2 | 80·7 | 80·7 | 80·7 | 79·7 | 79·6 | 79·6 | 79·6 | 79·6 | 79·6 | 78·89 |
| 78·3 | 78·7 | 79·3 | 79·3 | 79·3 | 78·8 | 77·7 | 77·3 | 78·4 | 78·4 | 78·4 | 78·1 | 76·45 |
| 74·5 | 75·5 | 76·5 | 77·0 | 76·1 | 76·7 | 75·5 | 74·8 | 74·4 | 76·3 | 77·3 | 78·0 | 82·68 |
| 83·4 | 83·4 | 83·4 | 83·1 | 83·1 | 83·0 | 85·3 | 85·3 | 85·3 | 85·4 | 85·4 | 84·4 | 79·60 |
| 77·3 | 78·1 | 79·3 | 79·3 | 80·0 | 79·9 | 80·5 | 80·5 | 80·8 | 80·8 | 80·8 | 80·6 | — |
| 76·2 | 77·2 | 77·9 | 78·4 | 78·7 | 79·3 | — | — | — | — | — | — | 78·20 |
| — | — | — | — | — | — | 81·2 | 81·5 | 81·6 | 81·5 | 81·1 | 81·2 | 79·38 |
| 79·3 | 79·3 | 79·3 | 79·3 | 79·7 | 79·0 | 78·5 | 77·6 | 77·6 | 77·6 | 77·6 | 77·2 | 73·25 |
| 71·4 | 71·2 | 71·2 | 72·3 | 72·7 | 73·8 | 73·8 | 74·2 | 75·4 | 75·2 | 75·9 | 76·4 | 74·83 |
| 73·3 | 74·7 | 75·8 | 75·8 | 75·8 | 74·9 | 73·6 | 73·9 | 74·9 | 75·2 | 75·2 | 75·8 | 73·97 |
| 73·1 | 73·3 | 73·2 | 73·5 | 72·6 | 69·9 | 74·5 | 75·4 | 75·7 | 75·7 | 75·7 | 75·7 | 76·36 |
| 77·7 | 77·1 | 76·9 | 76·9 | 76·1 | 76·4 | 76·5 | 76·4 | 76·4 | 76·4 | 76·4 | 76·4 | — |
| 77·50 | 78·23 | 78·77 | 78·91 | 78·67 | 78·70 | 78·58 | 78·16 | 78·26 | 79·12 | 79·48 | 79·61 | 78·56 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 38·4 | 38·6 | 38·4 | 39·0 | 38·8 | 38·8 | 38·8 | 38·6 | 38·2 | 37·8 | 37·2 | 36·9 | 39·22 |
| 39·2 | 39·2 | 39·0 | 38·9 | 38·5 | 38·0 | 37·3 | 36·8 | 36·2 | 36·0 | 35·5 | 35·8 | 37·50 |
| 40·0 | 40·0 | 40·0 | 40·0 | 38·0 | 37·8 | 38·7 | 39·2 | 39·0 | 39·0 | 38·5 | 38·0 | 38·48 |
| 41·4 | 40·5 | 40·0 | 39·8 | 39·4 | 39·0 | — | — | — | — | — | — | 38·19 |
| — | — | — | — | — | — | 33·0 | 33·2 | 33·7 | 33·6 | 33·4 | 33·4 | 36·46 |
| 38·7 | 38·2 | 38·0 | 37·7 | 37·1 | 37·0 | 37·1 | 38·0 | 38·2 | 38·2 | 39·1 | 39·8 | 39·50 |
| 41·4 | 41·2 | 41·2 | 40·8 | 40·2 | 40·0 | 39·8 | 39·2 | 38·7 | 38·2 | 38·0 | 38·1 | 41·42 |
| 42·5 | 42·6 | 43·0 | 43·0 | 43·2 | 43·3 | 43·0 | 42·8 | 42·6 | 42·4 | 42·1 | 42·0 | 44·22 |
| 47·2 | 46·5 | 46·0 | 45·4 | 44·4 | 44·2 | 43·9 | 43·4 | 43·2 | 43·0 | 43·0 | 42·6 | 44·16 |
| 44·6 | 44·8 | 44·9 | 45·1 | 45·2 | 45·4 | 45·6 | 45·9 | 46·0 | 46·0 | 46·2 | 46·7 | — |
| 47·4 | 47·6 | 47·4 | 47·2 | 47·0 | 46·2 | — | — | — | — | — | — | 45·03 |
| — | — | — | — | — | — | 40·0 | 40·0 | 40·2 | 40·6 | 41·2 | 41·5 | 43·31 |
| 45·4 | 45·1 | 44·6 | 44·6 | 44·0 | 43·4 | 43·0 | 42·7 | 42·4 | 42·3 | 41·6 | 41·6 | 42·06 |
| 43·6 | 43·5 | 43·5 | 43·4 | 43·4 | 43·3 | 42·9 | 42·8 | 42·8 | 43·2 | 43·3 | 43·6 | 43·58 |
| 45·1 | 44·6 | 44·4 | 44·2 | 44·2 | 43·8 | 43·4 | 43·2 | 42·7 | 42·3 | 42·0 | 41·4 | 42·47 |
| 44·8 | 44·8 | 45·7 | 45·2 | 44·2 | 43·6 | 43·2 | 42·2 | 41·4 | 40·4 | 40·2 | 39·7 | 41·52 |
| 43·0 | 42·8 | 42·9 | 42·7 | 42·2 | 41·8 | 41·6 | 41·3 | 41·0 | 40·5 | 40·0 | 39·6 | 40·20 |
| 40·6 | 40·5 | 40·4 | 40·2 | 40·0 | 38·8 | — | — | — | — | — | — | 40·49 |
| — | — | — | — | — | — | 39·8 | 40·0 | 39·7 | 39·3 | 39·1 | 39·2 | 41·23 |
| 42·2 | 42·2 | 41·8 | 41·4 | 41·4 | 41·1 | 40·6 | 40·4 | 40·0 | 39·9 | 39·8 | 39·9 | 43·05 |
| 42·1 | 41·4 | 41·2 | 41·0 | 40·8 | 41·0 | 41·4 | 41·4 | 41·4 | 41·4 | 41·4 | 41·7 | 38·55 |
| 44·9 | 45·7 | 45·6 | 44·9 | 44·8 | 44·4 | 43·8 | 43·6 | 42·2 | 41·6 | 41·4 | 40·4 | 40·14 |
| 39·1 | 39·0 | 38·7 | 37·9 | 37·4 | 37·0 | 36·6 | 37·0 | 36·7 | 36·2 | 36·3 | 36·6 | 41·07 |
| 42·2 | 41·2 | 40·6 | 40·2 | 39·9 | 39·9 | 40·0 | 40·0 | 39·8 | 39·5 | 39·7 | 39·6 | 40·23 |
| 42·9 | 42·0 | 41·4 | 41·0 | 40·4 | 39·9 | — | — | — | — | — | — | 44·53 |
| — | — | — | — | — | — | 39·2 | 39·0 | 38·9 | 39·2 | 39·8 | 39·8 | 45·45 |
| 40·5 | 40·1 | 40·0 | 39·9 | 39·6 | 40·2 | 40·4 | 40·8 | 41·0 | 41·2 | 41·2 | 41·6 | 45·40 |
| 46·3 | 46·4 | 46·6 | 46·2 | 45·6 | 45·0 | 44·4 | 44·2 | 43·6 | 42·9 | 42·2 | 41·8 | 43·06 |
| 47·7 | 47·6 | 47·4 | 47·2 | 46·6 | 46·2 | 46·4 | 45·4 | 45·0 | 44·4 | 43·8 | 43·4 | — |
| 47·2 | 46·8 | 46·6 | 46·2 | 45·5 | 45·0 | 44·4 | 44·2 | 44·0 | 44·0 | 44·3 | 44·2 | — |
| 42·4 | 42·5 | 42·5 | 42·8 | 43·0 | 43·0 | 42·9 | 43·2 | 43·0 | 43·0 | 43·0 | 42·8 | — |
| 42·99 | 42·79 | 42·66 | 42·44 | 42·03 | 41·74 | 41·16 | 41·06 | 40·80 | 40·60 | 40·49 | 40·43 | 41·51 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|------|
| One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| APRIL. | 1 | 77·0 | 77·0 | 77·0 | 76·2 | 75·0 | 72·8 | 72·8 | 71·9 | 72·0 | 71·3 | 71·4 | 71·1 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 77·7 | 76·9 | 76·0 | 74·3 | 72·3 | 70·5 | 69·7 | 68·3 | 68·8 | 68·8 | 67·3 | 66·9 |
| | 4 | 74·3 | 74·0 | 78·2 | 73·6 | 72·6 | 71·5 | 70·7 | 70·7 | 70·8 | 72·1 | 72·3 | 72·5 |
| | 5 | 71·6 | 71·3 | 69·6 | 67·3 | 64·7 | 63·6 | 69·0 | 72·5 | 76·7 | 78·7 | 89·0 | 87·2 |
| | 6 | 60·2 | 61·5 | 60·2 | 61·1 | 62·3 | 63·4 | 63·4 | 63·6 | 65·5 | 66·2 | 70·7 | 70·3 |
| | 7 | 71·5 | 70·9 | 70·4 | 68·2 | 67·0 | 66·9 | 69·6 | 68·3 | 70·2 | 72·8 | 71·6 | 71·1 |
| | 8 | 69·4 | 69·1 | 67·9 | 67·4 | 65·4 | 63·8 | 63·8 | 73·5 | 74·1 | 73·7 | 73·3 | 69·7 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 74·3 | 75·6 | 75·6 | 73·7 | 72·4 | 71·7 | 71·4 | 70·6 | 71·7 | 72·6 | 70·8 | 70·6 |
| | 11 | 74·5 | 73·1 | 72·3 | 70·5 | 68·6 | 68·0 | 67·2 | 67·7 | 67·8 | 69·1 | 69·1 | 67·4 |
| | 12 | 71·2 | 70·0 | 68·4 | 66·9 | 64·8 | 63·7 | 63·7 | 65·2 | 64·9 | 63·9 | 63·9 | 67·0 |
| | 13 | 69·0 | 67·7 | 66·0 | 65·8 | 64·4 | 65·6 | 64·5 | 64·5 | 65·7 | 66·2 | 67·3 | 68·4 |
| | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 63·0 | 63·6 | 63·8 | 63·7 | 63·5 | 61·1 | 61·0 | 62·3 | 61·7 | 61·7 | 60·4 | 60·8 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 68·6 | 66·6 | 66·5 | 64·9 | 63·5 | 63·5 | 64·4 | 64·5 | 64·8 | 65·2 | 65·4 | 65·7 |
| | 18 | 67·4 | 67·4 | 68·3 | 69·1 | 69·1 | 68·4 | 68·0 | 67·2 | 69·6 | 69·3 | 69·3 | 69·9 |
| | 19 | 69·6 | 69·6 | 69·6 | 69·6 | 68·6 | 67·7 | 67·4 | 66·6 | 65·7 | 65·9 | 65·4 | 65·6 |
| | 20 | 60·7 | 61·0 | 61·0 | 60·8 | 61·1 | 60·5 | 60·6 | 61·4 | 60·8 | 60·7 | 60·5 | 59·2 |
| | 21 | 63·2 | 61·0 | 59·7 | 57·9 | 57·2 | 56·3 | 55·0 | 54·4 | 55·1 ^b | 54·5 | 53·5 | 53·5 |
| | 22 | 57·4 | 56·8 | 56·1 | 55·5 | 53·5 | 52·1 | 52·1 | 52·8 | 53·5 | 54·8 | 54·7 | 55·0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 53·3 | 52·8 | 51·4 | 51·0 | 51·0 | 51·0 | 52·4 | 52·9 | 52·3 | 52·9 | 52·8 | 51·8 |
| | 25 | 56·3 | 55·2 | 55·3 | 55·4 | 54·2 | 52·7 | 52·8 | 53·5 | 54·4 | 53·6 | 54·1 | 53·4 |
| | 26 | 56·3 | 56·1 | 56·2 | 55·3 | 53·4 | 52·4 | 52·4 | 52·9 | 52·9 | 52·4 | 52·6 | 52·4 |
| | 27 | 55·2 | 55·2 | 54·3 | 54·4 | 54·6 | 54·6 | 55·0 | 55·8 | 56·3 | 56·1 | 55·8 | 55·4 |
| | 28 | 56·7 | 56·3 | 54·4 | 52·8 | 51·3 | 50·6 | 52·0 | 51·0 | 49·9 | 48·9 | 47·5 | 47·6 |
| | 29 | 55·2 | 55·3 | 56·0 | 56·0 | 56·4 | 57·1 | 57·1 | 57·6 | 59·0 | 59·4 | 58·6 | 58·6 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 65·57 | 65·17 | 64·76 | 63·81 | 62·79 | 62·06 | 62·33 | 62·90 | 63·51 | 63·78 | 64·05 | 63·80 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| APRIL. | 1 | 42·1 | 41·8 | 42·5 | 42·4 | 43·2 | 44·2 | 44·6 | 45·5 | 46·2 | 46·4 | 46·9 | 47·2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 41·5 | 41·5 | 42·3 | 43·0 | 44·3 | 45·6 | 46·6 | 48·1 | 49·2 | 50·0 | 50·8 | 51·4 |
| | 4 | 45·2 | 45·1 | 45·2 | 45·0 | 45·2 | 45·9 | 47·6 | 47·2 | 46·8 | 46·6 | 46·7 | 46·6 |
| | 5 | 46·0 | 46·1 | 47·2 | 48·2 | 49·3 | 50·0 | 50·6 | 51·0 | 51·6 | 52·2 | 52·4 | 52·8 |
| | 6 | 51·2 | 50·8 | 51·4 | 52·1 | 52·3 | 52·8 | 53·0 | 53·0 | 53·0 | 52·6 | 52·6 | 53·0 |
| | 7 | 47·2 | 47·3 | 47·5 | 47·8 | 48·4 | 48·8 | 49·2 | 49·7 | 49·9 | 50·2 | 50·6 | 50·4 |
| | 8 | 49·1 | 49·2 | 49·5 | 49·2 | 50·7 | 51·2 | 52·6 | 52·4 | 52·7 | 53·2 | 53·2 | 53·4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 45·3 | 44·8 | 45·1 | 45·4 | 46·4 | 46·6 | 47·2 | 47·4 | 47·9 | 48·4 | 49·2 | 49·2 |
| | 11 | 46·9 | 47·0 | 47·0 | 48·2 | 49·2 | 50·0 | 49·8 | 50·2 | 50·6 | 50·9 | 51·2 | 52·2 |
| | 12 | 48·9 | 49·5 | 50·0 | 50·4 | 51·2 | 52·4 | 53·2 | 54·2 | 55·0 | 56·0 | 56·7 | 57·2 |
| | 13 | 50·8 | 51·6 | 52·0 | 51·6 | 51·7 | 52·0 | 52·2 | 52·8 | 52·8 | 53·0 | 52·7 | 52·6 |
| | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 53·0 | 53·0 | 53·0 | 53·2 | 53·7 | 54·8 | 55·6 | 56·0 | 56·7 | 57·4 | 58·0 | 58·2 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 50·0 | 50·8 | 51·2 | 52·4 | 53·0 | 53·2 | 53·2 | 53·4 | 53·4 | 53·4 | 53·4 | 53·1 |
| | 18 | 50·2 | 49·4 | 49·2 | 49·2 | 49·0 | 48·6 | 48·4 | 48·5 | 48·5 | 48·4 | 48·4 | 48·4 |
| | 19 | 47·4 | 47·4 | 47·2 | 47·2 | 47·4 | 48·0 | 48·8 | 49·6 | 50·2 | 50·6 | 50·9 | 51·1 |
| | 20 | 54·0 | 53·6 | 53·4 | 53·2 | 53·2 | 53·7 | 54·2 | 54·6 | 55·0 | 55·3 | 55·0 | 56·2 |
| | 21 | 52·4 | 52·6 | 53·5 | 55·0 | 56·1 | 56·5 | 57·2 | 57·9 | 58·3 ^b | 59·1 | 59·4 | 60·0 |
| | 22 | 57·1 | 57·2 | 57·3 | 58·0 | 58·4 | 59·0 | 59·2 | 59·4 | 59·2 | 59·0 | 59·0 | 59·0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 59·4 | 59·8 | 60·0 | 60·0 | 60·0 | 60·0 | 60·0 | 60·0 | 60·3 | 60·5 | 60·6 | 60·9 |
| | 25 | 58·0 | 57·7 | 57·6 | 57·6 | 58·0 | 58·2 | 58·5 | 58·7 | 58·7 | 59·2 | 59·3 | 59·3 |
| | 26 | 57·0 | 56·7 | 56·6 | 56·7 | 57·2 | 57·8 | 58·2 | 58·9 | 59·2 | 59·7 | 60·2 | 60·0 |
| | 27 | 58·0 | 57·4 | 57·2 | 57·0 | 56·7 | 56·7 | 57·0 | 57·1 | 57·7 | 58·2 | 58·9 | 59·1 |
| | 28 | 57·3 | 57·2 | 58·0 | 58·8 | 59·4 | 60·0 | 60·0 | 60·7 | 62·5 | 62·8 | 63·5 | 63·3 |
| | 29 | 59·0 | 58·2 | 57·5 | 57·0 | 56·5 | 56·3 | 56·2 | 56·2 | 55·2 | 55·2 | 55·2 | 54·8 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 51·12 | 51·07 | 51·31 | 51·61 | 52·10 | 52·60 | 53·05 | 53·44 | 53·77 | 54·09 | 54·37 | 54·56 | |

^a Good Friday.

^b Three minutes late.

VERTICAL FORCE.

One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 72·4 | Sc. Div. 72·7 | Sc. Div. 72·7 | Sc. Div. 72·7 | Sc. Div. 73·2 | Sc. Div. 73·5 | — | — | — | — | — | — | Sc. Div. 74·40 |
| — | — | — | — | — | — | 76·9 | 76·7 | 76·7 | 77·3 | 77·3 | 78·0 | 74·40 |
| 60·6 | 60·5 | 65·6 | 66·4 | 67·0 | 68·4 | 70·1 | 70·2 | 71·4 | 72·3 | 72·0 | 72·2 | 69·76 |
| 72·8 | 72·3 | 71·9 | 72·8 | 72·8 | 71·9 | 71·9 | 72· | 72·0 | 72·0 | 71·6 | 70·7 | 72·42 |
| 89·6 | 92·5 | 68·8 | 76·1 | 69·8 | 67·7 | 63·2 | 57·3 | 56·4 | 43·3 | 46·7 | 49·0 | 69·23 |
| 76·0 | 75·5 | 79·7 | 67·8 | 68·4 | 55·9 | 62·9 | 67·3 | 70·0 | 69·9 | 70·8 | 70·4 | 66·79 |
| 71·2 | 68·2 | 68·8 | 70·7 | 61·9 | 63·0 | 64·8 | 65·0 | 63·2 | 62·8 | 68·8 | 69·3 | 68·18 |
| 68·8 | 69·7 | 70·5 | 68·5 | 68·5 | 68·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72·5 | 70·4 | 70·4 | 70·4 | 70·4 | 72·6 | 69·67 |
| 70·6 | 70·6 | 70·6 | 70·8 | 70·5 | 70·5 | 70·5 | 71·4 | 71·6 | 69·7 | 69·4 | 71·8 | 71·63 |
| 66·9 | 65·9 | 66·1 | 66·1 | 65·9 | 65·8 | 66·4 | 65·2 | 66·4 | 66·0 | 67·5 | 70·3 | 68·08 |
| 67·2 | 67·3 | 67·5 | 61·5 | 59·9 | 57·0 | 56·7 | 65·1 | 65·1 | 66·4 | 66·4 | 63·7 | 64·89 |
| 68·9 | 68·3 | 67·6 | 67·0 | 67·2 | 67·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57·7 | 58·8 | 60·2 | 59·3 | 58·9 | 59·6 | 64·82 |
| 61·1 | 60·6 | 60·8 | 60·8 | 60·8 | 61·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65·7 | 66·4 | 67·2 | 66·4 | 67·7 | 68·6 | 63·07 |
| 65·7 | 66·0 | 68·9 | 67·5 | 70·6 | 66·4 | 62·5 | 67·2 | 66·2 | 65·5 | 65·8 | 66·9 | 65·95 |
| 70·4 | 70·7 | 70·0 | 70·0 | 70·0 | 68·6 | 69·4 | 69·4 | 69·6 | 69·6 | 69·6 | 69·6 | 69·16 |
| 65·1 | 64·4 | 63·3 | 62·3 | 60·5 | 60·1 | 55·8 | 57·4 | 58·8 | 58·6 | 60·3 | 61·0 | 64·12 |
| 58·0 | 58·0 | 58·5 | 58·0 | 58·0 | 58·8 | 59·6 | 60·5 | 61·1 | 61·3 | 62·6 | 63·2 | 60·25 |
| 53·0 | 53·0 | 53·1 | 53·2 | 53·6 | 54·8 | 56·0 | 56·0 | 55·7 | 55·9 | 56·4 | 56·9 | 55·79 |
| 55·4 | 56·0 | 56·0 | 56·0 | 56·0 | 56·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53·6 | 53·4 | 50·7 | 53·3 | 53·3 | 53·3 | 54·49 |
| 51·9 | 51·5 | 51·9 | 51·9 | 52·4 | 52·2 | 53·2 | 53·2 | 53·2 | 54·0 | 54·3 | 55·2 | 52·52 |
| 53·4 | 54·4 | 54·4 | 54·7 | 55·3 | 54·5 | 55·0 | 56·3 | 56·6 | 57·3 | 56·4 | 56·3 | 54·81 |
| 52·1 | 51·6 | 51·9 | 52·0 | 52·0 | 51·8 | 51·9 | 51·7 | 51·6 | 51·4 | 53·8 | 53·8 | 52·95 |
| 53·3 | 53·5 | 52·9 | 53·9 | 53·9 | 54·0 | 53·7 | 53·6 | 54·6 | 55·2 | 55·8 | 56·3 | 54·73 |
| 47·1 | 47·1 | 47·1 | 47·1 | 47·1 | 48·5 | 49·2 | 49·8 | 50·5 | 50·2 | 51·8 | 53·3 | 50·33 |
| 59·6 | 58·8 | 59·3 | 59·7 | 60·0 | 60·8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63·6 | 64·4 | 64·4 | 65·0 | 65·1 | 65·8 | 59·70 |
| 63·80 | 63·71 | 63·25 | 62·81 | 62·30 | 61·53 | 61·78 | 62·45 | 62·65 | 62·21 | 63·03 | 63·66 | 63·24 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 46·4 | 46·6 | 46·5 | 46·4 | 45·9 | 45·5 | — | — | — | — | — | — | 44·40 |
| — | — | — | — | — | — | 43·6 | 43·0 | 42·4 | 42·4 | 42·0 | 41·8 | 41·8 |
| 52·0 | 51·7 | 51·6 | 50·9 | 50·0 | 49·4 | 48·4 | 48·0 | 47·2 | 46·5 | 46·2 | 45·7 | 47·58 |
| 46·7 | 46·6 | 46·5 | 46·6 | 46·4 | 46·6 | 46·6 | 46·5 | 46·5 | 46·4 | 46·3 | 46·0 | 46·28 |
| 53·0 | 53·5 | 53·4 | 53·2 | 52·7 | 52·5 | 52·2 | 52·2 | 52·0 | 52·0 | 51·7 | 51·6 | 51·14 |
| 53·0 | 52·7 | 52·0 | 52·7 | 52·7 | 53·0 | 52·2 | 51·0 | 50·0 | 49·2 | 48·5 | 47·9 | 51·78 |
| 50·2 | 50·2 | 50·3 | 49·9 | 49·6 | 49·6 | 49·2 | 49·2 | 49·2 | 49·3 | 49·1 | 49·0 | 49·24 |
| 52·8 | 52·4 | 52·2 | 52·1 | 51·7 | 51·7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 46·7 | 46·2 | 46·2 | 45·7 | 45·4 | 45·5 | 50·21 |
| 49·4 | 49·2 | 49·2 | 49·2 | 49·2 | 49·2 | 48·7 | 48·2 | 47·7 | 47·4 | 47·4 | 47·1 | 47·70 |
| 53·0 | 53·4 | 53·0 | 52·3 | 52·3 | 52·1 | 52·1 | 51·2 | 50·6 | 50·0 | 49·6 | 49·2 | 50·50 |
| 57·4 | 57·2 | 56·9 | 56·6 | 55·8 | 55·2 | 54·7 | 54·0 | 53·2 | 52·4 | 52·2 | 51·8 | 53·84 |
| 52·4 | 52·6 | 52·5 | 52·5 | 52·2 | 52·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53·4 | 53·5 | 53·5 | 53·2 | 53·2 | 52·9 | 52·49 |
| 58·2 | 58·2 | 58·1 | 57·9 | 57·3 | 57·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52·6 | 52·0 | 51·4 | 50·8 | 50·6 | 50·2 | 54·87 |
| 53·0 | 52·5 | 52·3 | 52·2 | 52·0 | 51·6 | 51·6 | 51·4 | 51·2 | 51·2 | 51·0 | 50·7 | 52·13 |
| 48·2 | 48·2 | 48·2 | 48·2 | 48·2 | 48·2 | 47·9 | 47·4 | 47·4 | 47·4 | 47·4 | 47·4 | 48·35 |
| 50·8 | 51·2 | 51·7 | 52·3 | 53·1 | 53·4 | 54·3 | 54·6 | 54·0 | 54·2 | 54·2 | 54·2 | 50·99 |
| 56·7 | 56·8 | 56·3 | 56·4 | 56·2 | 55·6 | 55·2 | 54·5 | 53·8 | 53·4 | 53·2 | 52·8 | 54·68 |
| 60·0 | 60·0 | 60·0 | 59·6 | 58·8 | 58·9 | 58·9 | 58·2 | 58·1 | 57·7 | 57·3 | 57·2 | 57·61 |
| 58·4 | 58·3 | 58·0 | 57·9 | 57·6 | 57·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60·0 | 59·8 | 59·8 | 59·8 | 59·8 | 59·8 | 58·68 |
| 60·7 | 60·2 | 60·2 | 60·3 | 60·2 | 60·1 | 59·8 | 59·7 | 59·5 | 58·6 | 58·3 | 58·2 | 59·89 |
| 59·2 | 59·0 | 58·4 | 58·2 | 57·9 | 57·3 | 57·3 | 57·4 | 57·4 | 57·0 | 57·2 | 57·2 | 58·10 |
| 60·0 | 60·3 | 60·2 | 59·7 | 59·7 | 59·5 | 59·5 | 59·6 | 59·4 | 59·0 | 58·8 | 58·4 | 58·85 |
| 59·4 | 59·7 | 59·7 | 59·2 | 59·0 | 59·0 | 59·2 | 58·4 | 58·2 | 58·0 | 57·8 | 58·0 | 58·19 |
| 63·5 | 63·5 | 63·2 | 62·6 | 62·3 | 62·0 | 61·6 | 61·3 | 61·0 | 59·8 | 59·8 | 59·6 | 61·00 |
| 54·2 | 54·2 | 54·1 | 54·0 | 53·8 | 53·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50·3 | 50·2 | 50·1 | 49·8 | 49·5 | 49·8 | 54·20 |
| 54·52 | 54·51 | 54·35 | 54·20 | 53·94 | 53·75 | 53·17 | 52·81 | 52·49 | 52·13 | 51·94 | 51·75 | 53·03 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = $\cdot 000094$ parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah $^{\circ}$. = $\cdot 00007$. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | 1 | 66.5 | 66.8 | 66.4 | 65.0 | 64.8 | 65.3 | 66.3 | 70.4 | 66.7 | 63.2 | 65.5 | 65.8 |
| | 2 | 67.3 | 66.5 | 66.4 | 66.8 | 66.8 | 67.3 | 67.2 | 66.2 | 69.3 | 66.4 | 66.2 | 66.2 |
| | 3 | 66.0 | 63.4 | 63.3 | 61.9 | 57.4 | 58.2 | 57.9 | 57.0 | 57.5 | 57.8 | 57.0 | 56.5 |
| | 4 | 60.6 | 60.6 | 60.3 | 60.3 | 59.4 | 59.1 | 58.0 | 57.4 | 58.6 | 58.8 | 59.8 | 61.5 |
| | 5 | 64.9 | 64.0 | 62.5 | 61.1 | 60.2 | 60.2 | 60.2 | 61.9 | 62.8 | 62.5 | 62.5 | 62.3 |
| | 6 | 65.0 | 64.4 | 63.9 | 63.0 | 61.6 | 59.4 | 58.6 | 58.7 | 61.1 | 62.0 | 80.9 | 104.1 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 59.0 | 59.0 | 60.3 | 60.3 | 60.3 | 59.3 | 58.5 | 57.9 | 58.6 | 57.7 | 58.3 | 58.9 |
| | 9 | 61.0 | 61.3 | 60.2 | 59.0 | 58.0 | 57.7 | 57.0 | 58.0 | 58.0 | 58.8 | 59.6 | 56.8 |
| | 10 | 59.3 | 57.9 | 56.5 | 53.8 | 56.5 | 57.3 | 56.5 | 57.7 | 59.4 | 58.4 | 57.8 | 58.7 |
| | 11 | 57.6 | 57.1 | 55.8 | 54.6 | 52.4 | 52.4 | 51.5 | 51.8 | 51.4 | 51.1 | 50.7 | 51.5 |
| | 12 | 53.1 | 53.1 | 52.9 | 51.5 | 51.1 | 49.8 | 48.0 | 47.7 | 49.0 | 49.2 | 49.0 | 49.8 |
| | 13 | 53.4 | 54.4 | 53.5 | 51.9 | 50.5 | 49.2 | 47.8 | 47.3 | 47.2 | 46.2 | 46.0 | 46.1 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 47.5 | 46.8 | 44.4 | 41.3 | 39.3 | 38.7 | 39.3 | 38.8 | 40.2 | 43.4 | 42.0 | 42.5 |
| | 16 | 44.2 | 46.6 | 46.9 | 45.9 | 45.5 | 44.0 | 43.2 | 43.5 | 44.9 | 45.8 | 47.5 | 47.2 |
| | 17 | 54.3 | 52.7 | 51.6 | 50.3 | 49.5 | 50.2 | 50.2 | 50.2 | 51.0 | 52.2 | 53.9 | 54.7 |
| | 18 | 59.6 | 59.6 | 56.9 | 55.6 | 53.9 | 52.9 | 53.4 | 53.8 | 54.2 | 54.2 | 53.2 | 53.3 |
| | 19 | 53.2 | 53.2 | 56.4 | 55.3 | 53.4 | 52.0 | 52.6 | 53.1 | 53.2 | 53.9 | 54.3 | 54.0 |
| | 20 | 60.5 | 58.8 | 57.1 | 56.1 | 54.2 | 53.3 | 52.1 | 52.0 | 52.9 | 53.2 | 53.0 | 57.4 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 56.0 | 56.0 | 56.0 | 54.2 | 52.0 | 51.7 | 51.4 | 51.8 | 52.3 | 52.1 | 52.7 | 53.4 |
| | 23 | 55.4 | 54.1 | 53.3 | 51.7 | 49.6 | 48.9 | 48.6 | 47.6 | 49.3 | 50.6 | 51.4 | 51.8 |
| | 24 | 56.9 | 56.0 | 54.9 | 54.9 | 53.1 | 52.9 | 53.0 | 52.4 | 52.4 | 52.1 | 51.4 | 50.4 |
| | 25 | 56.3 | 54.8 | 52.8 | 51.0 | 51.0 | 51.0 | 50.5 | 50.9 | 52.0 | 51.2 | 50.4 | 50.8 |
| | 26 | 54.8 | 54.8 | 54.8 | 52.6 | 51.5 | 51.5 | 50.4 | 51.0 | 52.1 | 55.1 | 57.4 | 55.9 |
| | 27 | 53.0 | 53.1 | 52.8 | 52.8 | 52.1 | 51.7 | 51.0 | 51.4 | 52.1 | 54.2 | 53.3 | 52.6 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 57.1 | 56.0 | 54.5 | 53.3 | 52.5 ^a | 51.0 | 49.2 | 50.4 | 50.6 | 51.6 | 51.3 | 52.3 |
| | 30 | 54.7 | 54.6 | 53.6 | 52.5 | 51.1 ^b | 51.1 | 51.1 | 51.5 | 53.7 | 55.4 | 55.5 | 55.9 |
| | 31 | 60.9 | 60.3 | 59.1 | 58.9 | 57.4 | 57.4 | 57.7 | 57.5 | 58.8 | 58.8 | 59.3 | 59.7 |
| Hourly Means | 57.71 | 57.26 | 56.56 | 55.39 | 54.26 | 53.83 | 53.38 | 53.63 | 54.42 | 54.66 | 55.55 | 56.67 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| MAY. | 1 | 49.4 | 49.4 | 49.7 | 49.9 | 50.3 | 49.6 | 49.3 | 49.6 | 49.1 | 49.3 | 48.4 | 48.6 |
| | 2 | 49.0 | 49.4 | 49.7 | 48.9 | 48.5 | 48.0 | 48.1 | 49.0 | 50.0 | 50.2 | 50.4 | 51.0 |
| | 3 | 49.4 | 50.5 | 50.4 | 51.6 | 52.9 | 53.3 | 54.1 | 54.3 | 55.0 | 55.3 | 56.0 | 56.1 |
| | 4 | 53.0 | 52.8 | 52.8 | 52.7 | 52.7 | 52.7 | 53.0 | 53.0 | 53.1 | 53.3 | 53.5 | 53.2 |
| | 5 | 50.0 | 50.2 | 51.0 | 51.4 | 51.4 | 51.2 | 51.1 | 51.0 | 50.8 | 51.0 | 51.4 | 51.6 |
| | 6 | 49.7 | 49.7 | 49.7 | 50.1 | 50.3 | 51.2 | 52.0 | 53.0 | 53.3 | 54.2 | 55.0 | 55.4 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 55.4 | 55.4 | 55.7 | 55.7 | 56.0 | 56.2 | 56.5 | 57.0 | 57.6 | 57.8 | 58.0 | 57.9 |
| | 9 | 55.2 | 55.2 | 56.0 | 57.0 | 57.3 | 57.6 | 57.8 | 58.0 | 58.2 | 59.0 | 59.0 | 59.0 |
| | 10 | 57.0 | 57.0 | 57.0 | 57.5 | 57.7 | 58.0 | 58.2 | 58.3 | 58.7 | 58.9 | 58.9 | 58.6 |
| | 11 | 57.6 | 58.2 | 59.0 | 59.1 | 59.4 | 60.0 | 60.2 | 60.6 | 60.9 | 61.1 | 61.5 | 61.6 |
| | 12 | 59.0 | 59.3 | 59.4 | 60.0 | 60.5 | 60.6 | 60.8 | 61.5 | 61.9 | 62.5 | 62.9 | 63.0 |
| | 13 | 60.0 | 59.5 | 60.0 | 60.5 | 60.7 | 61.5 | 62.0 | 62.9 | 63.3 | 64.0 | 64.5 | 64.8 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 62.5 | 63.3 | 63.8 | 64.7 | 65.5 | 66.0 | 66.5 | 66.3 | 66.6 | 66.7 | 67.1 | 67.5 |
| | 16 | 63.0 | 63.0 | 63.2 | 63.4 | 63.5 | 63.5 | 63.5 | 63.2 | 63.3 | 63.5 | 63.9 | 64.2 |
| | 17 | 58.0 | 58.2 | 58.4 | 59.0 | 59.0 | 59.0 | 59.0 | 59.8 | 60.0 | 60.1 | 60.0 | 60.0 |
| | 18 | 55.7 | 56.0 | 56.2 | 57.2 | 57.8 | 58.0 | 58.1 | 58.2 | 58.3 | 58.6 | 58.9 | 59.1 |
| | 19 | 55.0 | 55.0 | 55.4 | 56.0 | 56.4 | 57.0 | 57.4 | 58.0 | 58.2 | 58.7 | 58.9 | 59.0 |
| | 20 | 54.2 | 54.4 | 55.0 | 56.2 | 57.0 | 57.7 | 58.2 | 58.6 | 59.0 | 59.4 | 60.0 | 60.0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 57.2 | 57.0 | 57.0 | 57.5 | 58.0 | 58.1 | 58.2 | 58.6 | 59.0 | 59.2 | 59.2 | 59.1 |
| | 23 | 57.2 | 58.0 | 58.2 | 58.2 | 59.0 | 59.2 | 59.4 | 59.4 | 59.8 | 60.1 | 60.2 | 60.0 |
| | 24 | 56.5 | 56.7 | 57.2 | 57.7 | 58.0 | 58.2 | 58.5 | 59.0 | 59.5 | 60.0 | 60.5 | 61.2 |
| | 25 | 56.7 | 57.2 | 57.7 | 58.7 | 59.2 | 59.4 | 60.0 | 60.0 | 60.0 | 60.0 | 60.5 | 60.8 |
| | 26 | 57.7 | 57.5 | 57.3 | 57.7 | 58.0 | 58.0 | 58.3 | 59.2 | 59.2 | 59.3 | 59.4 | 59.7 |
| | 27 | 59.2 | 59.0 | 59.0 | 58.9 | 59.0 | 59.0 | 59.1 | 59.5 | 59.6 | 59.6 | 59.5 | 60.0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 56.2 | 56.5 | 57.5 | 58.2 | 59.0 ^a | 59.5 | 59.4 | 60.0 | 60.1 | 60.2 | 60.4 | 60.8 |
| | 30 | 58.0 | 58.0 | 58.4 | 59.2 | 59.4 ^b | 60.0 | 60.0 | 59.3 | 59.1 | 58.2 | 57.3 | 57.2 |
| | 31 | 53.5 | 53.0 | 53.2 | 53.1 | 53.0 | 53.0 | 53.0 | 53.0 | 53.1 | 53.2 | 53.2 | 53.2 |
| Hourly Means | 55.75 | 55.90 | 56.22 | 56.67 | 57.02 | 57.24 | 57.47 | 57.79 | 58.03 | 58.27 | 58.46 | 58.61 | |

^a Three minutes late.

^b Five minutes late.

VERTICAL FORCE.

One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 68.0 | 66.6 | 66.3 | 66.2 | 66.3 | 67.6 | 67.3 | 67.3 | 67.7 | 67.3 | 67.5 | 67.3 | 66.59 |
| 65.7 | 63.3 | 63.2 | 62.9 | 63.2 | 63.1 | 63.5 | 65.3 | 64.6 | 64.9 | 66.0 | 66.0 | 65.60 |
| 56.8 | 57.4 | 57.7 | 58.9 | 58.9 | 58.9 | 58.9 | 59.0 | 59.5 | 59.9 | 60.2 | 60.6 | 59.19 |
| 61.5 | 61.5 | 62.1 | 62.5 | 62.8 | 62.4 | 63.5 | 63.6 | 63.4 | 63.4 | 64.7 | 65.3 | 61.30 |
| 62.7 | 63.1 | 63.0 | 63.4 | 64.1 | 63.8 | 64.3 | 64.1 | 64.1 | 64.4 | 64.1 | 65.0 | 62.97 |
| 108.3 | 83.1 | 66.9 | 60.4 | 63.6 | 71.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.7 | 55.7 | 59.3 | 60.5 | 55.8 | 53.7 | 66.34 |
| 61.0 | 59.6 | 61.4 | 61.1 | 60.9 | 59.8 | 51.6 | 51.6 | 51.6 | 57.4 | 62.5 | 62.3 | 58.70 |
| 56.4 | 5.1 | 56.1 | 56.2 | 55.6 | 55.9 | 52.1 | 52.1 | 52.5 | 53.1 | 57.9 | 59.3 | 57.03 |
| 59.7 | 59.3 | 59.4 | 54.5 | 54.2 | 56.2 | 55.3 | 51.4 | 53.1 | 56.3 | 57.0 | 56.9 | 56.80 |
| 51.5 | 51.5 | 52.1 | 52.4 | 52.7 | 52.8 | 52.6 | 51.6 | 53.6 | 53.6 | 53.6 | 53.0 | 52.87 |
| 50.5 | 50.5 | 50.5 | 47.6 | 44.5 | 47.9 | 49.1 | 51.0 | 51.9 | 52.1 | 52.0 | 52.0 | 50.16 |
| 45.8 | 46.6 | 46.1 | 46.1 | 46.5 | 46.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.9 | 45.9 | 46.8 | 47.2 | 47.5 | 47.5 | 47.98 |
| 42.3 | 42.1 | 42.1 | 43.2 | 41.3 | 43.7 | 40.3 | 40.5 | 40.5 | 45.6 | 41.9 | 40.8 | 42.02 |
| 47.7 | 47.7 | 47.4 | 48.1 | 45.4 | 44.4 | 43.8 | 46.3 | 47.9 | 51.0 | 52.2 | 53.9 | 46.71 |
| 54.7 | 53.7 | 53.7 | 53.7 | 53.7 | 53.9 | 51.8 | 52.2 | 56.1 | 57.7 | 59.1 | 59.6 | 53.36 |
| 53.2 | 53.2 | 52.7 | 54.0 | 54.7 | 55.5 | 55.3 | 55.3 | 55.4 | 57.0 | 57.0 | 53.3 | 54.88 |
| 53.8 | 53.8 | 53.6 | 53.6 | 53.7 | 53.7 | 55.5 | 56.4 | 56.8 | 56.5 | 58.8 | 60.5 | 54.64 |
| 52.4 | 51.3 | 51.0 | 51.1 | 51.1 | 52.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.7 | 52.9 | 53.3 | 53.6 | 54.5 | 55.9 | 53.87 |
| 53.2 | 53.5 | 53.5 | 53.5 | 53.6 | 53.6 | 53.7 | 53.9 | 54.3 | 54.6 | 54.6 | 55.4 | 53.63 |
| 54.7 | 52.5 | 52.5 | 52.1 | 53.2 | 53.5 | 54.1 | 55.1 | 55.5 | 56.1 | 56.8 | 57.5 | 52.62 |
| 49.2 | 49.5 | 48.4 | 49.9 | 50.7 | 51.9 | 52.5 | 52.5 | 52.6 | 54.3 | 54.8 | 55.7 | 52.60 |
| 49.7 | 49.7 | 49.7 | 50.7 | 50.7 | 51.3 | 51.3 | 51.5 | 51.9 | 52.8 | 53.7 | 54.8 | 51.69 |
| 56.9 | 58.1 | 58.2 | 54.7 | 52.4 | 49.7 | 50.0 | 50.0 | 50.0 | 50.7 | 51.8 | 52.3 | 53.20 |
| 53.4 | 53.7 | 52.3 | 52.2 | 53.5 | 53.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.0 | 50.0 | 47.9 | 50.6 | 54.4 | 58.9 | 52.60 |
| 50.3 | 49.6 | 49.6 | 49.8 | 50.6 | 42.2 | 43.6 | 50.8 | 50.4 | 51.5 | 55.3 | 56.1 | 51.23 |
| 56.9 | 57.2 | 56.2 | 57.2 | 57.3 | 57.0 | 58.1 | 58.5 | 58.5 | 59.8 | 60.5 | 62.2 | 55.84 |
| 59.9 | 60.1 | 60.3 | 60.5 | 60.8 | 61.1 | 61.3 | 61.4 | 61.7 | 62.5 | 63.4 | 63.5 | 60.10 |
| 56.79 | 55.71 | 55.04 | 54.69 | 54.67 | 54.94 | 53.73 | 54.29 | 54.85 | 56.09 | 56.95 | 57.38 | 55.35 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 49.0 | 49.2 | 49.4 | 49.2 | 48.7 | 48.9 | 48.9 | 48.9 | 48.5 | 48.5 | 48.8 | 48.5 | 49.13 |
| 51.2 | 51.7 | 52.0 | 52.0 | 51.7 | 51.9 | 52.0 | 50.4 | 50.0 | 49.8 | 49.4 | 49.2 | 50.15 |
| 56.1 | 55.6 | 55.4 | 55.0 | 54.6 | 54.3 | 54.0 | 53.8 | 53.4 | 53.2 | 53.2 | 53.0 | 53.77 |
| 52.8 | 52.4 | 52.2 | 51.7 | 51.1 | 51.0 | 50.7 | 50.3 | 50.0 | 49.6 | 49.6 | 49.8 | 51.96 |
| 51.2 | 51.1 | 50.9 | 50.4 | 50.2 | 50.4 | 50.2 | 50.0 | 49.8 | 49.2 | 49.8 | 49.9 | 50.63 |
| 56.1 | 56.4 | 56.4 | 57.2 | 56.9 | 57.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.5 | 56.4 | 56.4 | 56.1 | 55.7 | 55.7 | 54.20 |
| 58.0 | 57.8 | 57.4 | 57.4 | 57.2 | 57.0 | 56.6 | 56.0 | 55.8 | 55.4 | 55.2 | 54.8 | 56.57 |
| 59.0 | 59.0 | 59.2 | 59.0 | 58.8 | 58.4 | 58.0 | 58.2 | 57.6 | 57.2 | 57.1 | 57.0 | 57.82 |
| 58.2 | 58.2 | 58.2 | 58.1 | 58.1 | 58.0 | 57.9 | 57.7 | 57.7 | 57.6 | 57.5 | 57.3 | 57.93 |
| 61.6 | 61.5 | 61.5 | 61.3 | 61.0 | 60.5 | 60.0 | 60.0 | 59.8 | 59.2 | 59.0 | 58.9 | 60.15 |
| 63.0 | 62.5 | 62.5 | 62.3 | 62.0 | 61.5 | 61.3 | 61.0 | 61.0 | 61.0 | 60.5 | 60.0 | 61.25 |
| 64.9 | 64.7 | 64.7 | 64.0 | 64.0 | 63.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 64.7 | 63.7 | 63.5 | 63.3 | 63.0 | 62.5 | 62.93 |
| 67.9 | 68.0 | 67.8 | 67.1 | 66.5 | 65.7 | 65.2 | 65.1 | 64.3 | 63.5 | 63.2 | 62.5 | 65.55 |
| 64.3 | 64.0 | 63.7 | 62.6 | 61.5 | 60.8 | 60.6 | 59.9 | 59.3 | 59.0 | 58.5 | 58.0 | 62.22 |
| 60.0 | 60.0 | 59.2 | 59.5 | 59.0 | 58.4 | 57.8 | 56.3 | 55.3 | 55.3 | 55.2 | 55.0 | 58.40 |
| 59.2 | 59.2 | 59.2 | 59.1 | 58.5 | 58.0 | 57.4 | 57.2 | 57.0 | 56.5 | 56.0 | 55.2 | 57.69 |
| 59.0 | 59.0 | 58.8 | 58.3 | 58.2 | 57.4 | 56.8 | 56.2 | 55.8 | 55.4 | 54.5 | 53.7 | 57.00 |
| 60.0 | 60.0 | 60.5 | 60.2 | 59.8 | 59.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.2 | 59.0 | 58.4 | 58.0 | 57.7 | 57.2 | 58.30 |
| 59.1 | 59.0 | 58.8 | 58.6 | 58.4 | 58.0 | 58.0 | 58.2 | 58.0 | 58.0 | 57.6 | 57.4 | 58.22 |
| 60.0 | 59.8 | 59.8 | 59.8 | 59.4 | 58.6 | 58.2 | 57.6 | 57.0 | 56.6 | 56.2 | 55.7 | 58.64 |
| 61.5 | 61.5 | 61.5 | 61.0 | 60.2 | 59.8 | 59.2 | 59.0 | 58.3 | 57.8 | 57.3 | 57.0 | 59.05 |
| 61.2 | 60.8 | 60.7 | 60.3 | 60.0 | 59.6 | 59.3 | 59.2 | 58.9 | 58.6 | 58.2 | 58.0 | 59.37 |
| 59.5 | 59.1 | 59.5 | 60.0 | 61.0 | 61.3 | 62.0 | 62.5 | 61.5 | 60.0 | 59.7 | 59.3 | 59.45 |
| 59.6 | 59.5 | 59.2 | 59.0 | 58.7 | 58.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.2 | 58.8 | 58.2 | 57.9 | 57.2 | 56.2 | 58.89 |
| 61.5 | 61.5 | 61.4 | 60.9 | 60.5 | 60.0 | 60.0 | 59.4 | 59.0 | 58.3 | 57.8 | 57.0 | 59.38 |
| 56.8 | 56.2 | 56.0 | 56.0 | 55.6 | 55.0 | 54.2 | 53.5 | 53.3 | 53.1 | 52.7 | 52.2 | 56.61 |
| 53.0 | 52.8 | 52.5 | 52.2 | 52.0 | 51.5 | 51.2 | 50.7 | 50.2 | 50.0 | 49.8 | 49.4 | 52.20 |
| 58.66 | 58.54 | 58.46 | 58.23 | 57.91 | 57.59 | 57.37 | 57.00 | 56.59 | 56.23 | 55.94 | 55.57 | 57.31 |

| VERTICAL FORCE. | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| One Scale Division = .000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00007. | | | | | | | | | | | | |
| Mean Göttingen Time. } JUNE. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 1 | 65.5 | 64.1 | 63.0 | 61.0 | 59.9 | 59.5 | 59.5 | 59.4 | 59.9 | 59.6 | 59.6 | 60.5 |
| 2 | 61.1 | 61.9 | 61.2 | 60.9 | 60.9 | 61.2 | 60.7 | 60.6 | 60.9 | 59.9 | 60.9 | 61.3 |
| 3 | 62.5 | 62.4 | 62.0 | 60.9 | 60.1 | 57.4 | 56.1 | 56.7 | 56.7 | 57.1 | 56.9 | 57.4 |
| 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| 5 | 60.4 | 60.4 | 60.7 | 60.5 | 60.0 | 58.1 | 56.6 | 56.8 | 57.6 | 57.7 | 57.7 | 57.8 |
| 6 | 60.1 | 59.5 | 59.5 | 58.6 | 57.4 | 56.9 | 54.9 | 54.3 | 54.8 | 55.2 | 55.3 | 55.2 |
| 7 | 57.6 | 57.3 | 55.9 | 55.0 | 53.3 | 52.5 | 52.5 | 52.7 | 52.6 | 51.5 | 53.8 | 56.6 |
| 8 | 56.1 | 55.0 | 55.0 | 54.3 | 53.2 | 53.5 | 53.8 | 54.9 | 54.0 | 55.3 | 56.0 | 56.0 |
| 9 | 53.6 | 52.9 | 52.0 | 49.8 | 46.3 | 44.3 | 42.3 | 42.5 | 42.5 | 42.1 | 42.1 | 41.4 |
| 10 | 43.5 | 44.1 | 46.0 | 47.0 | 45.3 | 46.5 | 47.8 | 48.7 | 50.0 | 50.0 | 52.5 | 53.6 |
| 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| 12 | 52.3 | 52.3 | 52.0 | 50.3 | 49.7 | 48.3 | 48.3 | 47.7 | 47.0 | 47.0 | 47.8 | 47.0 |
| 13 | 45.4 | 46.4 | 46.4 | 47.0 | 47.7 | 45.3 ^c | 45.3 | 47.8 | 46.2 | 46.2 | 46.2 | 47.6 |
| 14 | 49.2 | 48.2 | 47.2 | 46.2 | 45.8 | 45.8 | 45.8 | 45.5 | 45.5 | 45.8 | 45.5 | 44.5 |
| 15 | 48.5 | 47.7 | 47.2 | 45.8 | 45.8 | 45.8 | 45.1 | 45.9 | 46.9 | 46.5 | 46.4 | 46.8 |
| 16 | 50.7 | 50.7 | 50.5 | 48.5 | 47.4 | 46.5 | 46.9 | 48.1 | 47.8 | 47.4 | 48.1 | 48.1 |
| 17 | 50.3 | 50.8 | 49.4 | 48.0 | 48.5 | 44.8 | 45.8 | 45.9 | 47.4 | 47.6 | 46.1 | 45.5 |
| 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| 19 | 45.8 | 46.1 | 45.5 | 44.6 | 43.0 | 42.2 | 42.2 | 42.0 | 42.4 | 43.1 | 43.5 | 42.8 |
| 20 | 45.7 | 45.2 | 43.9 | 42.0 | 40.1 | 37.9 | 37.2 | 37.2 | 37.8 | 37.4 | 36.8 | 36.5 |
| 21 | 40.7 | 40.7 | 39.5 | 38.2 | 37.3 | 36.3 | 35.5 | 34.5 | 32.7 | 32.1 | 31.0 | 29.5 |
| 22 | 34.9 | 33.5 | 32.9 | 31.6 | 30.3 | 29.3 | 28.8 | 29.2 | 27.8 | 27.6 | 27.7 | 28.0 |
| 23 | 33.8 | 33.8 | 32.5 | 32.1 | 32.1 | 32.1 | 32.3 | 32.2 | 32.2 | 31.9 | 31.4 | 30.8 |
| 24 | 35.8 | 35.8 | 36.0 | 36.0 | 36.0 | 36.0 | 35.5 | 34.6 | 33.8 | 33.9 | 33.7 | 32.4 |
| 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| 26 | 38.0 | 38.5 | 37.5 | 36.5 | 36.5 | 34.3 | 33.3 | 33.3 | 33.4 | 33.7 | 33.7 | 32.4 |
| 27 | 34.8 | 32.8 | 32.8 | 31.7 | 30.5 | 28.3 | 26.9 | 26.1 | 24.7 | 24.4 | 24.7 | 25.0 |
| 28 | 31.7 | 31.7 | 31.8 | 31.8 | 30.6 | 30.4 | 30.4 | 29.4 | 29.2 | 28.6 | 28.0 | 28.3 |
| 29 | 32.1 | 33.1 | 32.9 | 32.0 | 31.0 | 31.0 | 30.5 | 30.2 | 31.4 | 30.9 | 30.9 | 29.4 |
| 30 | 34.3 | 32.3 | 31.0 | 29.2 | 28.4 | 28.0 | 28.3 | 29.4 | 29.2 | 29.0 | 31.0 | 32.5 |
| Hourly Means | 47.09 | 46.82 | 46.32 | 45.37 | 44.50 | 43.55 | 43.17 | 43.29 | 43.25 | 43.10 | 43.36 | 43.34 |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| JUNE. | 0 ^o . | 1 ^o . | 2 ^o . | 3 ^o . | 4 ^o . | 5 ^o . | 6 ^o . | 7 ^o . | 8 ^o . | 9 ^o . | 10 ^o . | 11 ^o . |
| 1 | 49.2 | 49.3 | 49.5 | 50.2 | 50.3 | 50.8 | 51.2 | 51.7 | 52.2 | 52.9 | 53.2 | 53.2 |
| 2 | 49.2 | 49.2 | 49.4 | 49.7 | 50.0 | 50.5 | 51.2 | 51.7 | 52.1 | 52.4 | 52.9 | 52.9 |
| 3 | 52.0 | 51.7 | 52.0 | 52.7 | 53.3 | 54.0 | 55.0 | 55.3 | 55.6 | 56.0 | 56.0 | 56.2 |
| 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| 5 | 54.0 | 53.7 | 53.7 | 53.7 | 53.7 | 54.0 | 54.7 | 54.7 | 54.9 | 55.2 | 55.5 | 55.6 |
| 6 | 54.0 | 54.2 | 54.2 | 54.5 | 55.4 | 56.0 | 56.7 | 57.0 | 57.3 | 57.8 | 57.7 | 57.8 |
| 7 | 55.3 | 55.5 | 55.7 | 56.4 | 57.1 | 57.7 | 58.0 | 59.0 | 59.2 | 59.5 | 59.8 | 59.7 |
| 8 | 57.4 | 57.4 | 57.5 | 57.8 | 57.7 | 57.7 | 57.7 | 57.9 | 58.0 | 58.0 | 58.0 | 58.2 |
| 9 | 58.7 | 59.1 | 59.5 | 60.0 | 61.0 | 62.3 | 63.2 | 64.1 | 65.0 | 66.0 | 66.3 | 66.7 |
| 10 | 61.0 | 60.5 | 60.5 | 60.2 | 60.2 | 60.6 | 60.5 | 60.7 | 60.7 | 60.6 | 60.5 | 60.5 |
| 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| 12 | 58.2 | 58.7 | 59.5 | 60.0 | 60.3 | 60.7 | 61.0 | 61.7 | 62.3 | 63.0 | 63.7 | 64.3 |
| 13 | 61.5 | 61.5 | 61.5 | 61.5 | 61.7 | 62.0 ^c | 62.3 | 62.5 | 62.7 | 63.1 | 63.3 | 63.4 |
| 14 | 61.5 | 61.5 | 61.8 | 62.5 | 62.7 | 63.0 | 63.3 | 63.5 | 63.6 | 63.7 | 64.2 | 64.5 |
| 15 | 60.0 | 60.0 | 60.5 | 61.4 | 61.4 | 61.4 | 61.5 | 61.5 | 61.5 | 61.8 | 62.0 | 62.1 |
| 16 | 59.0 | 59.0 | 59.0 | 59.2 | 59.5 | 60.0 | 60.2 | 60.4 | 60.6 | 61.1 | 61.6 | 62.0 |
| 17 | 59.4 | 59.8 | 60.2 | 60.5 | 61.0 | 61.5 | 61.7 | 62.4 | 62.5 | 62.6 | 63.0 | 63.3 |
| 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| 19 | 61.0 | 61.2 | 61.5 | 62.5 | 63.0 | 63.3 | 63.7 | 64.0 | 64.7 | 65.1 | 65.3 | 65.5 |
| 20 | 62.5 | 62.5 | 63.2 | 64.0 | 64.7 | 65.5 | 66.2 | 66.7 | 67.5 | 68.5 | 69.0 | 69.4 |
| 21 | 66.0 | 66.2 | 66.5 | 67.2 | 67.7 | 68.5 | 69.5 | 70.3 | 71.0 | 71.8 | 72.7 | 73.1 |
| 22 | 69.9 | 70.3 | 71.1 | 71.4 | 71.8 | 72.5 | 72.8 | 73.3 | 74.3 | 74.8 | 75.3 | 75.3 |
| 23 | 70.5 | 70.5 | 70.5 | 70.7 | 70.7 | 71.0 | 70.7 | 70.8 | 71.1 | 71.5 | 71.8 | 72.5 |
| 24 | 69.5 | 69.3 | 69.3 | 69.1 | 69.0 | 69.1 | 69.4 | 69.5 | 70.0 | 70.5 | 71.3 | 71.9 |
| 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| 26 | 66.0 | 66.3 | 66.7 | 67.5 | 68.0 | 68.5 | 68.7 | 69.3 | 69.6 | 70.2 | 71.0 | 71.8 |
| 27 | 69.3 | 70.0 | 70.5 | 71.5 | 72.0 | 72.6 | 73.3 | 74.3 | 74.8 | 75.1 | 75.2 | 75.4 |
| 28 | 71.3 | 71.3 | 71.2 | 71.3 | 71.5 | 71.6 | 71.7 | 72.3 | 72.7 | 73.1 | 73.5 | 73.5 |
| 29 | 70.3 | 70.0 | 70.3 | 70.4 | 70.7 | 71.3 | 71.6 | 72.3 | 72.5 | 73.0 | 73.7 | 73.7 |
| 30 | 70.2 | 70.5 | 71.0 | 71.7 | 71.7 | 72.5 | 72.8 | 73.3 | 73.8 | 74.5 | 75.0 | 75.5 |
| Hourly Means | 61.42 | 61.52 | 61.78 | 62.22 | 62.54 | 63.02 | 63.41 | 63.85 | 64.24 | 64.68 | 65.06 | 65.31 |

^a Three minutes late.

^b Four minutes late.

^c Five minutes late.

VERTICAL FORCE.

One Scale Division = '000094 parts of the V. F.

Change in the magnetic moment of the Bar for 1° Fah°. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 60·7 | Sc. Div. 60·4 | Sc. Div. 60·3 | Sc. Div. 60·3 | Sc. Div. 60·5 | Sc. Div. 60·7 | Sc. Div. 61·4 | Sc. Div. 62·4 | Sc. Div. 63·3 | Sc. Div. 63·2 | Sc. Div. 62·3 | Sc. Div. 61·1 | Sc. Div. 61·17 |
| 62·2 | 62·6 | 63·0 | 63·9 | 63·9 | 63·8 | 64·2 | 63·5 | 61·7 | 53·3 | 53·9 | 59·4 | 61·12 |
| 62·2 | 60·9 | 60·4 | 60·6 ^a | 53·3 | 54·3 | — | 60·8 | 56·7 | 56·6 | 59·2 | 59·6 | 58·77 |
| — | — | — | — | — | — | 60·8 | 56·7 | 56·6 | 59·2 | 59·6 | 59·6 | 58·72 |
| 58·1 | 57·8 | 57·8 | 58·8 | 58·6 | 56·6 | 59·6 | 59·6 | 59·6 | 59·2 | 59·2 | 60·1 | 58·72 |
| 55·0 | 54·9 | 55·9 | 54·8 | 56·5 | 57·0 | 57·0 | 56·7 | 56·9 | 56·9 | 57·7 | 58·9 | 56·66 |
| 57·5 | 55·9 | 55·9 | 52·9 | 52·1 | 51·9 | 48·1 | 46·5 | 48·5 | 48·4 | 53·1 | 56·4 | 53·27 |
| 54·8 | 54·0 | 53·9 | 53·8 | 51·4 | 51·5 | 50·5 | 49·6 | 49·7 | 53·6 | 53·7 | 53·7 | 53·64 |
| 41·1 | 41·9 | 41·5 | 41·8 | 41·8 | 43·7 | 44·2 | 44·4 | 44·7 | 46·3 | 45·5 | 42·9 | 44·65 |
| 53·6 | 53·4 | 52·5 | 45·0 | 47·1 | 47·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50·5 | 47·6 | 48·9 | 46·1 | 48·7 | 45·3 | 48·38 |
| 46·6 | 48·1 | 43·7 | 45·0 | 44·0 ^b | 42·0 | 39·5 | 45·6 | 46·4 | 46·7 | 47·7 | 47·7 | 47·20 |
| 46·9 | 46·7 | 45·4 | 44·5 | 44·5 | 44·8 | 44·3 | 43·9 | 45·5 | 45·6 | 46·5 | 48·2 | 46·11 |
| 43·5 | 43·6 | 43·4 | 43·9 | 44·2 | 44·7 | 41·5 | 42·0 | 46·1 | 47·1 | 48·7 | 48·8 | 45·52 |
| 47·0 | 47·9 | 47·8 | 47·4 | 47·5 | 47·5 | 47·5 | 48·9 | 49·7 | 49·9 | 49·3 | 50·7 | 47·44 |
| 47·1 | 47·3 | 46·6 | 46·4 | 46·7 | 47·2 | 47·5 | 48·5 | 48·5 | 50·7 | 50·7 | 50·9 | 48·28 |
| 44·3 | 44·0 | 44·0 | 44·5 | 45·1 | 45·7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45·3 | 46·3 | 46·8 | 46·8 | 47·4 | 48·6 | 46·58 |
| 42·6 | 42·6 | 42·3 | 42·4 | 43·3 | 43·9 | 43·5 | 44·6 | 44·8 | 45·1 | 46·3 | 46·3 | 43·79 |
| 36·5 | 36·8 | 36·8 | 36·7 | 33·2 | 34·9 | 38·4 | 38·8 | 38·8 | 38·8 | 39·6 | 40·5 | 38·65 |
| 30·8 | 30·5 | 30·6 | 29·2 | 29·7 | 30·7 | 29·4 | 28·9 | 29·9 | 29·2 | 32·1 | 35·3 | 33·10 |
| 28·1 | 28·7 | 28·4 | 28·9 | 28·1 | 28·5 | 28·7 | 30·9 | 31·9 | 32·1 | 32·1 | 33·8 | 30·08 |
| 30·0 | 30·8 | 30·9 | 31·0 | 31·5 | 32·3 | 32·2 | 32·2 | 32·9 | 33·5 | 34·2 | 35·5 | 32·26 |
| 32·0 | 31·2 | 31·2 | 31·3 | 31·8 | 32·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 29·1 | 35·3 | 35·4 | 35·7 | 38·6 | 39·4 | 34·28 |
| 31·5 | 30·8 | 30·8 | 31·0 | 31·4 | 31·4 | 31·5 | 31·5 | 31·3 | 33·6 | 34·6 | 35·4 | 33·58 |
| 26·4 | 26·9 | 26·9 | 27·2 | 27·4 | 27·5 | 27·5 | 28·2 | 28·8 | 29·5 | 30·3 | 31·2 | 28·35 |
| 28·8 | 29·0 | 29·0 | 29·0 | 28·7 | 29·1 | 29·5 | 31·1 | 28·1 | 28·8 | 30·4 | 32·2 | 29·82 |
| 29·4 | 27·4 | 28·4 | 29·9 | 31·0 | 30·8 | 30·6 | 30·6 | 30·9 | 31·9 | 33·1 | 34·3 | 30·99 |
| 31·3 | 29·4 | 29·4 | 30·0 | 29·0 | 29·0 | 24·2 | 25·7 | 28·1 | 28·9 | 30·0 | 29·9 | 29·48 |
| 43·38 | 43·20 | 42·92 | 42·70 | 42·40 | 42·66 | 42·56 | 43·08 | 43·61 | 43·85 | 44·82 | 45·62 | 43·91 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 53·1 | 53·2 | 53·1 | 52·8 | 52·6 | 52·2 | 52·0 | 51·8 | 51·0 | 50·6 | 50·4 | 49·7 | 51·51 |
| 52·5 | 52·2 | 52·2 | 52·0 | 51·6 | 51·8 | 52·0 | 51·9 | 52·2 | 52·1 | 52·2 | 52·0 | 51·50 |
| 56·0 | 56·0 | 56·2 | 56·2 ^a | 56·2 | 56·2 | — | — | — | — | — | — | 54·61 |
| — | — | — | — | — | — | 53·8 | 53·9 | 54·0 | 54·2 | 54·2 | 54·0 | 54·75 |
| 55·6 | 55·6 | 55·5 | 55·4 | 55·2 | 54·8 | 55·0 | 54·9 | 54·8 | 54·8 | 54·8 | 54·2 | 54·75 |
| 57·7 | 57·4 | 57·4 | 57·2 | 56·9 | 56·7 | 56·2 | 56·2 | 55·8 | 55·3 | 55·1 | 54·6 | 56·21 |
| 59·7 | 59·3 | 59·2 | 59·2 | 59·2 | 59·0 | 58·8 | 58·9 | 58·6 | 58·2 | 58·0 | 57·4 | 58·27 |
| 58·4 | 58·4 | 58·5 | 58·7 | 58·7 | 58·6 | 59·1 | 58·7 | 58·7 | 58·7 | 58·7 | 58·7 | 58·22 |
| 66·7 | 66·8 | 66·6 | 66·3 | 66·1 | 65·7 | 64·4 | 64·0 | 63·5 | 62·7 | 62·3 | 61·4 | 63·68 |
| 60·4 | 60·2 | 60·1 | 60·0 | 60·0 | 59·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59·1 | 59·0 | 58·8 | 58·3 | 58·1 | 57·8 | 59·90 |
| 64·5 | 64·3 | 63·9 | 63·6 | 63·2 ^b | 62·6 | 62·3 | 61·7 | 61·0 | 60·6 | 60·9 | 61·0 | 61·79 |
| 63·5 | 63·5 | 63·5 | 63·5 | 63·3 | 63·0 | 62·7 | 62·3 | 61·9 | 61·7 | 61·5 | 61·0 | 62·43 |
| 65·0 | 65·0 | 64·8 | 64·4 | 63·9 | 63·6 | 62·8 | 62·7 | 62·0 | 61·0 | 60·3 | 59·5 | 62·95 |
| 62·1 | 62·1 | 62·1 | 61·5 | 61·5 | 61·3 | 60·9 | 60·3 | 59·9 | 59·7 | 59·7 | 59·2 | 61·06 |
| 62·4 | 62·5 | 62·5 | 62·3 | 62·1 | 61·5 | 60·8 | 60·3 | 60·2 | 59·8 | 58·9 | 59·0 | 60·58 |
| 63·5 | 63·5 | 63·5 | 63·5 | 63·0 | 62·7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 62·5 | 62·0 | 61·4 | 60·8 | 60·3 | 60·2 | 61·87 |
| 65·5 | 65·5 | 65·4 | 65·1 | 65·0 | 64·6 | 64·0 | 63·6 | 63·2 | 63·0 | 62·3 | 62·0 | 63·75 |
| 69·5 | 69·3 | 69·0 | 68·7 | 68·4 | 68·2 | 67·7 | 67·2 | 66·7 | 66·5 | 66·0 | 66·0 | 66·79 |
| 73·2 | 73·2 | 73·3 | 73·5 | 73·0 | 72·7 | 73·2 | 73·2 | 72·5 | 72·9 | 72·7 | 70·0 | 71·00 |
| 75·1 | 74·6 | 74·5 | 74·4 | 73·8 | 73·4 | 73·0 | 72·7 | 72·1 | 71·5 | 71·3 | 70·5 | 72·90 |
| 72·7 | 72·5 | 72·5 | 72·4 | 72·2 | 71·8 | 71·5 | 71·0 | 70·5 | 70·2 | 69·8 | 69·5 | 71·20 |
| 72·0 | 72·3 | 72·1 | 71·6 | 71·5 | 71·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68·9 | 68·4 | 67·6 | 67·4 | 66·5 | 65·8 | 69·72 |
| 72·3 | 72·5 | 72·3 | 72·7 | 72·1 | 71·9 | 71·4 | 70·5 | 70·3 | 69·7 | 69·3 | 69·0 | 69·90 |
| 75·3 | 75·0 | 74·7 | 74·5 | 74·0 | 74·0 | 73·7 | 73·5 | 73·5 | 72·8 | 72·5 | 71·5 | 73·29 |
| 73·5 | 73·2 | 73·2 | 73·0 | 73·0 | 72·5 | 72·0 | 71·7 | 71·5 | 71·2 | 70·8 | 70·5 | 72·13 |
| 73·7 | 73·7 | 73·5 | 73·5 | 73·3 | 72·9 | 72·5 | 72·2 | 71·8 | 71·0 | 70·5 | 70·5 | 72·04 |
| 75·5 | 75·5 | 74·7 | 75·2 | 74·8 | 74·4 | 74·0 | 74·3 | 74·2 | 74·0 | 73·5 | 73·3 | 73·58 |
| 65·36 | 65·28 | 65·17 | 65·05 | 64·79 | 64·48 | 64·01 | 63·73 | 63·37 | 63·03 | 62·72 | 62·24 | 63·68 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| JULY. | 1 | 30·3 | 29·6 | 29·0 | 27·9 | 25·5 | 25·1 | 24·4 | 23·4 | 23·8 | 23·9 | 22·9 | 22·3 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 35·5 | 35·7 | 34·0 | 32·6 | 34·1 | 37·1 | 39·5 | 39·5 | 38·6 | 40·7 | 41·1 | 43·4 |
| | 4 | 41·3 | 42·0 | 42·0 | 41·1 | 39·2 | 39·0 | 39·4 | 39·2 | 40·6 | 41·6 | 40·8 | 39·9 |
| | 5 | 40·5 | 39·8 | 39·8 | 39·4 | 38·5 | 37·6 | 38·3 | 38·4 | 38·1 | 37·6 | 37·4 | 37·4 |
| | 6 | 40·5 | 40·8 | 40·3 | 39·2 | 38·3 | 37·4 | 38·0 | 38·6 | 39·0 | 38·6 | 37·7 | 36·7 |
| | 7 | 40·9 | 40·9 | 40·9 | 39·9 | 38·1 | 36·5 | 36·0 | 35·2 | 35·6 | 37·2 | 38·6 | 37·7 |
| | 8 | 37·3 | 36·5 | 33·5 | 32·3 | 32·2 | 33·9 | 33·7 | 34·2 | 34·2 | 32·6 | 33·2 | 32·3 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 33·1 | 33·2 | 32·2 | 33·6 | 33·8 | 33·6 | 33·1 | 33·8 | 34·6 | 36·0 | 35·9 | 35·6 |
| | 11 | 38·4 | 38·4 | 38·3 | 38·5 | 36·7 | 37·5 | 37·5 | 37·3 | 37·7 | 37·7 | 39·2 | 41·6 |
| | 12 | 44·5 | 43·4 | 42·7 | 42·7 | 41·1 | 38·4 | 38·4 | 37·7 | 38·5 | 38·0 | 37·5 | 36·8 |
| | 13 | 41·2 | 39·8 | 39·8 | 39·6 | 38·1 | 36·9 | 36·2 | 35·1 | 35·8 | 36·5 | 36·4 | 36·2 |
| | 14 | 35·6 | 35·6 | 37·8 | 36·6 | 35·2 | 32·6 | 32·3 | 32·8 | 33·7 | 33·3 | 33·0 | 32·8 |
| | 15 | 33·9 | 34·3 | 34·3 | 34·3 | 33·9 | 33·1 | 33·1 | 33·5 | 33·4 | 33·4 | 33·3 | 35·5 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 33·1 | 33·4 | 33·3 | 33·2 | 33·3 | 32·4 | 32·0 | 32·0 | 31·9 | 30·4 | 30·6 | 31·0 |
| | 18 | 30·4 | 30·2 | 29·2 | 28·2 | 27·7 | 27·5 | 26·6 | 24·7 | 23·4 | 24·0 | 24·4 | 23·5 |
| | 19 | 30·1 | 30·7 | 30·8 | 30·0 | 30·1 | 30·8 | 30·7 | 30·3 | 29·9 | 29·7 | 30·3 | 30·4 |
| | 20 | 34·1 | 33·5 | 33·2 | 32·7 | 31·7 | 31·5 | 32·0 | 32·5 | 33·2 | 33·6 | 33·1 | 32·5 |
| | 21 | 35·5 | 34·8 | 34·6 | 34·4 | 33·6 | 33·6 | 33·4 | 33·9 | 33·2 | 33·1 | 33·6 | 33·3 |
| | 22 | 35·0 | 34·5 | 33·4 | 33·2 | 31·9 | 31·6 | 31·1 | 31·1 | 30·6 | 30·2 | 30·4 | 30·4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 30·5 | 31·5 | 30·9 | 29·9 | 27·9 | 27·9 | 26·4 | 27·7 | 28·0 | 31·5 | 34·8 | 36·2 |
| | 25 | 1·5 | -1·3 | 9·2 | 12·9 | 23·7 | 27·1 | 35·6 | 38·1 | 49·0 | 53·9 | 48·1 | 49·5 |
| | 26 | 31·5 | 30·5 | 29·5 | 29·6 | 28·6 | 27·1 | 25·9 | 26·1 | 25·1 | 24·0 | 24·8 | 26·0 |
| | 27 | 30·6 | 29·7 | 28·3 | 27·6 | 26·3 | 26·5 | 27·1 | 27·8 | 28·2 | 29·2 | 29·4 | 29·7 |
| | 28 | 31·4 | 31·4 | 30·5 | 29·2 | 28·7 | 27·1 | 26·2 | 24·9 | 24·7 | 24·7 | 26·9 | 28·7 |
| | 29 | 27·8 | 27·8 | 28·7 | 28·7 | 29·4 | 29·0 | 29·2 | 30·0 | 31·8 | 32·0 | 30·7 | 32·0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 33·4 | 35·8 | 34·5 | 33·5 | 32·2 | 31·8 | 32·0 | 31·6 | 31·6 | 31·7 | 33·1 | 33·8 |
| Hourly Means | 33·77 | 33·56 | 33·49 | 33·11 | 32·68 | 32·41 | 32·62 | 32·67 | 33·24 | 33·72 | 33·77 | 34·05 | |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| JULY. | 1 | 73·4 | 73·5 | 74·0 | 74·8 | 75·5 | 76·1 | 76·6 | 77·5 | 78·3 | 78·8 | 79·3 | 79·5 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 68·3 | 68·5 | 69·0 | 69·3 | 67·3 | 67·8 | 68·3 | 68·3 | 68·5 | 68·5 | 68·5 | 69·0 |
| | 4 | 65·7 | 65·5 | 65·5 | 66·2 | 67·0 | 67·3 | 67·5 | 67·7 | 68·3 | 68·5 | 68·6 | 68·5 |
| | 5 | 66·5 | 66·6 | 67·0 | 67·6 | 68·0 | 68·5 | 68·5 | 68·5 | 68·5 | 68·6 | 69·2 | 69·5 |
| | 6 | 65·5 | 65·8 | 66·5 | 67·0 | 67·5 | 68·0 | 68·4 | 68·7 | 69·0 | 69·3 | 69·8 | 70·3 |
| | 7 | 66·0 | 66·0 | 65·7 | 66·2 | 66·3 | 67·0 | 67·5 | 67·8 | 68·3 | 69·0 | 69·7 | 70·3 |
| | 8 | 67·8 | 67·7 | 68·5 | 68·9 | 69·7 | 70·3 | 70·7 | 71·2 | 71·5 | 73·8 | 73·3 | 74·5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 69·5 | 69·7 | 69·7 | 69·7 | 69·8 | 70·2 | 70·9 | 71·4 | 71·9 | 72·0 | 72·3 | 72·3 |
| | 11 | 66·0 | 66·2 | 66·3 | 66·6 | 67·0 | 67·0 | 66·5 | 67·0 | 67·3 | 67·0 | 67·3 | 67·8 |
| | 12 | 63·5 | 63·5 | 64·5 | 65·3 | 65·6 | 66·5 | 66·9 | 67·5 | 67·8 | 68·2 | 68·7 | 69·3 |
| | 13 | 63·5 | 64·5 | 65·0 | 65·7 | 66·5 | 67·3 | 68·0 | 68·1 | 68·5 | 69·1 | 69·5 | 69·7 |
| | 14 | 66·3 | 66·5 | 67·0 | 67·8 | 68·5 | 69·3 | 70·2 | 71·0 | 71·5 | 72·2 | 72·8 | 73·2 |
| | 15 | 69·5 | 69·3 | 69·0 | 69·0 | 68·8 | 69·1 | 69·5 | 70·0 | 70·5 | 70·7 | 70·9 | 71·2 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 69·8 | 69·5 | 69·3 | 69·2 | 69·0 | 69·3 | 69·6 | 70·4 | 71·1 | 72·0 | 72·5 | 72·5 |
| | 18 | 71·0 | 71·7 | 72·4 | 72·8 | 73·0 | 73·5 | 74·0 | 74·5 | 75·3 | 75·8 | 76·2 | 76·5 |
| | 19 | 71·3 | 70·8 | 70·5 | 70·8 | 70·7 | 71·0 | 70·7 | 70·7 | 71·1 | 71·2 | 71·2 | 71·4 |
| | 20 | 66·9 | 66·8 | 67·2 | 67·4 | 67·6 | 68·0 | 68·2 | 68·3 | 68·3 | 68·5 | 68·8 | 69·0 |
| | 21 | 65·0 | 65·5 | 66·0 | 66·5 | 66·6 | 66·8 | 67·3 | 67·7 | 68·3 | 68·5 | 69·0 | 69·4 |
| | 22 | 66·5 | 66·8 | 67·4 | 68·0 | 68·5 | 69·0 | 69·6 | 70·5 | 71·4 | 72·2 | 72·5 | 72·7 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 71·2 | 71·0 | 71·0 | 71·0 | 71·5 | 72·0 | 72·3 | 72·5 | 73·0 | 73·5 | 74·3 | 74·7 |
| | 25 | 68·7 | 69·2 | 69·7 | 70·8 | 71·9 | 71·9 | 71·7 | 71·7 | 72·1 | 72·5 | 72·9 | 73·2 |
| | 26 | 69·5 | 69·7 | 70·3 | 71·0 | 71·5 | 72·0 | 73·0 | 73·5 | 74·1 | 75·0 | 75·0 | 75·0 |
| | 27 | 71·0 | 71·5 | 72·0 | 73·0 | 73·0 | 73·4 | 73·5 | 73·5 | 73·5 | 73·5 | 73·5 | 73·6 |
| | 28 | 69·6 | 69·6 | 70·3 | 71·0 | 71·6 | 72·3 | 73·3 | 74·5 | 75·0 | 75·3 | 75·0 | 74·8 |
| | 29 | 72·4 | 72·4 | 72·0 | 71·7 | 71·5 | 71·5 | 71·5 | 71·5 | 71·5 | 71·5 | 71·7 | 71·8 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 66·5 | 66·5 | 66·7 | 67·5 | 67·7 | 68·2 | 68·4 | 68·6 | 68·7 | 68·7 | 68·8 | 69·0 |
| Hourly Means | 68·11 | 68·24 | 68·56 | 69·03 | 69·29 | 69·74 | 70·10 | 70·48 | 70·90 | 71·30 | 71·59 | 71·88 | |

VERTICAL FORCE.

One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah^t. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 23·2 | Sc. Div. 25·1 | Sc. Div. 24·7 | Sc. Div. 21·6 | Sc. Div. 20·0 | Sc. Div. 23·4 | — | — | — | — | — | — | Sc. Div. 26·79 |
| — | — | — | — | — | — | 29·1 | 31·9 | 32·9 | 32·8 | 35·1 | 35·1 | — |
| 42·0 | 40·3 | 39·1 | 34·9 | 35·1 | 34·0 | 33·7 | 36·4 | 34·0 | 35·9 | 37·5 | 40·4 | 37·30 |
| 40·2 | 40·0 | 39·1 | 37·9 | 37·2 | 33·4 | 33·9 | 35·5 | 36·4 | 37·1 | 38·0 | 39·4 | 38·93 |
| 36·7 | 37·0 | 36·1 | 36·5 | 36·9 | 37·9 | 38·1 | 38·2 | 38·1 | 38·5 | 38·5 | 41·1 | 38·18 |
| 36·4 | 35·9 | 35·0 | 34·4 | 34·6 | 35·5 | 35·9 | 36·0 | 35·8 | 36·4 | 37·3 | 39·5 | 37·41 |
| 36·9 | 39·3 | 43·6 | 38·8 | 37·4 | 35·6 | 27·2 | 24·8 | 29·6 | 33·5 | 32·9 | 36·3 | 36·39 |
| 31·2 | 31·5 | 31·1 | 30·7 | 30·9 | 29·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 31·7 | 25·0 | 23·2 | 25·7 | 22·9 | 27·8 | 31·13 |
| 35·0 | 36·6 | 37·1 | 36·0 | 35·6 | 35·3 | 33·7 | 34·9 | 35·7 | 35·9 | 38·5 | 38·5 | 35·05 |
| 41·2 | 40·2 | 39·0 | 38·7 | 38·8 | 39·6 | 40·4 | 40·8 | 41·6 | 42·7 | 43·3 | 44·6 | 39·67 |
| 36·8 | 35·9 | 35·9 | 36·3 | 36·3 | 37·5 | 38·1 | 38·5 | 39·4 | 40·4 | 41·3 | 41·3 | 39·06 |
| 36·1 | 35·8 | 35·0 | 35·0 | 34·6 | 36·3 | 36·7 | 36·9 | 37·2 | 37·9 | 36·9 | 36·9 | 36·95 |
| 32·5 | 31·2 | 30·9 | 31·7 | 30·4 | 30·4 | 31·2 | 31·2 | 30·7 | 31·8 | 31·9 | 33·9 | 32·88 |
| 35·7 | 33·3 | 31·3 | 32·7 | 32·7 | 32·7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 32·0 | 31·3 | 32·4 | 31·5 | 30·5 | 31·9 | 33·08 |
| 31·3 | 31·3 | 31·0 | 30·1 | 31·1 | 30·7 | 31·6 | 31·6 | 31·6 | 31·6 | 32·1 | 32·1 | 31·78 |
| 23·7 | 23·8 | 23·7 | 24·6 | 24·6 | 23·9 | 23·8 | 25·8 | 26·2 | 27·0 | 27·6 | 29·5 | 26·00 |
| 30·4 | 30·6 | 29·5 | 28·7 | 28·9 | 28·8 | 30·0 | 30·5 | 31·3 | 31·7 | 31·9 | 33·8 | 30·41 |
| 32·4 | 32·4 | 32·3 | 32·8 | 33·2 | 32·6 | 33·0 | 33·3 | 33·3 | 35·1 | 35·6 | 36·7 | 33·18 |
| 32·9 | 32·9 | 32·8 | 32·8 | 32·5 | 32·6 | 33·1 | 33·8 | 33·5 | 32·3 | 34·0 | 35·0 | 33·55 |
| 29·9 | 29·5 | 29·4 | 29·5 | 29·6 | 29·8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 28·1 | 28·1 | 27·7 | 28·8 | 28·9 | 28·9 | 30·48 |
| 32·3 | 26·1 | 26·1 | 26·0 | 27·6 | 28·6 | 29·2 | 30·1 | 27·4 | 17·9 | 17·5 | 6·1 | 27·42 |
| 35·4 | 42·6 | 42·6 | 27·9 | 14·7 | 27·9 | 29·1 | 26·7 | 25·0 | 27·9 | 29·1 | 31·5 | 29·49 |
| 27·1 | 27·5 | 28·8 | 28·8 | 27·9 | 23·9 | 26·8 | 22·0 | 22·7 | 22·7 | 30·1 | 30·6 | 26·98 |
| 30·6 | 29·8 | 30·8 | 25·4 | 27·7 | 30·6 | 29·6 | 29·3 | 29·9 | 30·7 | 31·3 | 31·4 | 29·06 |
| 28·3 | 26·6 | 25·7 | 17·8 | 22·3 | 24·2 | 24·8 | 25·4 | 26·0 | 26·2 | 26·9 | 27·4 | 26·50 |
| 31·8 | 31·0 | 31·1 | 32·1 | 32·1 | 30·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 27·0 | 28·5 | 31·0 | 33·0 | 33·8 | 33·9 | 30·52 |
| 33·1 | 33·1 | 32·1 | 34·9 | 36·4 | 35·3 | 36·0 | 35·7 | 35·5 | 33·6 | 36·3 | 38·5 | 33·98 |
| 33·20 | 33·05 | 32·84 | 31·41 | 31·12 | 31·55 | 31·68 | 31·62 | 31·85 | 32·25 | 33·07 | 33·93 | 32·78 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 79·3 | 79·0 | 78·5 | 78·7 | 78·8 | 78·9 | — | — | — | — | — | — | — | 75·29 |
| — | — | — | — | — | — | 70·1 | 70·1 | 69·5 | 69·3 | 69·0 | 68·5 | — | — |
| 69·5 | 69·7 | 69·5 | 68·5 | 69·1 | 68·9 | 69·1 | 68·5 | 68·3 | 68·2 | 68·2 | 68·2 | 66·0 | 68·53 |
| 68·4 | 68·1 | 68·7 | 68·9 | 68·9 | 69·1 | 69·0 | 68·7 | 68·7 | 68·5 | 68·3 | 68·3 | 67·5 | 67·88 |
| 69·7 | 69·8 | 69·7 | 69·3 | 68·7 | 68·7 | 68·3 | 68·0 | 67·3 | 67·0 | 65·5 | 65·6 | 65·6 | 68·11 |
| 70·3 | 70·3 | 70·3 | 69·9 | 69·7 | 69·5 | 69·6 | 69·5 | 69·0 | 68·8 | 68·5 | 67·4 | 68·69 | — |
| 70·5 | 70·5 | 70·5 | 70·5 | 70·5 | 70·3 | 70·0 | 69·7 | 68·8 | 68·5 | 67·9 | 67·0 | 68·52 | — |
| 74·5 | 73·5 | 73·5 | 73·5 | 72·5 | 72·1 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71·3 | 72·0 | 72·3 | 72·2 | 71·7 | 70·5 | 71·56 | — |
| 72·2 | 71·5 | 71·3 | 70·9 | 70·3 | 69·5 | 69·3 | 68·1 | 67·2 | 66·6 | 66·4 | 66·4 | 69·96 | — |
| 68·0 | 67·8 | 68·0 | 67·7 | 67·3 | 66·7 | 66·1 | 65·6 | 64·8 | 64·1 | 63·5 | 63·0 | 66·44 | — |
| 69·3 | 69·3 | 69·1 | 68·5 | 68·2 | 67·6 | 67·0 | 66·3 | 65·5 | 65·0 | 64·5 | 64·0 | 66·73 | — |
| 70·0 | 69·7 | 69·5 | 69·3 | 68·8 | 68·5 | 68·3 | 68·2 | 67·7 | 67·3 | 66·8 | 66·0 | 67·73 | — |
| 73·2 | 73·0 | 73·0 | 72·7 | 72·5 | 72·0 | 71·7 | 71·3 | 71·2 | 70·6 | 70·1 | 70·0 | 70·73 | — |
| 71·5 | 71·7 | 71·5 | 71·5 | 71·2 | 71·0 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71·3 | 71·3 | 71·0 | 70·7 | 70·5 | 70·1 | 70·45 | — |
| 72·2 | 72·0 | 72·0 | 71·7 | 71·5 | 71·5 | 71·3 | 71·0 | 70·7 | 70·5 | 70·5 | 70·7 | 70·82 | — |
| 76·6 | 76·5 | 76·3 | 76·0 | 75·7 | 75·0 | 74·8 | 74·3 | 73·8 | 73·0 | 72·5 | 72·0 | 74·30 | — |
| 71·3 | 71·0 | 71·0 | 71·5 | 70·9 | 70·7 | 70·1 | 69·3 | 68·7 | 68·2 | 67·9 | 66·5 | 70·35 | — |
| 69·3 | 69·3 | 69·5 | 69·1 | 68·7 | 68·5 | 67·5 | 67·0 | 66·3 | 65·6 | 65·0 | 64·5 | 67·72 | — |
| 69·7 | 69·6 | 69·4 | 69·2 | 68·8 | 68·5 | 68·0 | 67·5 | 67·0 | 66·7 | 66·5 | 66·0 | 67·65 | — |
| 72·6 | 72·5 | 72·2 | 72·0 | 71·7 | 71·5 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72·8 | 72·7 | 72·5 | 71·9 | 71·6 | 71·7 | 70·87 | — |
| 74·7 | 74·7 | 74·4 | 73·5 | 73·0 | 72·4 | 71·7 | 71·2 | 70·8 | 70·0 | 69·5 | 68·7 | 72·19 | — |
| 73·2 | 73·2 | 73·2 | 74·8 | 73·3 | 73·0 | 73·0 | 72·5 | 71·3 | 70·6 | 70·3 | 69·5 | 71·76 | — |
| 75·0 | 74·8 | 74·3 | 73·8 | 74·0 | 73·8 | 73·5 | 73·0 | 72·6 | 72·3 | 71·7 | 71·0 | 72·89 | — |
| 73·6 | 73·5 | 73·1 | 72·5 | 72·5 | 71·7 | 71·5 | 71·0 | 70·8 | 70·4 | 70·0 | 69·6 | 72·30 | — |
| 74·9 | 75·0 | 75·2 | 75·0 | 5·0 | 74·5 | 74·3 | 74·0 | 74·0 | 73·7 | 73·2 | 72·5 | 73·48 | — |
| 72·0 | 72·0 | 71·7 | 71·4 | 70·5 | 69·8 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68·0 | 67·5 | 67·0 | 66·5 | 66·0 | 66·5 | 70·41 | — |
| 69·5 | 69·5 | 69·2 | 68·0 | 67·5 | 67·0 | 66·0 | 66·3 | 66·2 | 66·4 | 65·8 | 65·0 | 67·57 | — |
| 71·96 | 71·83 | 71·72 | 71·40 | 71·14 | 70·80 | 70·14 | 69·79 | 69·35 | 68·94 | 68·52 | 67·93 | 70·11 | — |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = $\cdot 000094$ parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah $^{\circ}$. = $\cdot 00007$. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| AUGUST. | 1 | 38·5 | 37·0 | 36·4 | 35·3 | 34·7 | 34·7 | 34·9 | 34·6 | 34·4 | 34·4 | 33·3 | |
| | 2 | 38·0 | 37·3 | 35·7 | 34·4 | 34·2 | 34·2 | 34·2 | 34·3 | 33·8 | 33·8 | 32·0 | |
| | 3 | 36·9 | 35·9 | 34·5 | 32·7 | 31·3 | 30·2 | 31·8 | 29·7 | 30·1 | 29·3 | 31·6 | |
| | 4 | 25·3 | 23·2 | 28·5 | 28·9 | 28·9 | 28·7 | 29·3 | 29·3 | 29·6 | 29·6 ^a | 31·7 | 32·0 |
| | 5 | 31·9 | 32·3 | 32·2 | 31·9 | 31·0 | 29·6 | 30·3 | 29·8 | 29·6 | 30·0 | 29·2 | 29·2 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 29·4 | 28·5 | 28·1 | 26·3 | 24·1 | 23·1 | 23·1 | 23·1 | 23·7 | 23·7 | 23·9 | 23·8 |
| | 8 | 24·1 | 23·2 | 25·5 | 24·9 | 26·1 | 27·5 | 27·5 | 27·8 | 29·0 | 29·1 | 28·4 | 27·2 |
| | 9 | 30·9 | 30·9 | 28·9 | 30·4 | 30·4 | 30·2 | 30·2 | 29·8 | 29·1 | 29·1 | 28·9 | 29·5 |
| | 10 | 30·6 | 30·6 | 29·9 | 27·5 | 27·1 | 26·9 | 24·5 | 25·6 | 26·0 | 27·0 | 26·8 | 25·9 |
| | 11 | 29·7 | 28·7 | 28·2 | 26·4 | 28·1 | 27·3 | 27·3 | 28·2 | 28·2 | 27·3 | 28·8 | 26·7 |
| | 12 | 28·1 | 27·9 | 26·6 | 26·6 | 25·5 | 23·7 | 22·9 | 22·6 | 23·7 | 24·2 | 24·2 | 23·3 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 26·9 | 26·9 | 25·6 | 25·6 | 25·6 | 26·5 | 26·5 | 25·8 | 26·4 | 25·8 | 25·7 | 25·3 |
| | 15 | 27·8 | 27·8 | 26·5 | 24·4 | 23·9 | 23·9 | 24·4 | 24·7 | 25·3 | 26·5 | 25·8 | 26·6 |
| | 16 | 31·7 | 30·4 | 29·1 | 27·0 | 26·3 | 26·3 | 25·4 | 24·7 | 24·2 | 23·2 | 21·7 | 21·6 |
| | 17 | 26·1 | 26·2 | 26·3 | 25·3 | 23·6 | 22·9 | 23·2 | 23·7 | 24·7 | 24·1 | 24·6 | 24·0 |
| | 18 | 27·3 | 27·3 | 27·3 | 26·8 | 26·1 | 26·4 | 27·1 | 27·8 | 27·8 | 27·2 | 27·0 | 26·7 |
| | 19 | 31·4 | 31·4 | 31·2 | 31·2 | 29·4 | 28·4 | 28·4 | 28·0 | 28·6 | 29·1 | 29·4 | 29·5 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 33·3 | 32·2 | 31·4 | 30·9 | 29·6 | 30·2 | 30·9 | 30·7 | 30·5 | 30·1 | 30·1 | 30·0 |
| | 22 | 30·6 | 28·7 | 29·3 | 29·5 | 30·2 | 27·4 | 28·1 | 30·0 | 31·2 | 31·2 | 36·5 | 30·0 |
| | 23 | 32·5 | 32·5 | 30·9 | 30·5 | 29·8 | 29·8 | 29·8 | 28·7 | 28·7 | 28·9 | 29·9 | 31·4 |
| | 24 | 32·1 | 31·3 | 32·4 | 31·4 | 29·4 | 29·4 | 28·7 | 27·9 | 27·6 | 27·8 | 27·5 | 27·4 |
| | 25 | 32·9 | 32·2 | 31·3 | 30·5 | 29·4 | 27·6 | 27·2 | 26·9 | 26·9 | 26·5 | 26·1 | 26·3 |
| | 26 | 28·0 | 28·4 | 27·9 | 26·4 | 26·5 | 26·1 | 24·5 | 23·4 | 23·6 | 23·2 | 23·2 | 21·4 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 26·2 | 26·2 | 26·6 | 25·8 | 25·8 | 24·7 | 22·6 | 23·3 | 23·7 | 23·5 | 23·5 | 22·8 |
| | 29 | 27·0 | 26·2 | 25·2 | 24·2 | 22·9 | 19·1 | 18·2 | 20·9 | 21·4 | 21·5 | 21·0 | 20·3 |
| | 30 | 26·5 | 25·9 | 24·7 | 22·9 | 21·9 | 20·7 | 20·7 | 20·2 | 19·8 | 18·5 | 18·3 | 17·1 |
| | 31 | 19·6 | 20·5 | 20·5 | 19·1 | 17·4 | 17·4 | 17·4 | 17·4 | 18·0 | 18·0 | 18·0 | 14·9 |
| Hourly Means | 29·75 | 29·24 | 28·91 | 28·03 | 27·38 | 26·77 | 26·63 | 26·63 | 26·87 | 26·76 | 26·93 | 26·29 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| AUGUST. | 1 | 65·5 | 65·7 | 66·3 | 67·0 | 67·5 | 67·5 | 67·5 | 67·4 | 67·6 | 67·6 | 68·1 | 68·5 |
| | 2 | 65·0 | 65·6 | 66·0 | 66·5 | 66·8 | 67·2 | 67·1 | 67·5 | 68·0 | 68·5 | 68·9 | 69·2 |
| | 3 | 65·3 | 65·8 | 66·5 | 67·3 | 67·5 | 68·5 | 69·3 | 69·7 | 70·4 | 71·2 | 71·7 | 72·0 |
| | 4 | 67·0 | 67·5 | 68·0 | 68·7 | 69·6 | 70·5 | 71·3 | 72·0 | 72·2 | 72·7 ^a | 72·9 | 73·2 |
| | 5 | 69·0 | 69·0 | 69·0 | 69·4 | 70·0 | 70·9 | 71·7 | 72·5 | 73·2 | 73·5 | 74·0 | 74·6 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 71·0 | 71·4 | 72·0 | 72·5 | 73·0 | 73·5 | 74·5 | 74·4 | 74·5 | 74·7 | 74·9 | 75·0 |
| | 8 | 71·8 | 71·3 | 71·0 | 71·5 | 71·5 | 72·0 | 72·5 | 72·8 | 73·0 | 73·3 | 73·5 | 73·7 |
| | 9 | 69·7 | 69·5 | 69·8 | 70·0 | 70·5 | 70·6 | 71·0 | 71·3 | 71·7 | 72·1 | 72·1 | 72·1 |
| | 10 | 69·0 | 69·5 | 69·5 | 70·5 | 71·0 | 72·0 | 72·5 | 73·2 | 73·5 | 73·6 | 74·0 | 74·0 |
| | 11 | 69·5 | 69·5 | 70·0 | 70·6 | 71·0 | 71·7 | 72·3 | 72·5 | 72·8 | 73·3 | 73·6 | 74·0 |
| | 12 | 70·0 | 70·0 | 70·7 | 71·0 | 71·6 | 72·5 | 73·5 | 73·9 | 74·3 | 74·7 | 75·0 | 75·4 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 71·5 | 71·5 | 71·5 | 71·5 | 71·5 | 71·5 | 71·8 | 72·5 | 73·0 | 73·8 | 74·3 | 74·6 |
| | 15 | 70·5 | 70·8 | 71·3 | 71·5 | 72·0 | 72·4 | 72·5 | 72·7 | 72·7 | 73·1 | 73·2 | 73·2 |
| | 16 | 67·8 | 68·5 | 69·0 | 70·0 | 70·5 | 71·5 | 72·4 | 73·0 | 73·5 | 74·3 | 75·0 | 75·3 |
| | 17 | 71·6 | 71·5 | 71·5 | 72·0 | 72·2 | 72·5 | 73·0 | 73·0 | 73·5 | 73·8 | 74·3 | 74·1 |
| | 18 | 70·7 | 70·6 | 70·5 | 70·5 | 70·5 | 70·7 | 70·8 | 71·2 | 71·5 | 71·7 | 71·7 | 71·7 |
| | 19 | 67·0 | 67·0 | 67·0 | 67·4 | 67·7 | 68·5 | 68·8 | 69·3 | 69·5 | 69·5 | 69·6 | 69·6 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 65·5 | 66·0 | 66·5 | 67·0 | 67·5 | 68·0 | 68·3 | 68·5 | 68·7 | 69·0 | 69·2 | 69·5 |
| | 22 | 64·2 | 64·5 | 65·3 | 66·0 | 66·8 | 67·3 | 68·4 | 68·5 | 68·6 | 69·2 | 69·3 | 69·5 |
| | 23 | 67·0 | 66·4 | 67·4 | 68·3 | 68·7 | 69·4 | 69·5 | 70·0 | 70·3 | 70·7 | 70·9 | 71·3 |
| | 24 | 66·5 | 66·5 | 67·0 | 67·7 | 68·4 | 68·7 | 69·1 | 69·5 | 70·0 | 70·4 | 70·7 | 71·0 |
| | 25 | 66·0 | 66·0 | 66·5 | 67·0 | 67·7 | 68·5 | 69·2 | 70·0 | 70·5 | 71·1 | 71·9 | 72·3 |
| | 26 | 69·5 | 69·5 | 69·5 | 69·9 | 70·3 | 70·8 | 72·1 | 73·3 | 74·1 | 74·9 | 75·3 | 75·5 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 71·5 | 71·3 | 71·2 | 71·6 | 71·3 | 71·5 | 72·2 | 72·6 | 73·1 | 73·5 | 74·0 | 74·3 |
| | 29 | 70·5 | 70·5 | 71·0 | 71·6 | 72·5 | 73·4 | 73·7 | 74·2 | 74·5 | 75·0 | 75·0 | 75·3 |
| | 30 | 70·0 | 70·0 | 70·5 | 71·5 | 72·3 | 73·0 | 73·6 | 74·3 | 75·3 | 76·0 | 76·5 | 77·0 |
| | 31 | 73·5 | 73·5 | 73·7 | 74·6 | 75·3 | 76·2 | 76·8 | 77·0 | 77·3 | 77·6 | 78·2 | 78·5 |
| Hourly Means | 68·74 | 68·85 | 69·19 | 69·74 | 70·19 | 70·77 | 71·31 | 71·73 | 72·12 | 72·55 | 72·88 | 73·13 | |

^a Five minutes late.

VERTICAL FORCE.

One Scale Division = .000094 parts of the V. F.

Change in the magnetic moment of the Bar for 1° Fahr. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 32.2 | Sc. Div. 32.4 | Sc. Div. 31.4 | Sc. Div. 31.9 | Sc. Div. 31.7 | Sc. Div. 32.0 | Sc. Div. 31.8 | Sc. Div. 31.8 | Sc. Div. 32.0 | Sc. Div. 35.8 | Sc. Div. 35.8 | Sc. Div. 37.8 | Sc. Div. 34.12 |
| 31.4 | 31.4 | 30.6 | 31.5 | 32.0 | 32.0 | 32.0 | 32.3 | 34.1 | 35.6 | 36.2 | 37.7 | 33.83 |
| 29.7 | 29.7 | 30.3 | 29.2 | 22.3 | 24.8 | 25.6 | 25.8 | 24.3 | 27.6 | 17.7 | 17.7 | 28.68 |
| 34.4 | 31.1 | 29.4 | 29.3 | 29.0 | 29.3 | 29.3 | 29.0 | 25.7 | 24.8 | 24.9 | 30.9 | 28.84 |
| 26.0 | 26.0 | 25.9 | 26.7 | 26.7 | 23.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 26.9 | 27.1 | 25.8 | 25.8 | 25.8 | 27.9 | 28.37 |
| 24.0 | 24.4 | 25.1 | 26.4 | 25.0 | 17.0 | 21.0 | 25.1 | 25.1 | 25.4 | 23.6 | 24.5 | 24.48 |
| 27.6 | 29.1 | 26.4 | 21.6 | 23.3 | 17.1 | 16.7 | 14.7 | 18.1 | 22.6 | 28.3 | 28.9 | 24.78 |
| 28.6 | 28.6 | 28.4 | 28.0 | 28.2 | 28.3 | 29.2 | 29.4 | 28.3 | 29.0 | 29.8 | 31.8 ^b | 29.41 |
| 26.4 | 24.8 | 24.9 | 25.1 | 26.0 | 25.9 | 26.5 | 26.5 | 26.6 | 27.1 | 24.1 | 28.9 | 26.72 |
| 25.3 | 24.7 | 24.4 | 24.1 | 24.1 | 24.4 | 26.2 | 26.2 | 23.7 | 24.4 | 23.8 | 28.2 | 26.43 |
| 23.4 | 23.4 | 19.8 | 22.1 | 23.7 | 23.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 21.1 | 21.1 | 21.1 | 25.3 | 25.7 | 26.9 | 24.02 |
| 23.6 | 23.1 | 22.8 | 22.8 | 23.3 | 23.3 | 23.3 | 24.2 | 24.4 | 21.5 | 24.4 | 27.6 | 24.87 |
| 25.9 | 25.9 | 25.6 | 24.6 | 25.7 | 26.6 | 27.0 | 26.6 | 28.0 | 27.3 | 28.1 | 30.0 | 26.20 |
| 21.4 | 20.7 | 21.5 | 22.6 | 22.2 | 23.3 | 23.1 | 22.3 | 23.1 | 23.2 | 24.5 | 25.2 | 24.36 |
| 23.1 | 22.3 | 22.7 | 22.9 | 22.9 | 23.3 | 24.2 | 24.7 | 25.0 | 25.3 | 26.0 | 26.7 | 24.32 |
| 26.5 | 26.5 | 26.5 | 27.0 | 27.5 | 28.5 | 29.4 | 29.2 | 29.9 | 29.7 | 29.7 | 31.4 | 27.77 |
| 29.2 | 29.3 | 29.2 | 29.0 | 29.3 | 30.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 30.8 | 31.1 | 31.7 | 31.9 | 32.4 | 33.3 | 30.13 |
| 28.6 | 28.6 | 28.6 | 28.0 | 28.0 | 28.3 | 30.2 | 30.7 | 29.9 | 28.8 | 28.3 | 30.8 | 29.95 |
| 32.1 | 38.8 | 36.2 | 27.7 | 29.1 | 19.0 | 18.9 | 18.3 | 18.1 | 23.7 | 30.4 | 32.5 | 28.90 |
| 29.3 | 29.0 | 26.1 | 28.2 | 22.5 | 25.0 | 27.5 | 28.2 | 27.9 | 29.3 | 29.8 | 32.1 | 29.10 |
| 27.7 | 27.3 | 27.6 | 28.0 | 28.1 | 26.4 | 27.0 | 29.5 | 29.7 | 29.5 | 27.7 | 30.3 | 28.82 |
| 25.5 | 23.5 | 22.7 | 21.5 | 22.3 | 23.8 | 24.2 | 20.4 | 20.5 | 21.9 | 23.3 | 26.2 | 25.82 |
| 22.2 | 20.8 | 21.2 | 22.0 | 23.0 | 22.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 22.7 | 23.1 | 23.1 | 24.1 | 24.1 | 24.9 | 24.03 |
| 21.3 | 21.4 | 21.7 | 20.5 | 20.5 | 21.4 | 22.4 | 23.2 | 23.2 | 24.3 | 24.5 | 25.1 | 23.51 |
| 20.4 | 20.2 | 20.1 | 20.1 | 21.0 | 21.0 | 22.3 | 22.4 | 22.5 | 23.6 ^c | 23.8 | 24.2 | 22.06 |
| 17.2 | 16.2 | 16.7 | 17.3 | 18.0 | 18.3 | 17.1 | 18.8 | 18.6 | 18.6 | 19.0 | 19.4 | 19.68 |
| 14.4 | 14.8 | 14.9 | 14.6 | 14.6 | 16.0 | 17.0 | 14.7 | 14.7 | 15.1 | 17.8 | 18.2 | 16.88 |
| 25.83 | 25.70 | 25.21 | 24.91 | 24.81 | 24.25 | 24.94 | 25.05 | 25.00 | 25.97 | 26.28 | 28.12 | 26.51 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------------------|-------|
| 69.0 | 69.0 | 69.0 | 68.8 | 68.7 | 67.8 | 67.4 | 67.0 | 66.0 | 65.5 | 65.0 | 64.3 | 67.24 |
| 69.4 | 69.4 | 69.5 | 69.0 | 68.5 | 67.8 | 67.0 | 66.5 | 66.4 | 66.3 | 65.8 | 65.5 | 67.39 |
| 72.0 | 72.0 | 72.0 | 71.7 | 71.8 | 71.0 | 70.2 | 69.5 | 69.2 | 68.5 | 68.2 | 67.4 | 69.53 |
| 73.3 | 73.3 | 72.8 | 72.3 | 71.7 | 71.3 | 70.7 | 70.5 | 70.3 | 70.0 | 69.7 | 69.4 | 70.87 |
| 73.9 | 74.0 | 73.5 | 73.2 | 73.0 | 72.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72.7 | 72.3 | 71.9 | 71.6 | 71.3 | 71.0 | 71.99 |
| 74.6 | 74.4 | 74.2 | 74.2 | 74.0 | 73.9 | 73.5 | 73.1 | 72.9 | 72.2 | 72.1 | 72.0 | 73.44 |
| 73.8 | 73.9 | 73.9 | 75.0 | 74.5 | 74.1 | 73.2 | 72.8 | 72.3 | 71.5 | 70.8 | 70.3 | 72.67 |
| 72.2 | 72.2 | 72.0 | 72.0 | 71.5 | 71.2 | 70.8 | 70.5 | 70.1 | 69.9 | 69.7 | 69.2 ^b | 70.90 |
| 74.0 | 73.6 | 73.5 | 73.3 | 73.1 | 72.7 | 72.3 | 72.0 | 71.5 | 70.8 | 70.3 | 69.5 | 72.04 |
| 74.2 | 74.3 | 74.4 | 74.1 | 73.8 | 73.5 | 72.6 | 72.4 | 72.0 | 71.4 | 71.0 | 70.6 | 72.30 |
| 75.5 | 75.5 | 75.5 | 75.0 | 74.5 | 74.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 73.2 | 73.0 | 72.7 | 72.5 | 72.1 | 71.8 | 73.25 |
| 74.8 | 75.1 | 75.2 | 74.9 | 74.2 | 74.0 | 73.7 | 73.0 | 72.5 | 72.0 | 71.5 | 70.5 | 72.93 |
| 73.2 | 73.0 | 73.0 | 72.5 | 72.0 | 71.7 | 71.2 | 71.1 | 70.3 | 70.7 | 69.7 | 69.0 | 71.80 |
| 75.4 | 75.8 | 75.5 | 75.1 | 74.9 | 74.5 | 73.9 | 73.5 | 73.2 | 72.8 | 72.5 | 72.3 | 72.92 |
| 74.1 | 74.2 | 73.9 | 73.7 | 73.5 | 73.1 | 73.0 | 72.6 | 72.4 | 72.0 | 71.6 | 71.4 | 72.85 |
| 71.7 | 71.5 | 71.5 | 71.2 | 70.8 | 70.0 | 69.4 | 69.1 | 68.7 | 68.5 | 68.2 | 67.5 | 70.42 |
| 69.6 | 69.6 | 69.3 | 69.3 | 68.7 | 68.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68.0 | 67.8 | 67.3 | 66.9 | 66.5 | 65.5 | 68.24 |
| 69.6 | 69.5 | 69.3 | 69.0 | 68.8 | 68.5 | 67.7 | 67.3 | 66.7 | 66.4 | 65.8 | 64.8 | 67.80 |
| 69.6 | 71.0 | 71.0 | 71.0 | 70.3 | 70.2 | 70.3 | 70.2 | 70.0 | 69.0 | 68.0 | 67.5 | 68.57 |
| 71.4 | 71.5 | 71.4 | 71.2 | 70.7 | 70.4 | 69.7 | 68.5 | 68.1 | 67.9 | 67.5 | 66.5 | 69.36 |
| 71.0 | 71.1 | 70.6 | 70.1 | 69.7 | 69.3 | 68.8 | 68.7 | 68.1 | 67.9 | 67.7 | 66.5 | 68.96 |
| 72.3 | 73.3 | 73.7 | 73.9 | 72.7 | 72.8 | 72.5 | 72.0 | 71.3 | 71.5 | 71.5 | 70.7 | 70.62 |
| 75.5 | 75.7 | 75.5 | 75.2 | 74.2 | 74.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72.8 | 72.7 | 72.7 | 72.5 | 72.2 | 72.0 | 72.90 |
| 74.4 | 74.5 | 74.3 | 74.0 | 73.3 | 73.3 | 72.9 | 72.5 | 72.1 | 71.9 | 71.5 | 71.0 | 72.66 |
| 75.1 | 75.1 | 74.7 | 74.1 | 73.7 | 73.3 | 73.0 | 72.6 | 72.0 | 72.0 ^c | 71.5 | 71.0 | 73.14 |
| 77.0 | 77.5 | 77.0 | 76.7 | 76.4 | 76.0 | 75.7 | 75.5 | 75.3 | 74.8 | 74.6 | 74.2 | 74.61 |
| 78.5 | 78.5 | 78.4 | 77.3 | 77.2 | 77.0 | 77.0 | 77.0 | 76.5 | 76.0 | 75.5 | 75.5 | 76.52 |
| 73.15 | 73.28 | 73.13 | 72.88 | 72.45 | 72.09 | 71.60 | 71.25 | 70.83 | 70.48 | 70.07 | 69.51 | 71.33 |

^b Right minutes late.

^c Two minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = $\cdot 000094$ parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah $^{\circ}$ = $\cdot 00007$. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| SEPTEMBER. | 1 | 19.9 | 19.9 | 19.9 | 17.9 | 18.1 | 19.3 | 19.3 | 19.6 | 21.9 | 20.1 | 20.2 | |
| | 2 | 11.9 | 19.1 | 19.2 | 18.9 | 20.2 | 20.2 | 18.8 | 19.4 | 18.2 | 18.9 | 21.0 | |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | |
| | 4 | 16.9 | 17.7 | 17.1 | 15.7 | 14.1 | 15.8 | 15.6 | 14.9 | 14.9 | 15.6 | 17.1 | 17.7 |
| | 5 | 19.7 | 19.9 | 20.9 | 20.9 | 20.9 | 21.5 | 20.7 | 20.6 | 21.4 | 22.4 | 23.9 | 23.9 |
| | 6 | 24.8 | 25.1 | 26.3 | 25.1 | 25.1 | 25.1 | 24.2 | 24.1 | 24.1 | 24.1 | 24.0 | 24.1 |
| | 7 | 23.9 | 24.4 | 24.4 | 23.9 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.3 | 22.9 | 22.4 |
| | 8 | 24.5 | 24.1 | 24.4 | 24.3 | 23.4 | 24.2 | 24.7 | 24.7 | 25.0 | 25.0 | 24.3 | 24.3 |
| | 9 | 30.2 | 28.3 | 27.0 | 27.0 | 27.9 | 27.6 | 28.8 | 28.4 | 30.7 | 31.4 | 33.5 | 31.5 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 41.9 | 38.5 | 38.1 | 37.6 | 36.7 | 36.6 | 36.6 | 36.8 | 37.1 | 37.7 | 38.1 | 38.8 |
| | 12 | 41.9 | 42.1 | 40.8 | 39.8 | 39.1 | 39.1 | 39.1 | 38.5 | 38.8 | 38.4 | 40.0 | 38.6 |
| | 13 | 41.6 | 36.9 | 40.4 | 39.4 | 39.6 ^a | 39.6 | 39.5 | 39.5 | 39.3 | 40.3 | 39.7 | 40.0 |
| | 14 | 38.9 | 38.9 | 38.9 | 38.7 | 37.3 ^b | 36.7 ^b | 38.4 | 39.1 | 39.8 | 39.8 | 39.5 | 39.7 |
| | 15 | 37.1 | 37.1 | 36.7 | 35.4 | 34.8 | 33.6 | 33.6 | 33.6 | 34.0 | 34.0 | 33.5 | 32.8 |
| | 16 | 34.2 | 33.9 | 32.5 | 31.8 | 31.8 | 30.8 | 30.9 | 30.9 | 30.9 | 30.8 | 29.5 | 30.2 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 25.5 | 24.9 | 24.2 | 24.2 | 24.2 | 23.9 | 21.9 | 22.8 | 22.8 | 22.7 | 23.1 | 25.6 |
| | 19 | 23.4 | 24.9 | 28.2 | 28.2 | 26.6 | 25.2 | 25.2 | 26.7 | 28.5 | 27.4 | 33.8 | 30.6 |
| | 20 | 22.9 | 31.1 | 29.1 | 28.7 | 28.7 | 28.9 | 29.3 | 29.3 | 29.0 | 29.0 | 29.6 | 29.1 |
| | 21 | 27.0 | 27.5 | 26.3 | 25.0 | 22.6 | 21.5 | 19.8 | 19.2 | 18.5 | 18.6 | 18.4 | 17.3 |
| | 22 | 26.2 | 26.2 | 26.6 | 25.6 | 25.6 | 26.6 | 26.6 | 27.4 | 28.4 | 30.3 | 30.3 | 33.1 |
| | 23 | 31.9 | 31.9 | 32.4 | 31.1 | 31.1 | 31.1 | 31.1 | 30.0 | 29.5 | 28.7 | 27.9 | 27.0 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 26.9 | 28.0 | 28.5 | 28.1 | 29.5 | 29.5 | 31.5 | 31.9 | 32.4 | 31.8 | 31.4 | 31.1 |
| | 26 | 36.1 | 36.1 | 37.9 | 34.2 | 34.8 | 35.5 | 35.9 | 35.9 | 37.2 | 37.6 | 37.9 | 38.2 |
| | 27 | 43.2 | 44.2 | 44.1 | 41.8 | 40.6 | 40.9 | 41.2 | 42.5 | 42.2 | 42.6 | 42.9 | 42.0 |
| | 28 | 38.1 | 42.9 | 44.2 | 44.6 | 43.9 | 42.3 | 41.6 | 41.6 | 42.0 | 42.0 | 41.5 | 41.9 |
| | 29 | 43.7 | 43.7 | 43.7 | 43.8 | 42.1 | 40.7 | 40.7 | 41.5 | 41.4 | 40.4 | 40.0 | 39.5 |
| | 30 | 41.0 | 40.3 | 39.2 | 39.2 | 38.1 | 36.8 | 36.5 | 35.4 | 35.4 | 35.8 | 35.9 | 36.6 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 30.51 | 31.06 | 31.19 | 30.42 | 30.00 | 29.85 | 29.80 | 29.90 | 30.25 | 30.33 | 30.77 | 30.66 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| SEPTEMBER. | 1 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.8 | 75.4 | 76.0 | 76.2 | 76.5 | 77.0 | |
| | 2 | 74.5 | 74.5 | 74.5 | 74.4 | 74.0 | 74.5 | 75.5 | 76.3 | 77.3 | 78.0 | 78.0 | |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | |
| | 4 | 77.0 | 76.4 | 76.4 | 76.4 | 76.5 | 76.5 | 77.0 | 77.5 | 78.0 | 78.4 | 78.7 | 78.7 |
| | 5 | 73.5 | 73.0 | 71.7 | 71.7 | 72.0 | 72.4 | 72.5 | 72.8 | 73.5 | 73.3 | 73.3 | 73.3 |
| | 6 | 70.0 | 69.3 | 69.0 | 69.5 | 69.5 | 70.0 | 70.4 | 70.5 | 70.7 | 71.0 | 71.4 | 71.2 |
| | 7 | 70.5 | 70.0 | 69.5 | 70.0 | 70.0 | 70.4 | 70.7 | 71.2 | 71.5 | 71.8 | 72.0 | 71.9 |
| | 8 | 69.2 | 69.0 | 68.8 | 69.0 | 69.5 | 69.6 | 70.3 | 70.7 | 71.0 | 71.4 | 71.9 | 72.0 |
| | 9 | 65.5 | 65.5 | 65.7 | 66.3 | 66.2 | 66.1 | 65.8 | 65.8 | 65.6 | 66.0 | 66.5 | 66.5 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 58.2 | 58.2 | 59.2 | 59.4 | 60.0 | 60.2 | 60.5 | 60.8 | 61.1 | 61.3 | 61.4 | 61.5 |
| | 12 | 57.0 | 57.4 | 58.0 | 58.7 | 59.2 | 59.8 | 60.2 | 60.4 | 60.5 | 60.8 | 61.0 | 61.3 |
| | 13 | 57.7 | 58.0 | 58.1 | 58.2 | 58.7 ^a | 59.2 | 59.2 | 59.7 | 60.0 | 60.2 | 59.6 | 59.6 |
| | 14 | 59.7 | 59.5 | 59.5 | 59.5 | 59.5 ^b | 59.3 ^b | 59.5 | 59.5 | 59.5 | 59.8 | 60.0 | 60.0 |
| | 15 | 60.7 | 60.7 | 60.7 | 61.0 | 61.3 | 61.5 | 61.7 | 62.3 | 62.6 | 63.1 | 64.0 | 64.5 |
| | 16 | 62.7 | 63.0 | 63.7 | 64.0 | 64.4 | 64.7 | 65.2 | 65.7 | 65.7 | 66.3 | 66.5 | 66.8 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 68.3 | 68.0 | 68.6 | 68.8 | 69.3 | 69.8 | 70.3 | 70.5 | 71.1 | 71.3 | 71.5 | 71.5 |
| | 19 | 66.0 | 65.0 | 65.5 | 65.7 | 66.2 | 66.7 | 67.3 | 67.5 | 67.7 | 68.0 | 67.7 | 67.7 |
| | 20 | 65.0 | 65.0 | 65.5 | 66.2 | 66.3 | 66.3 | 66.3 | 66.4 | 66.7 | 67.0 | 67.3 | 67.5 |
| | 21 | 66.6 | 66.9 | 67.5 | 68.5 | 70.3 | 71.1 | 72.0 | 72.7 | 74.1 | 74.7 | 75.5 | 75.2 |
| | 22 | 66.5 | 66.5 | 67.0 | 67.0 | 67.0 | 66.7 | 66.7 | 66.8 | 66.6 | 66.5 | 66.3 | 66.0 |
| | 23 | 63.5 | 63.3 | 63.3 | 63.5 | 63.5 | 63.8 | 64.5 | 65.5 | 66.3 | 67.3 | 67.7 | 68.5 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 67.0 | 66.3 | 66.0 | 65.5 | 65.3 | 65.3 | 65.0 | 65.0 | 65.0 | 65.0 | 64.8 | 64.6 |
| | 26 | 61.0 | 60.5 | 60.3 | 60.7 | 60.5 | 60.4 | 60.3 | 60.3 | 60.2 | 60.6 | 60.6 | 59.8 |
| | 27 | 56.0 | 55.4 | 55.2 | 55.4 | 55.7 | 56.1 | 56.2 | 56.3 | 56.3 | 56.2 | 56.6 | 57.2 |
| | 28 | 53.7 | 53.2 | 53.0 | 53.0 | 53.4 | 54.2 | 55.2 | 56.2 | 56.4 | 57.0 | 58.0 | 57.9 |
| | 29 | 55.4 | 55.2 | 55.2 | 55.8 | 56.2 | 56.8 | 57.7 | 58.2 | 58.8 | 59.2 | 59.6 | 60.0 |
| | 30 | 57.7 | 57.7 | 58.0 | 58.2 | 58.7 | 59.0 | 59.8 | 60.2 | 60.6 | 60.9 | 61.1 | 61.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 64.52 | 64.31 | 64.40 | 64.65 | 64.91 | 65.20 | 65.58 | 65.95 | 66.27 | 66.60 | 66.85 | 66.90 | |

^a Three minutes late.

VERTICAL FORCE.

(One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 19.5 | Sc. Div. 21.4 | Sc. Div. 21.2 | Sc. Div. 15.3 | Sc. Div. 15.3 | Sc. Div. 15.5 | Sc. Div. 17.0 | Sc. Div. 16.3 | Sc. Div. 14.5 | Sc. Div. 14.8 | Sc. Div. 15.0 | Sc. Div. 10.4 | Sc. Div. 18.01 |
| 18.9 | 18.2 | 18.2 | 16.4 | 16.4 | 15.3 | — | — | — | — | — | — | 17.13 |
| — | — | — | — | — | — | 13.4 | 13.3 | 12.8 | 12.8 | 11.9 | 16.4 | 17.02 |
| 17.7 | 17.7 | 16.9 | 16.0 | 16.3 | 16.3 | 15.8 | 12.6 | 12.9 | 13.0 | 16.4 | 19.7 | 20.84 |
| 23.3 | 22.1 | 22.1 | 22.3 | 23.9 | 23.0 | 22.7 | 17.9 | 15.8 | 14.3 | 17.4 | 18.7 | 23.78 |
| 23.8 | 23.3 | 23.3 | 22.9 | 20.1 | 21.4 | 23.1 | 22.8 | 23.0 | 23.0 | 23.9 | 23.9 | 22.88 |
| 22.4 | 22.7 | 21.2 | 21.2 | 21.2 | 21.2 | 21.8 | 21.8 | 22.6 | 22.8 | 24.6 | 24.5 | 24.64 |
| 23.8 | 23.3 | 23.5 | 24.4 | 23.7 | 22.5 | 25.0 | 23.6 | 26.6 | 26.7 | 26.7 | 28.6 | 31.20 |
| 30.6 | 30.0 | 30.1 | 30.4 | 30.4 | 30.4 | — | — | — | — | — | — | 38.25 |
| — | — | — | — | — | — | 36.0 | 36.2 | 35.3 | 33.5 | 36.3 | 37.2 | 39.36 |
| 37.1 | 37.0 | 37.0 | 37.0 | 37.6 | 38.5 | 37.5 | 39.2 | 39.4 | 39.7 | 41.6 | 41.9 | 39.26 |
| 39.1 | 38.6 | 36.5 | 38.7 | 38.9 | 35.3 | 40.2 | 40.0 | 40.0 | 40.2 | 40.5 | 40.5 | 38.62 |
| 40.0 | 40.0 | 39.2 | 39.2 | 38.7 | 38.9 | 38.8 | 38.8 | 38.6 | 38.0 | 37.5 | 38.7 | 33.93 |
| 40.2 | 39.9 | 39.3 | 38.8 | 38.7 | 38.4 | 38.4 | 38.4 | 37.4 | 37.8 | 37.0 | 36.9 | 29.33 |
| 32.6 | 32.0 | 32.7 | 33.0 | 33.0 | 33.9 | 33.2 | 33.2 | 33.4 | 33.4 | 33.4 | 34.2 | 23.74 |
| 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.0 | — | — | — | — | — | — | 26.92 |
| — | — | — | — | — | — | 26.8 | 26.5 | 25.8 | 24.5 | 22.4 | 25.5 | 27.09 |
| 26.4 | 25.6 | 25.6 | 22.0 | 15.2 | 23.0 | 25.3 | 25.3 | 27.9 | 25.5 | 20.2 | 21.9 | 20.02 |
| 27.5 | 28.3 | 27.9 | 27.9 | 27.8 | 28.0 | 28.7 | 29.1 | 26.7 | 22.3 | 21.3 | 21.9 | 29.13 |
| 28.2 | 26.3 | 26.4 | 25.8 | 26.9 | 26.6 | 21.4 | 18.9 | 26.2 | 26.7 | 24.6 | 27.5 | 27.80 |
| 19.8 | 20.2 | 19.2 | 19.2 | 17.8 | 7.6 | 16.3 | 19.0 | 17.9 | 19.0 | 19.0 | 23.7 | 31.10 |
| 32.4 | 30.8 | 30.2 | 30.5 | 30.5 | 30.5 | 29.0 | 28.8 | 29.1 | 30.5 | 31.9 | 31.9 | 38.25 |
| 25.7 | 25.3 | 24.8 | 24.1 | 24.8 | 25.8 | — | — | — | — | — | — | 41.31 |
| — | — | — | — | — | — | 24.9 | 24.8 | 25.7 | 25.9 | 25.7 | 25.9 | 42.36 |
| 30.5 | 31.0 | 31.0 | 31.0 | 31.6 | 31.8 | 31.8 | 32.8 | 33.1 | 33.1 | 34.4 | 33.6 | 40.20 |
| 37.8 | 38.1 | 39.1 | 39.6 | 39.8 | 39.9 | 39.9 | 40.9 | 40.9 | 40.9 | 41.9 | 41.9 | 36.68 |
| 41.9 | 43.0 | 44.8 | 44.5 | 40.9 | 42.0 | 39.8 | 27.8 | 41.9 | 42.0 | 38.1 | 38.1 | — |
| 41.3 | 42.5 | 42.7 | 40.7 | 41.6 | 42.3 | 42.7 | 43.5 | 43.1 | 42.7 | 43.3 | 43.7 | — |
| 39.6 | 39.6 | 38.4 | 39.5 | 39.4 | 39.9 | 40.0 | 37.5 | 33.8 | 38.6 | 38.7 | 38.7 | — |
| 40.0 | 41.7 | 41.0 | 34.2 | 36.2 | 35.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33.4 | 33.6 | 34.7 | 33.7 | 33.0 | 33.0 | — |
| 30.35 | 30.30 | 30.05 | 29.37 | 29.07 | 28.95 | 29.34 | 28.56 | 29.20 | 29.05 | 29.10 | 29.96 | 29.92 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 77.3 | 76.9 | 77.1 | 77.2 | 76.8 | 76.4 | 76.2 | 76.0 | 76.0 | 76.0 | 75.8 | 75.2 | 75.93 |
| 78.0 | 78.0 | 78.2 | 78.0 | 77.8 | 77.6 | — | — | — | — | — | — | 76.89 |
| — | — | — | — | — | — | 78.5 | 78.5 | 78.4 | 78.3 | 77.6 | 77.0 | 76.48 |
| 78.0 | 77.5 | 77.3 | 77.0 | 76.2 | 75.7 | 75.2 | 75.0 | 74.6 | 74.0 | 74.0 | 73.5 | 72.29 |
| 73.1 | 73.0 | 73.2 | 72.8 | 72.4 | 72.2 | 72.0 | 71.3 | 71.3 | 70.7 | 70.0 | 70.0 | 70.53 |
| 71.2 | 71.0 | 71.0 | 71.0 | 71.2 | 71.3 | 70.9 | 70.9 | 70.7 | 70.4 | 70.2 | 70.5 | 70.90 |
| 71.8 | 72.0 | 72.4 | 71.8 | 71.5 | 71.3 | 71.2 | 70.8 | 70.3 | 70.0 | 69.6 | 69.5 | 69.60 |
| 71.9 | 71.5 | 71.3 | 70.5 | 70.0 | 69.2 | 68.4 | 68.0 | 67.5 | 67.0 | 66.6 | 66.0 | 64.19 |
| 66.3 | 65.7 | 65.6 | 65.5 | 65.0 | 64.7 | — | — | — | — | — | — | 59.99 |
| — | — | — | — | — | — | 60.0 | 60.0 | 59.5 | 59.0 | 59.0 | 58.8 | 59.49 |
| 61.6 | 61.5 | 61.5 | 61.5 | 61.0 | 60.4 | 60.0 | 59.1 | 58.5 | 58.2 | 57.6 | 57.0 | 59.32 |
| 61.5 | 61.2 | 60.8 | 60.6 | 59.8 | 59.5 | 59.0 | 58.6 | 58.0 | 58.2 | 58.1 | 58.1 | 59.86 |
| 59.6 | 59.5 | 59.6 | 59.5 | 59.4 | 59.5 | 59.5 | 59.8 | 59.5 | 59.8 | 60.0 | 59.8 | 62.94 |
| 60.0 | 60.0 | 60.0 | 59.8 | 59.5 | 59.5 | 59.7 | 60.2 | 60.4 | 60.5 | 60.7 | 61.0 | 66.23 |
| 64.5 | 64.2 | 64.5 | 64.3 | 64.2 | 64.0 | 63.8 | 63.5 | 63.5 | 63.5 | 63.2 | 63.2 | 69.28 |
| 67.1 | 67.1 | 66.9 | 66.5 | 66.0 | 65.8 | — | — | — | — | — | — | 66.69 |
| — | — | — | — | — | — | 68.7 | 68.7 | 68.6 | 68.5 | 68.4 | 68.5 | 67.19 |
| 71.3 | 71.0 | 70.5 | 70.2 | 68.7 | 68.9 | 68.0 | 67.5 | 67.5 | 67.2 | 66.5 | 66.3 | 71.32 |
| 67.7 | 67.8 | 67.5 | 67.2 | 67.2 | 67.0 | 66.4 | 66.0 | 66.0 | 65.8 | 65.5 | 65.5 | 65.64 |
| 67.4 | 68.0 | 68.7 | 68.5 | 68.5 | 68.5 | 68.5 | 69.0 | 68.1 | 67.5 | 67.4 | 67.0 | 66.86 |
| 75.0 | 74.5 | 73.7 | 73.0 | 72.5 | 71.9 | 71.0 | 70.5 | 69.6 | 69.0 | 68.3 | 67.5 | 64.25 |
| 65.7 | 65.5 | 65.5 | 65.5 | 65.0 | 64.7 | 64.3 | 64.0 | 64.0 | 64.0 | 64.0 | 63.5 | 59.34 |
| 69.0 | 69.2 | 69.4 | 69.0 | 69.0 | 69.0 | — | — | — | — | — | — | 56.01 |
| — | — | — | — | — | — | 69.1 | 69.2 | 68.3 | 67.7 | 67.5 | 67.5 | 55.88 |
| 64.5 | 64.3 | 64.2 | 64.1 | 63.5 | 63.3 | 63.0 | 62.6 | 62.2 | 62.0 | 62.0 | 61.6 | 58.33 |
| 59.8 | 59.5 | 59.0 | 59.2 | 59.0 | 58.2 | 58.0 | 57.8 | 57.2 | 57.2 | 57.0 | 57.0 | 60.26 |
| 57.0 | 57.2 | 57.0 | 57.0 | 56.8 | 56.3 | 56.0 | 55.3 | 55.2 | 55.0 | 54.7 | 54.2 | — |
| 58.2 | 58.0 | 57.8 | 57.7 | 57.2 | 56.7 | 56.3 | 56.0 | 55.4 | 55.5 | 55.5 | 55.7 | — |
| 60.0 | 60.0 | 60.0 | 60.0 | 59.7 | 59.5 | 59.5 | 59.0 | 58.8 | 58.8 | 58.4 | 58.2 | — |
| 61.0 | 61.0 | 61.0 | 61.0 | 60.8 | 60.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 61.8 | 61.5 | 61.5 | 61.2 | 61.0 | 61.0 | — |
| 66.87 | 66.73 | 66.68 | 66.48 | 66.10 | 65.83 | 65.58 | 65.34 | 65.02 | 64.81 | 64.56 | 64.35 | 65.60 |

^b Five minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000094 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| OCTOBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 34·2 | 35·5 | 35·2 | 34·7 | 34·4 | 34·2 | 33·9 | 33·9 | 35·1 | 35·0 | 34·7 | 34·7 |
| | 3 | 32·8 | 37·5 | 37·2 | 36·5 | 36·9 | 36·8 | 36·9 | 36·9 | 37·8 | 37·8 | 38·2 | 38·3 |
| | 4 | 43·5 | 43·1 | 41·2 | 40·7 | 40·7 | 40·1 | 38·8 | 38·8 | 39·7 | 40·0 | 40·0 | 39·5 |
| | 5 | 38·2 | 41·3 | 43·6 | 38·6 | 40·7 | 38·4 | 39·8 | 40·0 | 41·1 | 42·0 | 39·4 | 38·5 |
| | 6 | 39·9 | 41·3 | 40·7 | 39·4 | 37·9 | 37·2 | 37·2 | 37·5 | 37·1 | 36·5 | 36·2 | 37·1 |
| | 7 | 36·9 | 36·9 | 36·6 | 36·6 | 36·4 | 36·4 | 36·4 | 36·8 | 36·9 | 36·5 | 36·6 | 36·3 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 43·6 | 45·9 | 45·9 | 44·8 | 42·9 | 41·3 | 41·3 | 42·5 | 42·7 | 42·4 | 42·4 | 41·6 |
| | 10 | 43·2 | 45·4 | 43·1 | 42·1 | 41·4 | 40·7 | 40·7 | 41·2 | 41·6 | 41·6 | 41·6 | 41·9 |
| | 11 | 41·4 | 41·4 | 41·4 | 41·4 | 40·5 | 40·5 | 39·9 | 39·4 | 39·4 | 39·9 | 39·9 | 39·9 |
| | 12 | 39·3 | 40·3 | 40·8 | 37·9 | 36·6 | 35·1 | 35·6 | 36·0 | 37·0 | 37·0 | 37·4 | 38·0 |
| | 13 | 42·5 | 44·1 | 44·4 | 42·7 | 41·0 | 40·0 | 40·0 | 40·1 | 40·7 | 40·9 | 41·3 | 41·8 |
| | 14 | 44·4 | 45·5 | 44·5 | 43·4 | 43·3 | 41·9 | 41·9 | 42·8 | 43·9 | 44·3 | 46·1 | 47·0 |
| | 15 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 39·99 | 41·52 | 41·22 | 39·90 | 39·39 | 38·55 | 38·52 | 38·82 | 39·42 | 39·49 | 39·48 | 39·55 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| OCTOBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 61·0 | 61·2 | 61·4 | 61·0 | 61·0 | 61·0 | 61·0 | 61·0 | 61·2 | 61·5 | 61·7 | 61·5 |
| | 3 | 58·6 | 58·2 | 58·2 | 58·6 | 59·0 | 59·0 | 59·0 | 59·0 | 59·0 | 59·0 | 59·0 | 59·0 |
| | 4 | 55·2 | 55·2 | 55·4 | 55·7 | 56·2 | 56·6 | 56·7 | 57·2 | 57·3 | 57·5 | 57·8 | 58·0 |
| | 5 | 54·2 | 54·7 | 55·8 | 56·5 | 56·4 | 57·0 | 57·0 | 57·4 | 58·0 | 58·8 | 59·0 | 59·2 |
| | 6 | 56·7 | 56·5 | 56·7 | 57·1 | 57·7 | 58·2 | 59·0 | 59·2 | 59·7 | 60·0 | 60·3 | 60·3 |
| | 7 | 60·3 | 60·3 | 60·3 | 60·0 | 60·0 | 60·0 | 60·0 | 60·0 | 60·0 | 60·0 | 60·4 | 60·3 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 54·1 | 53·4 | 53·2 | 53·5 | 53·7 | 54·0 | 54·4 | 54·6 | 55·1 | 55·2 | 55·5 | 55·5 |
| | 10 | 54·0 | 53·2 | 54·2 | 54·7 | 55·0 | 55·4 | 55·7 | 55·8 | 56·1 | 56·2 | 56·5 | 56·3 |
| | 11 | 56·7 | 56·7 | 56·5 | 56·5 | 56·5 | 56·5 | 57·0 | 57·2 | 57·4 | 57·5 | 57·6 | 57·6 |
| | 12 | 57·7 | 57·5 | 57·5 | 58·5 | 59·0 | 59·0 | 59·0 | 59·0 | 59·2 | 59·3 | 59·3 | 59·2 |
| | 13 | 54·5 | 54·2 | 54·3 | 54·3 | 54·7 | 55·0 | 55·3 | 55·9 | 56·0 | 56·0 | 56·5 | 56·4 |
| | 14 | 52·7 | 52·7 | 53·3 | 53·7 | 53·4 | 53·8 | 54·0 | 54·4 | 54·2 | 54·2 | 54·2 | 54·2 |
| | 15 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 56·31 | 56·15 | 56·40 | 56·68 | 56·88 | 57·12 | 57·34 | 57·56 | 57·77 | 57·93 | 58·15 | 58·12 | |

^a The Vertical Force Magnet removed for temperature experiments.

| January 18th and 19th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|--|----|----|---|-------------------|-------------------|-------------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 124.2 | 125.0 | 126.0 | 127.8 | 128.6 | 129.0 | 129.0 | 128.3 | 128.0 | 128.0 | 125.7 |
| 5 | 0 | | 124.8 | 125.0 | 126.0 | 128.0 | 128.6 | 129.9 | 129.8 | 128.7 | 128.0 | 127.3 | 126.0 |
| 10 | 0 | | 124.4 | 125.0 | 126.0 | 127.9 | 128.4 | 130.0 | 129.7 | 128.7 | 128.0 | 127.0 | 126.2 |
| 15 | 0 | | 125.0 | 125.0 | 126.0 | 127.8 | 128.2 | 130.0 | 129.3 | 128.8 | 127.9 | 127.5 | 127.0 |
| 20 | 0 | | 124.7 | 125.0 | 126.0 | 127.6 | 129.0 | 130.0 | 129.1 | 128.1 | 128.0 | 127.3 | 127.0 |
| 25 | 0 | | 124.7 | 125.0 | 126.0 | 127.8 | 129.0 | 129.9 | 128.9 | 128.2 | 127.9 | 126.9 | 128.0 |
| 30 | 0 | | 124.9 | 125.0 | 126.3 | 127.4 | 128.0 | 129.8 | 128.9 | 128.0 | 127.8 | 126.8 | 128.3 |
| 35 | 0 | | 124.5 | 125.0 | 126.3 | 127.4 | 127.8 | 129.4 | 128.2 | 128.0 | 128.6 | 127.0 | 128.3 |
| 40 | 0 | | 124.9 | 125.6 | 126.7 | 127.4 | 128.4 | 129.4 | 128.1 | 128.2 | 127.6 | 127.2 | 128.2 |
| 45 | 0 | | 124.6 | 125.6 | 127.0 | 128.0 | 129.0 | 129.3 | 128.1 | 128.2 | 127.7 | 127.8 | 128.1 |
| 50 | 0 | | 124.4 | 125.2 | 127.0 | 128.4 | 129.2 | 128.8 | 128.3 | 128.0 | 127.8 | 127.0 | 129.0 |
| 55 | 0 | | 124.8 | 125.7 | 127.3 | 128.5 | 129.3 | 129.2 | 128.3 | 128.0 | 127.9 | 126.0 | 128.5 |
| | | | One Scale Division = .000074 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 472.4 | 468.0 | 463.0 | 463.0 | 462.0 | 459.0 | 460.1 | 460.2 | 462.5 | 462.6 | 463.0 |
| 7 | 0 | | 473.6 | 468.6 | 462.5 | 463.8 | 462.1 | 459.5 | 459.0 | 460.1 | 462.3 | 462.0 | 463.5 |
| 12 | 0 | | 473.0 | 467.0 | 462.2 | 463.4 | 462.4 | 459.4 | 460.2 | 460.8 | 462.0 | 461.9 | 465.2 |
| 17 | 0 | | 472.2 | 466.0 | 462.0 | 463.6 | 462.9 | 459.6 | 460.0 | 461.9 | 462.1 | 462.0 | 465.2 |
| 22 | 0 | | 470.0 | 464.4 | 462.0 | 463.3 | 463.2 | 460.4 | 460.0 | 462.9 | 462.8 | 463.0 | 465.0 |
| 27 | 0 | | 468.7 | 463.0 | 463.0 | 464.0 | 463.6 | 460.1 | 459.7 | 463.0 | 462.7 | 463.0 | 465.0 |
| 32 | 0 | | 469.8 | 461.5 | 463.0 | 464.0 | 462.9 | 460.0 | 460.0 | 463.0 | 463.0 | 463.5 | 465.5 |
| 37 | 0 | | 470.2 | 461.0 | 464.0 | 463.8 | 462.1 | 459.9 | 459.2 | 462.5 | 463.0 | 464.1 | 465.0 |
| 42 | 0 | | 470.4 | 461.0 | 463.0 | 462.8 | 460.9 | 459.9 | 459.5 | 462.1 | 463.6 | 464.0 | 464.0 |
| 47 | 0 | | 469.0 | 461.0 | 462.7 | 462.0 | 461.6 | 459.2 | 459.7 | 462.0 | 463.0 | 463.5 | 464.0 |
| 52 | 0 | | 468.0 | 461.0 | 463.0 | 462.1 | 461.1 | 459.4 | 460.0 | 462.0 | 462.8 | 462.5 | 463.7 |
| 57 | 0 | | 468.1 | 461.0 | 463.0 | 462.1 | 460.5 | 460.7 | 460.5 | 462.1 | 462.4 | 463.2 | 462.2 |
| Thermometer | | | 52.0 | 52.5 | 52.5 | 52.8 | 53.1 | 53.3 | 53.2 | 52.6 | 52.1 | 52.0 | 51.6 |
| | | | One Scale Division = .000093 parts of V. F. | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 67.6 | 67.1 | 67.4 | 66.7 | 65.8 | 64.3 | 63.7 | 64.6 | 64.6 | 65.2 | 65.0 |
| 8 | 0 | | 67.6 | 67.1 | 67.4 | 66.5 | 65.8 | 64.0 | 63.4 | 64.6 | 64.9 | 64.9 | 65.0 |
| 13 | 0 | | 67.6 | 67.1 | 67.0 | 66.4 | 65.8 | 64.1 | 63.4 | — | 64.9 | 65.7 | 65.0 |
| 18 | 0 | | 67.6 | 67.2 | 67.0 | 66.4 | 65.8 | 64.1 | 63.4 | 64.8 | 64.9 | 65.7 | 65.0 |
| 23 | 0 | | 67.1 | 67.2 | 67.0 | 66.4 | 65.8 | 64.1 | 63.5 | 64.8 | 64.9 | 65.7 | 64.7 |
| 28 | 0 | | 67.1 | 67.1 | 67.0 | 66.3 | 65.5 | 64.1 | 63.5 | 64.8 | 64.9 | 65.7 | 64.7 |
| 33 | 0 | | 67.1 | 66.7 | 67.0 | 66.3 | 65.4 | 64.0 | 63.5 | 64.5 | 65.5 | 65.4 | 64.7 |
| 38 | 0 | | 67.0 | 66.5 | 67.0 | 66.3 | 65.4 | 63.9 | 64.2 | 64.5 | 65.0 | 65.4 | 64.7 |
| 43 | 0 | | 66.7 | 66.5 | 67.0 | 65.9 | 65.0 | 63.8 | 64.2 | 64.5 | 65.1 | 65.4 | 65.0 |
| 48 | 0 | | 66.7 | 66.5 | 67.0 | 65.8 | 64.9 | 63.7 | 64.3 | 64.5 | 65.1 | 65.3 | 65.0 |
| 53 | 0 | | 67.1 | 66.5 | 66.7 | 65.8 | 64.9 | 63.6 | 64.3 | 64.5 | 65.2 | 65.1 | 65.0 |
| 58 | 0 | | 67.1 | 66.5 | 66.7 | 65.8 | 64.6 | 63.9 | 64.4 | 64.5 | 65.2 | 65.1 | 65.0 |
| Thermometer | | | 49.2 | 51.0 | 51.7 | 52.0 | 52.7 | 53.5 | 54.0 | 53.3 | 52.9 | 52.5 | 52.2 |
| Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force. | | | | | | | | | | | | | |
| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | | |
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | | | |
| 18 | 10 | 0 | 29.980 | 43.7 | 38.8 | — | 0.0 | Light cir. and haze overspreading the sky. | | | | | |
| | 11 | 0 | 29.969 | 38.2 | 35.4 | — | 0.0 | Partially clouded with cir.-cum. and cir. | | | | | |
| | 12 | 0 | 29.961 | 34.6 | 31.6 | — | 0.0 | .5 clear in zenith, remainder light cir. and haze. | | | | | |
| | 13 | 0 | 29.960 | 34.8 | 32.0 | — | 0.0 | Partially clouded with cir.-cum. and cir. | | | | | |
| | 14 | 0 | 29.946 | 35.0 | 32.3 | — | 0.0 | Partially clouded round horizon; .7 clear. [horizon; .5 clear. | | | | | |
| | 15 | 0 | 29.945 | 37.7 | 34.4 | — | 0.0 | Partially clouded; light cir.-cum. in zenith; cir.-strat. round | | | | | |
| | 16 | 0 | 29.927 | 37.0 | 33.3 | — | 0.0 | Light cir.; .6 clear, fair. | | | | | |
| | 17 | 0 | 29.909 | 38.7 | 33.8 | — | 0.0 | .9 clear; cir. with haze round horizon; fair. | | | | | |
| | 18 | 0 | 29.911 | 38.9 | 34.0 | — | 0.0 | .2 clear, remainder overcast. | | | | | |
| | 19 | 0 | 29.879 | 34.2 | 30.4 | — | 0.0 | .3 clear, remainder clouded; cir., cir.-cum. and haze. | | | | | |
| | 20 | 0 | 29.861 | 34.0 | 31.2 | — | 0.0 | Clouded; cir.-cum. and haze. | | | | | |
| | 21 | 0 | 29.841 | 34.0 | 31.4 | — | 0.0 | Partially clouded with light cir. and haze. | | | | | |

| MAGNETICAL OBSERVATIONS. | | | | | | | | | | | | January 18th and 19th. | | |
|--------------------------|-------------------|-------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|------------------|------------------|------------------------|----------|----------|
| DECLINATION. | | | | | | Angular Value of one Scale Division = 0'.721. | | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | | |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 128.0 | 127.3 | 127.4 | 127.4 | 128.0 | 130.5 | 133.6 | 132.3 | 129.5 | 126.8 | 123.2 | 122.4 | 122.0 | | |
| 127.6 | 127.5 | 127.3 | 127.6 | 128.2 | 130.7 | 133.3 | 132.0 | 129.2 | 126.4 | 123.1 | 122.3 | 122.0 | | |
| 128.0 | 127.0 | 127.5 | 127.9 | 128.7 | 131.0 | 133.0 | 131.3 | 129.0 | 126.0 | 122.8 | 122.2 | 122.0 | | |
| 128.9 | 127.1 | 127.0 | 127.6 | 128.7 | 131.1 | 133.1 | 131.0 | 128.3 | 125.8 | 122.8 | 122.2 | 122.1 | | |
| 129.0 | 126.5 | 126.2 | 127.6 | 129.1 | 131.2 | 132.8 | 131.5 | 128.6 | 125.8 | 122.4 | 122.2 | 122.2 | | |
| 128.8 | 125.6 | 126.7 | 128.2 | 129.3 | 131.0 | 132.8 | 131.3 | 128.4 | 125.2 | 122.2 | 122.2 | 122.3 | | |
| 129.0 | 127.3 | 127.0 | 128.2 | 129.3 | 131.1 | 132.7 | 131.1 | 128.8 | 125.0 | 122.4 | 122.2 | 122.8 | | |
| 128.2 | 127.0 | 127.4 | 128.5 | 129.5 | 132.0 | 132.9 | 130.9 | 128.0 | 124.8 | 122.4 | 122.1 | 122.8 | | |
| 128.0 | 127.0 | 127.5 | 128.3 | 129.8 | 132.2 | 132.7 | 131.0 | 127.8 | 124.2 | 122.2 | 122.0 | 123.0 | | |
| 127.9 | 127.0 | 127.0 | 127.9 | 129.9 | 132.4 | 133.0 | 130.8 | 127.5 | 124.0 | 122.2 | 121.9 | 123.1 | | |
| 127.2 | 127.0 | 127.0 | 127.8 | 129.7 | 132.5 | 133.0 | 130.1 | 127.1 | 123.8 | 122.4 | 122.0 | 123.0 | | |
| 128.0 | 127.1 | 127.1 | 127.9 | 130.0 | 133.0 | 132.8 | 129.9 | 127.1 | 123.5 | 122.5 | 122.0 | 123.0 | | |
| HORIZONTAL FORCE. | | | | | | Change in the Magnetic moment of the Bar for 1° Fah°. = .00027. | | | | | | | | |
| 461.2 | 463.5 | 467.3 | 465.5 | 464.1 | 458.4 | 457.1 | 450.7 | 439.5 | 436.7 | 436.6 | 446.2 | 454.9 | | |
| 462.0 | 463.0 | 465.6 | 464.8 | 463.7 | 458.2 | 457.5 | 449.7 | 439.7 | 436.9 | 437.1 | 448.0 | 454.4 | | |
| 462.0 | 463.0 | 467.4 | 465.4 | 463.6 | 459.0 | 457.0 | 448.2 | 440.5 | 435.8 | 437.2 | 449.0 | 454.6 | | |
| 463.0 | 462.6 | 468.0 | 464.9 | 463.6 | 459.1 | 456.6 | 447.0 | 438.5 | 437.0 | 437.8 | 449.0 | 456.0 | | |
| 463.0 | 464.4 | 466.3 | 464.4 | 463.3 | 459.6 | 456.1 | 449.2 | 438.5 | 438.7 | 439.6 | 449.0 | 456.4 | | |
| 462.7 | 464.3 | 465.5 | 464.5 | 463.3 | 458.8 | 455.2 | 445.2 | 439.1 | 437.7 | 440.6 | 449.2 | 455.6 | | |
| 462.5 | 465.4 | 465.0 | 463.8 | 462.7 | 458.9 | 452.7 | 444.8 | 439.4 | 438.4 | 442.2 | 451.0 | 454.4 | | |
| 462.0 | 466.0 | 465.1 | 465.0 | 462.7 | 458.7 | 453.3 | 444.3 | 438.0 | 438.0 | 441.5 | 450.6 | 455.3 | | |
| 462.5 | 465.4 | 465.8 | 465.4 | 461.5 | 458.5 | 452.5 | 443.4 | 438.2 | 438.1 | 442.2 | 451.7 | 456.1 | | |
| 463.0 | 466.7 | 465.5 | 465.3 | 460.7 | 458.8 | 451.6 | 442.2 | 436.2 | 437.6 | 443.4 | 452.2 | 456.1 | | |
| 463.0 | 467.1 | 465.7 | 465.4 | 460.2 | 457.6 | 451.9 | 441.5 | 437.2 | 436.7 | 444.7 | 453.5 | 457.1 | | |
| 463.4 | 467.4 | 466.0 | 465.7 | 458.7 | 457.9 | 452.0 | 441.0 | 437.6 | 436.8 | 445.6 | 451.8 | 457.8 | | |
| 51.6 | 52.0 | 53.2 | 53.6 | 54.4 | 55.5 | 56.0 | 54.7 | 54.2 | 53.9 | 54.0 | 54.0 | 54.3 ^a | | |
| VERTICAL FORCE. | | | | | | Change in the Magnetic moment of the Bar for 1° Fah°. = .00007. | | | | | | | | |
| 65.0 | 65.5 | 64.6 | 63.8 | 62.8 | 62.1 | 60.8 | 61.0 | 61.7 | 62.2 | 62.9 | 63.8 | 63.9 | | |
| 65.0 | 65.5 | 64.6 | 63.8 | 62.8 | 61.8 | 60.8 | 61.0 | 61.9 | 62.2 | 62.9 | 63.8 | 63.9 | | |
| 65.0 | 65.5 | 64.6 | 63.6 | 62.8 | 61.8 | 60.5 | 61.0 | 61.9 | 62.4 | 62.9 | 63.9 | 64.3 | | |
| 65.4 | 65.5 | 64.4 | 63.6 | 62.5 | 61.8 | 60.5 | 61.0 | 61.9 | 62.4 | 63.1 | 64.0 | 64.1 | | |
| 65.4 | 65.8 | 64.0 | 63.6 | 62.4 | 61.9 | 60.5 | 60.9 | 61.9 | 62.9 | 63.1 | 64.0 | 64.2 | | |
| 65.4 | 65.1 | 63.9 | 63.3 | 62.3 | 61.5 | 60.3 | 60.9 | 62.2 | 62.9 | 63.1 | 64.2 | 64.2 | | |
| 65.4 | 65.0 | 63.7 | 63.3 | 62.3 | 61.5 | 60.0 | 60.9 | 62.2 | 62.8 | 63.4 | 64.2 | 63.4 | | |
| 65.4 | 65.0 | 63.7 | 63.3 | 62.3 | 61.2 | 60.0 | 60.9 | 62.2 | 62.8 | 63.4 | 64.2 | 63.4 | | |
| 65.4 | 65.0 | 63.9 | 63.2 | 62.1 | 61.1 | 60.1 | 60.9 | 62.2 | 62.7 | 63.4 | 64.2 | 63.4 | | |
| 65.4 | 65.0 | 63.8 | 63.2 | 62.1 | 60.9 | 60.1 | 60.9 | 62.2 | 62.7 | 63.4 | 64.2 | 63.9 | | |
| 65.4 | 64.6 | 64.0 | 63.1 | 62.1 | 60.9 | 60.1 | 61.5 | 62.5 | 62.7 | 63.6 | 64.2 | 63.7 | | |
| 65.5 | 64.7 | 64.1 | 63.1 | 62.1 | 60.8 | 60.7 | 61.4 | 62.5 | 62.9 | 63.6 | 64.2 | 63.7 | | |
| 52.0 | 52.2 | 53.4 | 53.8 | 54.4 | 55.2 | 56.0 | 55.2 | 54.5 | 54.2 | 54.2 | 54.1 | 54.4 ^a | | |

^a At 19^d 10^h Thermometer of H. F. 54^d.5; of V. F. 53^d.7.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|-------------|--------|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | |
| 18 | 22 | 0 | 29.824 | 36.6 | 33.4 | — | 0.0 | Clouded, cir.-cum. and haze. | | | |
| | 23 | 0 | 29.826 | 35.7 | 33.0 | — | 0.0 | Overcast with cir.-strat. and haze. | | | |
| 19 | 0 | 0 | 29.811 | 36.1 | 33.0 | — | 0.0 | Densely overcast. | | | |
| | 1 | 0 | 29.813 | 37.4 | 34.2 | — | 0.0 | Densely overcast. | | | |
| | 2 | 0 | 29.816 | 37.4 | 33.5 | — | 0.0 | Clouded with cir.-cum., cir.-strat. and haze. | | | |
| | 3 | 0 | 29.813 | 38.4 | 34.5 | S. by W. | 0.0 | Clouded with cir.-cum. and haze. | | | |
| | 4 | 0 | 29.812 | 37.8 | 34.4 | — | 0.0 | Clouded with cir.-cum. and haze. | | | |
| | 5 | 0 | 29.806 | 39.5 | 35.6 | — | 0.0 | Clouded with cir.-cum. and haze. | | | |
| | 6 | 0 | 29.774 | 39.9 | 36.2 | S. S. W. | 0.5 | Light cir.-cum. and haze covering the sky. | | | |
| | 7 | 0 | 29.764 | 41.8 | 37.9 | S. S. W. | 0.5 | Overcast with cir.-cum., cir.-strat. and haze. | | | |
| | 8 | 0 | 29.743 | 42.2 | 38.4 | S. W. by S. | 0.5 | Overcast with cir.-cum., cir.-strat. and haze. | | | |
| | 9 | 0 | 29.744 | 42.0 | 38.3 | S. W. by S. | 0.5 | Clouded with cir.-strat. and haze. | | | |
| | 10 | 0 | 29.742 | 41.7 | 38.0 | S. W. by S. | 0.5 | Clouded with cir.-cum., strat. and haze. | | | |

| February 24th and 25th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | | |
|--|----|----|---|-------------------|-------------------|-------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 126.2 | 126.5 | 130.7 | 138.8 | 129.0 | 129.0 | 132.0 | 157.4 | 140.6 | 127.0 | 127.5 | |
| 5 | 0 | | 126.6 | 126.2 | 134.5 | 138.0 | 129.6 | 128.7 | 132.0 | 154.0 | 136.6 | 127.4 | 128.0 | |
| 10 | 0 | | 126.7 | 126.1 | 138.4 | 137.6 | 130.0 | 128.9 | 131.9 | 143.6 | 133.1 | 127.4 | 127.9 | |
| 15 | 0 | | 126.7 | 126.1 | 146.5 | 136.0 | 130.1 | 129.0 | 131.0 | 130.3 | 131.0 | 127.5 | 127.6 | |
| 20 | 0 | | 127.0 | 126.0 | 155.8 | 133.0 | 131.0 | 129.8 | 129.9 | 122.6 | 127.4 | 127.2 | 127.2 | |
| 25 | 0 | | 127.0 | 128.5 | 156.0 | 132.0 | 130.6 | 130.0 | 128.5 | 121.2 | 127.6 | 127.0 | 127.2 | |
| 30 | 0 | | 127.0 | 131.4 | 154.0 | 132.0 | 130.0 | 129.7 | 128.5 | 120.8 | 128.1 | 127.5 | 127.5 | |
| 35 | 0 | | 126.9 | 132.0 | 150.8 | 131.0 | 130.0 | 130.0 | 128.8 | 123.5 | 128.5 | 127.0 | 128.0 | |
| 40 | 0 | | 127.0 | 131.4 | 147.0 | 129.9 | 129.4 | 129.9 | 130.4 | 128.3 | 127.5 | 127.0 | 128.0 | |
| 45 | 0 | | 126.8 | 131.0 | 145.7 | 129.9 | 129.5 | 130.4 | 138.1 | 134.4 | 126.8 | 127.0 | 128.0 | |
| 50 | 0 | | 126.2 | 130.5 | 143.2 | 129.7 | 129.4 | 130.0 | 146.2 | 138.8 | 126.9 | 127.0 | 128.0 | |
| 55 | 0 | | 126.3 | 131.0 | 140.0 | 129.3 | 129.0 | 131.0 | 154.1 | 140.9 | 127.0 | 127.3 | 128.0 | |
| | | | One Scale Division = .000099 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | — ^a | — | — | — | — | — | — | — | — | 498.1 | 502.5 | |
| 7 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 12 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 17 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 22 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 27 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 32 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 37 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 42 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 47 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 52 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| 57 | 0 | | — | — | — | — | — | — | — | — | — | — | — | |
| Thermometer | | | ° | ° | ° | ° | ° | ° | ° | ° | ° | 45.6 | 45.5 | |
| | | | One Scale Division = .000093 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | 81.6 | 81.5 | 80.4 | 77.3 | 78.7 | 74.0 | 73.5 | 68.5 | 70.4 | 72.6 | 73.2 | |
| 3 | 0 | | 81.6 | 81.5 | 80.4 | 77.3 | 78.7 | 74.0 | 73.5 | 68.5 | 70.4 | 72.6 | 73.2 | |
| 8 | 0 | | 81.5 | 81.8 | 80.8 | 77.2 | 77.9 | 73.9 | 73.4 | 63.2 | 70.4 | 72.6 | 73.2 | |
| 13 | 0 | | 81.2 | 81.4 | 81.5 | 77.6 | 77.4 | 73.5 | 73.6 | 63.6 | 70.4 | 72.8 | 74.2 | |
| 18 | 0 | | 80.8 | 81.4 | 80.7 | 78.3 | 76.9 | 73.2 | 73.6 | 59.6 | 71.0 | 72.8 | 74.2 | |
| 23 | 0 | | 80.5 | 82.0 | 80.4 | 79.6 | 76.5 | 73.1 | 73.6 | 57.7 | 71.0 | 72.8 | 74.2 | |
| 28 | 0 | | 80.7 | 81.6 | 80.0 | 80.4 | 76.0 | 72.8 | 73.6 | 58.6 | 72.1 | 72.8 | 74.2 | |
| 33 | 0 | | 80.7 | 81.6 | 79.3 | 80.4 | 75.8 | 72.7 | 73.6 | 58.9 | 72.4 | 72.8 | 74.2 | |
| 38 | 0 | | 80.9 | 81.7 | 78.5 | 80.6 | 75.8 | 72.7 | 73.2 | 59.6 | 72.4 | 72.8 | 74.2 | |
| 43 | 0 | | 80.8 | 81.7 | 78.4 | 80.6 | 75.0 | 73.2 | 77.5 | 66.5 | 72.6 | 73.2 | 74.2 | |
| 48 | 0 | | 80.8 | 81.5 | 78.1 | 80.4 | 74.8 | 73.3 | 71.4 | 67.1 | 72.6 | 73.2 | 74.2 | |
| 53 | 0 | | 80.8 | 81.4 | 77.8 | 80.1 | 74.4 | 73.4 | 69.7 | 68.6 | 72.6 | 73.2 | 74.2 | |
| 58 | 0 | | 81.5 | 81.4 | 77.5 | — | 74.3 | 73.2 | 68.5 | 69.4 | 72.6 | 73.2 | 74.2 | |
| Thermometer | | | ° | ° | ° | ° | ° | ° | ° | ° | ° | 46.2 | 45.8 | |
| Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force. | | | | | | | | | | | | | | |
| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | | | |
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | | | |
| D. | H. | M. | In. | ° | ° | — | lbs. | Densely clouded; cir.-cum. and cir.-strat. Densely clouded; cir.-cum. and cir.-strat. Densely clouded; cir.-cum. and cir.-strat. Densely overcast. Densely clouded. Densely clouded. Densely clouded. Densely overcast. Densely overcast. Densely overcast. Densely overcast. Densely overcast. | | | | | | |
| 24 | 10 | 0 | 29.337 | 27.2 | 24.0 | — | 0.0 | | | | | | | |
| | 11 | 0 | 29.338 | 26.9 | 22.2 | — | 0.0 | | | | | | | |
| | 12 | 0 | 29.348 | 25.8 | 21.7 | — | 0.0 | | | | | | | |
| | 13 | 0 | 29.351 | 25.4 | 21.7 | — | 0.0 | | | | | | | |
| | 14 | 0 | 29.353 | 24.7 | 20.9 | — | 0.0 | | | | | | | |
| | 15 | 0 | 29.346 | 24.0 | 20.7 | — | 0.0 | | | | | | | |
| | 16 | 0 | 29.337 | 25.0 | 22.0 | — | 0.0 | | | | | | | |
| | 17 | 0 | 29.330 | 24.0 | 20.7 | — | 0.0 | | | | | | | |
| | 18 | 0 | 29.326 | 23.0 | 19.9 | — | 0.0 | | | | | | | |
| | 19 | 0 | 29.332 | 22.8 | 19.6 | — | 0.0 | | | | | | | |
| | 20 | 0 | 29.323 | 23.2 | 19.9 | — | 0.0 | | | | | | | |
| | 21 | 0 | 29.309 | 23.0 | 19.5 | — | 0.0 | | | | | | | |

| MAGNETICAL OBSERVATIONS. | | | | | | | | | | | | February 24th and 25th. | | | |
|--------------------------|-------------------|-------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|------------------|------------------|-------------------------|----------|--|--|
| DECLINATION. | | | | | | Angular Value of one Scale Division = 0'·721. | | | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | | | |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | | |
| 127·8 | 128·0 | 128·2 | 126·8 | 129·0 | 131·6 | 129·9 | 127·4 | 124·7 | 123·7 | 123·7 | 124·5 | 125·6 | | | |
| 127·7 | 127·3 | 128·0 | 126·7 | 128·7 | 130·9 | 129·2 | 127·1 | 124·6 | 124·0 | 123·8 | 124·3 | 125·6 | | | |
| 128·0 | 127·9 | 127·4 | 126·0 | 129·6 | 131·0 | 129·5 | 126·5 | 125·0 | 124·0 | 123·6 | 124·7 | 125·3 | | | |
| 128·0 | 127·9 | 128·0 | 126·0 | 129·7 | 130·4 | 129·0 | 127·7 | 123·7 | 123·9 | 123·7 | 124·5 | 125·1 | | | |
| 128·0 | 128·0 | 128·0 | 126·2 | 129·6 | 130·2 | 129·2 | 125·4 | 124·3 | 123·9 | 123·8 | 124·7 | 125·0 | | | |
| 128·0 | 128·0 | 128·0 | 126·0 | 129·8 | 130·4 | 128·8 | 125·8 | 124·8 | 124·0 | 123·2 | 126·1 | 125·1 | | | |
| 128·0 | 128·0 | 128·1 | 128·1 | 129·7 | 130·7 | 129·0 | 126·8 | 124·6 | 124·0 | 124·0 | 124·9 | 125·2 | | | |
| 128·0 | 127·7 | 128·4 | 127·1 | 130·0 | 130·6 | 128·5 | 126·5 | 123·9 | 123·5 | 124·6 | 125·0 | 126·0 | | | |
| 128·0 | 127·6 | 128·3 | 127·6 | 130·3 | 130·8 | 127·9 | 126·5 | 124·3 | 123·5 | 124·1 | 125·0 | 126·0 | | | |
| 128·0 | 127·0 | 128·9 | 128·9 | 130·5 | 130·0 | 127·7 | 125·9 | 124·4 | 123·5 | 124·1 | 125·1 | 125·9 | | | |
| 128·0 | 128·0 | 128·0 | 128·8 | 131·2 | 129·5 | 128·0 | 125·3 | 124·0 | 123·7 | 125·0 | 125·5 | 126·1 | | | |
| 128·0 | 127·9 | 127·2 | 128·5 | 131·8 | 129·9 | 127·6 | 125·4 | 123·8 | 123·3 | 124·7 | 125·6 | 125·8 | | | |
| HORIZONTAL FORCE. | | | | | | Change in the Magnetic moment of the Bar for 1° Fahr. = ·00027. | | | | | | | | | |
| 510·0 | 512·8 | 517·9 | 517·7 | 521·8 | 525·0 | 525·9 | 524·5 | 529·5 | 530·0 | 539·3 | 539·0 | 548·7 | | | |
| — | 512·1 | 517·8 | 517·4 | 522·3 | 524·4 | 525·9 | 525·6 | 530·0 | 530·8 | 538·4 | 540·8 | 546·3 | | | |
| — | 512·5 | 517·9 | 517·9 | 522·8 | 525·0 | 526·1 | 524·6 | 528·6 | 531·5 | 537·6 | 543·5 | 551·1 | | | |
| — | 512·0 | 518·4 | 518·5 | 522·8 | 525·2 | 525·8 | 527·0 | 529·5 | 535·0 | 538·0 | 540·8 | 550·1 | | | |
| — | 512·8 | 519·2 | 520·3 | 521·6 | 524·5 | 526·0 | 525·4 | 531·9 | 533·3 | 538·3 | 541·2 | 550·0 | | | |
| — | 514·0 | 519·5 | 519·1 | 522·0 | 524·6 | 525·1 | 524·1 | 531·3 | 534·5 | 538·6 | 539·5 | 547·8 | | | |
| — | 515·1 | 520·1 | 521·2 | 524·1 | 525·2 | 524·9 | 525·6 | 530·2 | 535·0 | 539·3 | 539·2 | 547·2 | | | |
| — | 515·0 | 520·6 | 520·6 | 523·0 | 525·1 | 525·4 | 526·1 | 529·8 | 534·3 | 540·0 | 538·2 | 545·9 | | | |
| — | 517·1 | 520·2 | 520·2 | 523·5 | 525·7 | 525·0 | 528·3 | 531·0 | 537·5 | 539·2 | 539·0 | 547·4 | | | |
| — | 514·2 | 520·3 | 521·2 | 523·4 | 526·0 | 525·0 | 527·0 | 530·7 | 537·0 | 537·8 | 539·8 | 549·4 | | | |
| — | 517·1 | 520·6 | 522·4 | 524·1 | 525·1 | 525·8 | 527·3 | 531·3 | 537·3 | 539·6 | 541·4 | 549·0 | | | |
| — | 516·9 | 517·8 | 522·0 | 524·6 | 525·1 | 526·0 | 529·8 | 531·2 | 537·9 | 539·7 | 543·6 | 547·2 | | | |
| 45·5 | 45·2 | 44·9 | 45·2 | 45·0 | 44·5 | 43·9 | 43·8 | 44·0 | 45·2 | 45·6 | 46·0 | 46·2 ^b | | | |
| VERTICAL FORCE. | | | | | | Change in the Magnetic moment of the Bar for 1° Fahr. = ·00007. | | | | | | | | | |
| 74·2 | 74·3 | 74·4 | 74·3 | 73·1 | 74·7 | 74·8 | 73·6 | 73·2 | 72·9 | 72·8 | 73·0 | 72·6 | | | |
| 74·2 | 74·2 | 74·4 | 74·3 | 73·2 | 74·7 | 74·8 | 73·6 | 73·2 | 72·8 | 72·8 | 73·4 | 72·6 | | | |
| 74·2 | 74·3 | 74·4 | 74·3 | 73·4 | 75·0 | 74·8 | 73·8 | 72·9 | 72·8 | 73·1 | 73·4 | 72·9 | | | |
| 74·2 | 74·3 | 74·4 | 74·3 | 74·4 | 75·0 | 74·5 | 73·8 | 73·7 | 72·8 | 73·1 | 72·6 | 72·9 | | | |
| 74·2 | 74·4 | 74·4 | 74·3 | 74·3 | 75·0 | 74·7 | 73·8 | 73·5 | 72·3 | 73·1 | 72·6 | 72·6 | | | |
| 74·3 | 74·4 | 74·4 | 73·9 | 74·8 | 75·0 | 74·7 | 73·4 | 73·0 | 72·6 | 73·1 | 72·5 | 72·5 | | | |
| 74·3 | 74·4 | 74·4 | 73·5 | 74·5 | 75·0 | 74·6 | 73·4 | 73·0 | 72·6 | 72·9 | 72·3 | 72·5 | | | |
| 74·3 | 74·3 | 74·4 | 73·8 | 74·5 | 75·0 | 74·6 | 73·4 | 73·0 | 72·6 | 72·5 | 72·7 | 72·7 | | | |
| 74·3 | 74·5 | 74·4 | 73·8 | 74·5 | 75·0 | 74·6 | 73·3 | 73·0 | 72·6 | 72·3 | 72·6 | 72·3 | | | |
| 74·3 | 74·1 | 74·4 | 73·8 | 74·5 | 75·0 | 73·6 | 73·2 | 73·0 | 72·6 | 72·5 | 72·1 | 72·8 | | | |
| 74·3 | 74·4 | 74·4 | 73·8 | 74·6 | 75·0 | 73·7 | 73·2 | 73·0 | 72·6 | 72·5 | 72·1 | 72·8 | | | |
| 74·3 | 74·4 | 74·4 | 73·8 | 74·7 | 75·0 | 73·7 | 73·2 | 73·0 | 72·6 | 72·5 | 72·1 | 72·4 | | | |
| 45·4 | 45·4 | 45·4 | 45·6 | 45·8 | 45·5 | 45·0 | 44·4 | 44·6 | 45·2 | 45·7 | 45·8 | 46·2 ^b | | | |

^a A new adjustment of the instrument on the 24th day.

^b At 25^d 10^h the thermometer of H. F. 46^o·8; of V. F. 46^o·6.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|-------------|--------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 24 | 22 | 0 | 29·311 | 23·2 | 19·8 | — | 0·0 | Densely overcast. |
| | 23 | 0 | 29·293 | 23·3 | 19·9 | — | 0·0 | Densely overcast. |
| 25 | 0 | 0 | 29·295 | 24·1 | 21·1 | S. W. | 0·5 | Densely overcast; cir.-strat. and haze. |
| | 1 | 0 | 29·295 | 23·8 | 20·9 | S. W. | 0·5 | Overcast; cir.-strat., cir.-cum. and haze. |
| | 2 | 0 | 29·285 | 23·6 | 21·0 | S. W. | 0·5 | Overcast; cir.-strat., cir.-cum. and haze. |
| | 3 | 0 | 29·282 | 23·9 | 21·5 | S. W. by S. | 1·0 | Partially overcast; cir.-strat., cir.-cum. and haze. |
| | 4 | 0 | 29·265 | 25·4 | 23·2 | S. S. W. | 1·0 | Partially overcast; cir.-cum. and cum.-strat.; ·1 clear. |
| | 5 | 0 | 29·248 | 28·2 | 26·0 | S. S. W. | 1·0 | Partially overcast; cir.-cum. and cir.-strat.; ·1 clear. |
| | 6 | 0 | 29·233 | 30·7 | 28·2 | S. S. W. | 1·0 | ·1 clear in N.; remainder overcast; light cir.-cum. and haze; fair. |
| | 7 | 0 | 29·196 | 32·3 | 29·4 | S. S. W. | 1·0 | ·3 clear in N. W.; remainder clouded; light cir.-cum. and haze; fair. |
| | 8 | 0 | 29·182 | 33·8 | 31·4 | S. S. W. | 1·0 | Overcast with strat., cir.-strat. and haze. |
| | 9 | 0 | 29·199 | 34·3 | 31·3 | S. W. | 1·0 | Overcast with cir.-strat. and dense haze; particles of snow falling. |
| | 10 | 0 | 29·224 | 32·4 | 30·6 | W. S. W. | 1·0 | Uniformly overcast with cir.-cum., cir.-strat. and haze. |

| March 22nd and 23rd. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'·721. | | | | | DECLINATION. | | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 121·0 | 124·7 | 125·7 | 128·0 | 137·0 | 130·3 | 131·4 | 128·3 | 125·4 | 123·6 | 128·3 |
| 5 | 0 | 121·2 | 124·7 | 126·0 | 128·1 | 135·0 | 129·4 | 130·0 | 128·3 | 126·6 | 123·0 | 129·3 |
| 10 | 0 | 121·3 | 124·5 | 125·8 | 132·3 | 134·0 | 132·1 | 130·0 | 128·5 | 125·8 | 122·9 | 130·5 |
| 15 | 0 | 121·9 | 124·6 | 125·9 | 137·4 | 133·0 | 132·4 | 129·0 | 128·0 | 125·4 | 122·0 | 130·5 |
| 20 | 0 | 122·7 | 125·0 | 126·3 | 140·1 | 131·2 | 131·0 | 129·2 | 128·0 | 126·4 | 123·0 | 130·0 |
| 25 | 0 | 122·8 | 125·0 | 126·3 | 141·0 | 130·1 | 131·0 | 129·5 | 128·0 | 126·5 | 124·2 | 131·2 |
| 30 | 0 | 123·2 | 125·7 | 126·2 | 139·1 | 130·8 | 132·0 | 129·5 | 128·0 | 127·0 | 124·2 | 131·8 |
| 35 | 0 | 123·9 | 125·1 | 126·3 | 139·6 | 130·6 | 133·5 | 130·1 | 127·4 | 127·0 | 125·5 | 130·7 |
| 40 | 0 | 123·9 | 125·0 | 126·8 | 138·0 | 130·8 | 134·0 | 129·2 | 127·4 | 127·1 | 126·3 | 130·4 |
| 45 | 0 | 123·6 | 125·4 | 126·8 | 139·1 | 131·9 | 133·2 | 128·6 | 127·0 | 127·0 | 127·4 | 129·6 |
| 50 | 0 | 124·2 | 125·5 | 126·1 | 141·4 | 131·0 | 132·4 | 128·5 | 127·0 | 126·7 | 128·3 | 128·3 |
| 55 | 0 | 124·5 | 125·4 | 126·6 | 139·4 | 131·0 | 131·8 | 128·7 | 127·1 | 124·3 | 128·1 | 130·1 |
| | | One Scale Division = ·000099 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 680·4 | 684·6 | 677·0 | 674·3 | 660·0 | 670·1 | 673·3 | 674·8 | 676·0 | 683·4 | 684·6 |
| 7 | 0 | 680·2 | 684·8 | 679·1 | 668·3 | 661·0 | 670·4 | 673·0 | 675·0 | 677·7 | 683·7 | 684·4 |
| 12 | 0 | 679·2 | 683·3 | 679·7 | 661·9 | 662·5 | 674·0 | 673·9 | 674·8 | 679·3 | 684·9 | 679·6 |
| 17 | 0 | 680·1 | 683·1 | 681·0 | 660·0 | 663·0 | 674·0 | 673·6 | 675·0 | 680·0 | 683·8 | 683·6 |
| 22 | 0 | 679·9 | 681·9 | 683·3 | 660·0 | 664·0 | 673·0 | 675·8 | 675·7 | 680·0 | 684·7 | 681·8 |
| 27 | 0 | 680·8 | 683·4 | 683·2 | 661·1 | 665·2 | 671·5 | 675·0 | 676·7 | 678·8 | 684·7 | 682·1 |
| 32 | 0 | 681·2 | 681·1 | 683·4 | 661·1 | 668·0 | 672·3 | 674·9 | 677·5 | 677·8 | 682·5 | 685·7 |
| 37 | 0 | 680·3 | 680·2 | 682·9 | 660·4 | 668·7 | 674·0 | 674·8 | 678·3 | 677·8 | 684·8 | 684·3 |
| 42 | 0 | 684·9 | 678·5 | 683·5 | 661·3 | 669·0 | 675·0 | 674·5 | 678·6 | 676·9 | 681·9 | 683·6 |
| 47 | 0 | 689·7 | 677·4 | 680·9 | 659·0 | 670·0 | 675·4 | 674·5 | 678·9 | 675·9 | 683·7 | 686·5 |
| 52 | 0 | 685·4 | 677·8 | 678·6 | 659·0 | 670·0 | 674·0 | 674·6 | 678·7 | 676·9 | 683·6 | 684·6 |
| 57 | 0 | 684·3 | 677·5 | 673·7 | 659·0 | 670·0 | 673·8 | 675·0 | 678·6 | 680·2 | 685·0 | 683·3 |
| Thermometer | | 44·8 | 45·4 | 45·5 | 45·5 | 45·2 | 44·8 | 44·2 | 43·6 | 43·3 | 42·5 | 41·6 |
| | | One Scale Division = ·000094 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 75·4 | 74·9 | 74·5 | 75·3 | 76·5 | 77·0 | 76·1 | 76·7 | 75·5 | 74·8 | 74·4 |
| 8 | 0 | 75·4 | 74·9 | 75·1 | 75·1 | 76·7 | 77·0 | 76·2 | 76·7 | 75·5 | 74·7 | 74·1 |
| 13 | 0 | 74·8 | 74·9 | 75·1 | 75·1 | 76·7 | 77·0 | 76·2 | 76·7 | 75·6 | 74·7 | 74·3 |
| 18 | 0 | 74·8 | 74·5 | 75·1 | 75·8 | 76·7 | 76·4 | 76·2 | 76·7 | 75·1 | 75·0 | 74·7 |
| 23 | 0 | 74·8 | 74·5 | 75·1 | 76·1 | 77·0 | 76·4 | 76·2 | 76·3 | 75·1 | 74·6 | 75·1 |
| 28 | 0 | 74·3 | 74·5 | 74·9 | 76·1 | 77·0 | 76·5 | 76·2 | 76·3 | 75·1 | 75·4 | 75·1 |
| 33 | 0 | 74·3 | 74·9 | 74·8 | 75·7 | 77·0 | 76·5 | 76·2 | 76·3 | 75·1 | 75·4 | 75·4 |
| 38 | 0 | 74·3 | 74·9 | 74·8 | 75·7 | 77·0 | 76·5 | 76·2 | 76·3 | 74·4 | 75·6 | 75·8 |
| 43 | 0 | 74·3 | 74·5 | 73·8 | 75·7 | 77·1 | 76·5 | 76·6 | 76·3 | 74·4 | 75·6 | 75·8 |
| 48 | 0 | 75·2 | 74·5 | 73·8 | 75·7 | 76·9 | 76·4 | 76·6 | 76·3 | 74·1 | 75·6 | 76·0 |
| 53 | 0 | 74·9 | 74·5 | 73·8 | 75·7 | 77·0 | 76·4 | 76·8 | 76·3 | 74·1 | 75·4 | 76·7 |
| 58 | 0 | 74·9 | 74·5 | 74·4 | 76·5 | 77·0 | 76·4 | 76·8 | 76·4 | 74·3 | 75·4 | 76·7 |
| Thermometer | | 44·4 | 44·7 | 44·9 | 45·7 | 45·6 | 44·9 | 44·8 | 44·4 | 43·8 | 43·6 | 42·2 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 22 | 10 | 0 | 29·162 | 33·2 | 29·4 | S. by W. | 1·0 | Cir.-strat. and cir.-cum. generally dispersed over the sky; fair. |
| | 11 | 0 | 29·169 | 33·0 | 28·8 | W. by S. | 1·0 | Cir.-cum. and cum.-strat. dispersed generally over the sky; fair. |
| | 12 | 0 | 29·184 | 27·4 | 22·4 | W. by S. | 0·5 | Overcast with cir.-strat. and haze. |
| | 13 | 0 | 29·193 | 23·5 | 19·6 | W. by S. | 0·5 | Overcast with dense haze. |
| | 14 | 0 | 29·210 | 21·4 | 18·6 | W. | 2·0 | Densely clouded. |
| | 15 | 0 | 29·211 | 20·0 | 17·8 | N. W. | 2·0 | Densely clouded. |
| | 16 | 0 | 29·219 | 19·2 | 17·1 | S. W. | 2·0 | Densely clouded. |
| | 17 | 0 | 29·237 | 18·2 | 16·0 | S. W. | 2·0 | Densely overcast. |
| | 18 | 0 | 29·232 | 16·8 | 14·9 | S. W. | 2·0 | Densely overcast. |
| | 19 | 0 | 29·246 | 16·0 | 13·8 | W. | 2·0 | Densely overcast. |
| | 20 | 0 | 29·277 | 15·2 | 13·0 | W. | 2·0 | Densely overcast. |
| | 21 | 0 | 29·277 | 13·8 | 12·8 | W. | 2·0 | Densely overcast. |

MAGNETICAL OBSERVATIONS.

March 22nd and 23rd.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 131.0 | Sc. Div. 125.5 | Sc. Div. 130.5 | Sc. Div. 132.7 | Sc. Div. 133.5 | Sc. Div. 134.0 | Sc. Div. 135.0 | Sc. Div. 132.6 | Sc. Div. 130.0 | Sc. Div. 125.2 | Sc. Div. 121.0 | Sc. Div. 122.7 | Sc. Div. 122.5 |
| 129.5 | 127.8 | 130.9 | 132.1 | 133.8 | 134.2 | 135.0 | 133.3 | 128.9 | 123.2 | 124.0 | 122.3 | 122.4 |
| 127.3 | 128.9 | 130.9 | 132.6 | 134.4 | 134.9 | 133.5 | 133.4 | 127.6 | 123.3 | 122.0 | 122.8 | 122.5 |
| 129.2 | 129.8 | 131.0 | 132.6 | 134.4 | 135.0 | 133.8 | 132.1 | 127.0 | 122.3 | 122.2 | 122.3 | 122.5 |
| 129.0 | 130.5 | 131.1 | 132.2 | 135.0 | 134.6 | 133.2 | 131.2 | 126.7 | 121.8 | 123.3 | 122.4 | 123.0 |
| 127.1 | 130.6 | 130.9 | 132.8 | 135.1 | 134.8 | 133.8 | 129.8 | 126.6 | 121.0 | 123.5 | 122.0 | 123.0 |
| 126.8 | 130.8 | 131.0 | 132.9 | 135.0 | 135.7 | 133.4 | 129.5 | 126.3 | 121.1 | 123.8 | 121.9 | 123.3 |
| 126.4 | 130.2 | 130.1 | 132.4 | 133.7 | 135.5 | 133.8 | 129.1 | 126.1 | 122.5 | 124.0 | 121.7 | 123.0 |
| 124.7 | 130.8 | 130.7 | 131.8 | 133.6 | 134.3 | 133.4 | 129.5 | 126.4 | 121.4 | 123.1 | 122.0 | 123.9 |
| 124.0 | 130.5 | 131.9 | 131.3 | 133.5 | 134.0 | 133.8 | 129.2 | 126.8 | 120.5 | 122.5 | 122.0 | 123.5 |
| 124.0 | 130.2 | 132.0 | 133.0 | 133.8 | 135.7 | 133.1 | 129.3 | 126.5 | 120.3 | 122.8 | 122.2 | 123.9 |
| 123.9 | 130.4 | 132.0 | 133.8 | 134.4 | 134.7 | 133.2 | 128.7 | 125.9 | 120.5 | 122.7 | 122.0 | 123.6 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 685.1 | 685.7 | 688.4 | 688.1 | 689.2 | 684.6 | 684.3 | 680.4 | 673.3 | 669.8 | 669.3 | 684.6 | 685.7 |
| 685.9 | 683.7 | 688.5 | 688.0 | 689.3 | 685.0 | 683.6 | 680.9 | 672.3 | 668.7 | 676.0 | 683.0 | 686.1 |
| 679.6 | 687.5 | 688.1 | 687.8 | 690.4 | 685.0 | 684.8 | 681.3 | 671.8 | 667.0 | 670.5 | 682.7 | 687.5 |
| 679.6 | 687.2 | 687.6 | 688.3 | 689.9 | 685.0 | 685.0 | 681.0 | 671.5 | 668.7 | 670.8 | 683.1 | 688.0 |
| 680.4 | 688.8 | 689.0 | 687.9 | 689.2 | 688.7 | 684.0 | 678.6 | 672.8 | 666.9 | 672.7 | 685.6 | 690.0 |
| 680.2 | 686.6 | 688.5 | 687.4 | 688.8 | 685.6 | 683.7 | 678.0 | 674.0 | 668.5 | 677.6 | 686.2 | 688.8 |
| 681.7 | 686.5 | 689.8 | 688.9 | 687.1 | 683.1 | 683.5 | 676.6 | 676.6 | 669.9 | 678.5 | 685.5 | 689.0 |
| 682.6 | 687.0 | 689.7 | 688.1 | 687.0 | 685.0 | 682.3 | 677.1 | 675.4 | 668.8 | 684.7 | 683.7 | 689.0 |
| 682.6 | 687.6 | 691.0 | 688.6 | 687.2 | 684.7 | 681.9 | 680.6 | 675.6 | 668.5 | 680.7 | 682.8 | 688.9 |
| 682.6 | 688.0 | 690.6 | 688.3 | 687.1 | 682.3 | 681.6 | 676.8 | 677.3 | 668.2 | 681.5 | 684.1 | 689.2 |
| 684.4 | 688.3 | 691.6 | 688.7 | 685.5 | 683.2 | 681.3 | 676.0 | 670.6 | 671.2 | 682.5 | 684.8 | 688.3 |
| 684.6 | 688.1 | 691.5 | 689.9 | 684.4 | 683.1 | 681.3 | 673.5 | 672.1 | 667.3 | 684.1 | 685.4 | 689.8 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 41.2 | 40.4 | 39.5 | 39.1 | 38.1 | 37.8 | 37.8 | 38.0 | 38.0 | 38.2 | 38.2 | 38.5 | 38.7 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.3 | 77.3 | 78.0 | 79.2 | 81.4 | 81.6 | 82.3 | 80.7 | 79.7 | 79.8 | 80.8 | 82.5 | 81.1 |
| 76.3 | 76.8 | 78.0 | 78.9 | 81.4 | 81.4 | 81.7 | 80.7 | 79.7 | 79.8 | 81.8 | 81.8 | 81.1 |
| 75.8 | 76.7 | 78.2 | 78.8 | 81.4 | 81.4 | 82.8 | 80.5 | 79.7 | 80.3 | 81.8 | 81.8 | 81.1 |
| 75.6 | 77.3 | 78.0 | 78.8 | 81.4 | 81.9 | 81.6 | 80.2 | 79.7 | 80.3 | 82.0 | 81.8 | 81.1 |
| 75.6 | 77.3 | 78.1 | 78.7 | 81.0 | 81.9 | 81.6 | 80.2 | 79.7 | 80.3 | 81.8 | 82.4 | 81.1 |
| 75.8 | 77.2 | 77.9 | 80.9 | 81.0 | 81.9 | 82.0 | 80.2 | 80.1 | 80.9 | 82.4 | 82.4 | 81.1 |
| 76.0 | 77.4 | 78.3 | 81.1 | 81.0 | 81.9 | 81.9 | 80.2 | 80.2 | 80.7 | 82.2 | 81.7 | 81.2 |
| 76.2 | 77.4 | 78.3 | 81.1 | 81.6 | 81.9 | 81.8 | 79.9 | 80.2 | 80.7 | 83.0 | 81.4 | 81.2 |
| 76.7 | 77.6 | 79.3 | 81.8 | 81.6 | 81.6 | 81.8 | 79.9 | 80.2 | 81.0 | 82.1 | 81.4 | 81.2 |
| 77.3 | 77.7 | 79.4 | 81.8 | 81.1 | 81.6 | 81.8 | 79.9 | 80.2 | 81.0 | 82.1 | 81.4 | 81.2 |
| 77.3 | 78.0 | 79.4 | 80.2 | 81.1 | 81.7 | 81.7 | 79.9 | 79.8 | 80.7 | 82.1 | 81.1 | 81.2 |
| 77.3 | 78.1 | 79.2 | 80.2 | 81.6 | 82.3 | 80.7 | 79.9 | 79.8 | 80.8 | 82.5 | 81.1 | 81.2 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 41.6 | 41.4 | 40.4 | 40.2 | 40.0 | 39.7 | 39.4 | 39.7 | 39.7 | 39.5 | 39.5 | 39.7 | 39.9 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 23^d 10^h Thermometer of H. F. 38°·6; of V. F. 40°·1.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|--------|-------------|----------|--|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 22 | 22 | 0 | In. 29.286 | ° 12.4 | ° 12.1 | N. N. W. | lbs. 2.0 | Light haze in zenith; densely clouded round horizon. Overcast with cir.-strat. and haze. Clouded; cir.-cum., cir.-strat. and haze. Clouded; cir.-cum., cir.-strat. and haze. Clouded with cir.-strat. and haze. Densely overcast with haze. [slight snow. Densely overcast with haze; sun breaking through occasionally; [much. Densely overcast; slight snow. Densely overcast with cir. haze; snowing slightly; snow drifting very [much. Densely overcast with cir. haze; snowing slightly; snow drifting [much. Constant snow. Constant snow. Densely overcast; a few particles of snow falling. |
| 23 | 0 | 0 | 29.283 | 11.0 | 9.5 | N. N. W. | 2.0 | |
| 1 | 0 | 0 | 29.293 | 10.2 | 8.8 | N. N. W. | 2.0 | |
| 2 | 0 | 0 | 29.303 | 10.4 | 9.0 | N. N. W. | 2.0 | |
| 3 | 0 | 0 | 29.298 | 11.0 | 9.7 | N. W. | 2.0 | |
| 4 | 0 | 0 | 29.296 | 11.4 | 10.4 | N. W. | 2.0 | |
| 5 | 0 | 0 | 29.278 | 13.4 | 12.4 | N. W. | 2.0 | |
| 6 | 0 | 0 | 29.268 | 14.8 | 13.4 | N. W. | 10.0 | |
| 7 | 0 | 0 | 29.264 | 15.7 | 13.6 | N. N. W. | 5.0 | |
| 8 | 0 | 0 | 29.246 | 15.4 | 14.2 | N. N. W. | 5.0 | |
| 9 | 0 | 0 | 29.264 | 16.0 | 15.3 | W. | 2.0 | |
| 10 | 0 | 0 | 29.277 | 16.3 | 15.6 | W. | 5.0 | |
| | | | 29.291 | 14.8 | 13.6 | N. W. b. W. | 7.0 | |

| April 19th and 20th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|---|----|----|---|-------------------|-------------------|-------------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'·721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 124·6 | 125·0 | 125·8 | 126·5 | 125·7 | 125·8 | 131·8 | 128·4 | 128·1 | 129·3 | 128·0 |
| 5 | 0 | | 124·5 | 125·3 | 125·7 | 126·2 | 125·6 | 126·1 | 131·7 | 130·0 | 129·0 | 129·8 | 128·2 |
| 10 | 0 | | 124·2 | 125·4 | 126·0 | 126·1 | 125·9 | 126·2 | 131·6 | 131·1 | 129·2 | 129·0 | 128·4 |
| 15 | 0 | | 124·5 | 125·3 | 125·9 | 126·1 | 125·7 | 126·1 | 131·1 | 131·3 | 130·7 | 128·8 | 128·5 |
| 20 | 0 | | 124·5 | 125·2 | 126·1 | 125·8 | 125·8 | 126·5 | 131·0 | 131·2 | 130·6 | 128·5 | 128·5 |
| 25 | 0 | | 124·7 | 125·3 | 125·9 | 125·7 | 126·7 | 126·2 | 129·7 | 130·1 | 130·6 | 128·7 | 128·5 |
| 30 | 0 | | 124·7 | 125·3 | 126·0 | 126·0 | 126·0 | 126·1 | 128·6 | 130·0 | 129·1 | 128·6 | 128·4 |
| 35 | 0 | | 124·8 | 125·6 | 126·0 | 126·0 | 126·0 | 126·2 | 127·9 | 130·0 | 128·5 | 128·2 | 128·6 |
| 40 | 0 | | 124·9 | 125·6 | 126·1 | 126·0 | 126·0 | 126·4 | 127·0 | 130·9 | 128·5 | 128·0 | 128·5 |
| 45 | 0 | | 124·9 | 125·7 | 126·2 | 125·7 | 125·9 | 126·2 | 126·5 | 130·8 | 128·5 | 127·5 | 128·5 |
| 50 | 0 | | 125·0 | 125·7 | 126·5 | 125·9 | 125·7 | 126·8 | 126·4 | 128·7 | 129·1 | 127·5 | 128·5 |
| 55 | 0 | | 125·0 | 125·9 | 126·6 | 125·8 | 125·9 | 131·1 | 127·0 | 127·2 | 129·5 | 127·5 | 128·4 |
| | | | One Scale Division = ·000099 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 747·3 | 746·0 | 745·6 | 744·6 | 744·2 | 742·6 | 744·6 | 744·3 | 746·2 | 740·8 | 740·6 |
| 7 | 0 | | 747·3 | 746·0 | 745·3 | 744·6 | 744·1 | 743·1 | 743·4 | 743·0 | 742·9 | 740·1 | 740·9 |
| 12 | 0 | | 746·6 | 745·5 | 745·0 | 744·3 | 744·4 | 743·8 | 743·1 | 741·1 | 740·5 | 738·5 | 740·4 |
| 17 | 0 | | 746·8 | 744·3 | 744·8 | 743·4 | 744·4 | 744·4 | 741·4 | 740·6 | 737·7 | 737·7 | 740·4 |
| 22 | 0 | | 747·3 | 744·8 | 745·0 | 744·1 | 744·6 | 744·2 | 740·0 | 739·8 | 735·7 | 737·5 | 740·4 |
| 27 | 0 | | 746·2 | 745·1 | 744·6 | 743·9 | 744·7 | 743·1 | 739·1 | 739·1 | 734·8 | 737·8 | 740·5 |
| 32 | 0 | | 747·1 | 745·0 | 744·1 | 744·2 | 745·1 | 743·1 | 738·8 | 738·5 | 734·4 | 738·0 | 740·9 |
| 37 | 0 | | 747·1 | 744·9 | 744·2 | 744·2 | 744·8 | 743·5 | 738·2 | 740·4 | 737·8 | 738·8 | 740·2 |
| 42 | 0 | | 747·0 | 744·7 | 744·4 | 744·4 | 744·1 | 743·3 | 739·7 | 745·7 | 739·5 | 739·6 | 740·4 |
| 47 | 0 | | 747·9 | 744·9 | 745·0 | 743·9 | 744·5 | 743·2 | 744·1 | 749·6 | 739·8 | 739·9 | 741·0 |
| 52 | 0 | | 748·2 | 745·5 | 744·3 | 744·3 | 744·5 | 743·0 | 745·7 | 749·1 | 741·5 | 740·3 | 739·6 |
| 57 | 0 | | 747·4 | 744·6 | 744·4 | 744·3 | 744·2 | 746·3 | 745·9 | 745·9 | 741·9 | 740·4 | 738·6 |
| Thermometer | | | 51·6 | 51·5 | 51·6 | 51·8 | 52·2 | 52·6 | 53·1 | 53·9 | 54·3 | 54·5 | 54·2 |
| | | | One Scale Division = ·000094 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 65·4 | 65·6 | 65·1 | 64·4 | 63·3 | 62·3 | 60·5 | 60·1 | 55·8 | 57·4 | 58·8 |
| 8 | 0 | | 65·4 | 65·4 | 65·1 | 64·2 | 63·1 | 62·3 | 60·7 | 59·1 | 55·6 | 57·4 | 58·8 |
| 13 | 0 | | 65·4 | 65·3 | 65·1 | 64·0 | 63·1 | 62·3 | 60·8 | 59·0 | 55·6 | 57·7 | 59·0 |
| 18 | 0 | | 65·4 | 65·2 | 65·1 | 64·0 | 63·0 | 62·3 | 60·8 | 59·0 | 56·0 | 57·7 | 58·6 |
| 23 | 0 | | 65·4 | 65·1 | 65·1 | 64·0 | 62·9 | 62·3 | 60·8 | 59·0 | 56·5 | 58·1 | 58·8 |
| 28 | 0 | | 65·4 | 65·0 | 65·1 | 64·0 | 62·9 | 62·3 | 61·0 | 59·3 | 56·9 | 58·1 | 58·8 |
| 33 | 0 | | 65·4 | 65·0 | 65·1 | 63·5 | 62·9 | 62·2 | 61·1 | 59·6 | 57·7 | 58·5 | 58·8 |
| 38 | 0 | | 65·4 | 65·0 | 64·8 | 63·5 | 62·8 | 62·2 | 61·3 | 59·5 | 58·0 | 58·5 | 58·6 |
| 43 | 0 | | 65·4 | 65·0 | 64·8 | 63·5 | 62·8 | 62·2 | 61·3 | 59·3 | 57·7 | 58·5 | 58·6 |
| 48 | 0 | | 65·4 | 65·0 | 64·8 | 63·4 | 62·8 | 62·2 | 61·7 | 57·6 | 57·7 | 58·7 | 58·6 |
| 53 | 0 | | 65·4 | 65·0 | 64·6 | 63·3 | 62·6 | 62·2 | 61·2 | 56·6 | 57·7 | 58·7 | 58·6 |
| 58 | 0 | | 65·4 | 65·1 | 64·6 | 63·3 | 62·6 | 61·0 | 60·6 | 56·4 | 57·4 | 58·8 | 58·6 |
| Thermometer | | | 50·9 | 51·1 | 50·8 | 51·2 | 51·7 | 52·3 | 53·1 | 53·4 | 54·3 | 53·8 | 54·0 |
| Increasing numbers denote decreasing Westerly Declination, and increasing | | | | | | | | | | | | | |
| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | | |
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | | | |
| 19 | 10 | 0 | 29·812 | 41·8 | 39·2 | E. N. E. | 0·5 | Overcast with cir-strat. and haze. | | | | | |
| | 11 | 0 | 29·813 | 41·0 | 38·6 | E. N. E. | 0·5 | Densely overcast with cir-strat. and haze. | | | | | |
| | 12 | 0 | 29·813 | 40·2 | 38·0 | E. N. E. | 0·5 | Densely overcast with cir-cum., cir-strat., and haze. | | | | | |
| | 13 | 0 | 29·810 | 39·9 | 37·9 | E. N. E. | 0·2 | Densely overcast with cir-cum., cir-strat., and haze. | | | | | |
| | 14 | 0 | 29·816 | 39·9 | 37·9 | — | 0·0 | Densely overcast; very dark. | | | | | |
| | 15 | 0 | 29·803 | 40·2 | 38·2 | — | 0·0 | Densely overcast. | | | | | |
| | 16 | 0 | 29·800 | 40·4 | 38·3 | — | 0·0 | Densely overcast; very dark. | | | | | |
| | 17 | 0 | 29·796 | 39·5 | 38·0 | — | 0·0 | Densely overcast; dark. | | | | | |
| | 18 | 0 | 29·793 | 38·2 | 37·2 | — | 0·0 | Partially clear to N. and in zenith; remainder thickly clouded. | | | | | |
| | 19 | 0 | 29·790 | 36·8 | 36·0 | — | 0·0 | Partially clear to N. and W.; remainder densely clouded with | | | | | |
| | 20 | 0 | 29·794 | 38·5 | 37·2 | — | 0·0 | Densely overcast with haze. | | | | | |
| | 21 | 0 | 29·804 | 39·4 | 37·5 | — | 0·0 | Densely overcast with cir-cum. and haze. [cir-cum.] | | | | | |

MAGNETICAL OBSERVATIONS.

April 19th and 20th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 128.2 | Sc. Div. 128.1 | Sc. Div. 129.1 | Sc. Div. 131.1 | Sc. Div. 133.4 | Sc. Div. 132.6 | Sc. Div. 129.9 | Sc. Div. 126.9 | Sc. Div. 124.0 | Sc. Div. 123.7 | Sc. Div. 124.4 | Sc. Div. 123.6 | Sc. Div. 123.2 |
| 128.0 | 128.8 | 129.0 | 131.3 | 133.3 | 132.1 | 129.6 | 126.5 | 124.0 | 123.4 | 124.0 | 124.2 | 123.2 |
| 128.3 | 129.1 | 129.0 | 131.9 | 134.4 | 132.3 | 129.8 | 125.9 | 124.0 | 123.7 | 123.9 | 123.6 | 123.2 |
| 127.5 | 128.9 | 129.6 | 131.9 | 133.7 | 132.5 | 129.4 | 125.0 | 124.0 | 123.8 | 123.9 | 124.1 | 123.5 |
| 127.6 | 128.2 | 130.0 | 132.5 | 132.9 | 132.1 | 129.0 | 125.5 | 123.7 | 123.8 | 123.9 | 124.1 | 123.9 |
| 127.6 | 128.1 | 130.1 | 132.8 | 133.5 | 131.5 | 128.3 | 124.5 | 123.8 | 123.8 | 123.8 | 124.0 | 124.0 |
| 127.5 | 128.0 | 130.0 | 134.6 | 133.0 | 130.6 | 127.9 | 124.5 | 123.3 | 124.0 | 123.7 | 123.7 | 124.0 |
| 127.8 | 128.8 | 130.0 | 133.8 | 133.1 | 130.7 | 128.0 | 124.6 | 123.9 | 124.0 | 123.8 | 123.6 | 124.0 |
| 127.1 | 128.8 | 130.1 | 134.1 | 133.3 | 130.5 | 126.9 | 124.2 | 123.5 | 124.0 | 123.9 | 123.3 | 124.0 |
| 127.8 | 129.2 | 130.6 | 134.0 | 133.4 | 130.9 | 127.9 | 124.1 | 123.5 | 124.0 | 123.7 | 123.2 | 124.0 |
| 127.9 | 129.2 | 130.7 | 134.2 | 132.6 | 130.2 | 126.9 | 124.0 | 123.4 | 124.0 | 123.8 | 123.1 | 124.0 |
| 128.0 | 129.3 | 130.9 | 134.2 | 132.2 | 130.0 | 127.0 | 124.1 | 123.2 | 124.0 | 123.8 | 123.0 | 124.2 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 739.8 | 741.1 | 740.6 | 739.7 | 737.4 | 734.6 | 730.2 | 729.7 | 732.0 | 735.0 | 738.1 | 740.3 | 742.0 |
| 739.1 | 741.0 | 740.1 | 739.1 | 736.0 | 733.4 | 731.0 | 730.0 | 732.0 | 735.0 | 738.9 | 741.1 | 742.0 |
| 739.9 | 741.0 | 740.3 | 740.0 | 736.9 | 734.3 | 729.5 | 729.5 | 732.2 | 734.9 | 737.2 | 740.8 | 742.9 |
| 740.0 | 742.0 | 740.3 | 739.1 | 737.2 | 733.0 | 729.1 | 728.8 | 733.1 | 735.2 | 738.0 | 741.0 | 743.8 |
| 740.4 | 740.5 | 740.4 | 737.8 | 735.5 | 731.6 | 729.1 | 729.5 | 733.2 | 735.2 | 737.4 | 739.3 | 745.3 |
| 740.5 | 739.9 | 740.0 | 739.1 | 736.0 | 731.7 | 729.4 | 730.0 | 733.9 | 735.0 | 739.4 | 741.4 | 744.5 |
| 740.9 | 740.2 | 739.8 | 739.5 | 737.8 | 731.5 | 728.9 | 729.7 | 734.4 | 734.8 | 738.1 | 740.9 | 746.0 |
| 740.0 | 740.7 | 740.1 | 739.2 | 736.4 | 732.7 | 728.2 | 729.7 | 735.0 | 735.8 | 738.6 | 742.0 | 745.6 |
| 739.9 | 740.6 | 740.0 | 739.4 | 735.9 | 733.0 | 729.3 | 730.5 | 735.6 | 736.5 | 738.8 | 741.8 | 744.2 |
| 740.0 | 740.9 | 739.5 | 739.3 | 736.4 | 731.6 | 729.7 | 730.5 | 735.0 | 737.0 | 739.0 | 742.2 | 744.1 |
| 740.8 | 741.4 | 739.9 | 738.7 | 736.8 | 731.7 | 729.7 | 730.2 | 734.7 | 738.1 | 741.4 | 742.0 | 745.5 |
| 741.5 | 741.0 | 739.9 | 738.3 | 735.5 | 730.4 | 729.5 | 731.1 | 734.2 | 737.7 | 737.9 | 742.0 | 745.7 |
| 53.8 | 53.9 | 53.9 | 53.5 | 53.3 | 53.0 | 52.8 | 52.8 | 53.5 | 54.0 | 54.4 | 55.2 | 56.0 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 58.6 | 60.3 | 61.0 | 60.7 | 61.0 | 61.0 | 60.8 | 61.1 | 60.5 | 60.6 | 61.4 | 60.8 | 60.7 |
| 58.9 | 60.3 | 60.9 | 60.7 | 60.8 | 60.9 | 60.8 | 61.1 | 60.5 | 60.6 | 61.4 | 60.8 | 60.4 |
| 58.9 | 60.3 | 60.9 | 60.7 | 60.8 | 61.1 | 60.6 | 61.0 | 60.4 | 60.6 | 61.4 | 60.8 | 60.4 |
| 59.3 | 66.3 | 60.9 | 60.7 | 60.8 | 61.4 | 60.6 | 61.0 | 60.5 | 60.6 | 61.3 | 60.9 | 60.4 |
| 59.3 | 60.3 | 60.7 | 60.5 | 61.6 | 60.8 | 60.9 | 60.8 | 60.5 | 60.6 | 61.3 | 60.9 | 60.8 |
| 59.3 | 60.3 | 60.7 | 60.5 | 61.4 | 60.8 | 60.9 | 60.8 | 60.6 | 60.6 | 61.3 | 60.9 | 60.8 |
| 59.3 | 60.8 | 60.7 | 60.5 | 61.2 | 60.8 | 60.9 | 60.8 | 60.6 | 60.6 | 60.6 | 60.9 | 60.8 |
| 60.0 | 60.8 | 60.7 | 60.5 | 61.0 | 60.8 | 60.9 | 60.5 | 60.8 | 60.6 | 60.6 | 60.9 | 60.8 |
| 60.0 | 60.8 | 60.7 | 61.2 | 60.8 | 60.9 | 61.1 | 60.6 | 60.7 | 60.9 | 61.0 | 60.9 | 60.5 |
| 60.3 | 60.8 | 60.7 | 60.9 | 61.2 | 61.0 | 61.1 | 60.4 | 60.7 | 60.9 | 60.5 | 60.9 | 60.5 |
| 60.3 | 61.0 | 60.7 | 60.9 | 61.1 | 60.8 | 61.0 | 60.4 | 60.7 | 60.9 | 60.5 | 60.9 | 60.5 |
| 60.3 | 61.0 | 60.7 | 61.0 | 61.0 | 60.8 | 61.1 | 60.6 | 60.7 | 60.9 | 60.5 | 60.7 | 60.5 |
| 54.2 | 54.2 | 54.2 | 54.0 | 53.6 | 53.4 | 53.2 | 53.2 | 53.7 | 54.2 | 54.6 | 55.0 | 55.3 ^a |

Horizontal and Vertical Force.

^a At 20^d 10^h Thermometer of H. F. 56°·6; of V. F. 55°·0.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|---|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 19 | 22 | 0 | 29.824 | 39.4 | 37.8 | — | 0.0 | Densely clouded. |
| | 23 | 0 | 29.834 | 39.0 | 37.6 | — | 0.0 | .1 clear in E.; remainder densely clouded cir.-cum. and haze. |
| 20 | 0 | 0 | 29.844 | 39.4 | 38.0 | — | 0.0 | Densely clouded with cir.-strat. and haze. |
| | 1 | 0 | 29.882 | 40.2 | 38.6 | — | 0.0 | Densely overcast with cir.-strat. and haze. |
| | 2 | 0 | 29.880 | 40.7 | 39.1 | — | 0.0 | Densely overcast with cir.-strat. and haze. |
| | 3 | 0 | 29.893 | 41.8 | 39.8 | — | 0.0 | Densely overcast with cir.-strat. and haze. |
| | 4 | 0 | 29.909 | 42.7 | 40.4 | — | 0.0 | Densely overcast with cir.-cum., cir.-strat., and haze. |
| | 5 | 0 | 29.888 | 46.7 | 44.0 | — | 0.0 | Partially overcast with cir.-strat. and cir.-cum.; fair. |
| | 6 | 0 | 29.870 | 46.6 | 44.4 | S. | 0.5 | .3 clear; partially overcast with cir. and cir.-strat.; fair. |
| | 7 | 0 | 29.855 | 48.5 | 45.4 | S. | 0.5 | .2 clear; remainder light flexuous cir.; fair. |
| | 8 | 0 | 29.858 | 48.8 | 45.0 | S. | 0.2 | .8 clear; remainder light flexuous cir. in S. |
| | 9 | 0 | 29.863 | 51.2 | 47.8 | S. | 0.2 | .5 clear; remainder light cir. in S. and S.W. |
| | 10 | 0 | 29.861 | 52.4 | 48.6 | S. | 0.2 | .5 clear; light cir. in W; fair. |

| May 26th and 27th. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 118.9 | 122.9 | 123.9 | 124.0 | 124.2 | 123.0 | 121.3 | 124.8 | 124.0 | 125.3 | 127.1 |
| 5 | 0 | 115.3 | 123.1 | 123.8 | 123.1 | 125.1 | 123.2 | 121.7 | 124.8 | 124.0 | 125.0 | 127.0 |
| 10 | 0 | 113.8 | 124.0 | 124.2 | 121.6 | 125.9 | 124.2 | 123.0 | 124.5 | 124.0 | 125.0 | 127.0 |
| 15 | 0 | 115.0 | 125.0 | 124.0 | 120.8 | 125.5 | 125.2 | 123.6 | 124.4 | 124.0 | 125.1 | 127.2 |
| 20 | 0 | 112.5 | 126.0 | 123.8 | 120.0 | 125.3 | 125.1 | 124.4 | 124.5 | 124.0 | 125.0 | 127.9 |
| 25 | 0 | 111.9 | 126.8 | 124.9 | 120.2 | 124.9 | 124.5 | 124.6 | 124.7 | 124.0 | 125.8 | 127.6 |
| 30 | 0 | 113.0 | 127.1 | 124.9 | 121.0 | 124.6 | 122.5 | 124.8 | 124.8 | 124.3 | 126.0 | 127.8 |
| 35 | 0 | 115.6 | 127.0 | 125.2 | 122.0 | 125.3 | 121.6 | 125.0 | 124.1 | 125.0 | 126.0 | 127.8 |
| 40 | 0 | 118.5 | 126.2 | 125.2 | 123.4 | 125.5 | 121.4 | 124.9 | 124.0 | 125.0 | 126.0 | 128.1 |
| 45 | 0 | 120.3 | 125.9 | 125.1 | 123.9 | 124.9 | 121.4 | 124.5 | 124.0 | 124.7 | 126.0 | 128.2 |
| 50 | 0 | 121.8 | 125.1 | 124.3 | 123.6 | 125.1 | 121.7 | 124.5 | 124.0 | 125.0 | 126.2 | 127.6 |
| 55 | 0 | 122.1 | 124.7 | 124.0 | 123.9 | 123.9 | 121.5 | 124.9 | 124.0 | 124.6 | 126.6 | 128.0 |

| | | One Scale Division = .000099 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 819.5 | 804.7 | 825.0 | 813.5 | 811.0 | 810.4 | 814.9 | 818.9 | 820.0 | 819.0 | 818.8 |
| 7 | 0 | 832.9 | 810.6 | 821.8 | 812.8 | 812.8 | 809.8 | 815.9 | 818.8 | 820.0 | 820.0 | 818.5 |
| 12 | 0 | 845.6 | 816.6 | 820.8 | 812.9 | 813.5 | 811.1 | 817.3 | 818.5 | 820.1 | 820.0 | 818.0 |
| 17 | 0 | 840.3 | 821.9 | 826.9 | 811.0 | 813.6 | 812.9 | 816.6 | 819.8 | 820.4 | 819.5 | 818.1 |
| 22 | 0 | 829.3 | 826.8 | 827.8 | 809.8 | 816.5 | 813.9 | 816.1 | 819.1 | 820.0 | 819.0 | 818.0 |
| 27 | 0 | 819.7 | 830.3 | 824.7 | 808.1 | 815.4 | 815.0 | 815.5 | 818.8 | 819.1 | 818.6 | 818.0 |
| 32 | 0 | 810.2 | 829.1 | 822.1 | 806.3 | 814.3 | 815.3 | 816.1 | 819.9 | 818.2 | 818.5 | 818.5 |
| 37 | 0 | 801.4 | 829.6 | 816.1 | 806.8 | 814.8 | 815.5 | 816.4 | 820.9 | 819.4 | 819.0 | 818.0 |
| 42 | 0 | 795.5 | 829.8 | 816.2 | 809.7 | 813.1 | 815.6 | 816.6 | 820.9 | 819.8 | 819.0 | 818.0 |
| 47 | 0 | 797.3 | 826.3 | 815.0 | 810.4 | 813.0 | 815.7 | 817.2 | 820.9 | 820.5 | 819.0 | 820.0 |
| 52 | 0 | 795.8 | 827.2 | 813.3 | 810.0 | 813.3 | 816.3 | 817.3 | 820.8 | 819.0 | 818.9 | 819.1 |
| 57 | 0 | 796.6 | 826.9 | 814.0 | 810.0 | 812.5 | 815.1 | 818.4 | 821.0 | 818.0 | 819.0 | 818.5 |

| Thermometer | 59.8 | 59.7 | 59.3 | 59.0 | 59.2 | 59.4 | 59.5 | 59.5 | 59.7 | 59.5 | 59.4 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000094 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|----|----|---|------|------|------|------|-----------------|------|------|------|------|------|
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 57.4 | 55.9 | 56.9 | 58.1 | 58.2 | 54.7 | 52.4 | 49.7 | 50.0 | 50.0 | 50.0 |
| 8 | 0 | 60.7 | 56.2 | 56.7 | 58.1 | 57.6 | 54.7 | 52.3 | 49.8 | 49.9 | 50.0 | 50.0 |
| 13 | 0 | 61.3 | 56.2 | 56.3 | 58.9 | 57.2 | 54.7 | 52.3 | 49.7 | 49.9 | 50.0 | 50.0 |
| 18 | 0 | 59.8 | 57.1 | 57.2 | 58.9 | 56.5 | 54.3 | 52.0 | 49.3 | 50.4 | 50.0 | 50.0 |
| 23 | 0 | 58.9 | 57.3 | 57.2 | 59.2 | 56.2 | 53.7 | 51.7 | 49.3 | 50.4 | 50.0 | 50.0 |
| 28 | 0 | 58.5 | 57.1 | 57.1 | 59.5 | 56.0 | 53.7 | 51.7 | 49.3 | 50.4 | 50.0 | 50.3 |
| 33 | 0 | 58.0 | 57.3 | 56.8 | 59.4 | 56.0 | 53.1 | 51.7 | 49.8 | 50.1 | 50.0 | 50.3 |
| 38 | 0 | 57.1 | 57.3 | 56.8 | 59.3 | 55.7 | 53.0 | 51.1 | 49.6 | 50.0 | 50.0 | 50.3 |
| 43 | 0 | 56.6 | 57.3 | 57.2 | 59.3 | 55.1 | 53.0 | 50.9 | 49.6 | 50.0 | 50.0 | 50.3 |
| 48 | 0 | 55.9 | 57.0 | 57.4 | 58.7 | 55.2 | 52.7 | 50.7 | 49.5 | 50.0 | 50.0 | 50.8 |
| 53 | 0 | 54.9 | 56.9 | 57.4 | 58.6 | 55.0 | 52.5 | 50.2 | 49.5 | 50.0 | 50.0 | 50.7 |
| 58 | 0 | 54.9 | 56.9 | 57.5 | 58.4 | 55.0 | 52.4 | 49.9 | 49.5 | 50.0 | 50.0 | 50.7 |

| Thermometer | 59.4 | 59.7 | 59.5 | 59.1 | 59.5 | 60.0 | 61.0 | 61.3 | 62.0 | 62.5 | 61.5 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| A. | H. | M. | In. | ° | ° | | lbs. | |
| 26 | 10 | 0 | 29.324 | 54.1 | 53.1 | E. | 0.5 | Overcast with cir. and haze. |
| | 11 | 0 | 29.332 | 53.9 | 53.1 | E. | 0.5 | Densely overcast. [moderate thunder, passing over from W. |
| | 12 | 0 | 29.322 | 52.4 | 51.8 | E. | 0.5 | Densely overcast; smart showers of rain, accompanied with |
| | 13 | 0 | 29.278 | 53.2 | 52.5 | E. | 0.2 | Densely overcast and light fog. |
| | 14 | 0 | 29.279 | 52.5 | 51.9 | E. | 0.2 | Thick fog. [the horizon, with distant thunder; air close. |
| | 15 | 0 | 29.230 | 53.6 | 53.1 | — | 0.0 | Densely overcast; incessant sheet lightning round the whole of |
| | 16 | 0 | 29.278 | 53.9 | 53.4 | — | 0.0 | Densely overcast; incessant sheet lightning round the whole of |
| | 17 | 0 | 29.280 | 54.4 | 54.2 | — | 0.0 | the horizon, with distant thunder; air close. |
| | 18 | 0 | 29.288 | 52.0 | 51.6 | — | 0.0 | Densely overcast; incessant sheet lightning round the whole of |
| | 19 | 0 | 29.310 | 50.6 | 50.0 | — | 0.0 | the horizon, with distant thunder; air close. |
| | 20 | 0 | 29.310 | 52.0 | 51.4 | — | 0.0 | Densely overcast; incessant sheet lightning round the entire hori- |
| | 21 | 0 | 29.320 | 53.4 | 52.4 | — | 0.0 | Densely clouded. [zon; distant thunder; air close; very dark. |
| | | | | | | | | Densely clouded. |

| MAGNETICAL OBSERVATIONS. | | | | | | | | | | | | May 26th and 27th. | | |
|--------------------------|-------------------|-------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|------------------|------------------|--------------------|----------|----------|
| DECLINATION. | | | | | | Angular Value of one Scale Division = 0'.721. | | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | | |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 128.1 | 130.1 | 131.2 | 133.6 | 134.1 | 134.0 | 130.4 | 128.0 | 121.6 | 118.3 | 115.9 | 117.4 | 120.2 | | |
| 128.3 | 129.1 | 131.1 | 133.4 | 134.0 | 133.3 | 130.0 | 128.0 | 121.3 | 118.1 | 115.3 | 117.0 | 120.7 | | |
| 129.0 | 131.2 | 132.2 | 133.5 | 134.0 | 132.8 | 130.0 | 127.8 | 120.8 | 118.0 | 115.2 | 117.4 | 120.8 | | |
| 129.2 | 130.6 | 131.6 | 133.8 | 135.0 | 132.9 | 129.5 | 126.0 | 120.5 | 117.1 | 115.8 | 118.3 | 121.8 | | |
| 129.6 | 130.6 | 131.6 | 133.7 | 134.8 | 132.3 | 129.9 | 126.0 | 120.3 | 116.8 | 115.9 | 119.0 | 121.9 | | |
| 129.8 | 132.8 | 132.0 | 133.7 | 134.3 | 131.7 | 129.1 | 125.2 | 120.1 | 116.2 | 116.2 | 119.2 | 122.0 | | |
| 130.0 | 133.7 | 132.4 | 134.0 | 134.9 | 131.9 | 127.4 | 124.1 | 118.9 | 116.1 | 116.4 | 119.7 | 122.3 | | |
| 130.1 | 131.2 | 132.7 | 132.9 | 134.0 | 132.0 | 127.0 | 123.6 | 117.2 | 115.9 | 116.5 | 119.7 | 122.7 | | |
| 130.8 | 130.2 | 132.7 | 134.0 | 133.2 | 132.2 | 126.9 | 122.6 | 118.5 | 116.1 | 116.4 | 119.4 | 123.1 | | |
| 130.3 | 130.1 | 133.1 | 134.0 | 133.8 | 132.0 | 126.5 | 122.7 | 119.6 | 116.0 | 116.8 | 119.8 | 123.2 | | |
| 129.8 | 131.3 | 133.1 | 134.4 | 133.9 | 131.9 | 125.9 | 122.1 | 119.5 | 116.0 | 116.8 | 119.8 | 123.3 | | |
| 132.1 | 130.3 | 133.0 | 134.3 | 134.1 | 130.9 | 128.0 | 121.9 | 119.1 | 116.1 | 117.3 | 119.8 | 123.9 | | |

| HORIZONTAL FORCE. | | | | | | | | | | | | Change in the Magnetic moment of the Bar for 1 Fah°. = .00027. | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| 819.0 | 817.8 | 810.8 | 809.9 | 808.9 | 807.9 | 803.3 | 804.3 | 807.9 | 815.4 | 819.0 | 825.2 | 823.6 | | |
| 819.0 | 816.1 | 808.7 | 809.8 | 808.4 | 808.2 | 804.0 | 804.1 | 808.5 | 816.0 | 818.2 | 827.3 | 823.5 | | |
| 818.7 | 818.0 | 811.2 | 809.7 | 809.1 | 807.2 | 803.7 | 804.0 | 809.1 | 816.2 | 819.0 | 829.7 | 824.5 | | |
| 819.0 | 816.8 | 812.1 | 809.5 | 808.9 | 807.1 | 803.4 | 803.9 | 809.6 | 816.0 | 820.1 | 825.0 | 822.7 | | |
| 819.2 | 813.9 | 812.2 | 809.1 | 808.5 | 807.5 | 803.5 | 802.3 | 809.9 | 815.0 | 822.0 | 822.1 | 822.0 | | |
| 819.0 | 809.2 | 811.6 | 809.2 | 808.6 | 807.5 | 803.1 | 803.3 | 810.2 | 815.0 | 822.0 | 820.7 | 822.5 | | |
| 819.6 | 811.1 | 811.8 | 809.0 | 807.9 | 807.2 | 804.9 | 803.5 | 811.2 | 815.0 | 822.2 | 820.8 | 823.2 | | |
| 818.8 | 812.0 | 811.1 | 808.0 | 808.5 | 806.2 | 803.6 | 804.4 | 812.4 | 816.4 | 822.8 | 820.5 | 821.4 | | |
| 818.9 | 811.8 | 810.6 | 808.8 | 807.6 | 805.8 | 803.7 | 804.2 | 814.4 | 818.0 | 823.2 | 820.2 | 818.7 | | |
| 818.5 | 812.0 | 810.0 | 808.8 | 808.1 | 805.1 | 804.0 | 805.1 | 816.1 | 819.0 | 823.0 | 820.0 | 818.5 | | |
| 813.7 | 812.0 | 810.1 | 808.6 | 808.2 | 803.0 | 803.9 | 806.6 | 816.1 | 820.5 | 823.7 | 819.3 | 819.1 | | |
| 815.3 | 811.0 | 810.0 | 808.7 | 808.0 | 803.1 | 802.8 | 807.9 | 815.6 | 820.0 | 823.7 | 819.5 | 819.9 | | |
| 59.0 | 59.2 | 59.2 | 58.6 | 58.4 | 58.3 | 58.3 | 58.5 | 58.8 | 59.8 | 59.5 | 59.6 | 59.6 ^a | | |

| VERTICAL FORCE. | | | | | | | | | | | | Change in the Magnetic moment of the Bar for 1° Fah°. = .00007. | | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|---|--|--|
| 50.7 | 51.8 | 52.3 | 53.0 | 53.1 | 52.8 | 52.8 | 52.1 | 51.7 | 51.0 | 51.4 | 52.1 | 54.2 | | |
| 50.7 | 51.6 | 52.4 | 53.6 | 53.1 | 52.8 | 52.8 | 51.6 | 51.7 | 51.2 | 50.8 | 52.4 | 54.2 | | |
| 50.7 | 51.6 | 52.9 | 53.1 | 53.0 | 52.8 | 52.8 | 51.6 | 51.6 | 51.2 | 50.8 | 52.4 | 54.0 | | |
| 51.0 | 51.6 | 52.9 | 53.0 | 53.0 | 52.9 | 52.8 | 51.6 | 51.6 | 50.8 | 50.8 | 51.9 | 53.9 | | |
| 51.0 | 51.6 | 52.9 | 53.0 | 52.9 | 52.9 | 52.8 | 51.5 | 51.2 | 50.8 | 51.8 | 51.9 | 53.5 | | |
| 51.8 | 51.3 | 52.9 | 53.0 | 52.9 | 52.9 | 52.8 | 51.9 | 51.2 | 50.8 | 51.3 | 51.9 | 53.5 | | |
| 51.4 | 51.7 | 53.9 | 53.1 | 52.9 | 52.9 | 52.8 | 51.9 | 51.2 | 50.8 | 51.3 | 52.2 | 53.5 | | |
| 51.4 | 51.8 | 52.8 | 53.2 | 52.9 | 52.9 | 52.3 | 51.5 | 51.2 | 50.8 | 51.9 | 52.2 | 53.4 | | |
| 51.4 | 51.8 | 53.2 | 53.2 | 53.0 | 52.7 | 52.4 | 51.5 | 51.2 | 51.0 | 51.8 | 52.4 | 53.3 | | |
| 51.5 | 51.8 | 53.1 | 53.2 | 53.0 | 52.8 | 52.4 | 51.5 | 51.2 | 51.0 | 51.8 | 52.9 | 53.3 | | |
| 50.9 | 51.8 | 53.1 | 53.2 | 52.9 | 52.8 | 52.1 | 51.5 | 51.0 | 51.4 | 51.6 | 52.9 | 53.3 | | |
| 51.8 | 51.8 | 53.1 | 53.1 | 52.8 | 52.8 | 52.1 | 51.5 | 51.0 | 51.4 | 52.1 | 52.9 | 53.6 | | |
| 60.0 | 59.7 | 59.3 | 59.2 | 59.0 | 59.0 | 58.9 | 59.0 | 59.0 | 59.1 | 59.5 | 59.6 | 59.6 ^a | | |

^a At 27^d 10^h Thermometer of H. F. 59°·4; of V. F. 59°·5.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|--------|---|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | |
| 26 | 22 | 0 | 29.336 | 51.2 | 50.2 | — | 0.0 | Densely clouded; cir.-cum. and cum.-strat. | | | |
| | 23 | 0 | 29.372 | 54.5 | 52.4 | S. W. | 1.0 | Densely clouded; cir.-cum., cum.-strat. and haze. | | | |
| 27 | 0 | 0 | 29.397 | 53.8 | 49.8 | S. W. | 1.0 | Densely clouded; cum.-strat. and haze. | | | |
| | 1 | 0 | 29.428 | 53.1 | 49.7 | S. W. | 0.5 | Densely clouded; cum.-strat. and haze. | | | |
| | 2 | 0 | 29.439 | 53.5 | 49.4 | S. W. | 1.0 | Densely clouded; cum.-strat., cir.-cum. and haze. | | | |
| | 3 | 0 | 29.447 | 55.5 | 50.8 | W. S. W. | 0.5 | Densely clouded; cum.-strat., cir.-cum. and haze. | | | |
| | 4 | 0 | 29.438 | 56.7 | 51.1 | W. S. W. | 1.0 | Densely clouded; cum.-strat. and haze. | | | |
| | 5 | 0 | 29.445 | 56.4 | 50.5 | W. S. W. | 0.5 | Densely clouded; cum.-strat. and haze. | | | |
| | 6 | 0 | 29.450 | 56.6 | 50.5 | W. S. W. | 1.0 | Clouded; cir.-cum., cum.-strat. and haze. | | | |
| | 7 | 0 | 29.480 | 56.4 | 50.6 | S. W. | 1.0 | Clouded; cir.-cum., cum.-strat. and haze. | | | |
| | 8 | 0 | 29.502 | 56.1 | 50.1 | W. S. W. | 1.0 | Densely clouded; cum.-strat. and haze. | | | |
| | 9 | 0 | 29.522 | 55.7 | 49.9 | W. S. W. | 1.0 | Densely clouded; cum.-strat. and haze. | | | |
| | 10 | 0 | 29.526 | 55.5 | 49.5 | W. | 1.0 | Densely clouded; cum.-strat. and haze. | | | |

| June 21st and 22nd. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | | |
|----------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0' · 721. | | | | | | | | | | DECLINATION. | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 118·9 | 120·9 | 123·2 | 122·4 | 122·8 | 127·0 | 126·0 | 125·2 | 126·9 | 125·5 | 125·0 | |
| 5 | 0 | 118·9 | 121·3 | 122·9 | 122·4 | 122·8 | 126·0 | 126·0 | 125·1 | 126·7 | 126·4 | 124·8 | |
| 10 | 0 | 119·2 | 121·8 | 122·8 | 122·2 | 122·7 | 125·6 | 125·1 | 125·4 | 126·1 | 126·6 | 124·5 | |
| 15 | 0 | 119·9 | 121·8 | 122·8 | 122·9 | 123·0 | 125·2 | 124·0 | 125·8 | 126·4 | 126·3 | 125·1 | |
| 20 | 0 | 120·0 | 122·0 | 122·8 | 122·9 | 124·7 | 125·3 | 124·2 | 126·0 | 126·3 | 126·0 | 125·2 | |
| 25 | 0 | 120·0 | 121·8 | 122·6 | 123·0 | 125·7 | 126·0 | 124·8 | 126·2 | 126·4 | 126·1 | 125·7 | |
| 30 | 0 | 120·3 | 122·0 | 122·8 | 122·6 | 125·8 | 126·3 | 125·5 | 126·0 | 126·5 | 125·5 | 125·8 | |
| 35 | 0 | 120·5 | 122·2 | 122·7 | 122·6 | 126·0 | 126·7 | 125·8 | 125·9 | 126·4 | 125·4 | 126·2 | |
| 40 | 0 | 120·7 | 122·5 | 122·8 | 123·0 | 126·1 | 126·2 | 125·5 | 125·9 | 126·7 | 125·4 | 126·4 | |
| 45 | 0 | 120·9 | 122·8 | 122·4 | 122·9 | 127·0 | 126·2 | 125·2 | 126·0 | 126·8 | 125·3 | 126·0 | |
| 50 | 0 | 121·2 | 123·0 | 122·8 | 123·3 | 127·6 | 126·2 | 125·2 | 126·1 | 125·9 | 125·2 | 126·2 | |
| 55 | 0 | 120·8 | 123·2 | 122·8 | 123·0 | 127·4 | 125·9 | 125·5 | 126·7 | 125·6 | 125·0 | 126·0 | |
| | | One Scale Division = ·000099 parts of the H. F. | | | | | | | | | | HORIZONTAL FORCE. | |
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | 842·8 | 835·4 | 840·9 | 838·5 | 839·4 | 840·2 | 841·5 | 838·7 | 839·9 | 839·8 | 840·9 | |
| 7 | 0 | 843·3 | 839·8 | 841·7 | 837·4 | 839·6 | 839·9 | 841·3 | 837·9 | 840·0 | 839·8 | 841·5 | |
| 12 | 0 | 844·4 | 840·6 | 839·9 | 837·5 | 839·2 | 839·3 | 841·1 | 838·5 | 839·7 | 839·3 | 841·2 | |
| 17 | 0 | 842·8 | 840·6 | 840·1 | 837·8 | 838·6 | 839·0 | 841·0 | 838·7 | 839·9 | 839·8 | 841·2 | |
| 22 | 0 | 842·0 | 838·2 | 839·7 | 838·0 | 839·9 | 838·8 | 840·1 | 839·3 | 839·7 | 840·1 | 841·6 | |
| 27 | 0 | 841·3 | 837·1 | 839·1 | 839·5 | 841·0 | 840·3 | 840·0 | 840·0 | 839·8 | 840·2 | 841·2 | |
| 32 | 0 | 841·2 | 839·0 | 838·3 | 839·7 | 841·4 | 841·1 | 840·0 | 838·8 | 839·7 | 839·5 | 841·0 | |
| 37 | 0 | 840·8 | 839·0 | 839·6 | 839·7 | 844·3 | 842·4 | 840·0 | 838·2 | 839·5 | 838·7 | 840·2 | |
| 42 | 0 | 841·6 | 841·6 | 838·8 | 839·7 | 841·8 | 842·6 | 839·4 | 838·5 | 840·1 | 839·0 | 840·0 | |
| 47 | 0 | 841·0 | 842·2 | 838·8 | 838·5 | 840·2 | 841·9 | 838·8 | 839·2 | 840·3 | 839·0 | 840·0 | |
| 52 | 0 | 839·8 | 842·0 | 839·5 | 839·2 | 839·7 | 841·2 | 839·0 | 838·7 | 840·0 | 839·4 | 840·0 | |
| 57 | 0 | 836·0 | 841·2 | 839·1 | 839·5 | 840·5 | 841·0 | 838·6 | 839·1 | 840·0 | 839·9 | 839·8 | |
| Thermometer | | 74·5 | 74·8 | 74·8 | 74·6 | 73·8 | 73·5 | 73·1 | 72·6 | 72·4 | 72·4 | 72·0 | |
| | | One Scale Division = ·000094 parts of the V. F. | | | | | | | | | | VERTICAL FORCE. | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | 31·0 | 29·5 | 30·8 | 30·5 | 30·6 | 29·2 | 29·7 | 30·7 | 29·4 | 28·9 | 29·9 | |
| 8 | 0 | 30·9 | 30·1 | 30·6 | 30·8 | 30·6 | 29·2 | 29·8 | 30·7 | 29·4 | 28·7 | 29·9 | |
| 13 | 0 | 31·0 | 30·3 | 30·4 | 30·8 | 30·2 | 29·2 | 30·1 | 30·4 | 29·4 | 28·7 | 29·9 | |
| 18 | 0 | 30·7 | 30·3 | 30·4 | 30·8 | 30·1 | 29·4 | 30·3 | 30·2 | 29·4 | 28·7 | 29·9 | |
| 23 | 0 | 29·9 | 30·2 | 30·5 | 30·7 | 30·1 | 29·4 | 30·3 | 30·2 | 29·5 | 28·7 | 29·6 | |
| 28 | 0 | 30·8 | 30·6 | 30·4 | 29·8 | 30·1 | 29·7 | 30·3 | 30·2 | 29·5 | 28·7 | 29·6 | |
| 33 | 0 | 30·1 | 29·5 | 30·6 | 30·8 | 30·0 | 29·7 | 30·3 | 29·8 | 29·5 | 29·4 | 28·8 | |
| 38 | 0 | 29·8 | 30·3 | 30·9 | 30·9 | 29·7 | 29·5 | 30·3 | 29·8 | 29·5 | 29·4 | 28·8 | |
| 43 | 0 | 30·0 | 30·6 | 30·6 | 30·9 | 29·1 | 29·5 | 30·6 | 29·6 | 29·5 | 29·9 | 28·6 | |
| 48 | 0 | 30·0 | 30·7 | 30·4 | 30·9 | 29·1 | 29·5 | 30·6 | 29·7 | 29·5 | 29·9 | 28·8 | |
| 53 | 0 | 29·9 | 30·7 | 30·7 | 30·8 | 29·2 | 29·5 | 30·6 | 29·7 | 28·9 | 30·2 | 28·6 | |
| 58 | 0 | 29·2 | 30·4 | 30·4 | 30·8 | 29·2 | 29·5 | 30·6 | 29·7 | 28·9 | 30·3 | 28·6 | |
| Thermometer | | 72·7 | 73·1 | 73·2 | 73·2 | 73·3 | 73·5 | 73·0 | 72·7 | 73·2 | 73·2 | 72·5 | |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 21 | 10 | 0 | 29·712 | 78·9 | 72·2 | S. | 0·5 | Light cir.-strat. and haze round horizon; zenith clear; fair. |
| | 11 | 0 | 29·696 | 77·7 | 69·7 | S. | 0·5 | Unclouded, but hazy; fair. |
| | 12 | 0 | 29·696 | 79·2 | 69·5 | S. | 0·5 | Unclouded; hazy round horizon; fair. |
| | 13 | 0 | 29·694 | 75·8 | 66·7 | S. | 0·5 | Haze and light strat. round horizon; zenith clear; fair. |
| | 14 | 0 | 29·683 | 70·2 | 63·8 | S. | 0·2 | Haze round horizon; remainder clear. |
| | 15 | 0 | 29·679 | 69·4 | 64·1 | — | 0·0 | Haze round horizon; remainder clear. |
| | 16 | 0 | 29·671 | 66·9 | 62·9 | — | 0·0 | Clear and unclouded. |
| | 17 | 0 | 29·669 | 64·7 | 62·4 | — | 0·0 | Clear and unclouded. |
| | 18 | 0 | 29·658 | 70·7 | 64·2 | S. | 0·5 | Clear and unclouded. |
| | 19 | 0 | 29·663 | 61·2 | 59·5 | S. | 0·2 | Clear and unclouded. |
| | 20 | 0 | 29·665 | 59·4 | 58·0 | — | 0·0 | Clear and unclouded. |
| | 21 | 0 | 29·670 | 58·4 | 57·4 | — | 0·0 | Clear and unclouded. |

MAGNETICAL OBSERVATIONS.

June 21st and 22nd.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 126.5 | 127.2 | 129.6 | 130.0 | 130.8 | 131.1 | 130.0 | 127.6 | 124.2 | 121.0 | 118.3 | 117.5 | 118.1 |
| 126.7 | 127.7 | 129.7 | 130.0 | 130.9 | 131.0 | 129.8 | 126.9 | 123.8 | 120.8 | 118.4 | 117.5 | 118.2 |
| 126.5 | 127.8 | 129.2 | 130.0 | 130.9 | 130.8 | 129.3 | 126.2 | 123.9 | 120.5 | 118.2 | 117.5 | 118.5 |
| 126.8 | 127.9 | 129.2 | 130.0 | 131.0 | 130.1 | 129.2 | 126.2 | 123.2 | 120.4 | 118.2 | 117.8 | 118.6 |
| 127.0 | 128.0 | 130.0 | 130.2 | 131.3 | 130.3 | 129.2 | 125.9 | 123.1 | 120.4 | 118.0 | 117.8 | 118.6 |
| 127.0 | 128.0 | 129.5 | 130.2 | 131.6 | 130.8 | 129.2 | 125.8 | 123.0 | 120.2 | 117.8 | 117.8 | 119.0 |
| 127.0 | 128.0 | 129.8 | 130.5 | 131.8 | 131.1 | 128.8 | 125.8 | 122.7 | 120.2 | 117.8 | 118.0 | 119.0 |
| 127.0 | 128.1 | 129.5 | 130.7 | 136.6 | 131.1 | 128.8 | 125.2 | 122.2 | 119.8 | 117.5 | 118.0 | 119.0 |
| 127.2 | 128.9 | 129.8 | 130.7 | 131.1 | 131.0 | 128.5 | 125.1 | 121.9 | 119.5 | 117.5 | 118.0 | 119.1 |
| 127.3 | 128.8 | 130.0 | 130.7 | 131.0 | 130.4 | 128.6 | 125.1 | 121.5 | 119.4 | 117.5 | 118.0 | 119.1 |
| 127.6 | 129.1 | 130.0 | 130.9 | 131.4 | 130.2 | 128.6 | 124.7 | 121.2 | 119.0 | 117.4 | 118.0 | 119.2 |
| 127.5 | 129.8 | 129.8 | 130.9 | 131.5 | 130.0 | 127.9 | 124.8 | 121.1 | 118.8 | 117.4 | 118.0 | 119.6 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 839.2 | 842.0 | 843.0 | 844.0 | 843.3 | 840.9 | 835.8 | 835.1 | 834.9 | 839.0 | 843.1 | 846.2 | 846.0 |
| 839.5 | 843.0 | 843.0 | 843.7 | 843.2 | 840.5 | 835.6 | 833.0 | 835.1 | 839.1 | 843.3 | 846.4 | 845.9 |
| 839.3 | 843.0 | 844.0 | 843.7 | 842.8 | 840.3 | 835.9 | 833.0 | 835.0 | 839.3 | 843.9 | 847.8 | 845.0 |
| 839.6 | 843.0 | 843.1 | 843.3 | 842.8 | 839.9 | 835.0 | 833.2 | 835.2 | 839.2 | 844.4 | 847.1 | 844.8 |
| 840.0 | 843.0 | 843.5 | 843.6 | 842.3 | 839.5 | 834.7 | 833.2 | 836.0 | 840.0 | 844.4 | 847.3 | 845.0 |
| 840.0 | 843.0 | 844.0 | 843.7 | 842.1 | 839.3 | 834.7 | 833.8 | 836.7 | 840.0 | 844.8 | 847.0 | 845.6 |
| 840.0 | 843.8 | 844.0 | 844.0 | 842.3 | 838.7 | 834.5 | 833.0 | 836.5 | 840.9 | 845.0 | 848.0 | 845.1 |
| 840.0 | 844.0 | 844.0 | 844.0 | 841.9 | 837.9 | 834.4 | 833.6 | 837.0 | 841.8 | 845.1 | 848.0 | 845.0 |
| 841.0 | 844.0 | 844.0 | 844.0 | 841.5 | 837.4 | 834.3 | 833.8 | 837.6 | 842.3 | 845.3 | 848.0 | 845.0 |
| 841.0 | 843.1 | 844.0 | 843.4 | 841.3 | 837.1 | 834.8 | 834.0 | 838.0 | 842.4 | 845.7 | 847.5 | 845.0 |
| 841.7 | 843.0 | 844.0 | 843.6 | 840.9 | 836.9 | 835.1 | 833.9 | 838.5 | 842.4 | 846.0 | 847.0 | 844.6 |
| 842.0 | 843.0 | 844.0 | 843.3 | 841.0 | 836.1 | 834.8 | 834.6 | 838.8 | 843.1 | 846.7 | 847.0 | 844.1 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 71.5 | 70.5 | 69.5 | 69.8 | 70.7 | 72.0 | 72.3 | 72.8 | 73.5 | 74.0 | 74.5 | 75.0 | 76.5 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 29.2 | 32.1 | 35.3 | 34.9 | 33.5 | 32.9 | 31.6 | 30.3 | 29.3 | 28.8 | 29.2 | 27.8 | 27.6 |
| 29.5 | 32.1 | 35.3 | 34.9 | 33.5 | 32.9 | 31.4 | 30.3 | 29.3 | 28.5 | 29.2 | 27.6 | 27.6 |
| 29.5 | 32.5 | 35.6 | 34.9 | 33.3 | 32.8 | 31.2 | 30.3 | 29.3 | 28.5 | 28.9 | 27.6 | 27.6 |
| 29.5 | 32.5 | 35.6 | 34.9 | 33.3 | 32.8 | 31.2 | 30.3 | 29.3 | 28.5 | 28.8 | 27.6 | 27.7 |
| 29.5 | 33.2 | 35.6 | 34.9 | 33.3 | 32.8 | 30.9 | 30.2 | 29.2 | 28.7 | 28.8 | 27.6 | 27.8 |
| 30.3 | 33.2 | 35.6 | 34.4 | 33.3 | 32.4 | 30.9 | 30.1 | 29.2 | 28.7 | 28.6 | 27.6 | 27.7 |
| 30.7 | 34.1 | 35.6 | 34.4 | 33.3 | 32.4 | 30.8 | 29.9 | 29.2 | 29.1 | 28.3 | 27.6 | 27.7 |
| 30.7 | 34.1 | 35.6 | 34.4 | 33.3 | 32.3 | 30.6 | 29.7 | 29.2 | 29.1 | 28.1 | 27.6 | 27.7 |
| 31.3 | 34.6 | 35.6 | 34.1 | 33.0 | 32.2 | 30.6 | 29.5 | 29.1 | 29.0 | 28.1 | 27.6 | 27.7 |
| 31.5 | 34.6 | 35.6 | 34.1 | 33.0 | 32.1 | 30.6 | 29.5 | 28.8 | 29.0 | 28.0 | 27.6 | 27.7 |
| 31.5 | 35.0 | 35.6 | 33.6 | 33.0 | 31.8 | 30.3 | 29.5 | 28.8 | 29.0 | 28.2 | 27.6 | 27.7 |
| 31.5 | 35.3 | 35.9 | 33.6 | 33.0 | 31.6 | 30.3 | 29.3 | 28.8 | 29.2 | 28.2 | 27.6 | 27.7 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 72.9 | 72.7 | 70.0 | 69.9 | 70.3 | 71.1 | 71.4 | 71.8 | 72.5 | 72.8 | 73.3 | 74.3 | 74.8 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 22^d 10^h thermometer of H. F. 76°·6; of V. F. 75°·3.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 21 | 22 | 0 | 29.669 | 56.6 | 55.6 | — | 0.0 | Unclouded; hazy. |
| | 23 | 0 | 29.677 | 55.6 | 55.8 | — | 0.0 | Unclouded; hazy. |
| 22 | 0 | 0 | 29.683 | 59.8 | 59.0 | — | 0.0 | Unclouded; hazy. |
| | 1 | 0 | 29.675 | 65.0 | 62.1 | S. | 0.2 | Unclouded; hazy. |
| | 2 | 0 | 29.666 | 67.6 | 64.5 | S. | 0.2 | Unclouded; hazy. |
| | 3 | 0 | 29.660 | 67.9 | 64.5 | S. | 0.5 | Light cir. in S.; remainder hazy; fair. |
| | 4 | 0 | 29.651 | 71.9 | 67.3 | S. | 0.5 | Flexuous cir. scattered; hazy; fair. |
| | 5 | 0 | 29.644 | 73.7 | 68.4 | S. | 0.5 | Flexuous cum. along N. horizon; fair. |
| | 6 | 0 | 29.631 | 73.7 | 68.4 | S. | 0.5 | Flexuous cum. along N. horizon; fair. |
| | 7 | 0 | 29.598 | 78.2 | 71.2 | S. | 0.5 | Flexuous cum. along N. horizon; fair. |
| | 8 | 0 | 29.592 | 78.8 | 71.5 | S. | 0.5 | Cir. and cir.-cum. generally round horizon; fair. |
| | 9 | 0 | 29.566 | 81.6 | 71.8 | S. | 0.5 | Hazy; light cir. and dense haze round horizon. |
| | 10 | 0 | 29.551 | 81.4 | 70.6 | S. | 0.5 | Hazy; light cir. and haze on S. horizon. |

| July 19th and 20th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|--|----|----|---|-------------------|-------------------|-------------------|-------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | | DECLINATION. | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | | 121.0 | 123.7 | 125.8 | 125.9 | 125.1 | 125.5 | 126.5 | 127.5 | 125.6 | 125.0 | 125.0 |
| 5 | 0 | | 120.8 | 124.0 | 125.6 | 125.9 | 125.0 | 125.6 | 127.1 | 127.1 | 125.5 | 125.0 | 125.5 |
| 10 | 0 | | 121.0 | 125.0 | 125.7 | 125.8 | 125.1 | 125.9 | 127.8 | 127.9 | 125.1 | 125.0 | 125.8 |
| 15 | 0 | | 121.3 | 125.3 | 126.2 | 125.5 | 125.3 | 126.0 | 128.4 | 128.0 | 124.7 | 125.0 | 126.0 |
| 20 | 0 | | 121.8 | 125.6 | 126.1 | 125.4 | 125.9 | 126.2 | 128.8 | 128.2 | 125.1 | 125.2 | 126.0 |
| 25 | 0 | | 122.1 | 125.5 | 126.2 | 125.4 | 125.9 | 126.2 | 129.2 | 127.5 | 125.1 | 125.0 | 126.1 |
| 30 | 0 | | 122.7 | 126.0 | 125.8 | 125.6 | 125.7 | 126.2 | 129.4 | 127.3 | 125.0 | 125.1 | 126.0 |
| 35 | 0 | | 122.8 | 126.0 | 125.7 | 125.6 | 125.5 | 125.7 | 128.1 | 128.0 | 125.2 | 125.0 | 125.8 |
| 40 | 0 | | 122.9 | 126.0 | 125.5 | 125.4 | 125.3 | 126.4 | 128.8 | 127.3 | 125.4 | 124.1 | 126.0 |
| 45 | 0 | | 123.0 | 126.0 | 125.5 | 125.6 | 125.8 | 126.9 | 128.4 | 126.5 | 125.1 | 123.5 | 125.5 |
| 50 | 0 | | 123.0 | 126.1 | 125.5 | 125.1 | 125.7 | 127.2 | 127.5 | 125.9 | 125.0 | 123.8 | 125.0 |
| 55 | 0 | | 123.3 | 126.1 | 125.3 | 125.0 | 125.6 | 126.3 | 127.6 | 126.0 | 125.0 | 124.0 | 124.6 |
| | | | One Scale Division = .000099 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 904.5 | 907.1 | 901.3 | 901.7 | 901.6 | 900.6 | 895.0 | 893.5 | 899.9 | 903.4 | 905.6 |
| 7 | 0 | | 904.1 | 908.6 | 901.0 | 902.0 | 901.7 | 900.9 | 895.9 | 892.7 | 900.8 | 904.0 | 906.5 |
| 12 | 0 | | 904.6 | 908.9 | 901.9 | 901.9 | 901.1 | 901.0 | 896.0 | 893.4 | 901.0 | 904.3 | 905.0 |
| 17 | 0 | | 905.1 | 909.1 | 902.1 | 902.5 | 903.0 | 900.7 | 895.3 | 894.7 | 901.5 | 904.8 | 905.5 |
| 22 | 0 | | 906.4 | 908.1 | 901.8 | 902.3 | 903.1 | 900.0 | 894.3 | 895.1 | 902.8 | 906.6 | 906.8 |
| 27 | 0 | | 905.9 | 909.0 | 901.2 | 902.7 | 903.0 | 901.1 | 893.8 | 895.5 | 902.7 | 905.3 | 907.1 |
| 32 | 0 | | 906.2 | 906.7 | 900.6 | 903.2 | 902.0 | 901.9 | 894.8 | 895.8 | 902.4 | 906.8 | 905.3 |
| 37 | 0 | | 905.9 | 905.9 | 900.7 | 903.0 | 901.8 | 900.4 | 894.2 | 899.2 | 903.0 | 906.1 | 906.9 |
| 42 | 0 | | 905.9 | 904.0 | 900.7 | 903.7 | 902.1 | 899.9 | 894.0 | 899.6 | 903.8 | 906.3 | 906.6 |
| 47 | 0 | | 905.2 | 903.9 | 900.8 | 902.6 | 903.0 | 900.7 | 894.8 | 899.8 | 903.0 | 905.8 | 907.0 |
| 52 | 0 | | 905.0 | 902.9 | 901.6 | 901.4 | 901.5 | 898.4 | 893.4 | 899.6 | 902.9 | 907.0 | 906.0 |
| 57 | 0 | | 905.8 | 902.1 | 901.4 | 902.1 | 899.9 | 897.3 | 893.2 | 900.4 | 903.5 | 905.6 | 906.5 |
| Thermometer | | | 72.3 | 72.6 | 72.6 | 72.1 | 71.3 | 70.9 | 70.2 | 69.5 | 68.6 | 68.0 | 67.5 |
| | | | One Scale Division = .000094 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 30.3 | 30.4 | 30.4 | 30.6 | 29.5 | 28.7 | 28.9 | 28.8 | 30.0 | 30.5 | 31.3 |
| 8 | 0 | | 30.3 | 30.4 | 30.4 | 30.6 | 29.5 | 28.7 | 29.3 | 28.8 | 30.2 | 30.5 | 31.3 |
| 13 | 0 | | 30.3 | 30.7 | 30.4 | 30.6 | 29.0 | 28.7 | 29.3 | 28.8 | 30.1 | 30.5 | 31.3 |
| 18 | 0 | | 30.3 | 30.7 | 30.4 | 30.6 | 28.9 | 28.7 | 29.3 | 28.8 | 30.1 | 31.1 | 31.3 |
| 23 | 0 | | 30.3 | 30.6 | 30.4 | 30.6 | 28.8 | 28.7 | 29.3 | 28.8 | 30.1 | 31.1 | 31.3 |
| 28 | 0 | | 30.5 | 30.6 | 34.4 | 30.6 | 28.8 | 28.7 | 29.1 | 28.8 | 30.1 | 31.1 | 31.3 |
| 33 | 0 | | 30.5 | 30.6 | 30.4 | 30.6 | 28.7 | 28.9 | 29.1 | 29.1 | 30.1 | 31.1 | 31.7 |
| 38 | 0 | | 30.5 | 30.4 | 30.4 | 30.6 | 28.7 | 28.9 | 29.1 | 29.8 | 30.1 | 31.1 | 31.7 |
| 43 | 0 | | 30.5 | 30.4 | 30.3 | 30.6 | 28.7 | 28.9 | 28.8 | 30.0 | 30.2 | 31.3 | 31.7 |
| 48 | 0 | | 30.5 | 30.4 | 30.3 | 30.1 | 28.7 | 28.9 | 28.8 | 30.0 | 30.2 | 31.3 | 31.7 |
| 53 | 0 | | 30.4 | 30.4 | 30.3 | 29.8 | 28.7 | 28.9 | 28.8 | 30.0 | 30.4 | 31.3 | 31.7 |
| 58 | 0 | | 30.4 | 30.4 | 30.6 | 29.8 | 28.7 | 28.9 | 28.8 | 30.0 | 30.5 | 31.3 | 31.7 |
| Thermometer | | | 71.2 | 71.4 | 71.3 | 71.0 | 71.0 | 71.5 | 70.9 | 70.7 | 70.1 | 69.3 | 68.7 |
| Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force. | | | | | | | | | | | | | |
| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | | |
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | | | |
| 19 | 10 | 0 | 29.603 | 69.8 | 55.6 | N. by E. | 1.0 | Clear and unclouded. | | | | | |
| | 11 | 0 | 29.583 | 70.7 | 56.0 | N. N. E. | 0.5 | Clear and unclouded. | | | | | |
| | 12 | 0 | 29.611 | 71.0 | 57.8 | N. by E. | 0.5 | Clear and unclouded. | | | | | |
| | 13 | 0 | 29.625 | 65.8 | 55.1 | N. | 0.2 | Clear and unclouded. | | | | | |
| | 14 | 0 | 29.638 | 59.4 | 5.0 | N. | 0.5 | Clear and unclouded. | | | | | |
| | 15 | 0 | 29.650 | 56.2 | 48.8 | N. | 0.5 | Clear and unclouded. | | | | | |
| | 16 | 0 | 29.659 | 54.8 | 48.0 | N. | 0.5 | Clear and unclouded. | | | | | |
| | 17 | 0 | 29.662 | 53.6 | 47.6 | N. | 1.0 | Clear and unclouded. | | | | | |
| | 18 | 0 | 29.675 | 52.8 | 47.8 | N. | 0.5 | Clear and unclouded. | | | | | |
| | 19 | 0 | 29.668 | 51.8 | 47.8 | — | 0.0 | Clear and unclouded. | | | | | |
| | 20 | 0 | 29.677 | 51.4 | 47.8 | — | 0.0 | Clear and unclouded. | | | | | |
| | 21 | 0 | 29.679 | 50.4 | 47.0 | — | 0.6 | Clear and unclouded. | | | | | |

MAGNETICAL OBSERVATIONS.

July 19th and 20th.

DECLINATION.

Angular Value of one Scale Division = 0' 721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Se. Div. 124·0 | Se. Div. 125·7 | Se. Div. 129·1 | Se. Div. 131·2 | Se. Div. 131·3 | Se. Div. 131·9 | Se. Div. 130·2 | Se. Div. 126·8 | Se. Div. 122·5 | Se. Div. 118·2 | Se. Div. 116·2 | Se. Div. 116·8 | Se. Div. 118·8 |
| 124·0 | 126·4 | 130·0 | 131·3 | 131·4 | 131·9 | 130·0 | 126·8 | 121·5 | 118·0 | 115·8 | 116·9 | 118·9 |
| 124·0 | 126·8 | 130·1 | 131·1 | 131·5 | 132·0 | 129·4 | 126·3 | 121·4 | 117·8 | 115·7 | 117·0 | 119·1 |
| 124·2 | 126·9 | 130·2 | 131·3 | 131·7 | 132·0 | 128·9 | 126·2 | 120·7 | 117·7 | 115·8 | 117·0 | 119·3 |
| 124·0 | 127·0 | 130·3 | 131·3 | 131·8 | 132·0 | 128·5 | 126·1 | 120·5 | 117·6 | 115·7 | 117·0 | 119·7 |
| 124·3 | 127·1 | 131·0 | 131·3 | 131·6 | 132·0 | 128·1 | 125·4 | 120·2 | 117·0 | 115·5 | 117·1 | 119·9 |
| 124·9 | 128·0 | 131·2 | 131·2 | 131·4 | 131·8 | 127·9 | 125·2 | 120·4 | 117·0 | 115·9 | 117·2 | 120·1 |
| 125·2 | 127·9 | 131·2 | 131·7 | 131·3 | 131·7 | 127·9 | 124·5 | 119·3 | 117·1 | 116·0 | 117·8 | 120·2 |
| 125·1 | 128·0 | 132·0 | 131·9 | 131·6 | 131·2 | 128·0 | 124·1 | 119·1 | 117·0 | 116·1 | 118·0 | 120·7 |
| 125·2 | 128·2 | 132·3 | 131·8 | 132·1 | 131·0 | 127·4 | 123·6 | 119·0 | 116·8 | 116·2 | 118·0 | 121·1 |
| 125·5 | 128·2 | 132·3 | 131·6 | 132·1 | 130·9 | 127·2 | 123·2 | 118·4 | 117·8 | 116·5 | 118·2 | 121·8 |
| 125·9 | 127·9 | 131·9 | 131·9 | 131·8 | 130·6 | 126·7 | 122·6 | 118·1 | 117·6 | 116·5 | 118·4 | 121·9 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = '00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 905·9 | 906·0 | 906·9 | 909·4 | 908·7 | 904·8 | 903·0 | 896·3 | 895·8 | 901·4 | 905·0 | 908·0 | 913·7 |
| 906·6 | 906·7 | 904·9 | 910·0 | 908·2 | 904·3 | 902·9 | 896·1 | 896·6 | 901·6 | 905·9 | 907·9 | 913·9 |
| 906·5 | 905·8 | 905·5 | 909·8 | 907·7 | 903·9 | 902·5 | 895·4 | 896·7 | 901·0 | 905·6 | 909·1 | 914·1 |
| 906·5 | 906·4 | 906·7 | 909·7 | 907·3 | 904·0 | 902·3 | 894·9 | 897·0 | 902·0 | 905·3 | 909·3 | 914·2 |
| 906·3 | 905·8 | 904·7 | 909·7 | 907·6 | 903·2 | 901·8 | 894·8 | 897·7 | 904·5 | 906·0 | 909·0 | 914·9 |
| 906·9 | 906·3 | 907·1 | 909·7 | 907·0 | 902·9 | 901·1 | 894·5 | 898·4 | 903·8 | 906·3 | 909·8 | 914·7 |
| 906·1 | 907·2 | 908·2 | 909·7 | 906·9 | 902·5 | 900·3 | 895·0 | 898·5 | 904·0 | 906·5 | 910·5 | 914·2 |
| 906·5 | 907·4 | 908·6 | 909·7 | 906·5 | 902·4 | 900·1 | 895·0 | 899·0 | 904·0 | 907·0 | 911·0 | 914·1 |
| 906·3 | 907·3 | 907·4 | 909·7 | 905·6 | 901·8 | 900·0 | 894·7 | 899·5 | 904·8 | 908·0 | 911·1 | 914·5 |
| 905·4 | 907·0 | 908·5 | 909·8 | 905·5 | 901·9 | 898·5 | 894·6 | 900·0 | 905·3 | 908·0 | 911·1 | 915·8 |
| 906·3 | 909·0 | 907·8 | 909·2 | 905·3 | 902·2 | 897·7 | 895·1 | 900·3 | 905·1 | 908·0 | 911·4 | 915·9 |
| 906·3 | 907·5 | 909·6 | 909·2 | 904·6 | 902·5 | 897·0 | 895·8 | 900·8 | 904·9 | 908·0 | 912·7 | 915·1 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 67·0 | 66·6 | 65·6 | 66·0 | 66·5 | 67·5 | 68·1 | 68·5 | 68·8 | 69·0 | 68·8 | 69·0 | 69·3 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 31·7 | 31·9 | 33·8 | 34·1 | 33·5 | 33·2 | 32·7 | 31·7 | 31·5 | 32·0 | 32·5 | 33·2 | 33·6 |
| 31·7 | 31·8 | 33·9 | 33·8 | 33·5 | 33·2 | 32·6 | 31·7 | 31·5 | 32·0 | 32·5 | 33·2 | 33·6 |
| 31·7 | 31·8 | 34·5 | 33·8 | 33·5 | 33·2 | 32·6 | 31·7 | 31·5 | 32·0 | 32·8 | 33·2 | 33·6 |
| 32·0 | 32·0 | 34·4 | 33·5 | 33·5 | 33·1 | 32·5 | 31·7 | 31·5 | 32·0 | 32·8 | 33·4 | 33·6 |
| 31·7 | 32·2 | 34·3 | 33·5 | 33·5 | 33·1 | 32·3 | 31·7 | 31·5 | 31·8 | 32·8 | 33·4 | 33·6 |
| 31·6 | 32·2 | 34·2 | 33·5 | 33·5 | 33·1 | 32·3 | 31·7 | 31·5 | 32·0 | 32·9 | 33·5 | 33·4 |
| 31·5 | 32·2 | 33·7 | 33·5 | 33·5 | 33·1 | 32·2 | 31·7 | 31·5 | 32·0 | 33·0 | 38·5 | 33·4 |
| 31·5 | 32·2 | 34·2 | 33·5 | 33·5 | 32·8 | 32·2 | 31·7 | 31·5 | 32·1 | 33·0 | 33·5 | 33·4 |
| 31·5 | 32·3 | 34·2 | 33·5 | 33·5 | 32·7 | 32·1 | 31·6 | 31·7 | 32·1 | 33·0 | 33·5 | 33·4 |
| 31·4 | 33·0 | 34·5 | 33·5 | 33·5 | 32·7 | 32·0 | 31·6 | 31·8 | 32·3 | 33·2 | 33·5 | 33·4 |
| 31·8 | 33·7 | 34·3 | 33·5 | 33·2 | 32·7 | 31·9 | 31·5 | 31·8 | 32·1 | 33·2 | 33·5 | 33·2 |
| 31·9 | 33·7 | 34·1 | 33·5 | 33·2 | 32·7 | 31·9 | 31·5 | 31·8 | 32·7 | 33·2 | 33·5 | 33·1 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 68·2 | 67·9 | 66·5 | 66·9 | 66·8 | 67·2 | 67·4 | 67·6 | 68·0 | 68·2 | 68·3 | 68·3 | 68·5 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 20^d 10^h thermometer of H. F. 69°·8; of V. F. 68°·8.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|------------|--------|--------------------------------------|
| | | Dry. | Wet. | Direction. | Force. | |
| D. H. M. | In. | ° | ° | | lbs. | |
| 19 22 0 | 29·702 | 49·0 | 45·7 | N. N. W. | 0·2 | Clear in zenith; hazy round horizon. |
| 23 0 | 29·723 | 45·9 | 44·2 | N. N. W. | 0·2 | Clear and unclouded. |
| 20 0 0 | 29·725 | 49·3 | 46·9 | — | 0·0 | Clear and unclouded. |
| 1 0 | 29·735 | 53·7 | 49·2 | N. by E. | 0·2 | Clear and unclouded. |
| 2 0 | 29·748 | 57·6 | 51·1 | N. | 0·2 | Clear and unclouded. |
| 3 0 | 29·752 | 59·5 | 51·2 | N. | 0·2 | Clear and unclouded. |
| 4 0 | 29·744 | 61·4 | 52·1 | N. | 0·2 | Clear and unclouded. |
| 5 0 | 29·728 | 62·8 | 54·6 | S. E. | 0·5 | Clear and unclouded. |
| 6 0 | 29·714 | 63·8 | 57·0 | S. E. | 1·0 | Clear and unclouded. |
| 7 0 | 29·702 | 65·9 | 57·9 | S. | 2·0 | Clear and unclouded. |
| 8 0 | 29·694 | 65·6 | 58·4 | S. | 1·0 | Clear and unclouded. |
| 9 0 | 29·671 | 68·1 | 59·2 | S. | 1·0 | Clear and unclouded. |
| 10 0 | 29·659 | 71·1 | 60·8 | S. | 0·5 | Clear and unclouded. |

| August 25th and 26th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-----------------------|----|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0 ^o .721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 122.2 | 124.7 | 125.2 | 123.9 | 124.0 | 130.2 | 135.0 | 122.0 | 123.4 | 118.7 | 117.4 |
| 5 | 0 | | 122.1 | 124.3 | 125.1 | 123.7 | 123.8 | 134.0 | 136.0 | 121.6 | 122.2 | 119.7 | 119.6 |
| 10 | 0 | | 122.6 | 124.1 | 124.3 | 123.3 | 123.8 | 135.0 | 135.1 | 122.0 | 122.0 | 122.1 | 121.1 |
| 15 | 0 | | 122.8 | 125.0 | 124.1 | 123.1 | 123.3 | 135.6 | 132.6 | 122.2 | 121.0 | 123.0 | 121.7 |
| 20 | 0 | | 122.9 | 124.9 | 123.7 | 123.9 | 123.1 | 135.0 | 129.6 | 122.0 | 121.3 | 123.8 | 122.6 |
| 25 | 0 | | 122.9 | 124.7 | 124.6 | 124.0 | 123.1 | 134.8 | 126.9 | 122.9 | 121.4 | 123.0 | 123.9 |
| 30 | 0 | | 123.1 | 124.7 | 124.3 | 124.0 | 123.7 | 135.0 | 126.8 | 123.0 | 122.0 | 120.2 | 123.8 |
| 35 | 0 | | 123.2 | 124.8 | 124.1 | 124.0 | 123.5 | 135.0 | 127.6 | 123.0 | 123.6 | 118.0 | 124.3 |
| 40 | 0 | | 123.6 | 124.5 | 124.0 | 124.0 | 123.4 | 134.3 | 129.0 | 123.6 | 126.2 | 116.8 | 124.7 |
| 45 | 0 | | 124.0 | 124.6 | 124.0 | 123.8 | 124.5 | 134.7 | 129.0 | 124.0 | 127.0 | 116.2 | 124.5 |
| 50 | 0 | | 124.6 | 124.5 | 123.8 | 124.1 | 126.6 | 134.5 | 126.6 | 124.0 | 125.9 | 117.0 | 125.1 |
| 55 | 0 | | 124.3 | 124.9 | 123.9 | 124.0 | 129.5 | 134.0 | 123.5 | 124.6 | 121.1 | 117.3 | 123.2 |
| | | | One Scale Division = .000099 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 958.4 | 956.6 | 951.3 | 947.3 | 950.1 | 938.0 | 951.4 | 947.6 | 947.9 | 947.8 | 949.5 |
| 7 | 0 | | 959.4 | 961.7 | 953.2 | 944.3 | 950.1 | 936.9 | 951.6 | 946.9 | 947.5 | 948.5 | 949.7 |
| 12 | 0 | | 961.0 | 959.2 | 952.5 | 942.0 | 949.9 | 938.4 | 951.3 | 945.9 | 950.6 | 948.8 | 949.9 |
| 17 | 0 | | 960.3 | 954.5 | 951.2 | 941.9 | 950.6 | 939.6 | 946.6 | 945.0 | 950.6 | 951.3 | 949.1 |
| 22 | 0 | | 961.3 | 950.7 | 948.2 | 943.2 | 950.3 | 940.9 | 944.0 | 945.0 | 949.9 | 952.1 | 948.5 |
| 27 | 0 | | 956.0 | 950.5 | 946.8 | 944.5 | 950.4 | 942.9 | 940.0 | 945.0 | 949.5 | 954.5 | 948.6 |
| 32 | 0 | | 953.3 | 950.7 | 947.6 | 945.3 | 950.2 | 941.1 | 938.6 | 945.0 | 947.9 | 955.7 | 946.8 |
| 37 | 0 | | 953.7 | 951.7 | 948.6 | 946.3 | 951.0 | 940.0 | 938.8 | 944.4 | 946.4 | 955.2 | 947.3 |
| 42 | 0 | | 951.5 | 953.4 | 949.3 | 946.8 | 951.3 | 940.9 | 940.9 | 944.0 | 945.8 | 954.4 | 948.3 |
| 47 | 0 | | 955.5 | 952.6 | 950.6 | 947.3 | 947.1 | 943.4 | 945.6 | 944.6 | 946.8 | 953.4 | 946.6 |
| 52 | 0 | | 957.5 | 951.7 | 950.2 | 948.3 | 945.9 | 947.9 | 947.0 | 945.0 | 949.7 | 951.8 | 948.1 |
| 57 | 0 | | 956.4 | 951.2 | 950.0 | 948.7 | 940.5 | 941.4 | 948.0 | 946.0 | 950.4 | 952.8 | 947.7 |
| Thermometer | | | 73.4 | 73.8 | 73.8 | 73.8 | 73.0 | 72.8 | 72.5 | 72.0 | 71.5 | 71.2 | 70.6 |
| | | | One Scale Division = .000094 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 26.1 | 26.3 | 25.5 | 23.5 | 22.7 | 21.5 | 22.3 | 23.8 | 24.2 | 20.4 | 20.5 |
| 8 | 0 | | 26.1 | 27.0 | 26.1 | 23.5 | 22.7 | 22.0 | 21.6 | 23.8 | 23.5 | 20.1 | 20.5 |
| 13 | 0 | | 26.7 | 26.3 | 25.8 | 22.5 | 22.7 | 22.0 | 21.6 | 23.8 | 23.6 | 20.1 | 20.5 |
| 18 | 0 | | 26.3 | 25.9 | 25.8 | 22.7 | 22.3 | 22.1 | 20.7 | 23.8 | 22.9 | 20.9 | 20.7 |
| 23 | 0 | | 26.3 | 25.4 | 25.8 | 23.1 | 22.6 | 22.7 | 20.7 | 23.8 | 22.9 | 20.9 | 20.7 |
| 28 | 0 | | 26.2 | 25.3 | 25.7 | 23.2 | 22.3 | 22.9 | 21.9 | 23.8 | 22.9 | 20.4 | 21.9 |
| 33 | 0 | | 26.2 | 25.4 | 25.6 | 23.2 | 22.3 | 22.9 | 21.9 | 24.2 | 22.9 | 20.4 | 21.7 |
| 38 | 0 | | 26.2 | 25.3 | 25.6 | 23.1 | 22.2 | 22.9 | 23.1 | 24.2 | 22.4 | 19.4 | 21.5 |
| 43 | 0 | | 26.0 | 25.8 | 24.8 | 22.9 | 21.8 | 23.5 | 23.6 | 24.2 | 22.2 | 19.4 | 21.7 |
| 48 | 0 | | 26.1 | 25.7 | 24.3 | 22.9 | 21.7 | 23.5 | 23.6 | 24.2 | 21.9 | 19.4 | 21.7 |
| 53 | 0 | | 26.9 | 25.7 | 24.2 | 22.9 | 21.5 | 23.5 | 23.6 | 24.2 | 21.9 | 19.1 | 21.9 |
| 58 | 0 | | 26.4 | 25.5 | 23.7 | 22.9 | 21.5 | 23.5 | 23.6 | 24.2 | 21.1 | 19.0 | 21.5 |
| Thermometer | | | 71.9 | 72.3 | 72.3 | 73.3 | 73.7 | 73.9 | 72.7 | 72.8 | 72.5 | 72.0 | 71.3 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|--------|---|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | | |
| 25 | 10 | 0 | 29.652 | 74.2 | 67.6 | E. by S. | 0.5 | Clouded; light cir., cir-cum. and haze. | | | | |
| | 11 | 0 | 29.641 | 72.8 | 68.4 | E. by S. | 0.5 | Overcast; cir. and haze. | | | | |
| | 12 | 0 | 29.631 | 71.1 | 67.4 | E. by S. | 0.2 | Overcast; light cir., strat. and haze. | | | | |
| | 13 | 0 | 29.631 | 67.8 | 65.8 | — | 0.0 | Overcast; dense haze. | | | | |
| | 14 | 0 | 29.636 | 64.0 | 62.7 | — | 0.0 | Overcast; dense haze. | | | | |
| | 15 | 0 | 29.639 | 62.2 | 61.0 | — | 0.0 | Unclouded but hazy. | | | | |
| | 16 | 0 | 29.625 | 60.8 | 59.6 | — | 0.0 | Clear and unclouded. | | | | |
| | 17 | 0 | 29.625 | 59.8 | 58.8 | — | 0.0 | Clear and unclouded. | | | | |
| | 18 | 0 | 29.625 | 58.4 | 57.8 | — | 0.0 | Clear and unclouded. | | | | |
| | 19 | 0 | 29.628 | 56.9 | 55.3 | — | 0.0 | Clear and unclouded. | | | | |
| | 20 | 0 | 29.630 | 56.6 | 55.2 | — | 0.0 | Clear and unclouded. | | | | |
| | 21 | 0 | 29.632 | 56.2 | 55.5 | — | 0.0 | Zenith clear; hazy round horizon. | | | | |

MAGNETICAL OBSERVATIONS.

August 25th and 26th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 126.2 | Sc. Div. 127.0 | Sc. Div. 127.3 | Sc. Div. 129.1 | Sc. Div. 133.5 | Sc. Div. 133.8 | Sc. Div. 130.9 | Sc. Div. 124.0 | Sc. Div. 118.9 | Sc. Div. 112.8 | Sc. Div. 112.4 | Sc. Div. 115.0 | Sc. Div. 118.8 |
| 126.2 | 126.2 | 128.1 | 129.0 | 134.7 | 134.3 | 130.8 | 124.0 | 118.1 | 112.7 | 112.7 | 115.5 | 119.0 |
| 127.0 | 127.1 | 129.5 | 129.2 | 134.5 | 133.3 | 130.0 | 123.6 | 117.5 | 112.5 | 113.1 | 115.9 | 120.0 |
| 127.5 | 125.8 | 129.7 | 129.3 | 134.4 | 133.8 | 130.0 | 123.0 | 117.0 | 112.2 | 113.2 | 116.2 | 120.8 |
| 126.8 | 126.2 | 129.1 | 130.6 | 136.1 | 133.2 | 129.4 | 122.1 | 116.7 | 112.2 | 113.4 | 116.5 | 121.0 |
| 126.0 | 125.1 | 128.2 | 131.0 | 135.8 | 132.6 | 129.0 | 122.0 | 115.9 | 111.9 | 113.6 | 117.0 | 121.5 |
| 127.9 | 124.9 | 128.3 | 132.5 | 135.0 | 132.2 | 127.6 | 121.5 | 115.8 | 112.0 | 113.8 | 117.0 | 121.9 |
| 127.4 | 125.0 | 127.9 | 132.7 | 135.3 | 132.1 | 127.0 | 121.0 | 115.6 | 112.0 | 114.1 | 117.2 | 122.1 |
| 127.8 | 125.4 | 126.7 | 132.6 | 134.7 | 132.1 | 126.1 | 120.6 | 115.2 | 112.0 | 114.3 | 118.0 | 122.5 |
| 128.0 | 125.6 | 127.3 | 134.1 | 134.4 | 130.6 | 126.6 | 120.0 | 114.3 | 112.2 | 114.8 | 118.0 | 122.8 |
| 128.3 | 126.0 | 127.0 | 134.0 | 134.5 | 129.7 | 125.0 | 119.3 | 114.0 | 112.6 | 114.8 | 118.2 | 122.9 |
| 126.1 | 126.3 | 128.2 | 134.8 | 134.5 | 129.8 | 125.0 | 119.0 | 113.2 | 112.2 | 115.0 | 118.4 | 123.0 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 946.7 | 946.1 | 949.1 | 946.0 | 945.8 | 939.6 | 932.3 | 928.4 | 933.0 | 942.9 | 953.9 | 959.2 | 954.0 |
| 947.4 | 945.5 | 948.1 | 946.0 | 947.6 | 938.5 | 931.5 | 928.8 | 934.1 | 944.0 | 955.0 | 959.3 | 951.0 |
| 947.6 | 945.6 | 947.7 | 946.9 | 943.7 | 937.1 | 931.3 | 930.0 | 934.5 | 945.3 | 955.4 | 959.4 | 951.5 |
| 948.6 | 943.7 | 949.0 | 948.1 | 943.9 | 935.9 | 930.6 | 930.0 | 935.1 | 946.9 | 955.9 | 961.6 | 956.9 |
| 946.4 | 946.4 | 948.2 | 947.2 | 944.0 | 936.4 | 929.9 | 930.0 | 935.6 | 948.1 | 955.9 | 961.3 | 959.2 |
| 945.2 | 946.2 | 947.1 | 948.6 | 943.7 | 935.5 | 928.4 | 930.0 | 936.8 | 948.8 | 956.4 | 960.9 | 959.0 |
| 946.0 | 947.9 | 946.2 | 948.4 | 943.4 | 936.0 | 929.6 | 930.0 | 938.0 | 950.1 | 956.1 | 961.3 | 958.8 |
| 946.2 | 949.1 | 943.0 | 948.9 | 942.2 | 936.0 | 928.9 | 930.3 | 938.9 | 950.3 | 956.8 | 961.3 | 957.0 |
| 944.3 | 949.0 | 943.3 | 947.1 | 941.4 | 935.3 | 928.2 | 930.9 | 940.0 | 951.3 | 957.6 | 960.9 | 957.5 |
| 943.5 | 949.1 | 944.6 | 947.4 | 941.5 | 934.1 | 928.7 | 930.8 | 941.0 | 951.9 | 958.5 | 958.3 | 958.5 |
| 944.8 | 949.9 | 943.3 | 947.6 | 939.7 | 934.8 | 927.8 | 932.0 | 940.9 | 952.2 | 958.6 | 956.0 | 956.2 |
| 941.0 | 948.2 | 944.5 | 947.4 | 940.0 | 931.9 | 928.0 | 932.5 | 941.6 | 952.7 | 959.3 | 954.8 | 955.6 |
| 70.3 | 70.0 | 69.5 | 69.2 | 69.0 | 69.2 | 70.0 | 70.6 | 72.0 | 73.4 | 74.6 | 75.6 | 76.4 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 21.9 | 23.3 | 26.2 | 28.0 | 28.4 | 27.9 | 26.4 | 26.5 | 26.1 | 24.5 | 23.4 | 23.6 | 23.2 |
| 22.1 | 23.9 | 26.1 | 27.9 | 28.1 | 27.6 | 26.5 | 26.5 | 25.8 | 24.6 | 23.4 | 23.6 | 22.9 |
| 22.4 | 23.9 | 26.1 | 29.3 | 27.9 | 27.6 | 26.5 | 26.5 | 25.8 | 24.1 | 23.4 | 23.6 | 22.9 |
| 22.4 | 24.5 | 26.1 | 29.3 | 27.6 | 27.5 | 26.5 | 26.7 | 25.4 | 24.1 | 23.4 | 23.7 | 23.5 |
| 22.0 | 24.5 | 26.2 | 29.6 | 27.6 | 27.5 | 26.5 | 26.7 | 25.4 | 24.1 | 23.1 | 23.7 | 23.5 |
| 22.2 | 24.5 | 26.2 | 29.0 | 28.0 | 27.5 | 26.5 | 26.5 | 25.3 | 23.8 | 23.4 | 23.7 | 23.8 |
| 22.6 | 23.9 | 26.9 | 29.0 | 28.0 | 27.5 | 26.5 | 26.5 | 25.3 | 23.8 | 23.4 | 23.7 | 23.7 |
| 22.6 | 26.7 | 27.0 | 28.8 | 27.9 | 27.5 | 26.5 | 26.5 | 25.3 | 23.8 | 23.4 | 23.7 | 23.5 |
| 22.5 | 26.7 | 27.4 | 28.8 | 27.9 | 27.2 | 26.5 | 26.5 | 25.3 | 23.5 | 23.4 | 23.6 | 23.5 |
| 22.5 | 26.7 | 27.4 | 28.8 | 27.9 | 27.0 | 26.5 | 26.2 | 24.8 | 23.5 | 23.4 | 23.4 | 24.0 |
| 22.9 | 26.7 | 27.4 | 28.8 | 27.9 | 27.0 | 26.5 | 26.1 | 24.8 | 23.5 | 23.6 | 23.2 | 23.5 |
| 23.1 | 26.8 | 28.0 | 28.8 | 27.9 | 26.9 | 26.5 | 26.1 | 24.5 | 23.5 | 23.6 | 23.2 | 23.2 |
| 71.5 | 71.5 | 70.7 | 69.5 | 69.5 | 69.5 | 69.9 | 70.3 | 70.8 | 72.1 | 73.3 | 74.1 | 74.9 ^a |

^a At 26^d 10^h Thermometer of H. F. 76°·6; of V. F. 75°·3.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | Zenith clear; hazy round horizon. [rising from the ground. Cir. and light cir.-cum. in zenith; dense haze round horizon; a mist Bank of well-defined cir.-cum. from W. to N.E. altitude at centre about 55° Cir.-cum. in close arrangement in zenith; remainder cir. and haze. [hazy A clear space in zenith; remainder overcast with cir.-cum. and haze; Unclouded but hazy. Unclouded but hazy. Zenith hazy; cum-strat. and haze round horizon; fair. Generally light haze; light cir.-cum. and haze round horizon; fair. Generally overcast; light cir.-cum. and haze; fair. Overcast; light cir.-cum. and haze; air close; fair. Overcast; cir.-cum. and haze; air close; fair. Overcast; cir.-cum. and haze; fair. |
| 25 | 22 | 0 | 29.625 | 56.4 | 54.8 | — | 0.0 | |
| | 23 | 0 | 29.638 | 55.2 | 54.5 | — | 0.0 | |
| 26 | 0 | 0 | 29.651 | 55.6 | 55.2 | — | 0.0 | |
| | 1 | 0 | 29.657 | 61.0 | 60.2 | — | 0.0 | |
| | 2 | 0 | 29.667 | 66.0 | 63.5 | — | 0.0 | |
| | 3 | 0 | 29.667 | 69.7 | 65.8 | — | 0.0 | |
| | 4 | 0 | 29.673 | 72.4 | 68.2 | — | 0.2 | |
| | 5 | 0 | 29.676 | 74.2 | 69.6 | S. | 0.2 | |
| | 6 | 0 | 29.674 | 77.3 | 71.3 | S. | 0.2 | |
| | 7 | 0 | 29.666 | 80.8 | 72.3 | S. E. | 0.2 | |
| | 8 | 0 | 29.657 | 80.7 | 72.3 | S. E. | 0.2 | |
| | 9 | 0 | 29.651 | 81.2 | 73.3 | S. E. | 0.2 | |
| | 10 | 0 | 29.650 | 81.4 | 73.4 | S. E. | 0.0 | |

| September 20th and 21st. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|--|----|----|---|-------------------|-------------------|-------------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | | DECLINATION. | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 117.9 | 123.8 | 123.4 | 122.6 | 121.2 | 134.6 | 123.7 | 123.5 | 116.7 | 130.2 | 125.0 |
| 5 | 0 | | 118.3 | 123.7 | 123.2 | 122.5 | 120.9 | 135.6 | 124.2 | 123.4 | 117.6 | 128.7 | 125.1 |
| 10 | 0 | | 119.4 | 123.6 | 123.1 | 122.4 | 120.3 | 135.7 | 125.6 | 122.6 | 119.8 | 127.4 | 124.2 |
| 15 | 0 | | 121.2 | 123.3 | 123.0 | 122.6 | 123.8 | 134.5 | 125.3 | 122.8 | 121.0 | 127.4 | 124.0 |
| 20 | 0 | | 122.4 | 123.3 | 122.9 | 122.9 | 131.4 | 133.2 | 125.0 | 124.2 | 121.6 | 129.2 | 124.0 |
| 25 | 0 | | 122.8 | 123.0 | 122.8 | 122.7 | 141.0 | 131.4 | 125.0 | 126.2 | 123.3 | 130.2 | 123.8 |
| 30 | 0 | | 122.5 | 123.0 | 122.4 | 122.9 | 149.7 | 128.3 | 124.4 | 126.9 | 125.3 | 131.0 | 122.9 |
| 35 | 0 | | 122.4 | 122.8 | 122.7 | 122.3 | 152.4 | 126.3 | 123.9 | 123.6 | 127.3 | 130.0 | 123.0 |
| 40 | 0 | | 122.4 | 123.1 | 122.6 | 122.2 | 144.1 | 124.7 | 123.8 | 119.9 | 128.9 | 128.2 | 123.6 |
| 45 | 0 | | 122.9 | 123.1 | 122.9 | 122.1 | 138.0 | 124.1 | 123.9 | 117.5 | 130.2 | 127.6 | 124.8 |
| 50 | 0 | | 123.0 | 123.0 | 122.5 | 122.0 | 134.4 | 123.7 | 123.3 | 116.7 | 131.2 | 126.6 | 124.8 |
| 55 | 0 | | 123.3 | 123.2 | 122.7 | 121.9 | 133.0 | 123.8 | 123.6 | 116.5 | 131.0 | 125.6 | 124.7 |
| | | | One Scale Division = .000099 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 975.9 | 981.4 | 982.0 | 980.9 | 980.2 | 974.4 | 977.6 | 978.8 | 983.7 | 978.0 | 976.7 |
| 7 | 0 | | 974.8 | 980.7 | 981.7 | 979.4 | 980.5 | 972.9 | 976.2 | 977.4 | 979.8 | 977.9 | 976.6 |
| 12 | 0 | | 971.5 | 980.9 | 981.3 | 979.3 | 981.2 | 974.2 | 976.0 | 978.8 | 977.0 | 975.1 | 975.6 |
| 17 | 0 | | 971.8 | 980.5 | 981.7 | 981.0 | 971.3 | 974.9 | 975.8 | 979.4 | 978.7 | 972.0 | 976.4 |
| 22 | 0 | | 972.3 | 980.9 | 981.5 | 983.6 | 959.6 | 974.0 | 974.3 | 981.5 | 977.7 | 970.9 | 977.6 |
| 27 | 0 | | 974.7 | 980.5 | 981.8 | 984.8 | 953.6 | 973.6 | 973.7 | 986.6 | 976.5 | 969.8 | 978.6 |
| 32 | 0 | | 976.7 | 981.4 | 981.8 | 983.6 | 946.0 | 973.4 | 973.6 | 992.9 | 979.1 | 969.9 | 979.0 |
| 37 | 0 | | 976.0 | 980.6 | 983.0 | 982.7 | 950.2 | 974.7 | 974.3 | 992.8 | 977.1 | 970.2 | 978.5 |
| 42 | 0 | | 978.1 | 981.5 | 981.8 | 982.0 | 967.4 | 974.5 | 976.3 | 989.7 | 978.3 | 974.5 | 978.4 |
| 47 | 0 | | 977.1 | 981.7 | 982.5 | 981.5 | 976.6 | 975.1 | 977.2 | 988.5 | 979.0 | 974.5 | 979.5 |
| 52 | 0 | | 977.9 | 982.0 | 982.5 | 981.3 | 976.9 | 975.6 | 979.1 | 986.1 | 977.7 | 976.0 | 979.1 |
| 57 | 0 | | 978.8 | 982.0 | 982.6 | 981.4 | 978.7 | 976.2 | 979.4 | 984.3 | 977.9 | 975.9 | 979.4 |
| Thermometer | | | 68.8 | 68.9 | 68.5 | 68.2 | 68.3 | 68.2 | 68.2 | 68.0 | 67.8 | 67.6 | 67.4 |
| | | | One Scale Division = .000094 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 29.6 | 29.1 | 28.2 | 26.3 | 26.4 | 25.8 | 26.9 | 26.6 | 21.4 | 18.9 | 26.2 |
| 8 | 0 | | 29.6 | 28.7 | 28.1 | 26.3 | 26.9 | 25.8 | 26.7 | 26.5 | 20.6 | 19.2 | 26.2 |
| 13 | 0 | | 28.7 | 28.7 | 28.1 | 26.3 | 26.6 | 26.0 | 26.6 | 26.6 | 19.9 | 19.8 | 26.2 |
| 18 | 0 | | 28.7 | 28.6 | 28.1 | 26.3 | 25.6 | 26.4 | 26.6 | 26.6 | 19.9 | 19.8 | 27.1 |
| 23 | 0 | | 28.7 | 28.7 | 27.8 | 26.4 | 25.9 | 26.8 | 26.4 | 26.1 | 19.9 | 21.2 | 27.1 |
| 28 | 0 | | 28.7 | 28.7 | 27.4 | 26.4 | 26.5 | 26.8 | 26.3 | 25.4 | 20.0 | 21.3 | 27.1 |
| 33 | 0 | | 29.4 | 28.4 | 27.3 | 26.4 | 26.5 | 27.0 | 26.7 | 23.9 | 18.9 | 21.6 | 26.9 |
| 38 | 0 | | 28.9 | 28.4 | 27.1 | 26.4 | 27.8 | 27.0 | 26.7 | 22.5 | 17.9 | 21.6 | 26.9 |
| 43 | 0 | | 29.1 | 28.4 | 27.1 | 26.4 | 24.4 | 27.1 | 27.0 | 22.0 | 17.9 | 25.2 | 26.7 |
| 48 | 0 | | 29.0 | 28.4 | 26.9 | 26.4 | 25.8 | 27.1 | 27.0 | 22.1 | 18.9 | 25.5 | 26.7 |
| 53 | 0 | | 28.9 | 28.4 | 26.7 | 26.4 | 26.4 | 27.0 | 26.7 | 21.9 | 18.9 | 25.3 | 26.7 |
| 58 | 0 | | 28.9 | 28.4 | 26.7 | 26.4 | 26.4 | 26.8 | 26.6 | 21.6 | 18.9 | 25.7 | 26.7 |
| Thermometer | | | 67.3 | 67.5 | 67.4 | 68.0 | 68.7 | 68.5 | 68.5 | 68.5 | 68.5 | 69.0 | 68.1 |
| Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force. | | | | | | | | | | | | | |
| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | | |
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | | | |
| 20 | 10 | 0 | 29.800 | 68.2 | 65.2 | E. | 0.2 | Light cir. and cir.-strat. generally dispersed; fair. | | | | | |
| | 11 | 0 | 29.789 | 64.9 | 62.9 | E. | 0.2 | Cir.; cir.-strat. and haze generally; fair. | | | | | |
| | 12 | 0 | 29.771 | 62.3 | 61.2 | — | 0.0 | Overspread with cir.; cir.-strat. and haze. | | | | | |
| | 13 | 0 | 29.768 | 60.8 | 60.2 | — | 0.0 | Unclouded but hazy. | | | | | |
| | 14 | 0 | 29.761 | 60.4 | 60.0 | — | 0.0 | Clear and unclouded. | | | | | |
| | 15 | 0 | 29.751 | 59.4 | 58.8 | — | 0.0 | Clear; faint auroral light in N. | | | | | |
| | 16 | 0 | 29.724 | 58.5 | 57.0 | — | 0.0 | Haze round horizon; remainder clear. | | | | | |
| | 17 | 0 | 29.710 | 57.6 | 57.2 | — | 0.0 | Haze round horizon; remainder clear. | | | | | |
| | 18 | 0 | 29.696 | 57.4 | 56.8 | — | 0.0 | Haze round horizon; remainder clear. | | | | | |
| | 19 | 0 | 29.668 | 57.4 | 57.0 | — | 0.0 | Clear and unclouded. | | | | | |
| | 20 | 0 | 29.659 | 58.6 | 58.2 | — | 0.0 | Clear and unclouded. | | | | | |
| | 21 | 0 | 29.655 | 58.6 | 58.2 | — | 0.0 | Clear and unclouded. | | | | | |

MAGNETICAL OBSERVATIONS.

September 20th and 21st.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 124.4 | 131.0 | 116.5 | 129.2 | 133.8 | 132.0 | 130.3 | 126.3 | 121.4 | 114.6 | 114.6 | 116.9 | 119.0 |
| 125.0 | 129.7 | 116.0 | 128.3 | 133.2 | 132.0 | 129.3 | 125.9 | 121.0 | 114.2 | 112.8 | 116.8 | 119.1 |
| 125.0 | 127.6 | 116.2 | 129.0 | 132.5 | 130.8 | 130.1 | 125.5 | 121.4 | 114.1 | 112.4 | 116.4 | 119.5 |
| 124.3 | 126.4 | 115.8 | 129.5 | 132.3 | 131.0 | 129.6 | 124.9 | 119.9 | 114.6 | 112.1 | 116.7 | 119.3 |
| 124.2 | 126.2 | 118.3 | 128.5 | 133.3 | 131.8 | 130.9 | 124.6 | 119.9 | 114.8 | 112.5 | 117.0 | 120.0 |
| 123.9 | 126.3 | 119.7 | 128.7 | 133.7 | 133.4 | 130.6 | 123.8 | 119.7 | 114.7 | 112.1 | 117.9 | 119.8 |
| 123.3 | 126.1 | 120.5 | 128.9 | 133.3 | 132.7 | 131.0 | 122.1 | 118.9 | 114.6 | 110.6 | 118.8 | 120.3 |
| 124.9 | 124.2 | 123.4 | 129.9 | 133.6 | 131.8 | 129.0 | 122.4 | 118.0 | 114.0 | 109.6 | 118.2 | 123.9 |
| 127.0 | 122.6 | 123.6 | 129.1 | 133.6 | 130.2 | 127.6 | 122.1 | 118.6 | 114.1 | 110.0 | 118.8 | 124.2 |
| 128.8 | 121.0 | 125.6 | 131.9 | 132.9 | 129.9 | 127.4 | 121.6 | 117.5 | 115.1 | 112.0 | 118.7 | 122.9 |
| 130.3 | 119.7 | 127.1 | 132.8 | 131.7 | 129.8 | 126.9 | 123.1 | 117.1 | 115.8 | 114.7 | 119.3 | 122.0 |
| 130.9 | 117.1 | 128.4 | 131.9 | 132.4 | 129.7 | 126.4 | 121.9 | 114.9 | 115.1 | 116.1 | 118.8 | 122.4 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 978.4 | 973.3 | 974.3 | 982.1 | 983.8 | 977.3 | 968.3 | 967.0 | 964.6 | 965.8 | 975.1 | 967.9 | 980.0 |
| 978.6 | 973.7 | 977.4 | 981.2 | 982.4 | 975.8 | 968.8 | 967.4 | 964.2 | 968.1 | 970.1 | 969.2 | 980.5 |
| 978.7 | 974.5 | 979.4 | 980.7 | 983.2 | 972.9 | 968.6 | 966.9 | 965.0 | 969.7 | 968.8 | 968.1 | 980.6 |
| 978.7 | 975.9 | 979.9 | 982.2 | 981.2 | 971.6 | 968.4 | 965.7 | 964.2 | 969.8 | 969.9 | 971.0 | 982.7 |
| 980.5 | 978.0 | 980.7 | 982.5 | 980.0 | 971.5 | 968.8 | 965.1 | 964.9 | 970.6 | 968.2 | 972.4 | 983.4 |
| 981.7 | 977.7 | 979.9 | 983.1 | 980.0 | 969.1 | 965.8 | 963.7 | 963.9 | 970.8 | 971.9 | 976.1 | 983.6 |
| 981.2 | 977.0 | 970.4 | 982.0 | 978.8 | 970.4 | 966.8 | 964.8 | 961.6 | 973.8 | 969.3 | 976.0 | 983.8 |
| 979.8 | 974.1 | 981.4 | 986.3 | 977.9 | 971.1 | 965.2 | 965.1 | 962.6 | 974.2 | 966.4 | 974.8 | 983.8 |
| 977.2 | 972.1 | 981.1 | 982.1 | 977.4 | 971.8 | 967.4 | 965.7 | 964.7 | 972.2 | 964.8 | 976.5 | 984.5 |
| 975.0 | 971.0 | 980.8 | 982.5 | 978.2 | 973.4 | 865.3 | 965.5 | 964.2 | 977.7 | 964.3 | 980.7 | 984.8 |
| 973.4 | 971.7 | 980.6 | 981.5 | 975.1 | 972.6 | 865.9 | 964.1 | 961.8 | 980.8 | 965.0 | 974.9 | 984.8 |
| 972.9 | 972.5 | 980.5 | 979.6 | 976.6 | 970.5 | 866.2 | 963.8 | 962.6 | 980.8 | 967.7 | 975.4 | 982.6 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 67.2 | 66.9 | 66.8 | 66.5 | 67.0 | 68.0 | 69.5 | 71.8 | 72.7 | 73.8 | 74.8 | 76.3 | 77.4 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 26.7 | 24.6 | 27.5 | 27.0 | 27.5 | 26.3 | 25.0 | 22.6 | 21.5 | 19.8 | 19.2 | 18.5 | 18.6 |
| 26.7 | 24.9 | 27.7 | 27.7 | 27.5 | 26.7 | 25.0 | 22.1 | 21.0 | 20.3 | 18.8 | 18.5 | 18.6 |
| 26.7 | 26.4 | 27.8 | 27.8 | 27.0 | 26.3 | 25.2 | 22.1 | 21.0 | 19.7 | 19.0 | 18.5 | 18.6 |
| 26.7 | 26.3 | 27.9 | 27.8 | 27.0 | 26.3 | 24.3 | 21.7 | 21.0 | 19.6 | 19.2 | 18.5 | 18.6 |
| 27.0 | 26.7 | 25.8 | 28.8 | 27.0 | 25.8 | 24.3 | 21.6 | 20.7 | 19.6 | 18.7 | 18.5 | 18.5 |
| 27.0 | 26.5 | 25.8 | 28.8 | 27.0 | 26.0 | 24.1 | 22.2 | 20.7 | 19.6 | 19.1 | 18.5 | 18.5 |
| 26.5 | 26.5 | 25.6 | 28.8 | 26.7 | 26.0 | 23.6 | 22.3 | 20.7 | 19.6 | 18.4 | 18.9 | 18.5 |
| 26.5 | 26.5 | 26.3 | 28.8 | 26.8 | 26.5 | 23.6 | 21.6 | 20.6 | 19.6 | 18.4 | 18.9 | 18.6 |
| 24.8 | 26.5 | 26.4 | 28.3 | 26.5 | 26.0 | 23.0 | 21.3 | 20.4 | 19.6 | 18.4 | 18.7 | 18.6 |
| 24.7 | 26.7 | 26.4 | 28.4 | 26.3 | 26.0 | 22.8 | 21.3 | 20.0 | 19.6 | 18.0 | 18.7 | 18.6 |
| 24.5 | 27.2 | 26.1 | 28.3 | 26.3 | 25.7 | 22.7 | 20.9 | 19.6 | 20.2 | 18.6 | 18.7 | 18.6 |
| 24.5 | 27.2 | 27.0 | 27.5 | 26.3 | 25.1 | 22.9 | 21.1 | 19.8 | 19.9 | 18.5 | 18.6 | 18.4 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 67.5 | 67.4 | 67.0 | 66.6 | 66.9 | 67.5 | 68.5 | 70.3 | 71.1 | 72.0 | 72.7 | 74.1 | 74.7 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 21^d 10^h Thermometer of H. F. 78°·2; of V. F. 75°·5.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 20 | 22 | 0 | 29.647 | 59.2 | 58.8 | — | 0.0 | Clear and unclouded. |
| | 23 | 0 | 29.634 | 58.5 | 58.0 | — | 0.0 | Clear and unclouded. |
| 21 | 0 | 0 | 29.650 | 61.4 | 61.4 | — | 0.0 | Hazy round horizon; remainder clear. |
| | 1 | 0 | 29.637 | 65.0 | 64.8 | — | 0.0 | Clear and unclouded. |
| | 2 | 0 | 29.621 | 67.0 | 67.8 | — | 0.0 | Cloudless, but hazy. |
| | 3 | 0 | 29.605 | 72.8 | 72.8 | S. S. W. | 0.5 | Clear and unclouded. |
| | 4 | 0 | 29.582 | 80.7 | 73.7 | S. S. W. | 1.0 | A few detached cir.-cum. scattered. |
| | 5 | 0 | 29.567 | 82.6 | 74.5 | S. S. W. | 2.0 | Detached cir.-cum. scattered about. [fair. |
| | 6 | 0 | 29.533 | 84.2 | 73.5 | S. W. | 3.0 | Partially clouded with dense well-defined cir.-cum. and cum.-strat; [fair. |
| | 7 | 0 | 29.516 | 85.3 | 73.7 | W. by S. | 5.0 | Partially clouded with dense well-defined cir.-cum. and cum.-strat; fair. |
| | 8 | 0 | 29.505 | 86.3 | 74.1 | W. | 5.0 | Partially clouded with dense well-defined cir.-cum. and cum.-strat; [fair. |
| | 9 | 0 | 29.492 | 84.9 | 73.3 | W. | 5.0 | Generally overcast; very dense cir.-cum. and cum.-strat. [fair. |
| | 10 | 0 | 29.530 | 77.6 | 72.2 | W. by N. | 5.0 | Densely overcast; very dense cir.-cum., cum.-strat. and haze. |

MAGNETICAL OBSERVATIONS.

October 18th and 19th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 125.5 | 125.2 | 126.1 | 126.7 | 128.1 | 129.8 | 128.7 | 126.1 | 124.1 | 123.9 | 122.8 | 122.5 | 122.8 |
| 125.1 | 125.2 | 123.7 | 126.8 | 128.1 | 129.5 | 128.1 | 127.0 | 124.1 | 123.8 | 122.1 | 122.6 | 122.7 |
| 125.1 | 125.3 | 124.8 | 126.4 | 128.7 | 128.9 | 126.7 | 126.8 | 123.3 | 123.8 | 122.6 | 122.2 | 122.8 |
| 125.0 | 125.3 | 125.4 | 126.8 | 128.6 | 128.6 | 126.5 | 126.0 | 122.2 | 123.2 | 122.8 | 122.4 | 123.2 |
| 124.0 | 125.2 | 125.4 | 127.3 | 128.5 | 129.1 | 129.1 | 126.0 | 121.8 | 123.3 | 122.9 | 122.8 | 123.5 |
| 123.8 | 125.7 | 125.5 | 127.1 | 128.5 | 129.8 | 129.0 | 126.0 | 122.0 | 123.5 | 122.9 | 122.8 | 124.2 |
| 123.9 | 126.0 | 126.5 | 127.2 | 128.4 | 129.2 | 127.0 | 126.1 | 122.5 | 123.2 | 123.1 | 123.0 | 124.2 |
| 124.1 | 125.9 | 126.8 | 126.8 | 129.5 | 128.8 | 126.9 | 126.1 | 122.5 | 123.4 | 123.0 | 123.0 | 123.0 |
| 124.5 | 125.9 | 126.5 | 127.4 | 129.3 | 127.9 | 127.2 | 126.9 | 122.6 | 123.2 | 122.9 | 123.0 | 123.9 |
| 124.8 | 125.9 | 127.1 | 127.5 | 129.7 | 127.1 | 126.4 | 127.0 | 123.7 | 123.3 | 122.4 | 123.2 | 123.6 |
| 125.8 | 125.8 | 127.0 | 128.0 | 129.9 | 127.7 | 126.4 | 126.6 | 124.0 | 122.9 | 122.5 | 122.8 | 124.2 |
| 125.4 | 127.0 | 127.4 | 128.2 | 129.8 | 128.0 | 125.9 | 125.3 | 124.0 | 123.0 | 122.2 | 122.8 | 124.1 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 493.5 | 495.0 | 496.4 | 495.0 | 493.5 | 490.8 | 492.4 | 495.6 | 495.4 | 493.7 | 496.1 | 492.6 | 488.7 |
| 493.5 | 495.1 | 495.1 | 495.3 | 492.5 | 492.8 | 491.8 | 497.4 | 493.9 | 494.0 | 495.5 | 491.8 | 487.3 |
| 494.2 | 494.5 | 494.4 | 494.3 | 492.0 | 491.4 | 492.4 | 498.0 | 490.8 | 494.6 | 495.4 | 489.5 | 486.6 |
| 494.0 | 494.6 | 495.1 | 494.6 | 491.8 | 490.9 | 489.6 | 499.3 | 490.3 | 494.7 | 494.9 | 488.9 | 487.4 |
| 493.9 | 495.0 | 496.0 | 495.0 | 490.8 | 488.8 | 491.5 | 499.0 | 489.5 | 495.5 | 493.9 | 488.1 | 487.4 |
| 493.9 | 494.2 | 494.4 | 495.2 | 491.0 | 489.0 | 492.5 | 498.4 | 489.8 | 495.7 | 495.3 | 486.9 | 488.3 |
| 494.6 | 495.7 | 495.4 | 495.4 | 490.2 | 489.1 | 493.0 | 498.9 | 490.4 | 495.6 | 495.4 | 487.3 | 487.9 |
| 495.0 | 495.5 | 496.2 | 494.9 | 490.5 | 489.0 | 494.3 | 499.0 | 489.6 | 495.8 | 496.3 | 488.9 | 485.8 |
| 495.0 | 494.7 | 495.2 | 495.0 | 491.2 | 491.8 | 493.9 | 498.0 | 490.6 | 496.2 | 496.9 | 492.0 | 488.1 |
| 495.2 | 494.5 | 495.6 | 494.1 | 490.7 | 492.6 | 494.5 | 498.0 | 491.3 | 496.2 | 495.5 | 492.9 | 488.9 |
| 495.5 | 495.4 | 494.2 | 493.6 | 490.4 | 490.1 | 493.9 | 497.1 | 492.5 | 495.9 | 495.8 | 490.9 | 489.9 |
| 494.7 | 496.9 | 495.5 | 493.7 | 490.7 | 490.3 | 494.1 | 495.6 | 493.4 | 496.6 | 494.2 | 490.1 | 488.4 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 54.2 | 53.8 | 54.0 | 53.8 | 53.2 | 54.0 | 54.5 | 55.0 | 55.0 | 55.2 | 54.9 | 54.5 | 55.7 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE

| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

^a At 19^d 10^h Thermometer of H. F. 56°·0.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 320. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 18 | 22 | 0 | 29.554 | 32.6 | 31.9 | — | 0.0 | Cir.-cum. to eastward; remainder quite clear; fair. |
| | 23 | 0 | 29.589 | 31.8 | 31.0 | — | 0.0 | A few cir.-cum. round horizon; remainder clear; fair. |
| 19 | 0 | 0 | 29.615 | 32.1 | 31.2 | — | 0.0 | Detached cir.-strat. scattered about; fair. |
| | 1 | 0 | 29.650 | 33.0 | 32.0 | — | 0.0 | Light cir. and cir.-strat. round horizon; zenith clear; fair. |
| | 2 | 0 | 29.687 | 35.8 | 35.0 | S.W. by S. | 0.2 | Clouded; well-defined cir.-cum.; clear spaces. |
| | 3 | 0 | 29.714 | 40.4 | 37.2 | S.W. by W. | 0.5 | Partially clouded; light cir.-cum. |
| | 4 | 9 | 29.727 | 43.6 | 39.6 | W. | 0.5 | Clouded; cum. and cir.-cum. |
| | 5 | 0 | 29.733 | 43.6 | 39.8 | W. | 0.5 | Partially clouded; detached cir.-cum. |
| | 6 | 0 | 29.721 | 45.4 | 40.0 | W. S. W. | 0.5 | Uniformly overcast cir.-strat.; cum.-strat. and haze. |
| | 7 | 0 | 29.715 | 46.4 | 40.5 | S.W. by S. | 0.2 | Overcast with light cum.-strat. and cir.-cum.; a few clear intervals. |
| | 8 | 0 | 29.708 | 48.4 | 42.3 | W. by S. | 0.5 | Overcast with cir.-cum. and light cum.-strat.; clear spaces; fair. |
| | 9 | 0 | 29.707 | 48.5 | 44.1 | S. W. | 0.5 | Detached cir.-cum. and cum.-strat. generally over the sky; fair. |
| | 10 | 0 | 29.707 | 47.1 | 42.8 | S. W. | 0.5 | Detached cir.-cum. scattered about; fair. |

| November 24th and 25th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-------------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'·721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | | 124·6 | 126·3 | 126·6 | 128·7 | 127·7 | 130·0 | 127·3 | 126·0 | 123·7 | 125·2 | 125·0 |
| 5 | 0 | | 124·8 | 127·1 | 126·2 | 130·1 | 127·2 | 129·8 | 126·8 | 126·0 | 121·8 | 125·0 | 125·2 |
| 10 | 0 | | 124·9 | 125·8 | 126·8 | 130·2 | 127·2 | 128·9 | 126·8 | 126·1 | 121·9 | 124·0 | 125·5 |
| 15 | 0 | | 125·2 | 127·1 | 126·2 | 129·7 | 127·4 | 128·0 | 126·9 | 126·2 | 121·8 | 122·7 | 125·7 |
| 20 | 0 | | 125·6 | 126·2 | 126·4 | 128·8 | 128·3 | 128·0 | 127·0 | 126·3 | 121·8 | 122·0 | 125·8 |
| 25 | 0 | | 125·5 | 126·3 | 126·9 | 128·1 | 127·9 | 128·2 | 127·1 | 126·2 | 120·8 | 122·9 | 126·0 |
| 30 | 0 | | 125·9 | 126·3 | 127·0 | 127·0 | 128·0 | 128·0 | 126·8 | 126·6 | 120·3 | 124·2 | 126·2 |
| 35 | 0 | | 125·5 | 126·5 | 127·0 | 126·4 | 128·6 | 127·2 | 126·4 | 126·7 | 121·5 | 125·0 | 126·0 |
| 40 | 0 | | 125·8 | 126·7 | 127·0 | 126·6 | 131·0 | 127·0 | 126·4 | 126·4 | 122·1 | 125·0 | 126·0 |
| 45 | 0 | | 126·2 | 126·1 | 126·9 | 128·4 | 131·9 | 126·8 | 126·2 | 125·8 | 124·0 | 124·3 | 126·0 |
| 50 | 0 | | 127·3 | 126·2 | 127·6 | 128·2 | 131·9 | 127·8 | 125·9 | 126·0 | 124·1 | 124·5 | 126·4 |
| 55 | 0 | | 127·2 | 126·5 | 128·0 | 127·8 | 131·0 | 128·0 | 125·9 | 126·0 | 125·0 | 124·8 | 126·5 |

| | | One Scale Division = ·000087 parts of the H. F. | | | | | | | | | | |
|----|----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | HORIZONTAL FORCE. | | | | | | | | | | |
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 504·8 | 506·2 | 504·1 | 498·0 | 498·0 | 498·1 | 501·1 | 500·7 | 502·4 | 504·3 | 502·8 |
| 7 | 0 | 504·9 | 505·4 | 502·4 | 496·1 | 498·7 | 500·1 | 500·7 | 501·0 | 502·3 | 504·2 | 502·8 |
| 12 | 0 | 504·9 | 507·2 | 503·3 | 496·8 | 499·8 | 500·9 | 500·6 | 501·1 | 502·3 | 503·3 | 502·6 |
| 17 | 0 | 505·3 | 505·0 | 502·8 | 497·0 | 499·7 | 501·0 | 501·1 | 501·0 | 502·8 | 504·8 | 502·3 |
| 22 | 0 | 505·4 | 506·1 | 501·9 | 497·6 | 499·2 | 500·8 | 500·9 | 500·9 | 505·0 | 504·2 | 501·5 |
| 27 | 0 | 505·6 | 506·1 | 501·6 | 498·1 | 499·0 | 501·0 | 500·6 | 501·0 | 505·1 | 504·0 | 401·0 |
| 32 | 0 | 504·5 | 505·7 | 501·9 | 498·8 | 500·0 | 500·6 | 500·8 | 501·0 | 504·5 | 503·0 | 501·0 |
| 37 | 0 | 504·9 | 506·0 | 501·9 | 498·8 | 499·9 | 499·8 | 501·0 | 500·9 | 504·0 | 503·2 | 501·0 |
| 42 | 0 | 505·8 | 505·0 | 502·0 | 498·7 | 500·0 | 499·7 | 500·9 | 500·7 | 503·5 | 503·6 | 501·0 |
| 47 | 0 | 506·9 | 503·9 | 501·4 | 498·0 | 499·6 | 500·0 | 501·0 | 500·8 | 504·6 | 503·0 | 501·0 |
| 52 | 0 | 507·0 | 505·1 | 500·4 | 498·0 | 498·8 | 501·0 | 500·0 | 500·7 | 504·9 | 503·0 | 501·0 |
| 57 | 0 | 505·8 | 504·2 | 500·6 | 497·9 | 498·6 | 501·3 | 500·0 | 501·2 | 504·8 | 503·0 | 501·0 |

| Thermometer | | 53·4 | 53·0 | 52·8 | 52·6 | 52·3 | 52·2 | 51·8 | 51·7 | 51·9 | 52·0 | 52·5 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|
| VERTICAL FORCE. ^a | | | | | | | | | | | | |
| Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal Force. | | | | | | | | | | | | |

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|--------|--|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | | |
| 24 | 10 | 0 | 29·460 | 42·5 | 37·5 | W. by S. | 1·0 | Detached cir.-cum. generally scattered; fair. | | | | |
| | 11 | 0 | 29·508 | 39·8 | 35·0 | W. N. W. | 0·5 | ·1 clouded cum.-strat.; remainder clear. | | | | |
| | 12 | 0 | 29·550 | 38·2 | 34·2 | W. | 0·2 | Zenith clear; cum.-strat. round S. horizon. | | | | |
| | 13 | 0 | 29·573 | 36·9 | 33·4 | W. | 0·2 | Dense cum.-strat. on N. and strat. along S. horizon; zenith clear. | | | | |
| | 14 | 0 | 29·603 | 36·9 | 32·6 | W. | 0·2 | Light detached cir.-cum. scattered over ·5. [strat.] | | | | |
| | 15 | 0 | 29·622 | 35·8 | 32·6 | W. | 0·2 | Zenith clear; horizon partially clouded with cir.-cum. and cir.- | | | | |
| | 16 | 0 | 29·652 | 34·4 | 31·3 | W. | 0·2 | Generally overcast with cir.-cum. and cir.-strat. | | | | |
| | 17 | 0 | 29·670 | 34·4 | 31·6 | — | 0·0 | Clouded with cir.-cum. and cir.-strat. | | | | |
| | 18 | 0 | 29·684 | 34·4 | 31·6 | — | 0·0 | Clouded with cir.-cum. and cir.-strat. | | | | |
| | 19 | 0 | 29·693 | 34·0 | 31·5 | — | 0·0 | Densely clouded; cir.-cum., cum.-strat. and haze. | | | | |
| | 20 | 0 | 29·727 | 34·0 | 31·2 | — | 0·0 | Densely overcast; cum.-strat. and haze. | | | | |
| | 21 | 0 | 29·741 | 33·6 | 31·2 | — | 0·0 | Thickly overcast; cum.-strat. and haze. | | | | |

^a Vertical Force needle removed for temperature experiments.

MAGNETICAL OBSERVATIONS.

November 24th and 25th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Sc. Div. 126.4 | Sc. Div. 126.2 | Sc. Div. 127.8 | Sc. Div. 128.0 | Sc. Div. 128.2 | Sc. Div. 128.9 | Sc. Div. 128.2 | Sc. Div. 126.0 | Sc. Div. 123.9 | Sc. Div. 121.4 | Sc. Div. 121.7 | Sc. Div. 123.2 | Sc. Div. 124.9 |
| 126.4 | 126.9 | 127.5 | 127.9 | 128.4 | 128.5 | 127.5 | 125.7 | 123.4 | 121.6 | 121.8 | 123.3 | 124.8 |
| 126.4 | 127.2 | 127.7 | 127.9 | 128.8 | 128.8 | 127.1 | 125.3 | 123.4 | 121.7 | 121.8 | 123.4 | 124.8 |
| 126.0 | 127.2 | 127.7 | 127.9 | 129.1 | 128.6 | 127.4 | 125.2 | 123.1 | 121.8 | 121.9 | 123.5 | 124.8 |
| 126.0 | 127.2 | 127.6 | 127.1 | 129.1 | 128.4 | 127.3 | 124.9 | 123.0 | 121.8 | 122.0 | 123.5 | 124.8 |
| 126.0 | 127.0 | 127.9 | 127.5 | 128.9 | 128.3 | 126.9 | 125.0 | 122.5 | 121.7 | 122.0 | 123.8 | 125.0 |
| 126.0 | 127.4 | 128.0 | 127.8 | 128.9 | 128.3 | 127.0 | 124.9 | 122.4 | 121.6 | 122.1 | 124.0 | 124.8 |
| 126.0 | 127.5 | 128.0 | 127.8 | 129.2 | 127.9 | 126.9 | 124.3 | 122.2 | 121.4 | 122.3 | 124.3 | 124.9 |
| 126.1 | 127.8 | 128.5 | 127.6 | 128.9 | 128.1 | 126.1 | 124.4 | 122.3 | 121.4 | 122.4 | 124.5 | 125.0 |
| 126.7 | 127.9 | 128.3 | 127.6 | 128.4 | 128.2 | 126.2 | 124.3 | 122.1 | 121.1 | 122.4 | 124.5 | 125.0 |
| 126.7 | 127.3 | 128.6 | 128.2 | 129.1 | 128.5 | 125.9 | 124.1 | 121.9 | 121.2 | 122.6 | 124.6 | 125.3 |
| 126.2 | 127.5 | 128.0 | 128.2 | 130.0 | 128.3 | 125.7 | 124.1 | 121.5 | 121.4 | 123.0 | 124.8 | 125.4 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah°. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 501.0 | 502.8 | 504.0 | 504.0 | 502.3 | 497.8 | 493.9 | 490.7 | 492.4 | 493.8 | 497.7 | 502.3 | 504.2 |
| 501.1 | 503.0 | 504.0 | 503.3 | 501.7 | 497.4 | 493.1 | 491.0 | 492.1 | 493.8 | 498.1 | 503.1 | 505.1 |
| 501.9 | 503.5 | 504.0 | 503.0 | 501.3 | 497.0 | 494.0 | 491.0 | 492.8 | 494.4 | 498.9 | 501.9 | 504.8 |
| 502.0 | 503.0 | 504.5 | 503.4 | 501.3 | 497.1 | 492.6 | 491.1 | 492.4 | 494.7 | 499.3 | 502.8 | 504.6 |
| 502.0 | 504.0 | 503.9 | 503.2 | 501.5 | 496.7 | 492.1 | 490.5 | 492.7 | 495.1 | 499.9 | 502.2 | 504.5 |
| 501.9 | 502.7 | 503.8 | 503.6 | 500.8 | 496.3 | 492.2 | 491.1 | 492.3 | 496.0 | 499.9 | 502.0 | 504.6 |
| 502.0 | 502.9 | 503.8 | 503.2 | 500.0 | 496.0 | 492.2 | 491.5 | 493.0 | 496.9 | 499.6 | 503.9 | 505.2 |
| 502.0 | 503.0 | 503.1 | 503.0 | 500.3 | 495.1 | 491.1 | 491.1 | 493.0 | 497.0 | 500.3 | 504.2 | 504.5 |
| 502.6 | 503.0 | 504.0 | 503.2 | 500.7 | 494.9 | 490.6 | 491.3 | 493.6 | 497.9 | 500.7 | 503.4 | 505.2 |
| 503.0 | 504.0 | 503.9 | 502.8 | 498.6 | 494.6 | 490.9 | 491.1 | 494.0 | 497.7 | 500.8 | 503.7 | 505.6 |
| 503.0 | 503.5 | 503.7 | 502.6 | 497.1 | 493.3 | 490.7 | 491.2 | 494.0 | 497.6 | 501.5 | 504.0 | 505.6 |
| 503.0 | 504.0 | 503.4 | 502.5 | 498.3 | 493.0 | 490.5 | 491.7 | 493.9 | 497.6 | 502.3 | 504.5 | 505.4 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 52.8 | 53.0 | 53.2 | 53.2 | 52.6 | 52.4 | 52.5 | 52.2 | 51.8 | 51.6 | 51.6 | 52.0 | 52.4 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE.

| | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

^a At 25^d 10^h Thermometer of H. F. 52°·5.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 24 | 22 | 0 | 29.756 | 32.4 | 30.4 | — | 0.0 | Clear, save a few light cir.-cum. in N. and N. W. |
| | 23 | 0 | 29.756 | 29.8 | 28.6 | — | 0.0 | Clear and unclouded. |
| 25 | 0 | 0 | 29.764 | 30.6 | 30.0 | — | 0.0 | Clear and unclouded. |
| | 1 | 0 | 29.804 | 30.3 | 28.8 | W. | 0.2 | A few light cir.-cum. scattered about; fair. |
| | 2 | 0 | 29.817 | 31.2 | 29.4 | W. | 0.2 | A few light cir.-cum. scattered about; fair. |
| | 3 | 0 | 29.841 | 33.4 | 30.8 | W. | 0.2 | A few light cir.-cum. scattered about; fair. |
| | 4 | 0 | 29.861 | 35.5 | 32.0 | W. | 0.2 | A few light cir.-cum. scattered about; fair. |
| | 5 | 0 | 29.861 | 36.5 | 32.5 | W. | 0.5 | A few light cir.-cum. scattered about; fair. |
| | 6 | 0 | 29.847 | 37.5 | 32.7 | W. | 0.5 | A few light cir.-cum. scattered about; fair. |
| | 7 | 0 | 29.847 | 39.3 | 34.8 | W. | 0.2 | Clear and unclouded. |
| | 8 | 0 | 29.841 | 40.4 | 35.4 | S. S. W. | 0.5 | Clear, save a few detached cir.-cum. in N. E. |
| | 9 | 0 | 29.841 | 40.8 | 35.9 | S. S. W. | 0.2 | Clear, save a flexious cir. and cir.-strat. in zenith. |
| | 10 | 0 | 29.849 | 39.9 | 35.4 | S. S. W. | 0.5 | Light flexious cir. and cir.-strat., generally dispersed. |

| December 20th and 21st. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-------------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'·721. | | | | | | DECLINATION. | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 125·5 | 125·8 | 127·0 | 127·0 | 128·0 | 127·7 | 127·7 | 128·2 | 126·0 | 125·5 | 125·2 |
| 5 | 0 | 125·5 | 126·0 | 127·0 | 127·0 | 128·0 | 127·6 | 127·0 | 127·8 | 125·9 | 125·5 | 125·2 |
| 10 | 0 | 126·0 | 126·0 | 127·0 | 127·0 | 127·9 | 127·6 | 127·2 | 127·1 | 125·8 | 125·6 | 125·1 |
| 15 | 0 | 125·5 | 126·4 | 127·0 | 127·2 | 127·3 | 127·3 | 127·5 | 127·1 | 125·5 | 125·3 | 125·3 |
| 20 | 0 | 125·8 | 126·4 | 127·0 | 127·2 | 127·1 | 127·0 | 127·5 | 127·3 | 125·4 | 125·2 | 125·3 |
| 25 | 0 | 126·0 | 126·5 | 127·0 | 127·2 | 127·0 | 127·0 | 127·0 | 127·2 | 125·4 | 125·2 | 125·4 |
| 30 | 0 | 126·0 | 126·5 | 127·0 | 127·3 | 127·2 | 127·1 | 126·7 | 127·4 | 125·3 | 125·2 | 125·5 |
| 35 | 0 | 126·4 | 126·8 | 127·0 | 127·3 | 127·2 | 127·2 | 126·1 | 126·9 | 125·4 | 125·0 | 125·5 |
| 40 | 0 | 126·2 | 127·0 | 127·0 | 127·3 | 127·3 | 127·0 | 126·2 | 126·4 | 125·4 | 125·1 | 125·8 |
| 45 | 0 | 126·0 | 127·0 | 127·0 | 128·0 | 127·5 | 127·3 | 126·5 | 126·1 | 125·2 | 125·0 | 125·7 |
| 50 | 0 | 126·0 | 127·0 | 127·1 | 128·0 | 128·0 | 127·4 | 127·0 | 126·1 | 125·2 | 125·0 | 125·9 |
| 55 | 0 | 125·8 | 127·0 | 127·0 | 128·0 | 127·7 | 127·2 | 127·0 | 125·9 | 125·4 | 125·2 | 126·0 |

| | | One Scale Division = ·000087 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
|----|----|---|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 516·7 | 515·1 | 514·3 | 513·3 | 511·3 | 510·3 | 510·4 | 514·8 | 512·8 | 512·5 | 512·8 |
| 7 | 0 | 516·3 | 514·4 | 513·9 | 513·6 | 511·8 | 510·1 | 510·0 | 516·9 | 512·7 | 512·1 | 512·8 |
| 12 | 0 | 516·8 | 514·4 | 513·6 | 513·8 | 511·5 | 510·0 | 509·8 | 516·7 | 512·9 | 512·2 | 512·6 |
| 17 | 0 | 515·7 | 514·9 | 513·0 | 513·4 | 511·0 | 510·2 | 510·0 | 516·0 | 513·0 | 512·4 | 512·6 |
| 22 | 0 | 515·3 | 515·0 | 513·2 | 513·0 | 510·5 | 510·0 | 510·0 | 514·9 | 512·9 | 512·6 | 512·4 |
| 27 | 0 | 515·8 | 514·8 | 513·4 | 513·0 | 510·1 | 510·0 | 511·7 | 514·3 | 512·8 | 512·8 | 512·3 |
| 32 | 0 | 515·8 | 514·8 | 513·0 | 512·0 | 510·2 | 510·0 | 513·0 | 513·9 | 513·0 | 512·9 | 512·3 |
| 37 | 0 | 517·0 | 514·8 | 513·6 | 512·0 | 510·8 | 511·0 | 513·2 | 513·8 | 513·0 | 512·8 | 512·6 |
| 42 | 0 | 517·0 | 514·5 | 513·9 | 512·0 | 510·8 | 510·0 | 512·0 | 513·1 | 512·8 | 512·7 | 513·9 |
| 47 | 0 | 516·3 | 514·6 | 514·0 | 511·2 | 510·0 | 510·0 | 511·5 | 513·2 | 512·6 | 512·8 | 514·1 |
| 52 | 0 | 515·4 | 514·8 | 514·0 | 512·0 | 510·0 | 509·0 | 511·4 | 513·5 | 512·6 | 512·8 | 516·0 |
| 57 | 0 | 515·1 | 514·9 | 514·0 | 511·9 | 510·3 | 510·0 | 511·3 | 513·0 | 512·6 | 512·8 | 515·9 |

| Thermometer | 46·8 | 47·5 | 48·0 | 48·5 | 49·0 | 49·0 | 49·0 | 49·6 | 49·6 | 49·4 | 49·2 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | |

| VERTICAL FORCE. ^a | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal Force.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|--------|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | |
| D. | H. | M. | In. | ° | ° | | lbs. | | | | |
| 20 | 10 | 0 | 29·806 | 37·8 | 35·4 | W. S. W. | 0·2 | Clouded ; flexious cir.-strat. and light haze. | | | |
| | 11 | 0 | 29·825 | 36·8 | 34·8 | W. S. W. | 0·2 | Clouded ; cum.-strat., cir.-strat., and haze. | | | |
| | 12 | 0 | 29·853 | 36·4 | 34·5 | — | 0·0 | Overcast ; dense haze. | | | |
| | 13 | 0 | 29·868 | 36·0 | 34·6 | — | 0·0 | Densely clouded. | | | |
| | 14 | 0 | 29·866 | 36·0 | 34·4 | — | 0·0 | Densely clouded. | | | |
| | 15 | 0 | 29·866 | 35·8 | 34·4 | — | 0·0 | Densely clouded. | | | |
| | 16 | 0 | 29·878 | 35·2 | 34·0 | — | 0·0 | Densely clouded. | | | |
| | 17 | 0 | 29·904 | 34·5 | 33·4 | — | 0·0 | Densely clouded. | | | |
| | 18 | 0 | 29·903 | 34·3 | 33·2 | — | 0·0 | Densely clouded. | | | |
| | 19 | 0 | 29·899 | 34·1 | 33·1 | — | 0·0 | Densely clouded. | | | |
| | 20 | 0 | 29·899 | 34·1 | 33·0 | — | 0·0 | Densely clouded. | | | |
| | 21 | 0 | 29·888 | 33·9 | 33·0 | — | 0·0 | Densely clouded. | | | |

^a Vertical Force needle removed for temperature experiments.



TORONTO, 1843.

METEOROLOGICAL OBSERVATIONS.

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 2·473 | 2·391 | 2·372 | 2·352 | 2·296 | 2·260 | 2·206 | 2·179 | 2·192 | 2·213 | 2·243 | 2·251 |
| | 3 | 2·589 | 2·636 | 2·685 | 2·713 | 2·732 | 2·728 | 2·732 | 2·724 | 2·718 | 2·737 | 2·755 | 2·767 |
| | 4 | 2·773 | 2·764 | 2·765 | 2·751 | 2·723 | 2·693 | 2·660 | 2·650 | 2·643 | 2·639 | 2·657 | 2·655 |
| | 5 | 2·555 | 2·563 | 2·570 | 2·580 | 2·595 | 2·589 | 2·569 | 2·571 | 2·581 | 2·613 | 2·638 | 2·656 |
| | 6 | 2·686 | 2·696 | 2·691 | 2·675 | 2·666 | 2·636 | 2·589 | 2·548 | 2·527 | 2·512 | 2·496 | 2·492 |
| | 7 | 2·380 | 2·390 | 2·390 | 2·421 | 2·433 | 2·423 | 2·424 | 2·442 | 2·458 | 2·496 | 2·532 | 2·608 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 2·889 | 2·886 | 2·894 | 2·914 | 2·908 | 2·895 | 2·884 | 2·856 | 2·830 | 2·817 | 2·840 | 2·840 |
| | 10 | 2·579 | 2·501 | 2·572 | 2·561 | 2·561 | 2·538 | 2·518 | 2·498 | 2·506 | 2·522 | 2·557 | 2·571 |
| | 11 | 2·879 | 2·877 | 2·909 | 2·934 | 2·940 | 2·910 | 2·885 | 2·870 | 2·856 | 2·856 | 2·857 | 2·855 |
| | 12 | 2·669 | 2·673 | 2·683 | 2·653 | 2·608 | 2·590 | 2·536 | 2·528 | 2·508 | 2·480 | 2·458 | 2·426 |
| | 13 | 2·322 | 2·309 | 2·305 | 2·313 | 2·313 | 2·305 | 2·279 | 2·271 | 2·269 | 2·287 | 2·295 | 2·317 |
| | 14 | 2·391 | 2·399 | 2·402 | 2·393 | 2·390 | 2·378 | 2·354 | 2·347 | 2·347 | 2·372 | 2·387 | 2·402 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 2·980 | 3·016 | 3·066 | 3·090 | 3·106 | 3·120 | 3·108 | 3·092 | 3·098 | 3·094 | 3·128 | 3·116 |
| | 17 | 3·182 | 3·188 | 3·210 | 3·209 | 3·211 | 3·207 | 3·193 | 3·165 | 3·156 | 3·151 | 3·166 | 3·162 |
| | 18 | 3·059 | 3·067 | 3·077 | 3·073 | 3·069 | 3·056 | 3·025 | 3·000 | 2·988 | 2·982 | 2·980 | 2·969 |
| | 19 | 2·811 | 2·813 | 2·816 | 2·813 | 2·812 | 2·806 | 2·774 | 2·764 | 2·743 | 2·744 | 2·742 | 2·744 |
| | 20 | 2·875 | 2·891 | 2·901 | 2·917 | 2·927 | 2·923 | 2·891 | 2·883 | 2·880 | 2·851 | 2·846 | 2·826 |
| | 21 | 2·540 | 2·515 | 2·494 | 2·504 | 2·494 | 2·470 | 2·439 | 2·435 | 2·434 | 2·458 | 2·494 | 2·521 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 2·383 | 2·340 | 2·319 | 2·300 | 2·265 | 2·229 | 2·177 | 2·081 | 2·017 | 1·933 | 1·949 | 1·931 |
| | 24 | 1·869 | 1·889 | 1·952 | 1·982 | 2·035 | 2·043 | 2·061 | 2·071 | 2·117 | 2·169 | 2·209 | 2·229 |
| | 25 | 2·135 | 2·146 | 2·177 | 2·210 | 2·260 | 2·305 | 2·358 | 2·394 | 2·435 | 2·490 | 2·542 | 2·584 |
| | 26 | 2·874 | 2·888 | 2·892 | 2·916 | 2·920 | 2·913 | 2·880 | 2·893 | 2·856 | 2·832 | 2·825 | 2·810 |
| | 27 | 2·636 | 2·646 | 2·649 | 2·677 | 2·687 | 2·677 | 2·678 | 2·656 | 2·655 | 2·655 | 2·656 | 2·648 |
| | 28 | 2·588 | 2·612 | 2·634 | 2·648 | 2·674 | 2·682 | 2·672 | 2·670 | 2·676 | 2·692 | 2·705 | 2·723 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 2·684 | 2·680 | 2·675 | 2·648 | 2·628 | 2·591 | 2·548 | 2·520 | 2·497 | 2·490 | 2·465 | 2·451 |
| | 31 | 2·091 | 2·107 | 2·075 | 2·014 | 1·975 | 1·899 | 1·837 | 1·787 | 1·756 | 1·708 | 1·672 | 1·630 |
| Hourly Means | 2·6112 | 2·6109 | 2·6221 | 2·6254 | 2·6242 | 2·6102 | 2·5876 | 2·5729 | 2·5670 | 2·5690 | 2·5805 | 2·5840 | |
| FEBRUARY. | 1 | 1·948 | 1·993 | 2·047 | 2·060 | 2·068 | 2·084 | 2·087 | 2·070 | 2·061 | 2·074 | 2·076 | 2·099 |
| | 2 | 2·564 | 2·610 | 2·687 | 2·717 | 2·750 | 2·770 | 2·767 | 2·761 | 2·760 | 2·769 | 2·776 | 2·776 |
| | 3 | 2·643 | 2·653 | 2·683 | 2·678 | 2·687 | 2·686 | 2·662 | 2·653 | 2·654 | 2·665 | 2·685 | 2·716 |
| | 4 | 2·798 | 2·821 | 2·836 | 2·844 | 2·842 | 2·838 | 2·832 | 2·805 | 2·792 | 2·794 | 2·801 | 2·815 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 2·175 | 2·169 | 2·194 | 2·190 | 2·175 | 2·161 | 2·155 | 2·154 | 2·148 | 2·180 | 2·204 | 2·250 |
| | 7 | 2·513 | 2·526 | 2·597 | 2·648 | 2·678 | 2·703 | 2·705 | 2·601 | 2·703 | 2·722 | 2·745 | 2·756 |
| | 8 | 2·847 | 2·849 | 2·868 | 2·858 | 2·852 | 2·845 | 2·797 | 2·777 | 2·776 | 2·774 | 2·784 | 2·802 |
| | 9 | 2·961 | 2·982 | 3·012 | 3·016 | 3·029 | 3·028 | 3·018 | 3·011 | 2·994 | 2·992 | 3·004 | 3·002 |
| | 10 | 2·951 | 2·941 | 2·906 | 2·862 | 2·795 | 2·757 | 2·698 | 2·629 | 2·534 | 2·465 | 2·399 | 2·351 |
| | 11 | 2·116 | 2·190 | 2·281 | 2·326 | 2·375 | 2·403 | 2·413 | 2·433 | 2·432 | 2·446 | 2·452 | 2·454 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 2·807 | 2·826 | 2·878 | 2·894 | 2·893 | 2·888 | 2·870 | 2·873 | 2·859 | 2·860 | 2·862 | 2·874 |
| | 14 | 2·744 | 2·707 | 2·716 | 2·679 | 2·652 | 2·632 | 2·549 | 2·505 | 2·474 | 2·456 | 2·451 | 2·447 |
| | 15 | 2·307 | 2·315 | 2·315 | 2·322 | 2·311 | 2·308 | 2·283 | 2·260 | 2·257 | 2·269 | 2·290 | 2·317 |
| | 16 | 2·552 | 2·583 | 2·620 | 2·625 | 2·635 | 2·624 | 2·614 | 2·617 | 2·632 | 2·647 | 2·663 | 2·679 |
| | 17 | 2·708 | 2·709 | 2·735 | 2·735 | 2·729 | 2·719 | 2·696 | 2·672 | 2·664 | 2·671 | 2·680 | 2·691 |
| | 18 | 2·775 | 2·776 | 2·822 | 2·826 | 2·829 | 2·820 | 2·797 | 2·778 | 2·762 | 2·758 | 2·757 | 2·760 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 2·498 | 2·538 | 2·550 | 2·550 | 2·527 | 2·508 | 2·499 | 2·468 | 2·453 | 2·458 | 2·438 | 2·423 |
| | 21 | 2·218 | 2·215 | 2·204 | 2·184 | 2·170 | 2·165 | 2·157 | 2·142 | 2·135 | 2·147 | 2·152 | 2·170 |
| | 22 | 2·217 | 2·227 | 2·220 | 2·234 | 2·242 | 2·247 | 2·255 | 2·259 | 2·263 | 2·289 | 2·325 | 2·367 |
| | 23 | 2·499 | 2·507 | 2·534 | 2·549 | 2·544 | 2·544 | 2·543 | 2·545 | 2·538 | 2·529 | 2·515 | 2·538 |
| | 24 | 2·450 | 2·494 | 2·451 | 2·448 | 2·426 | 2·413 | 2·409 | 2·386 | 2·363 | 2·348 | 2·337 | 2·338 |
| | 25 | 2·295 | 2·295 | 2·285 | 2·282 | 2·265 | 2·248 | 2·233 | 2·196 | 2·182 | 2·199 | 2·224 | 2·250 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 2·439 | 2·450 | 2·498 | 2·511 | 2·543 | 2·588 | 2·607 | 2·604 | 2·618 | 2·649 | 2·666 | 2·680 |
| | 28 | 2·754 | 2·771 | 2·793 | 2·794 | 2·797 | 2·773 | 2·758 | 2·735 | 2·725 | 2·707 | 2·678 | 2·679 |
| Hourly Means | 2·5325 | 2·5478 | 2·5722 | 2·5763 | 2·5756 | 2·5730 | 2·5585 | 2·5389 | 2·5325 | 2·5362 | 2·5402 | 2·5514 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English Inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | 2.3324 |
| 2.268 | 2.288 | 2.314 | 2.332 | 2.328 | 2.347 | 2.363 | 2.395 | 2.417 | 2.448 | 2.503 | 2.547 | 2.7472 |
| 2.788 | 2.783 | 2.798 | 2.798 | 2.793 | 2.787 | 2.787 | 2.787 | 2.783 | 2.782 | 2.766 | 2.766 | 2.6575 |
| 2.654 | 2.666 | 2.657 | 2.656 | 2.647 | 2.643 | 2.611 | 2.599 | 2.595 | 2.581 | 2.546 | 2.551 | 2.6438 |
| 2.672 | 2.688 | 2.693 | 2.708 | 2.717 | 2.711 | 2.703 | 2.699 | 2.705 | 2.705 | 2.684 | 2.686 | 2.5047 |
| 2.483 | 2.480 | 2.466 | 2.444 | 2.423 | 2.413 | 2.365 | 2.365 | 2.375 | 2.374 | 2.354 | 2.357 | — |
| 2.634 | 2.618 | 2.607 | 2.597 | 2.597 | 2.586 | — | — | — | — | — | — | 2.5834 |
| — | — | — | — | — | — | 2.774 | 2.800 | 2.831 | 2.842 | 2.854 | 2.864 | 2.7884 |
| 2.830 | 2.820 | 2.792 | 2.761 | 2.749 | 2.745 | 2.674 | 2.665 | 2.643 | 2.623 | 2.585 | 2.581 | 2.6553 |
| 2.607 | 2.638 | 2.676 | 2.725 | 2.761 | 2.781 | 2.793 | 2.819 | 2.851 | 2.859 | 2.859 | 2.875 | 2.8250 |
| 2.842 | 2.834 | 2.820 | 2.796 | 2.787 | 2.772 | 2.755 | 2.743 | 2.733 | 2.713 | 2.695 | 2.682 | 2.4634 |
| 2.416 | 2.428 | 2.396 | 2.376 | 2.371 | 2.367 | 2.338 | 2.334 | 2.334 | 2.318 | 2.310 | 2.322 | 2.3353 |
| 2.335 | 2.331 | 2.354 | 2.368 | 2.369 | 2.375 | 2.375 | 2.385 | 2.393 | 2.389 | 2.395 | 2.393 | — |
| 2.420 | 2.452 | 2.480 | 2.522 | 2.604 | 2.642 | — | — | — | — | — | — | 2.5478 |
| — | — | — | — | — | — | 2.857 | 2.883 | 2.903 | 2.929 | 2.943 | 2.950 | 3.1163 |
| 3.116 | 3.138 | 3.144 | 3.144 | 3.146 | 3.148 | 3.144 | 3.148 | 3.152 | 3.174 | 3.168 | 3.156 | 3.1530 |
| 3.161 | 3.164 | 3.168 | 3.135 | 3.135 | 3.122 | 3.106 | 3.094 | 3.094 | 3.091 | 3.082 | 3.119 | 2.9640 |
| 2.961 | 2.960 | 2.946 | 2.945 | 2.927 | 2.909 | 2.911 | 2.879 | 2.861 | 2.841 | 2.824 | 2.826 | 2.7942 |
| 2.760 | 2.765 | 2.776 | 2.794 | 2.802 | 2.803 | 2.805 | 2.813 | 2.827 | 2.841 | 2.845 | 2.849 | 2.7880 |
| 2.796 | 2.797 | 2.777 | 2.759 | 2.731 | 2.715 | 2.688 | 2.652 | 2.644 | 2.606 | 2.580 | 2.556 | — |
| 2.557 | 2.598 | 2.621 | 2.642 | 2.646 | 2.647 | — | — | — | — | — | — | 2.5171 |
| — | — | — | — | — | — | 2.538 | 2.521 | 2.507 | 2.473 | 2.449 | 2.413 | 2.0300 |
| 1.916 | 1.921 | 1.925 | 1.919 | 1.914 | 1.906 | 1.884 | 1.878 | 1.882 | 1.887 | 1.883 | 1.881 | 2.1096 |
| 2.243 | 2.229 | 2.224 | 2.215 | 2.199 | 2.187 | 2.139 | 2.133 | 2.110 | 2.094 | 2.111 | 2.121 | 2.5500 |
| 2.604 | 2.666 | 2.697 | 2.701 | 2.742 | 2.774 | 2.781 | 2.800 | 2.837 | 2.840 | 2.859 | 2.863 | 2.7957 |
| 2.799 | 2.787 | 2.787 | 2.761 | 2.713 | 2.735 | 2.717 | 2.680 | 2.677 | 2.663 | 2.656 | 2.622 | 2.6321 |
| 2.663 | 2.677 | 2.647 | 2.601 | 2.608 | 2.597 | 2.569 | 2.568 | 2.566 | 2.604 | 2.591 | 2.559 | — |
| 2.739 | 2.762 | 2.774 | 2.784 | 2.791 | 2.813 | — | — | — | — | — | — | 2.7145 |
| — | — | — | — | — | — | 2.782 | 2.784 | 2.779 | 2.756 | 2.717 | 2.691 | 2.4381 |
| 2.433 | 2.413 | 2.380 | 2.356 | 2.330 | 2.314 | 2.294 | 2.256 | 2.256 | 2.229 | 2.205 | 2.171 | 1.7989 |
| 1.621 | 1.585 | 1.579 | 1.587 | 1.612 | 1.675 | 1.731 | 1.789 | 1.818 | 1.847 | 1.872 | 1.912 | — |
| 2.5892 | 2.5957 | 2.5961 | 2.5933 | 2.5939 | 2.5967 | 2.6016 | 2.5995 | 2.6018 | 2.5971 | 2.5890 | 2.5866 | 2.5961 |
| 2.128 | 2.168 | 2.209 | 2.231 | 2.246 | 2.270 | 2.314 | 2.371 | 2.417 | 2.464 | 2.492 | 2.524 | 2.1875 |
| 2.770 | 2.752 | 2.759 | 2.755 | 2.745 | 2.734 | 2.711 | 2.704 | 2.711 | 2.692 | 2.682 | 2.654 | 2.7240 |
| 2.740 | 2.754 | 2.750 | 2.749 | 2.768 | 2.772 | 2.772 | 2.764 | 2.782 | 2.794 | 2.790 | 2.795 | 2.7206 |
| 2.829 | 2.823 | 2.795 | 2.766 | 2.734 | 2.716 | — | — | — | — | — | — | 2.6299 |
| — | — | — | — | — | — | 2.063 | 2.081 | 2.097 | 2.105 | 2.135 | 2.155 | 2.2786 |
| 2.271 | 2.276 | 2.303 | 2.328 | 2.346 | 2.367 | 2.390 | 2.414 | 2.430 | 2.452 | 2.474 | 2.480 | 2.7456 |
| 2.772 | 2.806 | 2.812 | 2.840 | 2.842 | 2.848 | 2.847 | 2.841 | 2.847 | 2.852 | 2.842 | 2.848 | 2.8577 |
| 2.827 | 2.837 | 2.845 | 2.862 | 2.886 | 2.904 | 2.904 | 2.915 | 2.934 | 2.941 | 2.949 | 2.953 | 3.0224 |
| 3.026 | 3.046 | 3.050 | 3.074 | 3.078 | 3.061 | 3.053 | 3.047 | 3.043 | 3.029 | 3.003 | 2.979 | 2.3693 |
| 2.301 | 2.254 | 2.175 | 2.091 | 2.021 | 1.939 | 1.895 | 1.879 | 1.921 | 1.983 | 2.049 | 2.068 | — |
| 2.475 | 2.482 | 2.478 | 2.487 | 2.486 | 2.482 | — | — | — | — | — | — | 2.5009 |
| — | — | — | — | — | — | 2.797 | 2.791 | 2.795 | 2.810 | 2.820 | 2.797 | 2.8558 |
| 2.874 | 2.882 | 2.876 | 2.873 | 2.866 | 2.868 | 2.878 | 2.849 | 2.836 | 2.816 | 2.786 | 2.752 | 2.4706 |
| 2.447 | 2.429 | 2.389 | 2.391 | 2.364 | 2.345 | 2.324 | 2.330 | 2.322 | 2.324 | 2.316 | 2.302 | 2.3670 |
| 2.342 | 2.362 | 2.381 | 2.409 | 2.420 | 2.432 | 2.451 | 2.466 | 2.484 | 2.488 | 2.496 | 2.522 | 2.6688 |
| 2.690 | 2.705 | 2.719 | 2.731 | 2.719 | 2.714 | 2.716 | 2.715 | 2.712 | 2.707 | 2.713 | 2.720 | 2.7218 |
| 2.699 | 2.706 | 2.708 | 2.740 | 2.749 | 2.749 | 2.754 | 2.750 | 2.766 | 2.763 | 2.769 | 2.761 | — |
| 2.766 | 2.760 | 2.746 | 2.735 | 2.716 | 2.712 | — | — | — | — | — | — | 2.6940 |
| — | — | — | — | — | — | 2.425 | 2.437 | 2.458 | 2.470 | 2.480 | 2.490 | 2.4100 |
| 2.417 | 2.401 | 2.386 | 2.366 | 2.346 | 2.332 | 2.308 | 2.307 | 2.289 | 2.278 | 2.258 | 2.243 | 2.1977 |
| 2.179 | 2.205 | 2.218 | 2.232 | 2.246 | 2.259 | 2.247 | 2.229 | 2.229 | 2.213 | 2.213 | 2.215 | 2.3766 |
| 2.405 | 2.446 | 2.472 | 2.488 | 2.505 | 2.514 | 2.531 | 2.522 | 2.510 | 2.502 | 2.500 | 2.498 | 2.5269 |
| 2.552 | 2.562 | 2.559 | 2.569 | 2.562 | 2.541 | 2.528 | 2.510 | 2.498 | 2.461 | 2.455 | 2.464 | 2.3676 |
| 2.348 | 2.351 | 2.353 | 2.346 | 2.337 | 2.330 | 2.326 | 2.332 | 2.323 | 2.309 | 2.311 | 2.293 | — |
| 2.282 | 2.288 | 2.308 | 2.328 | 2.338 | 2.366 | — | — | — | — | — | — | 2.3085 |
| — | — | — | — | — | — | 2.447 | 2.440 | 2.438 | 2.403 | 2.406 | 2.407 | 2.6619 |
| 2.697 | 2.715 | 2.727 | 2.751 | 2.773 | 2.781 | 2.767 | 2.767 | 2.758 | 2.764 | 2.764 | 2.774 | 2.6952 |
| 2.677 | 2.682 | 2.671 | 2.673 | 2.668 | 2.650 | 2.639 | 2.635 | 2.631 | 2.623 | 2.591 | 2.580 | — |
| 2.5631 | 2.5705 | 2.5704 | 2.5756 | 2.5734 | 2.5702 | 2.5453 | 2.5457 | 2.5513 | 2.5515 | 2.5539 | 2.5531 | 2.5566 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 2.561 | 2.572 | 2.573 | 2.566 | 2.578 | 2.567 | 2.555 | 2.535 | 2.533 | 2.531 | 2.525 | 2.535 |
| | 2 | 2.680 | 2.715 | 2.759 | 2.766 | 2.770 | 2.783 | 2.781 | 2.774 | 2.777 | 2.777 | 2.794 | 2.812 |
| | 3 | 2.897 | 2.903 | 2.913 | 2.911 | 2.904 | 2.898 | 2.899 | 2.885 | 2.880 | 2.874 | 2.865 | 2.880 |
| | 4 | 2.935 | 2.956 | 2.985 | 2.971 | 2.984 | 2.958 | 2.933 | 2.906 | 2.889 | 2.869 | 2.861 | 2.857 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 2.902 | 2.931 | 2.952 | 2.956 | 2.964 | 2.957 | 2.959 | 2.939 | 2.940 | 2.944 | 2.963 | 2.976 |
| | 7 | 3.045 | 3.064 | 3.066 | 3.073 | 3.087 | 3.063 | 3.040 | 3.006 | 2.982 | 2.971 | 2.947 | 2.942 |
| | 8 | 2.796 | 2.779 | 2.769 | 2.758 | 2.727 | 2.714 | 2.682 | 2.666 | 2.631 | 2.631 | 2.632 | 2.642 |
| | 9 | 2.834 | 2.837 | 2.848 | 2.880 | 2.894 | 2.891 | 2.893 | 2.871 | 2.865 | 2.840 | 2.843 | 2.835 |
| | 10 | 2.489 | 2.497 | 2.449 | 2.411 | 2.389 | 2.361 | 2.344 | 2.300 | 2.271 | 2.242 | 2.211 | 2.172 |
| | 11 | 2.381 | 2.415 | 2.464 | 2.513 | 2.548 | 2.574 | 2.598 | 2.628 | 2.643 | 2.679 | 2.698 | 2.713 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 2.547 | 2.543 | 2.521 | 2.502 | 2.489 | 2.471 | 2.440 | 2.403 | 2.390 | 2.380 | 2.368 | 2.364 |
| | 14 | 2.556 | 2.552 | 2.560 | 2.555 | 2.554 | 2.540 | 2.537 | 2.500 | 2.484 | 2.453 | 2.435 | 2.423 |
| | 15 | 2.182 | 2.231 | 2.298 | 2.314 | 2.340 | 2.376 | 2.414 | 2.438 | 2.481 | 2.517 | 2.553 | 2.578 |
| | 16 | 2.693 | 2.704 | 2.700 | 2.702 | 2.690 | 2.666 | 2.670 | 2.633 | 2.613 | 2.618 | 2.596 | 2.569 |
| | 17 | 2.305 | 2.291 | 2.291 | 2.289 | 2.274 | 2.261 | 2.257 | 2.246 | 2.237 | 2.242 | 2.241 | 2.270 |
| | 18 | 2.295 | 2.305 | 2.318 | 2.298 | 2.300 | 2.292 | 2.286 | 2.285 | 2.277 | 2.275 | 2.283 | 2.287 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 2.353 | 2.357 | 2.393 | 2.403 | 2.428 | 2.431 | 2.426 | 2.420 | 2.420 | 2.433 | 2.436 | 2.452 |
| | 21 | 2.504 | 2.502 | 2.508 | 2.500 | 2.492 | 2.483 | 2.457 | 2.437 | 2.419 | 2.407 | 2.400 | 2.397 |
| | 22 | 2.303 | 2.290 | 2.272 | 2.267 | 2.248 | 2.221 | 2.190 | 2.172 | 2.169 | 2.166 | 2.162 | 2.169 |
| | 23 | 2.293 | 2.303 | 2.298 | 2.296 | 2.278 | 2.268 | 2.264 | 2.246 | 2.264 | 2.277 | 2.291 | 2.318 |
| | 24 | 2.493 | 2.511 | 2.520 | 2.530 | 2.538 | 2.541 | 2.540 | 2.525 | 2.519 | 2.517 | 2.500 | 2.502 |
| | 25 | 2.451 | 2.435 | 2.413 | 2.400 | 2.379 | 2.369 | 2.351 | 2.338 | 2.326 | 2.316 | 2.335 | 2.377 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 2.854 | 2.850 | 2.808 | 2.755 | 2.762 | 2.749 | 2.714 | 2.667 | 2.647 | 2.598 | 2.554 | 2.515 |
| | 28 | 1.826 | 1.770 | 1.730 | 1.684 | 1.659 | 1.645 | 1.635 | 1.639 | 1.664 | 1.698 | 1.758 | 1.855 |
| | 29 | 2.495 | 2.519 | 2.533 | 2.543 | 2.549 | 2.560 | 2.546 | 2.537 | 2.538 | 2.539 | 2.539 | 2.570 |
| | 30 | 2.914 | 2.937 | 2.981 | 3.020 | 3.019 | 3.020 | 2.977 | 2.992 | 2.981 | 2.962 | 2.954 | 2.952 |
| | 31 | 2.753 | 2.739 | 2.685 | 2.693 | 2.654 | 2.610 | 2.594 | 2.568 | 2.538 | 2.528 | 2.504 | 2.500 |
| Hourly Means | 2.5680 | 2.5744 | 2.5780 | 2.5761 | 2.5740 | 2.5655 | 2.5560 | 2.5391 | 2.5325 | 2.5290 | 2.5277 | 2.5356 | |
| APRIL. | 1 | 2.587 | 2.607 | 2.639 | 2.662 | 2.676 | 2.682 | 2.691 | 2.698 | 2.707 | 2.720 | 2.732 | 2.764 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 2.938 | 2.940 | 2.940 | 2.954 | 2.958 | 2.951 | 2.931 | 2.914 | 2.891 | 2.871 | 2.861 | 2.862 |
| | 4 | 2.780 | 2.784 | 2.799 | 2.780 | 2.774 | 2.739 | 2.729 | 2.727 | 2.709 | 2.694 | 2.684 | 2.672 |
| | 5 | 2.606 | 2.608 | 2.613 | 2.613 | 2.614 | 2.612 | 2.601 | 2.582 | 2.571 | 2.563 | 2.558 | 2.560 |
| | 6 | 2.590 | 2.601 | 2.603 | 2.603 | 2.608 | 2.601 | 2.591 | 2.584 | 2.580 | 2.580 | 2.581 | 2.598 |
| | 7 | 2.684 | 2.717 | 2.714 | 2.717 | 2.697 | 2.666 | 2.634 | 2.616 | 2.547 | 2.516 | 2.483 | 2.453 |
| | 8 | 2.089 | 2.083 | 2.110 | 2.085 | 2.079 | 2.080 | 2.072 | 2.043 | 2.019 | 2.010 | 2.000 | 2.014 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 2.556 | 2.578 | 2.582 | 2.579 | 2.585 | 2.568 | 2.549 | 2.533 | 2.531 | 2.534 | 2.556 | 2.559 |
| | 11 | 2.648 | 2.666 | 2.674 | 2.675 | 2.658 | 2.636 | 2.623 | 2.612 | 2.587 | 2.569 | 2.553 | 2.548 |
| | 12 | 2.656 | 2.662 | 2.665 | 2.682 | 2.685 | 2.683 | 2.688 | 2.679 | 2.671 | 2.665 | 2.667 | 2.678 |
| | 13 | 2.665 | 2.673 | 2.675 | 2.677 | 2.686 | 2.685 | 2.694 | 2.690 | 2.682 | 2.682 | 2.674 | 2.678 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 2.524 | 2.540 | 2.538 | 2.540 | 2.521 | 2.510 | 2.502 | 2.498 | 2.487 | 2.477 | 2.478 | 2.474 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 2.720 | 2.742 | 2.747 | 2.740 | 2.729 | 2.722 | 2.718 | 2.708 | 2.696 | 2.671 | 2.659 | 2.667 |
| | 18 | 2.700 | 2.732 | 2.733 | 2.749 | 2.757 | 2.758 | 2.760 | 2.765 | 2.766 | 2.766 | 2.794 | 2.786 |
| | 19 | 2.824 | 2.826 | 2.838 | 2.842 | 2.850 | 2.836 | 2.818 | 2.827 | 2.824 | 2.803 | 2.812 | 2.813 |
| | 20 | 2.844 | 2.882 | 2.880 | 2.893 | 2.909 | 2.888 | 2.870 | 2.855 | 2.858 | 2.863 | 2.861 | 2.846 |
| | 21 | 2.878 | 2.890 | 2.873 | 2.877 | 2.861 | 2.838 | 2.811 | 2.788 | 2.775 | 2.746 | 2.725 | 2.717 |
| | 22 | 2.639 | 2.633 | 2.633 | 2.606 | 2.581 | 2.574 | 2.550 | 2.513 | 2.507 | 2.466 | 2.442 | 2.434 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 2.434 | 2.446 | 2.462 | 2.480 | 2.494 | 2.501 | 2.503 | 2.509 | 2.506 | 2.522 | 2.530 | 2.554 |
| | 25 | 2.615 | 2.642 | 2.626 | 2.630 | 2.608 | 2.585 | 2.560 | 2.562 | 2.530 | 2.515 | 2.492 | 2.476 |
| | 26 | 2.306 | 2.291 | 2.301 | 2.285 | 2.266 | 2.253 | 2.254 | 2.262 | 2.253 | 2.258 | 2.255 | 2.267 |
| | 27 | 2.281 | 2.322 | 2.322 | 2.327 | 2.341 | 2.377 | 2.363 | 2.382 | 2.373 | 2.396 | 2.415 | 2.429 |
| | 28 | 2.505 | 2.503 | 2.504 | 2.497 | 2.489 | 2.470 | 2.443 | 2.434 | 2.423 | 2.431 | 2.456 | 2.480 |
| | 29 | 2.727 | 2.756 | 2.767 | 2.776 | 2.758 | 2.749 | 2.733 | 2.727 | 2.712 | 2.688 | 2.661 | 2.642 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2.6165 | 2.6302 | 2.6345 | 2.6362 | 2.6327 | 2.6235 | 2.6120 | 2.6045 | 2.5919 | 2.5836 | 2.5804 | 2.5821 | |

^a Good Friday.

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English Inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.555 | 2.555 | 2.556 | 2.576 | 2.580 | 2.586 | 2.588 | 2.597 | 2.611 | 2.619 | 2.644 | 2.665 | 2.5735 |
| 2.836 | 2.856 | 2.866 | 2.879 | 2.893 | 2.888 | 2.888 | 2.898 | 2.905 | 2.911 | 2.905 | 2.897 | 2.8254 |
| 2.876 | 2.884 | 2.895 | 2.893 | 2.888 | 2.894 | 2.950 | 2.953 | 2.953 | 2.947 | 2.936 | 2.920 | 2.9041 |
| 2.850 | 2.845 | 2.866 | 2.877 | 2.874 | 2.878 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.831 | 2.843 | 2.864 | 2.854 | 2.858 | 2.876 | 2.8925 |
| 2.998 | 3.012 | 3.007 | 3.003 | 3.005 | 3.015 | 3.039 | 3.038 | 3.018 | 3.010 | 3.026 | 3.036 | 2.9829 |
| 2.928 | 2.920 | 2.912 | 2.921 | 2.903 | 2.862 | 2.862 | 2.854 | 2.847 | 2.819 | 2.804 | 2.798 | 2.9465 |
| 2.656 | 2.680 | 2.690 | 2.694 | 2.704 | 2.721 | 2.746 | 2.759 | 2.765 | 2.778 | 2.788 | 2.810 | 2.7174 |
| 2.812 | 2.793 | 2.776 | 2.772 | 2.773 | 2.765 | 2.727 | 2.654 | 2.646 | 2.626 | 2.566 | 2.537 | 2.7824 |
| 2.148 | 2.136 | 2.133 | 2.125 | 2.143 | 2.173 | 2.187 | 2.216 | 2.248 | 2.280 | 2.318 | 2.345 | 2.2745 |
| 2.728 | 2.752 | 2.778 | 2.815 | 2.841 | 2.842 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.658 | 2.637 | 2.614 | 2.578 | 2.559 | 2.553 | 2.6337 |
| 2.384 | 2.414 | 2.438 | 2.465 | 2.475 | 2.492 | 2.505 | 2.518 | 2.521 | 2.525 | 2.531 | 2.539 | 2.4677 |
| 2.419 | 2.402 | 2.386 | 2.368 | 2.332 | 2.293 | 2.260 | 2.228 | 2.193 | 2.172 | 2.162 | 2.178 | 2.3976 |
| 2.604 | 2.628 | 2.659 | 2.663 | 2.670 | 2.673 | 2.682 | 2.686 | 2.693 | 2.687 | 2.682 | 2.704 | 2.5314 |
| 2.567 | 2.543 | 2.552 | 2.512 | 2.490 | 2.491 | 2.456 | 2.431 | 2.394 | 2.362 | 2.346 | 2.312 | 2.5546 |
| 2.291 | 2.296 | 2.300 | 2.310 | 2.302 | 2.301 | 2.297 | 2.289 | 2.288 | 2.285 | 2.289 | 2.293 | 2.2810 |
| 2.300 | 2.309 | 2.317 | 2.308 | 2.300 | 2.295 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.345 | 2.342 | 2.334 | 2.335 | 2.345 | 2.348 | 2.3075 |
| 2.470 | 2.496 | 2.522 | 2.531 | 2.531 | 2.539 | 2.532 | 2.525 | 2.498 | 2.492 | 2.492 | 2.492 | 2.4613 |
| 2.400 | 2.403 | 2.413 | 2.400 | 2.392 | 2.380 | 2.371 | 2.353 | 2.341 | 2.335 | 2.332 | 2.309 | 2.4140 |
| 2.184 | 2.193 | 2.210 | 2.211 | 2.219 | 2.237 | 2.232 | 2.246 | 2.277 | 2.277 | 2.286 | 2.283 | 2.2285 |
| 2.318 | 2.328 | 2.336 | 2.353 | 2.351 | 2.360 | 2.384 | 2.397 | 2.408 | 2.422 | 2.448 | 2.471 | 2.3322 |
| 2.492 | 2.493 | 2.501 | 2.506 | 2.512 | 2.504 | 2.501 | 2.483 | 2.465 | 2.464 | 2.462 | 2.449 | 2.5028 |
| 2.403 | 2.438 | 2.469 | 2.504 | 2.520 | 2.538 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.944 | 2.936 | 2.905 | 2.902 | 2.882 | 2.876 | 2.5336 |
| 2.478 | 2.440 | 2.394 | 2.327 | 2.290 | 2.209 | 2.132 | 2.074 | 2.019 | 1.945 | 1.905 | 1.873 | 2.4400 |
| 1.921 | 1.991 | 2.065 | 2.106 | 2.153 | 2.216 | 2.239 | 2.303 | 2.361 | 2.402 | 2.441 | 2.449 | 1.9671 |
| 2.601 | 2.625 | 2.657 | 2.689 | 2.709 | 2.725 | 2.748 | 2.783 | 2.818 | 2.847 | 2.873 | 2.876 | 2.6425 |
| 2.934 | 2.951 | 2.945 | 2.928 | 2.929 | 2.911 | 2.885 | 2.869 | 2.849 | 2.829 | 2.793 | 2.757 | 2.9287 |
| 2.477 | 2.464 | 2.454 | 2.444 | 2.442 | 2.424 | 2.440 | 2.461 | 2.474 | 2.504 | 2.536 | 2.567 | 2.5439 |
| 2.5419 | 2.5499 | 2.5591 | 2.5622 | 2.5637 | 2.5634 | 2.5714 | 2.5694 | 2.5670 | 2.5632 | 2.5633 | 2.5634 | 2.5580 |
| 2.797 | 2.819 | 2.837 | 2.853 | 2.845 | 2.848 | — | — | — | — | — | — | 2.7731 |
| — | — | — | — | — | — | 2.887 | 2.895 | 2.900 | 2.894 | 2.900 | 2.914 | — |
| 2.877 | 2.871 | 2.874 | 2.854 | 2.829 | 2.822 | 2.824 | 2.828 | 2.811 | 2.798 | 2.789 | 2.782 | 2.8738 |
| 2.658 | 2.654 | 2.654 | 2.656 | 2.631 | 2.625 | 2.626 | 2.614 | 2.606 | 2.607 | 2.606 | 2.594 | 2.6830 |
| 2.570 | 2.581 | 2.592 | 2.592 | 2.592 | 2.591 | 2.586 | 2.578 | 2.567 | 2.575 | 2.573 | 2.585 | 2.5868 |
| 2.618 | 2.633 | 2.647 | 2.651 | 2.661 | 2.661 | 2.662 | 2.665 | 2.663 | 2.668 | 2.677 | 2.701 | 2.6261 |
| 2.412 | 2.380 | 2.360 | 2.328 | 2.270 | 2.225 | 2.190 | 2.155 | 2.123 | 2.111 | 2.101 | 2.091 | 2.4246 |
| 2.014 | 2.039 | 2.033 | 2.034 | 2.021 | 2.019 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.448 | 2.456 | 2.467 | 2.487 | 2.516 | 2.530 | 2.1562 |
| 2.569 | 2.583 | 2.599 | 2.616 | 2.618 | 2.623 | 2.617 | 2.609 | 2.611 | 2.617 | 2.621 | 2.653 | 2.5852 |
| 2.549 | 2.555 | 2.579 | 2.603 | 2.602 | 2.598 | 2.605 | 2.604 | 2.607 | 2.606 | 2.627 | 2.648 | 2.6097 |
| 2.670 | 2.669 | 2.670 | 2.694 | 2.689 | 2.686 | 2.673 | 2.653 | 2.649 | 2.648 | 2.651 | 2.661 | 2.6706 |
| 2.682 | 2.680 | 2.686 | 2.691 | 2.696 | 2.696 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.541 | 2.533 | 2.515 | 2.513 | 2.515 | 2.519 | 2.6428 |
| 2.500 | 2.522 | 2.550 | 2.559 | 2.582 | 2.581 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.620 | 2.622 | 2.627 | 2.657 | 2.670 | 2.673 | 2.5522 |
| 2.724 | 2.713 | 2.717 | 2.699 | 2.700 | 2.696 | 2.689 | 2.649 | 2.650 | 2.643 | 2.656 | 2.659 | 2.6964 |
| 2.788 | 2.811 | 2.821 | 2.829 | 2.829 | 2.829 | 2.825 | 2.810 | 2.800 | 2.794 | 2.806 | 2.810 | 2.7841 |
| 2.813 | 2.810 | 2.816 | 2.803 | 2.800 | 2.796 | 2.793 | 2.790 | 2.794 | 2.804 | 2.824 | 2.834 | 2.8162 |
| 2.848 | 2.845 | 2.852 | 2.852 | 2.855 | 2.871 | 2.866 | 2.853 | 2.849 | 2.852 | 2.855 | 2.866 | 2.8630 |
| 2.699 | 2.697 | 2.686 | 2.672 | 2.676 | 2.660 | 2.656 | 2.635 | 2.613 | 2.600 | 2.611 | 2.633 | 2.7340 |
| 2.445 | 2.393 | 2.375 | 2.356 | 2.341 | 2.323 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.339 | 2.344 | 2.350 | 2.372 | 2.382 | 2.398 | 2.4582 |
| 2.556 | 2.574 | 2.589 | 2.627 | 2.619 | 2.621 | 2.602 | 2.600 | 2.600 | 2.588 | 2.594 | 2.601 | 2.5463 |
| 2.440 | 2.447 | 2.420 | 2.431 | 2.391 | 2.385 | 2.356 | 2.326 | 2.298 | 2.283 | 2.284 | 2.292 | 2.4664 |
| 2.269 | 2.283 | 2.253 | 2.255 | 2.269 | 2.279 | 2.253 | 2.259 | 2.262 | 2.257 | 2.244 | 2.244 | 2.2658 |
| 2.440 | 2.452 | 2.486 | 2.496 | 2.509 | 2.519 | 2.522 | 2.504 | 2.500 | 2.509 | 2.503 | 2.496 | 2.4277 |
| 2.516 | 2.538 | 2.569 | 2.607 | 2.622 | 2.637 | 2.645 | 2.648 | 2.651 | 2.655 | 2.700 | 2.704 | 2.5470 |
| 2.619 | 2.601 | 2.585 | 2.579 | 2.572 | 2.538 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.240 | 2.241 | 2.249 | 2.268 | 2.271 | 2.272 | 2.5721 |
| 2.5864 | 2.5896 | 2.5938 | 2.5974 | 2.5925 | 2.5887 | 2.5860 | 2.5780 | 2.5734 | 2.5752 | 2.5823 | 2.5900 | 2.5984 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. } | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MAY. | 1 | 2·296 | 2·308 | 2·316 | 2·331 | 2·363 | 2·390 | 2·405 | 2·426 | 2·469 | 2·478 | 2·522 | 2·551 |
| | 2 | 2·867 | 2·876 | 2·907 | 2·916 | 2·934 | 2·930 | 2·924 | 2·919 | 2·909 | 2·904 | 2·898 | 2·904 |
| | 3 | 2·948 | 2·961 | 2·968 | 2·960 | 2·960 | 2·937 | 2·920 | 2·910 | 2·889 | 2·871 | 2·856 | 2·854 |
| | 4 | 2·855 | 2·877 | 2·868 | 2·898 | 2·898 | 2·912 | 2·919 | 2·937 | 2·929 | 2·926 | 2·926 | 2·947 |
| | 5 | 3·061 | 3·075 | 3·102 | 3·068 | 3·093 | 3·084 | 3·048 | 3·042 | 3·006 | 2·984 | 2·968 | 2·945 |
| | 6 | 2·735 | 2·729 | 2·699 | 2·664 | 2·663 | 2·649 | 2·615 | 2·600 | 2·571 | 2·546 | 2·513 | 2·522 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 2·512 | 2·514 | 2·522 | 2·532 | 2·536 | 2·538 | 2·530 | 2·521 | 2·532 | 2·535 | 2·557 | 2·577 |
| | 9 | 2·750 | 2·768 | 2·790 | 2·789 | 2·796 | 2·788 | 2·775 | 2·777 | 2·769 | 2·759 | 2·764 | 2·762 |
| | 10 | 2·836 | 2·850 | 2·864 | 2·876 | 2·879 | 2·863 | 2·858 | 2·846 | 2·824 | 2·823 | 2·826 | 2·815 |
| | 11 | 2·841 | 2·850 | 2·851 | 2·845 | 2·844 | 2·836 | 2·825 | 2·807 | 2·786 | 2·767 | 2·774 | 2·772 |
| | 12 | 2·724 | 2·723 | 2·721 | 2·732 | 2·731 | 2·721 | 2·700 | 2·673 | 2·637 | 2·618 | 2·585 | 2·563 |
| | 13 | 2·510 | 2·510 | 2·498 | 2·490 | 2·481 | 2·476 | 2·474 | 2·462 | 2·439 | 2·430 | 2·428 | 2·416 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 2·259 | 2·249 | 2·234 | 2·215 | 2·190 | 2·171 | 2·160 | 2·138 | 2·128 | 2·114 | 2·120 | 2·134 |
| | 16 | 2·466 | 2·472 | 2·478 | 2·471 | 2·481 | 2·477 | 2·477 | 2·475 | 2·475 | 2·481 | 2·500 | 2·534 |
| | 17 | 2·793 | 2·816 | 2·837 | 2·839 | 2·836 | 2·828 | 2·820 | 2·824 | 2·824 | 2·820 | 2·821 | 2·828 |
| | 18 | 2·967 | 2·954 | 2·965 | 2·964 | 2·969 | 2·954 | 2·936 | 2·930 | 2·907 | 2·891 | 2·881 | 2·856 |
| | 19 | 2·856 | 2·858 | 2·852 | 2·845 | 2·844 | 2·830 | 2·825 | 2·802 | 2·789 | 2·773 | 2·770 | 2·758 |
| | 20 | 2·692 | 2·694 | 2·693 | 2·679 | 2·667 | 2·656 | 2·635 | 2·610 | 2·585 | 2·562 | 2·549 | 2·526 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 2·237 | 2·237 | 2·241 | 2·235 | 2·235 | 2·225 | 2·224 | 2·205 | 2·187 | 2·173 | 2·199 | 2·206 |
| | 23 | 2·226 | 2·233 | 2·229 | 2·214 | 2·206 | 2·172 | 2·159 | 2·171 | 2·185 | 2·193 | 2·249 | 2·298 |
| | 24 | 2·490 | 2·504 | 2·511 | 2·529 | 2·525 | 2·513 | 2·498 | 2·478 | 2·456 | 2·453 | 2·461 | 2·460 |
| | 25 | 2·627 | 2·637 | 2·636 | 2·624 | 2·640 | 2·639 | 2·626 | 2·610 | 2·585 | 2·587 | 2·584 | 2·576 |
| | 26 | 2·461 | 2·492 | 2·362 | 2·425 | 2·393 | 2·405 | 2·376 | 2·366 | 2·391 | 2·346 | 2·324 | 2·332 |
| | 27 | 2·397 | 2·428 | 2·439 | 2·447 | 2·438 | 2·445 | 2·450 | 2·480 | 2·502 | 2·522 | 2·526 | 2·532 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 2·537 | 2·541 | 2·544 | 2·543 | 2·540 | 2·534 | 2·530 | 2·507 | 2·497 | 2·477 | 2·470 | 2·466 |
| | 30 | 2·477 | 2·469 | 2·463 | 2·460 | 2·441 | 2·412 | 2·412 | 2·448 | 2·427 | 2·426 | 2·418 | 2·401 |
| | 31 | 2·473 | 2·490 | 2·494 | 2·500 | 2·504 | 2·504 | 2·503 | 2·506 | 2·513 | 2·521 | 2·521 | 2·517 |
| Hourly Means | 2·6257 | 2·6339 | 2·6327 | 2·6330 | 2·6329 | 2·6255 | 2·6157 | 2·6063 | 2·6004 | 2·5919 | 2·5930 | 2·5945 | |
| JUNE. | 1 | 2·632 | 2·650 | 2·670 | 2·676 | 2·689 | 2·703 | 2·702 | 2·695 | 2·694 | 2·690 | 2·692 | 2·697 |
| | 2 | 2·785 | 2·781 | 2·781 | 2·765 | 2·735 | 2·706 | 2·662 | 2·617 | 2·556 | 2·555 | 2·517 | 2·495 |
| | 3 | 2·271 | 2·293 | 2·319 | 2·360 | 2·398 | 2·415 | 2·433 | 2·458 | 2·486 | 2·502 | 2·521 | 2·533 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 2·457 | 2·469 | 2·473 | 2·451 | 2·461 | 2·494 | 2·493 | 2·488 | 2·468 | 2·470 | 2·484 | 2·464 |
| | 6 | 2·571 | 2·574 | 2·588 | 2·587 | 2·596 | 2·596 | 2·603 | 2·606 | 2·615 | 2·641 | 2·653 | 2·675 |
| | 7 | 2·856 | 2·885 | 2·887 | 2·869 | 2·890 | 2·875 | 2·880 | 2·881 | 2·863 | 2·850 | 2·861 | 2·844 |
| | 8 | 2·776 | 2·776 | 2·777 | 2·775 | 2·790 | 2·735 | 2·703 | 2·671 | 2·659 | 2·625 | 2·611 | 2·561 |
| | 9 | 2·412 | 2·422 | 2·421 | 2·420 | 2·414 | 2·384 | 2·367 | 2·331 | 2·351 | 2·322 | 2·274 | 2·305 |
| | 10 | 2·443 | 2·475 | 2·481 | 2·487 | 2·497 | 2·497 | 2·475 | 2·463 | 2·453 | 2·449 | 2·433 | 2·431 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 2·750 | 2·757 | 2·762 | 2·750 | 2·743 | 2·730 | 2·713 | 2·672 | 2·660 | 2·639 | 2·612 | 2·588 |
| | 13 | 2·387 | 2·387 | 2·372 | 2·330 | 2·298 | 2·277 | 2·255 | 2·231 | 2·226 | 2·209 | 2·180 | 2·176 |
| | 14 | 2·201 | 2·216 | 2·224 | 2·240 | 2·240 | 2·237 | 2·239 | 2·261 | 2·278 | 2·296 | 2·298 | 2·309 |
| | 15 | 2·594 | 2·600 | 2·605 | 2·607 | 2·625 | 2·625 | 2·616 | 2·596 | 2·584 | 2·572 | 2·564 | 2·565 |
| | 16 | 2·436 | 2·462 | 2·475 | 2·474 | 2·500 | 2·526 | 2·523 | 2·516 | 2·518 | 2·514 | 2·511 | 2·521 |
| | 17 | 2·703 | 2·720 | 2·734 | 2·749 | 2·752 | 2·763 | 2·763 | 2·767 | 2·757 | 2·755 | 2·737 | 2·732 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 2·776 | 2·787 | 2·784 | 2·784 | 2·792 | 2·789 | 2·781 | 2·770 | 2·756 | 2·740 | 2·723 | 2·719 |
| | 20 | 2·827 | 2·836 | 2·850 | 2·859 | 2·856 | 2·832 | 2·839 | 2·838 | 2·816 | 2·793 | 2·772 | 2·767 |
| | 21 | 2·825 | 2·815 | 2·824 | 2·823 | 2·810 | 2·801 | 2·790 | 2·760 | 2·749 | 2·736 | 2·712 | 2·696 |
| | 22 | 2·683 | 2·675 | 2·666 | 2·660 | 2·651 | 2·644 | 2·631 | 2·598 | 2·592 | 2·566 | 2·551 | 2·533 |
| | 23 | 2·547 | 2·543 | 2·542 | 2·542 | 2·542 | 2·538 | 2·510 | 2·516 | 2·482 | 2·457 | 2·436 | 2·407 |
| | 24 | 2·365 | 2·365 | 2·369 | 2·349 | 2·343 | 2·353 | 2·335 | 2·332 | 2·341 | 2·338 | 2·345 | 2·356 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 2·561 | 2·561 | 2·566 | 2·550 | 2·549 | 2·541 | 2·523 | 2·506 | 2·490 | 2·468 | 2·455 | 2·454 |
| | 27 | 2·543 | 2·553 | 2·557 | 2·544 | 2·545 | 2·543 | 2·522 | 2·511 | 2·506 | 2·487 | 2·475 | 2·466 |
| | 28 | 2·480 | 2·480 | 2·488 | 2·495 | 2·495 | 2·463 | 2·461 | 2·448 | 2·443 | 2·416 | 2·408 | 2·407 |
| | 29 | 2·407 | 2·406 | 2·400 | 2·396 | 2·396 | 2·405 | 2·403 | 2·396 | 2·407 | 2·408 | 2·405 | 2·428 |
| | 30 | 2·591 | 2·604 | 2·602 | 2·597 | 2·587 | 2·568 | 2·564 | 2·580 | 2·575 | 2·578 | 2·555 | 2·540 |
| Hourly Means | 2·5723 | 2·5805 | 2·5853 | 2·5823 | 2·5844 | 2·5785 | 2·5687 | 2·5580 | 2·5510 | 2·5414 | 2·5302 | 2·5257 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.567 | 2.602 | 2.649 | 2.681 | 2.699 | 2.717 | 2.734 | 2.754 | 2.762 | 2.778 | 2.808 | 2.835 | 2.5600 |
| 2.901 | 2.912 | 2.906 | 2.917 | 2.924 | 2.921 | 2.923 | 2.926 | 2.906 | 2.913 | 2.927 | 2.930 | 2.9122 |
| 2.854 | 2.851 | 2.853 | 2.863 | 2.860 | 2.843 | 2.832 | 2.814 | 2.814 | 2.819 | 2.815 | 2.831 | 2.8785 |
| 2.945 | 2.945 | 2.968 | 2.977 | 2.998 | 2.992 | 3.012 | 3.015 | 3.029 | 3.057 | 3.057 | 3.067 | 2.9564 |
| 2.927 | 2.908 | 2.904 | 2.902 | 2.880 | 2.860 | 2.829 | 2.815 | 2.803 | 2.777 | 2.757 | 2.747 | 2.9410 |
| 2.500 | 2.472 | 2.498 | 2.490 | 2.481 | 2.478 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.485 | 2.463 | 2.459 | 2.480 | 2.486 | 2.502 | 2.5542 |
| 2.594 | 2.613 | 2.633 | 2.646 | 2.658 | 2.677 | 2.682 | 2.691 | 2.699 | 2.704 | 2.717 | 2.726 | 2.6019 |
| 2.774 | 2.762 | 2.788 | 2.822 | 2.823 | 2.815 | 2.816 | 2.814 | 2.807 | 2.811 | 2.810 | 2.822 | 2.7896 |
| 2.827 | 2.829 | 2.834 | 2.831 | 2.826 | 2.826 | 2.824 | 2.811 | 2.811 | 2.809 | 2.805 | 2.831 | 2.8343 |
| 2.762 | 2.760 | 2.755 | 2.751 | 2.744 | 2.745 | 2.747 | 2.726 | 2.726 | 2.711 | 2.723 | 2.731 | 2.7783 |
| 2.533 | 2.553 | 2.548 | 2.534 | 2.545 | 2.538 | 2.526 | 2.494 | 2.483 | 2.477 | 2.485 | 2.515 | 2.5983 |
| 2.422 | 2.432 | 2.455 | 2.456 | 2.466 | 2.464 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.324 | 2.310 | 2.292 | 2.287 | 2.275 | 2.259 | 2.4190 |
| 2.151 | 2.213 | 2.273 | 2.343 | 2.386 | 2.429 | 2.433 | 2.431 | 2.435 | 2.429 | 2.433 | 2.450 | 2.2716 |
| 2.567 | 2.596 | 2.630 | 2.651 | 2.670 | 2.694 | 2.701 | 2.710 | 2.731 | 2.739 | 2.746 | 2.777 | 2.5833 |
| 2.841 | 2.859 | 2.871 | 2.887 | 2.891 | 2.892 | 2.881 | 2.896 | 2.904 | 2.911 | 2.940 | 2.950 | 2.8587 |
| 2.846 | 2.846 | 2.840 | 2.862 | 2.855 | 2.852 | 2.853 | 2.853 | 2.852 | 2.844 | 2.841 | 2.843 | 2.8900 |
| 2.763 | 2.749 | 2.745 | 2.725 | 2.709 | 2.702 | 2.699 | 2.684 | 2.683 | 2.683 | 2.678 | 2.688 | 2.7629 |
| 2.520 | 2.500 | 2.492 | 2.487 | 2.479 | 2.475 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.231 | 2.225 | 2.214 | 2.211 | 2.222 | 2.232 | 2.4932 |
| 2.212 | 2.197 | 2.204 | 2.206 | 2.204 | 2.216 | 2.206 | 2.191 | 2.181 | 2.179 | 2.193 | 2.209 | 2.2084 |
| 2.336 | 2.363 | 2.375 | 2.382 | 2.398 | 2.402 | 2.411 | 2.424 | 2.425 | 2.443 | 2.456 | 2.482 | 2.3097 |
| 2.473 | 2.507 | 2.532 | 2.556 | 2.559 | 2.556 | 2.565 | 2.562 | 2.570 | 2.591 | 2.586 | 2.614 | 2.5229 |
| 2.566 | 2.566 | 2.560 | 2.542 | 2.519 | 2.515 | 2.519 | 2.483 | 2.482 | 2.452 | 2.477 | 2.471 | 2.5635 |
| 2.322 | 2.278 | 2.279 | 2.280 | 2.278 | 2.280 | 2.288 | 2.310 | 2.310 | 2.320 | 2.336 | 2.372 | 2.3469 |
| 2.548 | 2.550 | 2.581 | 2.589 | 2.604 | 2.608 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.525 | 2.522 | 2.508 | 2.504 | 2.510 | 2.527 | 2.5077 |
| 2.469 | 2.473 | 2.477 | 2.486 | 2.490 | 2.493 | 2.489 | 2.488 | 2.485 | 2.474 | 2.475 | 2.481 | 2.4986 |
| 2.411 | 2.417 | 2.414 | 2.408 | 2.406 | 2.413 | 2.417 | 2.417 | 2.417 | 2.442 | 2.452 | 2.463 | 2.4305 |
| 2.537 | 2.539 | 2.554 | 2.568 | 2.566 | 2.563 | 2.552 | 2.555 | 2.559 | 2.574 | 2.596 | 2.620 | 2.5345 |
| 2.5988 | 2.6034 | 2.6155 | 2.6238 | 2.6266 | 2.6284 | 2.6113 | 2.6068 | 2.6054 | 2.6081 | 2.6150 | 2.6287 | 2.6149 |
| 2.704 | 2.714 | 2.736 | 2.746 | 2.765 | 2.767 | 2.758 | 2.771 | 2.766 | 2.760 | 2.772 | 2.777 | 2.7178 |
| 2.479 | 2.456 | 2.459 | 2.447 | 2.403 | 2.361 | 2.329 | 2.278 | 2.255 | 2.253 | 2.245 | 2.267 | 2.5078 |
| 2.553 | 2.539 | 2.547 | 2.549 | 2.549 | 2.523 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.374 | 2.386 | 2.394 | 2.400 | 2.426 | 2.447 | 2.4448 |
| 2.478 | 2.468 | 2.472 | 2.508 | 2.506 | 2.515 | 2.523 | 2.523 | 2.523 | 2.537 | 2.537 | 2.556 | 2.4924 |
| 2.684 | 2.690 | 2.701 | 2.725 | 2.733 | 2.751 | 2.758 | 2.761 | 2.765 | 2.782 | 2.816 | 2.844 | 2.6798 |
| 2.831 | 2.832 | 2.850 | 2.846 | 2.840 | 2.821 | 2.837 | 2.797 | 2.783 | 2.778 | 2.787 | 2.792 | 2.8431 |
| 2.528 | 2.498 | 2.474 | 2.448 | 2.422 | 2.416 | 2.408 | 2.404 | 2.404 | 2.398 | 2.390 | 2.396 | 2.5685 |
| 2.321 | 2.351 | 2.362 | 2.357 | 2.356 | 2.375 | 2.383 | 2.412 | 2.399 | 2.421 | 2.421 | 2.438 | 2.3758 |
| 2.423 | 2.423 | 2.431 | 2.445 | 2.450 | 2.455 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.710 | 2.710 | 2.719 | 2.725 | 2.719 | 2.734 | 2.5220 |
| 2.562 | 2.553 | 2.539 | 2.532 | 2.517 | 2.507 | 2.490 | 2.466 | 2.446 | 2.434 | 2.417 | 2.403 | 2.5934 |
| 2.172 | 2.166 | 2.172 | 2.198 | 2.195 | 2.191 | 2.185 | 2.180 | 2.174 | 2.175 | 2.174 | 2.190 | 2.2292 |
| 2.314 | 2.334 | 2.354 | 2.415 | 2.434 | 2.453 | 2.468 | 2.463 | 2.498 | 2.510 | 2.545 | 2.574 | 2.3500 |
| 2.549 | 2.543 | 2.537 | 2.531 | 2.522 | 2.520 | 2.506 | 2.469 | 2.451 | 2.446 | 2.444 | 2.440 | 2.5463 |
| 2.527 | 2.561 | 2.565 | 2.588 | 2.596 | 2.606 | 2.620 | 2.628 | 2.633 | 2.642 | 2.667 | 2.695 | 2.5543 |
| 2.726 | 2.727 | 2.729 | 2.762 | 2.761 | 2.764 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.727 | 2.726 | 2.730 | 2.733 | 2.741 | 2.768 | 2.7428 |
| 2.721 | 2.729 | 2.735 | 2.755 | 2.762 | 2.733 | 2.777 | 2.772 | 2.761 | 2.759 | 2.776 | 2.795 | 2.7632 |
| 2.767 | 2.755 | 2.756 | 2.760 | 2.749 | 2.761 | 2.772 | 2.780 | 2.803 | 2.814 | 2.818 | 2.823 | 2.8018 |
| 2.696 | 2.694 | 2.683 | 2.679 | 2.671 | 2.669 | 2.658 | 2.663 | 2.665 | 2.670 | 2.669 | 2.677 | 2.7265 |
| 2.531 | 2.533 | 2.544 | 2.553 | 2.564 | 2.561 | 2.553 | 2.548 | 2.537 | 2.533 | 2.526 | 2.528 | 2.5817 |
| 2.406 | 2.409 | 2.407 | 2.421 | 2.414 | 2.411 | 2.399 | 2.374 | 2.358 | 2.342 | 2.334 | 2.367 | 2.4460 |
| 2.375 | 2.395 | 2.411 | 2.418 | 2.427 | 2.447 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.463 | 2.465 | 2.507 | 2.540 | 2.570 | 2.561 | 2.4071 |
| 2.461 | 2.469 | 2.491 | 2.494 | 2.505 | 2.519 | 2.522 | 2.512 | 2.506 | 2.515 | 2.524 | 2.525 | 2.5111 |
| 2.467 | 2.469 | 2.490 | 2.490 | 2.488 | 2.478 | 2.483 | 2.482 | 2.469 | 2.459 | 2.462 | 2.471 | 2.4983 |
| 2.407 | 2.400 | 2.390 | 2.394 | 2.399 | 2.402 | 2.404 | 2.401 | 2.391 | 2.395 | 2.400 | 2.401 | 2.4278 |
| 2.440 | 2.449 | 2.459 | 2.490 | 2.511 | 2.528 | 2.539 | 2.544 | 2.543 | 2.539 | 2.548 | 2.572 | 2.4591 |
| 2.548 | 2.557 | 2.551 | 2.549 | 2.539 | 2.546 | 2.539 | 2.517 | 2.524 | 2.540 | 2.550 | 2.543 | 2.5602 |
| 2.5258 | 2.5275 | 2.5325 | 2.5423 | 2.5415 | 2.5431 | 2.5456 | 2.5397 | 2.5386 | 2.5423 | 2.5492 | 2.5609 | 2.5520 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 2.533 | 2.547 | 2.558 | 2.552 | 2.543 | 2.534 | 2.524 | 2.498 | 2.477 | 2.452 | 2.441 | 2.419 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 2.726 | 2.746 | 2.747 | 2.745 | 2.732 | 2.729 | 2.725 | 2.714 | 2.704 | 2.685 | 2.669 | 2.659 |
| | 4 | 2.702 | 2.690 | 2.684 | 2.669 | 2.626 | 2.612 | 2.579 | 2.562 | 2.551 | 2.517 | 2.507 | 2.499 |
| | 5 | 2.678 | 2.698 | 2.713 | 2.701 | 2.706 | 2.711 | 2.717 | 2.709 | 2.701 | 2.687 | 2.678 | 2.674 |
| | 6 | 2.774 | 2.782 | 2.779 | 2.773 | 2.771 | 2.770 | 2.753 | 2.743 | 2.713 | 2.690 | 2.679 | 2.672 |
| | 7 | 2.468 | 2.417 | 2.386 | 2.383 | 2.355 | 2.374 | 2.412 | 2.409 | 2.413 | 2.424 | 2.433 | 2.436 |
| | 8 | 2.498 | 2.498 | 2.504 | 2.485 | 2.468 | 2.462 | 2.464 | 2.463 | 2.464 | 2.476 | 2.475 | 2.471 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 2.349 | 2.371 | 2.388 | 2.386 | 2.398 | 2.406 | 2.412 | 2.411 | 2.415 | 2.420 | 2.441 | 2.467 |
| | 11 | 2.676 | 2.682 | 2.699 | 2.705 | 2.709 | 2.717 | 2.719 | 2.708 | 2.704 | 2.701 | 2.697 | 2.698 |
| | 12 | 2.871 | 2.885 | 2.906 | 2.919 | 2.916 | 2.909 | 2.903 | 2.899 | 2.898 | 2.893 | 2.871 | 2.866 |
| | 13 | 2.906 | 2.936 | 2.941 | 2.938 | 2.935 | 2.931 | 2.922 | 2.921 | 2.917 | 2.906 | 2.897 | 2.878 |
| | 14 | 2.851 | 2.859 | 2.865 | 2.855 | 2.862 | 2.850 | 2.832 | 2.817 | 2.811 | 2.743 | 2.742 | 2.758 |
| | 15 | 2.725 | 2.749 | 2.732 | 2.700 | 2.709 | 2.721 | 2.715 | 2.716 | 2.706 | 2.702 | 2.671 | 2.661 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 2.443 | 2.421 | 2.425 | 2.435 | 2.399 | 2.367 | 2.350 | 2.350 | 2.323 | 2.307 | 2.334 | 2.319 |
| | 18 | 2.426 | 2.426 | 2.438 | 2.432 | 2.442 | 2.438 | 2.438 | 2.429 | 2.418 | 2.416 | 2.432 | 2.446 |
| | 19 | 2.577 | 2.600 | 2.610 | 2.616 | 2.620 | 2.624 | 2.626 | 2.618 | 2.617 | 2.611 | 2.603 | 2.583 |
| | 20 | 2.725 | 2.735 | 2.748 | 2.752 | 2.744 | 2.728 | 2.714 | 2.702 | 2.694 | 2.671 | 2.659 | 2.634 |
| | 21 | 2.663 | 2.671 | 2.668 | 2.667 | 2.661 | 2.658 | 2.647 | 2.632 | 2.611 | 2.605 | 2.597 | 2.593 |
| | 22 | 2.651 | 2.649 | 2.655 | 2.666 | 2.664 | 2.663 | 2.649 | 2.640 | 2.635 | 2.622 | 2.620 | 2.606 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 2.437 | 2.448 | 2.452 | 2.463 | 2.471 | 2.488 | 2.497 | 2.497 | 2.512 | 2.529 | 2.532 | 2.539 |
| | 25 | 2.699 | 2.713 | 2.720 | 2.730 | 2.738 | 2.725 | 2.713 | 2.705 | 2.698 | 2.691 | 2.690 | 2.680 |
| | 26 | 2.683 | 2.671 | 2.655 | 2.644 | 2.626 | 2.622 | 2.605 | 2.590 | 2.561 | 2.555 | 2.525 | 2.519 |
| | 27 | 2.736 | 2.766 | 2.785 | 2.786 | 2.793 | 2.797 | 2.798 | 2.782 | 2.758 | 2.748 | 2.736 | 2.714 |
| | 28 | 2.505 | 2.497 | 2.496 | 2.464 | 2.446 | 2.411 | 2.375 | 2.338 | 2.321 | 2.310 | 2.312 | 2.337 |
| | 29 | 2.483 | 2.498 | 2.534 | 2.549 | 2.565 | 2.585 | 2.611 | 2.615 | 2.615 | 2.611 | 2.595 | 2.589 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 2.672 | 2.678 | 2.677 | 2.675 | 2.680 | 2.664 | 2.673 | 2.673 | 2.665 | 2.655 | 2.650 | 2.651 |
| Hourly Means | 2.6330 | 2.6397 | 2.6448 | 2.6419 | 2.6377 | 2.6345 | 2.6297 | 2.6208 | 2.6116 | 2.6010 | 2.5956 | 2.5911 | |
| AUGUST. | 1 | 2.700 | 2.702 | 2.713 | 2.710 | 2.711 | 2.703 | 2.703 | 2.688 | 2.674 | 2.660 | 2.645 | 2.633 |
| | 2 | 2.681 | 2.692 | 2.718 | 2.717 | 2.707 | 2.709 | 2.703 | 2.684 | 2.674 | 2.671 | 2.664 | 2.664 |
| | 3 | 2.764 | 2.778 | 2.791 | 2.802 | 2.813 | 2.810 | 2.807 | 2.809 | 2.802 | 2.801 | 2.804 | 2.799 |
| | 4 | 2.931 | 2.939 | 2.952 | 2.956 | 2.961 | 2.956 | 2.956 | 2.948 | 2.945 | 2.938 | 2.938 | 2.930 |
| | 5 | 2.925 | 2.929 | 2.933 | 2.929 | 2.917 | 2.912 | 2.901 | 2.889 | 2.880 | 2.852 | 2.841 | 2.835 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 2.588 | 2.594 | 2.591 | 2.594 | 2.601 | 2.588 | 2.592 | 2.585 | 2.575 | 2.571 | 2.559 | 2.567 |
| | 8 | 2.595 | 2.623 | 2.633 | 2.637 | 2.647 | 2.648 | 2.641 | 2.639 | 2.636 | 2.630 | 2.620 | 2.610 |
| | 9 | 2.739 | 2.741 | 2.747 | 2.749 | 2.752 | 2.738 | 2.736 | 2.743 | 2.725 | 2.720 | 2.712 | 2.705 |
| | 10 | 2.731 | 2.723 | 2.721 | 2.719 | 2.712 | 2.705 | 2.695 | 2.680 | 2.664 | 2.655 | 2.647 | 2.641 |
| | 11 | 2.656 | 2.668 | 2.667 | 2.672 | 2.666 | 2.659 | 2.652 | 2.647 | 2.637 | 2.632 | 2.629 | 2.624 |
| | 12 | 2.692 | 2.696 | 2.696 | 2.694 | 2.693 | 2.682 | 2.678 | 2.661 | 2.642 | 2.643 | 2.639 | 2.624 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 2.329 | 2.319 | 2.293 | 2.255 | 2.259 | 2.265 | 2.259 | 2.259 | 2.264 | 2.283 | 2.289 | 2.311 |
| | 15 | 2.518 | 2.540 | 2.550 | 2.558 | 2.561 | 2.572 | 2.583 | 2.593 | 2.586 | 2.572 | 2.566 | 2.562 |
| | 16 | 2.591 | 2.590 | 2.583 | 2.582 | 2.580 | 2.567 | 2.552 | 2.540 | 2.527 | 2.516 | 2.501 | 2.498 |
| | 17 | 2.453 | 2.463 | 2.485 | 2.495 | 2.500 | 2.509 | 2.509 | 2.509 | 2.508 | 2.495 | 2.486 | 2.485 |
| | 18 | 2.610 | 2.618 | 2.630 | 2.638 | 2.638 | 2.642 | 2.642 | 2.633 | 2.617 | 2.623 | 2.610 | 2.614 |
| | 19 | 2.759 | 2.771 | 2.761 | 2.761 | 2.757 | 2.754 | 2.747 | 2.742 | 2.727 | 2.719 | 2.715 | 2.711 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 2.817 | 2.833 | 2.847 | 2.853 | 2.854 | 2.852 | 2.843 | 2.833 | 2.824 | 2.826 | 2.819 | 2.818 |
| | 22 | 2.824 | 2.844 | 2.834 | 2.817 | 2.810 | 2.805 | 2.793 | 2.781 | 2.768 | 2.751 | 2.746 | 2.739 |
| | 23 | 2.696 | 2.705 | 2.705 | 2.702 | 2.701 | 2.699 | 2.695 | 2.678 | 2.660 | 2.645 | 2.639 | 2.629 |
| | 24 | 2.699 | 2.707 | 2.706 | 2.705 | 2.708 | 2.713 | 2.713 | 2.711 | 2.698 | 2.688 | 2.683 | 2.681 |
| | 25 | 2.723 | 2.729 | 2.729 | 2.728 | 2.712 | 2.710 | 2.721 | 2.688 | 2.678 | 2.663 | 2.652 | 2.641 |
| | 26 | 2.651 | 2.657 | 2.667 | 2.667 | 2.673 | 2.676 | 2.674 | 2.666 | 2.657 | 2.651 | 2.650 | 2.654 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 2.747 | 2.757 | 2.767 | 2.771 | 2.781 | 2.787 | 2.788 | 2.783 | 2.782 | 2.779 | 2.777 | 2.775 |
| | 29 | 2.846 | 2.850 | 2.858 | 2.863 | 2.859 | 2.856 | 2.845 | 2.837 | 2.824 | 2.813 | 2.799 | 2.792 |
| | 30 | 2.780 | 2.770 | 2.776 | 2.774 | 2.770 | 2.762 | 2.745 | 2.730 | 2.708 | 2.696 | 2.687 | 2.678 |
| | 31 | 2.680 | 2.685 | 2.682 | 2.679 | 2.680 | 2.668 | 2.654 | 2.643 | 2.622 | 2.603 | 2.602 | 2.593 |
| Hourly Means | 2.6935 | 2.7009 | 2.7050 | 2.7047 | 2.7046 | 2.7017 | 2.6973 | 2.6889 | 2.6779 | 2.6702 | 2.6637 | 2.6592 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.395 | 2.382 | 2.380 | 2.385 | 2.385 | 2.389 | — | — | — | — | — | — | 2.4663 |
| — | — | — | — | — | — | 2.642 | 2.649 | 2.659 | 2.675 | 2.685 | 2.710 | 2.6700 |
| 2.660 | 2.675 | 2.673 | 2.685 | 2.696 | 2.699 | 2.705 | 2.696 | 2.687 | 2.686 | 2.684 | 2.699 | 2.7011 |
| 2.499 | 2.529 | 2.549 | 2.556 | 2.564 | 2.568 | 2.576 | 2.580 | 2.598 | 2.626 | 2.633 | 2.648 | 2.5885 |
| 2.677 | 2.689 | 2.696 | 2.717 | 2.721 | 2.730 | 2.726 | 2.726 | 2.727 | 2.736 | 2.753 | 2.762 | 2.7097 |
| 2.676 | 2.668 | 2.674 | 2.668 | 2.650 | 2.643 | 2.625 | 2.613 | 2.576 | 2.558 | 2.553 | 2.497 | 2.6792 |
| 2.458 | 2.465 | 2.485 | 2.500 | 2.510 | 2.517 | 2.518 | 2.521 | 2.507 | 2.504 | 2.498 | 2.498 | 2.4538 |
| 2.486 | 2.502 | 2.511 | 2.542 | 2.550 | 2.547 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.394 | 2.388 | 2.380 | 2.354 | 2.347 | 2.349 | 2.4616 |
| 2.483 | 2.505 | 2.532 | 2.560 | 2.569 | 2.577 | 2.591 | 2.614 | 2.624 | 2.630 | 2.645 | 2.659 | 2.4952 |
| 2.705 | 2.716 | 2.734 | 2.776 | 2.782 | 2.791 | 2.792 | 2.793 | 2.814 | 2.815 | 2.826 | 2.857 | 2.7423 |
| 2.865 | 2.869 | 2.864 | 2.877 | 2.881 | 2.898 | 2.903 | 2.883 | 2.884 | 2.886 | 2.889 | 2.906 | 2.8891 |
| 2.864 | 2.864 | 2.853 | 2.862 | 2.863 | 2.865 | 2.867 | 2.865 | 2.858 | 2.856 | 2.857 | 2.854 | 2.8898 |
| 2.738 | 2.760 | 2.752 | 2.789 | 2.770 | 2.761 | 2.753 | 2.753 | 2.746 | 2.728 | 2.748 | 2.739 | 2.7868 |
| 2.647 | 2.655 | 2.659 | 2.653 | 2.645 | 2.637 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.449 | 2.439 | 2.425 | 2.416 | 2.412 | 2.436 | 2.6242 |
| 2.319 | 2.317 | 2.323 | 2.356 | 2.352 | 2.385 | 2.401 | 2.407 | 2.373 | 2.374 | 2.390 | 2.396 | 2.3694 |
| 2.462 | 2.460 | 2.476 | 2.478 | 2.481 | 2.485 | 2.490 | 2.501 | 2.510 | 2.515 | 2.522 | 2.559 | 2.4633 |
| 2.611 | 2.625 | 2.638 | 2.650 | 2.659 | 2.662 | 2.675 | 2.668 | 2.677 | 2.679 | 2.702 | 2.723 | 2.6364 |
| 2.641 | 2.641 | 2.650 | 2.670 | 2.669 | 2.665 | 2.664 | 2.651 | 2.651 | 2.651 | 2.658 | 2.656 | 2.6822 |
| 2.590 | 2.602 | 2.603 | 2.617 | 2.621 | 2.631 | 2.630 | 2.621 | 2.618 | 2.616 | 2.620 | 2.643 | 2.6285 |
| 2.598 | 2.600 | 2.599 | 2.600 | 2.603 | 2.605 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.442 | 2.423 | 2.422 | 2.416 | 2.425 | 2.439 | 2.5788 |
| 2.554 | 2.579 | 2.598 | 2.610 | 2.632 | 2.635 | 2.641 | 2.646 | 2.648 | 2.653 | 2.660 | 2.679 | 2.5583 |
| 2.676 | 2.676 | 2.687 | 2.691 | 2.670 | 2.666 | 2.667 | 2.665 | 2.672 | 2.696 | 2.695 | 2.682 | 2.6935 |
| 2.633 | 2.577 | 2.589 | 2.609 | 2.620 | 2.624 | 2.635 | 2.627 | 2.640 | 2.640 | 2.697 | 2.716 | 2.6193 |
| 2.719 | 2.716 | 2.701 | 2.692 | 2.670 | 2.635 | 2.621 | 2.594 | 2.576 | 2.550 | 2.531 | 2.531 | 2.6973 |
| 2.357 | 2.342 | 2.335 | 2.349 | 2.378 | 2.394 | 2.389 | 2.390 | 2.396 | 2.402 | 2.434 | 2.459 | 2.3932 |
| 2.592 | 2.594 | 2.603 | 2.617 | 2.620 | 2.625 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.622 | 2.623 | 2.630 | 2.638 | 2.653 | 2.662 | 2.5970 |
| 2.651 | 2.651 | 2.669 | 2.673 | 2.680 | 2.676 | 2.682 | 2.681 | 2.685 | 2.687 | 2.691 | 2.696 | 2.6723 |
| 2.5983 | 2.6023 | 2.6090 | 2.6224 | 2.6247 | 2.6273 | 2.6192 | 2.6160 | 2.6147 | 2.6149 | 2.6234 | 2.6329 | 2.6203 |
| 2.632 | 2.636 | 2.633 | 2.651 | 2.657 | 2.654 | 2.654 | 2.648 | 2.649 | 2.642 | 2.656 | 2.675 | 2.6679 |
| 2.667 | 2.665 | 2.675 | 2.683 | 2.683 | 2.685 | 2.690 | 2.687 | 2.702 | 2.707 | 2.719 | 2.756 | 2.6918 |
| 2.799 | 2.813 | 2.822 | 2.835 | 2.849 | 2.860 | 2.867 | 2.884 | 2.889 | 2.897 | 2.910 | 2.919 | 2.8302 |
| 2.918 | 2.918 | 2.931 | 2.936 | 2.925 | 2.926 | 2.912 | 2.910 | 2.903 | 2.906 | 2.907 | 2.907 | 2.9312 |
| 2.817 | 2.815 | 2.818 | 2.816 | 2.810 | 2.793 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.610 | 2.589 | 2.579 | 2.577 | 2.575 | 2.577 | 2.7966 |
| 2.577 | 2.580 | 2.582 | 2.585 | 2.592 | 2.594 | 2.600 | 2.590 | 2.592 | 2.593 | 2.594 | 2.595 | 2.5866 |
| 2.620 | 2.629 | 2.657 | 2.672 | 2.689 | 2.700 | 2.703 | 2.704 | 2.701 | 2.695 | 2.708 | 2.712 | 2.6562 |
| 2.711 | 2.717 | 2.724 | 2.721 | 2.715 | 2.715 | 2.716 | 2.700 | 2.699 | 2.703 | 2.711 | 2.740 | 2.7241 |
| 2.637 | 2.635 | 2.636 | 2.642 | 2.633 | 2.640 | 2.635 | 2.633 | 2.629 | 2.626 | 2.628 | 2.647 | 2.6631 |
| 2.631 | 2.647 | 2.655 | 2.657 | 2.653 | 2.650 | 2.663 | 2.654 | 2.655 | 2.653 | 2.666 | 2.686 | 2.6533 |
| 2.620 | 2.620 | 2.617 | 2.630 | 2.625 | 2.621 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.430 | 2.427 | 2.424 | 2.378 | 2.356 | 2.341 | 2.5887 |
| 2.328 | 2.347 | 2.373 | 2.403 | 2.412 | 2.423 | 2.424 | 2.435 | 2.450 | 2.453 | 2.467 | 2.496 | 2.3498 |
| 2.562 | 2.568 | 2.573 | 2.568 | 2.565 | 2.561 | 2.561 | 2.564 | 2.568 | 2.569 | 2.574 | 2.585 | 2.5658 |
| 2.498 | 2.506 | 2.503 | 2.481 | 2.482 | 2.483 | 2.452 | 2.466 | 2.484 | 2.477 | 2.500 | 2.464 | 2.5176 |
| 2.482 | 2.488 | 2.501 | 2.499 | 2.498 | 2.482 | 2.525 | 2.538 | 2.544 | 2.549 | 2.569 | 2.581 | 2.5064 |
| 2.634 | 2.648 | 2.669 | 2.673 | 2.674 | 2.692 | 2.709 | 2.703 | 2.701 | 2.705 | 2.722 | 2.734 | 2.6575 |
| 2.709 | 2.717 | 2.734 | 2.742 | 2.733 | 2.729 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.778 | 2.776 | 2.777 | 2.776 | 2.780 | 2.811 | 2.7494 |
| 2.818 | 2.830 | 2.843 | 2.843 | 2.841 | 2.843 | 2.834 | 2.834 | 2.822 | 2.823 | 2.826 | 2.824 | 2.8333 |
| 2.739 | 2.721 | 2.739 | 2.730 | 2.721 | 2.717 | 2.718 | 2.710 | 2.708 | 2.677 | 2.680 | 2.690 | 2.7526 |
| 2.637 | 2.645 | 2.653 | 2.652 | 2.656 | 2.658 | 2.648 | 2.647 | 2.643 | 2.654 | 2.659 | 2.674 | 2.6658 |
| 2.681 | 2.675 | 2.693 | 2.696 | 2.710 | 2.715 | 2.719 | 2.719 | 2.724 | 2.728 | 2.320 | 2.715 | 2.7045 |
| 2.631 | 2.631 | 2.636 | 2.639 | 2.625 | 2.625 | 2.625 | 2.628 | 2.630 | 2.632 | 2.625 | 2.638 | 2.6641 |
| 2.652 | 2.656 | 2.667 | 2.667 | 2.677 | 2.685 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.699 | 2.697 | 2.683 | 2.666 | 2.700 | 2.710 | 2.6709 |
| 2.775 | 2.783 | 2.795 | 2.803 | 2.804 | 2.819 | 2.821 | 2.812 | 2.813 | 2.811 | 2.815 | 2.820 | 2.7902 |
| 2.780 | 2.786 | 2.785 | 2.772 | 2.768 | 2.769 | 2.777 | 2.766 | 2.767 | 2.755 | 2.764 | 2.756 | 2.8036 |
| 2.674 | 2.669 | 2.673 | 2.676 | 2.680 | 2.680 | 2.677 | 2.960 | 2.658 | 2.655 | 2.661 | 2.668 | 2.7045 |
| 2.600 | 2.600 | 2.615 | 2.629 | 2.625 | 2.616 | 2.621 | 2.614 | 2.609 | 2.603 | 2.629 | 2.638 | 2.6329 |
| 2.6603 | 2.6646 | 2.6741 | 2.6778 | 2.6779 | 2.6791 | 2.6692 | 2.6665 | 2.6668 | 2.6633 | 2.6711 | 2.6800 | 2.6799 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. } Hours of Mean Toronto Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | 2·651 | 2·655 | 2·655 | 2·665 | 2·659 | 2·647 | 2·633 | 2·620 | 2·604 | 2·590 | 2·582 | 2·578 |
| | 2 | 2·588 | 2·588 | 2·592 | 2·583 | 2·567 | 2·581 | 2·562 | 2·550 | 2·546 | 2·543 | 2·535 | 2·535 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 2·440 | 2·453 | 2·474 | 2·474 | 2·482 | 2·482 | 2·479 | 2·474 | 2·471 | 2·478 | 2·482 | 2·496 |
| | 5 | 2·710 | 2·719 | 2·754 | 2·765 | 2·771 | 2·771 | 2·764 | 2·749 | 2·738 | 2·732 | 2·732 | 2·746 |
| | 6 | 2·803 | 2·819 | 2·822 | 2·832 | 2·839 | 2·835 | 2·820 | 2·822 | 2·815 | 2·805 | 2·797 | 2·795 |
| | 7 | 2·788 | 2·788 | 2·804 | 2·812 | 2·814 | 2·814 | 2·807 | 2·801 | 2·799 | 2·794 | 2·794 | 2·777 |
| | 8 | 2·689 | 2·677 | 2·684 | 2·667 | 2·643 | 2·616 | 2·588 | 2·571 | 2·557 | 2·545 | 2·549 | 2·573 |
| | 9 | 2·834 | 2·844 | 2·851 | 2·853 | 2·851 | 2·843 | 2·837 | 2·831 | 2·819 | 2·815 | 2·818 | 2·847 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 2·771 | 2·771 | 2·777 | 2·786 | 2·788 | 2·781 | 2·773 | 2·761 | 2·744 | 2·734 | 2·734 | 2·738 |
| | 12 | 2·882 | 2·890 | 2·900 | 2·903 | 2·906 | 2·894 | 2·883 | 2·874 | 2·867 | 2·864 | 2·846 | 2·846 |
| | 13 | 2·836 | 2·834 | 2·830 | 2·841 | 2·833 | 2·808 | 2·796 | 2·778 | 2·775 | 2·745 | 2·745 | 2·729 |
| | 14 | 2·675 | 2·701 | 2·709 | 2·713 | 2·715 | 2·701 | 2·703 | 2·691 | 2·673 | 2·647 | 2·640 | 2·620 |
| | 15 | 2·314 | 2·286 | 2·258 | 2·238 | 2·214 | 2·231 | 2·240 | 2·253 | 2·271 | 2·274 | 2·281 | 2·296 |
| | 16 | 2·437 | 2·459 | 2·467 | 2·476 | 2·492 | 2·484 | 2·481 | 2·485 | 2·470 | 2·475 | 2·472 | 2·474 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 2·563 | 2·579 | 2·609 | 2·623 | 2·633 | 2·664 | 2·658 | 2·669 | 2·666 | 2·680 | 2·699 | 2·716 |
| | 19 | 2·934 | 2·967 | 2·984 | 2·985 | 2·986 | 2·997 | 3·016 | 3·002 | 3·000 | 3·000 | 2·991 | 2·995 |
| | 20 | 2·972 | 2·970 | 2·977 | 2·969 | 2·958 | 2·942 | 2·904 | 2·875 | 2·855 | 2·822 | 2·800 | 2·789 |
| | 21 | 2·650 | 2·637 | 2·621 | 2·605 | 2·582 | 2·567 | 2·533 | 2·516 | 2·505 | 2·492 | 2·530 | 2·548 |
| | 22 | 2·836 | 2·851 | 2·848 | 2·848 | 2·832 | 2·824 | 2·807 | 2·782 | 2·778 | 2·748 | 2·728 | 2·723 |
| | 23 | 2·572 | 2·577 | 2·569 | 2·559 | 2·540 | 2·525 | 2·496 | 2·475 | 2·454 | 2·448 | 2·435 | 2·434 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 2·501 | 2·502 | 2·500 | 2·489 | 2·503 | 2·493 | 2·486 | 2·476 | 2·462 | 2·460 | 2·480 | 2·484 |
| | 26 | 2·632 | 2·662 | 2·663 | 2·675 | 2·689 | 2·675 | 2·671 | 2·687 | 2·693 | 2·701 | 2·711 | 2·725 |
| | 27 | 2·914 | 2·939 | 2·943 | 2·951 | 2·929 | 2·929 | 2·928 | 2·908 | 2·903 | 2·887 | 2·882 | 2·886 |
| | 28 | 2·884 | 2·888 | 2·871 | 2·871 | 2·856 | 2·854 | 2·832 | 2·829 | 2·808 | 2·800 | 2·795 | 2·779 |
| | 29 | 2·817 | 2·841 | 2·851 | 2·851 | 2·843 | 2·842 | 2·840 | 2·825 | 2·812 | 2·807 | 2·803 | 2·798 |
| | 30 | 2·794 | 2·802 | 2·802 | 2·785 | 2·775 | 2·758 | 2·725 | 2·695 | 2·658 | 2·632 | 2·610 | 2·594 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2·7110 | 2·7192 | 2·7237 | 2·7238 | 2·7192 | 2·7138 | 2·7024 | 2·6923 | 2·6824 | 2·6738 | 2·6720 | 2·6739 | |
| OCTOBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 2·166 | 2·178 | 2·178 | 2·186 | 2·192 | 2·192 | 2·182 | 2·182 | 2·186 | 2·193 | 2·199 | 2·202 |
| | 3 | 2·150 | 2·175 | 2·186 | 2·186 | 2·180 | 2·172 | 2·172 | 2·172 | 2·186 | 2·186 | 2·197 | 2·229 |
| | 4 | 2·374 | 2·410 | 2·432 | 2·444 | 2·457 | 2·454 | 2·475 | 2·460 | 2·478 | 2·491 | 2·504 | 2·534 |
| | 5 | 2·707 | 2·733 | 2·756 | 2·769 | 2·769 | 2·766 | 2·743 | 2·726 | 2·703 | 2·695 | 2·672 | 2·652 |
| | 6 | 2·576 | 2·586 | 2·576 | 2·568 | 2·553 | 2·532 | 2·500 | 2·487 | 2·463 | 2·448 | 2·440 | 2·428 |
| | 7 | 2·243 | 2·243 | 2·231 | 2·205 | 2·171 | 2·152 | 2·112 | 2·086 | 2·070 | 2·068 | 2·068 | 2·054 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 2·371 | 2·393 | 2·387 | 2·381 | 2·383 | 2·383 | 2·372 | 2·355 | 2·356 | 2·356 | 2·374 | 2·380 |
| | 10 | 2·481 | 2·485 | 2·489 | 2·500 | 2·495 | 2·506 | 2·494 | 2·480 | 2·458 | 2·447 | 2·435 | 2·429 |
| | 11 | 2·422 | 2·428 | 2·449 | 2·443 | 2·443 | 2·443 | 2·441 | 2·449 | 2·444 | 2·449 | 2·449 | 2·465 |
| | 12 | 2·480 | 2·506 | 2·505 | 2·505 | 2·502 | 2·522 | 2·529 | 2·547 | 2·561 | 2·593 | 2·625 | 2·649 |
| | 13 | 2·656 | 2·681 | 2·669 | 2·669 | 2·669 | 2·668 | 2·659 | 2·662 | 2·656 | 2·658 | 2·665 | 2·684 |
| | 14 | 2·812 | 2·832 | 2·852 | 2·863 | 2·869 | 2·877 | 2·861 | 2·844 | 2·836 | 2·824 | 2·834 | 2·838 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 2·493 | 2·513 | 2·523 | 2·525 | 2·524 | 2·521 | 2·515 | 2·510 | 2·509 | 2·505 | 2·504 | 2·502 |
| | 17 | 2·342 | 2·342 | 2·332 | 2·332 | 2·332 | 2·319 | 2·306 | 2·298 | 2·294 | 2·298 | 2·304 | 2·320 |
| | 18 | 2·359 | 2·379 | 2·387 | 2·381 | 2·368 | 2·354 | 2·340 | 2·318 | 2·312 | 2·306 | 2·312 | 2·303 |
| | 19 | 2·615 | 2·650 | 2·687 | 2·714 | 2·727 | 2·733 | 2·721 | 2·715 | 2·708 | 2·707 | 2·707 | 2·713 |
| | 20 | 2·597 | 2·561 | 2·523 | 2·497 | 2·455 | 2·416 | 2·356 | 2·320 | 2·293 | 2·265 | 2·245 | 2·237 |
| | 21 | 2·126 | 2·189 | 2·243 | 2·277 | 2·311 | 2·353 | 2·377 | 2·393 | 2·403 | 2·437 | 2·470 | 2·497 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 2·770 | 2·800 | 2·820 | 2·829 | 2·835 | 2·835 | 2·820 | 2·802 | 2·794 | 2·793 | 2·792 | 2·779 |
| | 24 | 2·810 | 2·822 | 2·823 | 2·808 | 2·806 | 2·794 | 2·775 | 2·766 | 2·742 | 2·719 | 2·701 | 2·694 |
| | 25 | 2·348 | 2·364 | 2·378 | 2·401 | 2·426 | 2·459 | 2·504 | 2·544 | 2·562 | 2·595 | 2·657 | 2·698 |
| | 26 | 2·782 | 2·804 | 2·796 | 2·794 | 2·804 | 2·793 | 2·785 | 2·765 | 2·743 | 2·733 | 2·711 | 2·701 |
| | 27 | 2·469 | 2·469 | 2·453 | 2·432 | 2·392 | 2·380 | 2·369 | 2·365 | 2·347 | 2·347 | 2·345 | 2·345 |
| | 28 | 2·592 | 2·642 | 2·683 | 2·697 | 2·728 | 2·723 | 2·726 | 2·738 | 2·737 | 2·752 | 2·758 | 2·768 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 2·736 | 2·753 | 2·755 | 2·767 | 2·765 | 2·764 | 2·752 | 2·768 | 2·772 | 2·788 | 2·812 | 2·840 |
| | 31 | 2·974 | 3·008 | 3·037 | 3·042 | 3·056 | 3·067 | 3·035 | 3·026 | 3·014 | 3·020 | 3·022 | 3·016 |
| Hourly Means | 2·5173 | 2·5368 | 2·5442 | 2·5467 | 2·5466 | 2·5453 | 2·5354 | 2·5299 | 2·5257 | 2·5259 | 2·5308 | 2·5368 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.578 | 2.582 | 2.581 | 2.582 | 2.582 | 2.592 | 2.586 | 2.574 | 2.555 | 2.555 | 2.559 | 2.561 | 2.6011 |
| 2.535 | 2.537 | 2.549 | 2.557 | 2.555 | 2.552 | — | — | — | — | — | — | 2.5220 |
| — | — | — | — | — | — | 2.401 | 2.397 | 2.405 | 2.409 | 2.421 | 2.430 | 2.5438 |
| 2.528 | 2.545 | 2.564 | 2.594 | 2.602 | 2.605 | 2.616 | 2.627 | 2.637 | 2.656 | 2.684 | 2.708 | 2.7622 |
| 2.748 | 2.755 | 2.777 | 2.780 | 2.781 | 2.783 | 2.786 | 2.790 | 2.784 | 2.782 | 2.783 | 2.793 | 2.8008 |
| 2.793 | 2.799 | 2.801 | 2.807 | 2.797 | 2.797 | 2.787 | 2.770 | 2.764 | 2.758 | 2.766 | 2.776 | 2.7709 |
| 2.795 | 2.796 | 2.768 | 2.765 | 2.765 | 2.767 | 2.768 | 2.741 | 2.705 | 2.697 | 2.673 | 2.669 | 2.6559 |
| 2.586 | 2.598 | 2.649 | 2.658 | 2.679 | 2.690 | 2.711 | 2.730 | 2.742 | 2.759 | 2.776 | 2.805 | 2.8309 |
| 2.863 | 2.890 | 2.909 | 2.917 | 2.924 | 2.926 | — | — | — | — | — | — | 2.7816 |
| — | — | — | — | — | — | 2.753 | 2.745 | 2.741 | 2.734 | 2.740 | 2.756 | 2.8601 |
| 2.745 | 2.752 | 2.775 | 2.789 | 2.794 | 2.797 | 2.799 | 2.816 | 2.824 | 2.827 | 2.839 | 2.844 | 2.8601 |
| 2.844 | 2.842 | 2.847 | 2.857 | 2.841 | 2.833 | 2.834 | 2.836 | 2.837 | 2.837 | 2.844 | 2.836 | 2.7427 |
| 2.727 | 2.721 | 2.705 | 2.695 | 2.672 | 2.677 | 2.683 | 2.687 | 2.696 | 2.679 | 2.665 | 2.669 | 2.5857 |
| 2.598 | 2.585 | 2.569 | 2.545 | 2.527 | 2.504 | 2.489 | 2.461 | 2.436 | 2.416 | 2.388 | 2.352 | 2.3048 |
| 2.309 | 2.333 | 2.354 | 2.344 | 2.343 | 2.337 | 2.336 | 2.342 | 2.342 | 2.344 | 2.378 | 2.397 | 2.4803 |
| 2.474 | 2.486 | 2.499 | 2.507 | 2.488 | 2.471 | — | — | — | — | — | — | 2.7470 |
| — | — | — | — | — | — | 2.468 | 2.467 | 2.481 | 2.485 | 2.507 | 2.523 | 2.9922 |
| 2.741 | 2.791 | 2.812 | 2.816 | 2.831 | 2.859 | 2.864 | 2.874 | 2.875 | 2.886 | 2.906 | 2.913 | 2.8032 |
| 3.005 | 3.004 | 3.002 | 3.000 | 2.996 | 2.996 | 3.005 | 3.005 | 2.999 | 2.985 | 2.980 | 2.980 | 2.6464 |
| 2.771 | 2.768 | 2.761 | 2.751 | 2.724 | 2.710 | 2.696 | 2.668 | 2.659 | 2.655 | 2.647 | 2.634 | 2.7232 |
| 2.558 | 2.601 | 2.637 | 2.694 | 2.721 | 2.759 | 2.770 | 2.778 | 2.799 | 2.795 | 2.801 | 2.814 | 2.4866 |
| 2.693 | 2.699 | 2.695 | 2.694 | 2.692 | 2.685 | 2.638 | 2.624 | 2.600 | 2.588 | 2.572 | 2.572 | 2.5271 |
| 2.433 | 2.443 | 2.450 | 2.455 | 2.459 | 2.458 | — | — | — | — | — | — | 2.7559 |
| — | — | — | — | — | — | 2.478 | 2.489 | 2.481 | 2.467 | 2.487 | 2.495 | 2.8985 |
| 2.498 | 2.519 | 2.543 | 2.548 | 2.560 | 2.571 | 2.577 | 2.593 | 2.594 | 2.592 | 2.601 | 2.618 | 2.8113 |
| 2.733 | 2.752 | 2.770 | 2.805 | 2.821 | 2.833 | 2.848 | 2.863 | 2.867 | 2.884 | 2.890 | 2.892 | 2.8135 |
| 2.879 | 2.875 | 2.867 | 2.892 | 2.892 | 2.884 | 2.885 | 2.867 | 2.873 | 2.884 | 2.877 | 2.890 | 2.5212 |
| 2.773 | 2.781 | 2.781 | 2.780 | 2.777 | 2.762 | 2.770 | 2.781 | 2.795 | 2.795 | 2.805 | 2.805 | 2.6911 |
| 2.794 | 2.795 | 2.795 | 2.797 | 2.800 | 2.802 | 2.800 | 2.809 | 2.803 | 2.811 | 2.803 | 2.784 | 2.4340 |
| 2.554 | 2.536 | 2.504 | 2.474 | 2.445 | 2.439 | — | — | — | — | — | — | 2.1826 |
| — | — | — | — | — | — | 2.155 | 2.154 | 2.154 | 2.152 | 2.153 | 2.158 | 2.4048 |
| 2.6752 | 2.6840 | 2.6909 | 2.6963 | 2.6949 | 2.6957 | 2.6732 | 2.6726 | 2.6711 | 2.6705 | 2.6748 | 2.6802 | 2.4563 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2.4621 |
| 2.194 | 2.193 | 2.194 | 2.194 | 2.198 | 2.189 | 2.186 | 2.184 | 2.175 | 2.178 | 2.162 | 2.152 | 2.6090 |
| 2.238 | 2.248 | 2.265 | 2.291 | 2.288 | 2.285 | 2.279 | 2.301 | 2.299 | 2.300 | 2.324 | 2.338 | 2.7060 |
| 2.562 | 2.574 | 2.603 | 2.621 | 2.617 | 2.628 | 2.640 | 2.644 | 2.648 | 2.656 | 2.668 | 2.682 | 2.7610 |
| 2.636 | 2.636 | 2.647 | 2.635 | 2.640 | 2.632 | 2.624 | 2.617 | 2.605 | 2.599 | 2.593 | 2.568 | 2.4748 |
| 2.416 | 2.417 | 2.417 | 2.409 | 2.391 | 2.385 | 2.359 | 2.332 | 2.317 | 2.295 | 2.279 | 2.243 | 2.3357 |
| 2.050 | 2.054 | 2.056 | 2.060 | 2.137 | 2.159 | — | — | — | — | — | — | 2.3872 |
| — | — | — | — | — | — | 2.350 | 2.370 | 2.355 | 2.354 | 2.367 | 2.367 | 2.6911 |
| 2.388 | 2.396 | 2.410 | 2.426 | 2.432 | 2.438 | 2.442 | 2.452 | 2.445 | 2.456 | 2.466 | 2.474 | 2.2851 |
| 2.433 | 2.445 | 2.457 | 2.459 | 2.455 | 2.456 | 2.444 | 2.430 | 2.418 | 2.418 | 2.414 | 2.422 | 2.4841 |
| 2.465 | 2.479 | 2.485 | 2.489 | 2.489 | 2.487 | 2.483 | 2.483 | 2.475 | 2.473 | 2.477 | 2.480 | 2.4748 |
| 2.659 | 2.671 | 2.683 | 2.689 | 2.686 | 2.677 | 2.682 | 2.685 | 2.672 | 2.666 | 2.667 | 2.656 | 2.4563 |
| 2.694 | 2.709 | 2.719 | 2.721 | 2.734 | 2.741 | 2.745 | 2.750 | 2.760 | 2.773 | 2.795 | 2.807 | 2.4621 |
| 2.848 | 2.856 | 2.861 | 2.861 | 2.861 | 2.850 | — | — | — | — | — | — | 2.6090 |
| — | — | — | — | — | — | 2.519 | 2.507 | 2.491 | 2.483 | 2.493 | 2.493 | 2.7060 |
| 2.498 | 2.496 | 2.490 | 2.472 | 2.461 | 2.448 | 2.437 | 2.422 | 2.414 | 2.388 | 2.369 | 2.356 | 2.7610 |
| 2.334 | 2.345 | 2.351 | 2.350 | 2.348 | 2.343 | 2.347 | 2.357 | 2.363 | 2.366 | 2.370 | 2.363 | 2.4748 |
| 2.305 | 2.319 | 2.337 | 2.355 | 2.376 | 2.410 | 2.434 | 2.471 | 2.499 | 2.525 | 2.554 | 2.589 | 2.3357 |
| 2.721 | 2.730 | 2.721 | 2.716 | 2.708 | 2.694 | 2.673 | 2.669 | 2.663 | 2.648 | 2.638 | 2.608 | 2.3872 |
| 2.227 | 2.217 | 2.217 | 2.207 | 2.199 | 2.183 | 2.183 | 2.170 | 2.154 | 2.124 | 2.102 | 2.094 | 2.6911 |
| 2.509 | 2.534 | 2.532 | 2.546 | 2.552 | 2.553 | — | — | — | — | — | — | 2.2851 |
| — | — | — | — | — | — | 2.695 | 2.705 | 2.713 | 2.725 | 2.730 | 2.749 | 2.4841 |
| 2.780 | 2.780 | 2.809 | 2.824 | 2.823 | 2.825 | 2.820 | 2.826 | 2.818 | 2.821 | 2.820 | 2.820 | 2.8098 |
| 2.681 | 2.661 | 2.653 | 2.640 | 2.617 | 2.573 | 2.541 | 2.512 | 2.491 | 2.457 | 2.418 | 2.386 | 2.8098 |
| 2.726 | 2.749 | 2.768 | 2.772 | 2.799 | 2.807 | 2.817 | 2.825 | 2.829 | 2.837 | 2.811 | 2.803 | 2.6621 |
| 2.701 | 2.690 | 2.661 | 2.658 | 2.630 | 2.620 | 2.602 | 2.570 | 2.562 | 2.536 | 2.512 | 2.489 | 2.6450 |
| 2.359 | 2.371 | 2.385 | 2.421 | 2.427 | 2.431 | 2.449 | 2.451 | 2.485 | 2.499 | 2.531 | 2.554 | 2.6851 |
| 2.773 | 2.777 | 2.777 | 2.772 | 2.762 | 2.755 | — | — | — | — | — | — | 2.4198 |
| — | — | — | — | — | — | 2.701 | 2.712 | 2.724 | 2.732 | 2.722 | 2.724 | 2.7281 |
| 2.868 | 2.891 | 2.909 | 2.911 | 2.909 | 2.899 | 2.907 | 2.898 | 2.911 | 2.927 | 2.933 | 2.944 | 2.8408 |
| 3.003 | 2.985 | 3.011 | 3.001 | 3.001 | 2.997 | 2.986 | 2.992 | 2.976 | 2.957 | 2.938 | 2.928 | 3.0038 |
| 2.5411 | 2.5470 | 2.5545 | 2.5581 | 2.5592 | 2.5563 | 2.5517 | 2.5513 | 2.5485 | 2.5459 | 2.5443 | 2.5419 | 2.5425 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. } | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 2.920 | 2.882 | 2.870 | 2.846 | 2.846 | 2.824 | 2.796 | 2.756 | 2.736 | 2.719 | 2.704 | 2.692 |
| | 2 | 2.509 | 2.529 | 2.531 | 2.531 | 2.524 | 2.511 | 2.471 | 2.445 | 2.431 | 2.435 | 2.431 | 2.429 |
| | 3 | 2.728 | 2.757 | 2.773 | 2.773 | 2.789 | 2.796 | 2.786 | 2.781 | 2.781 | 2.788 | 2.808 | 2.819 |
| | 4 | 2.903 | 2.929 | 2.932 | 2.930 | 2.930 | 2.932 | 2.920 | 2.909 | 2.897 | 2.902 | 2.916 | 2.926 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 3.045 | 3.059 | 3.067 | 3.067 | 3.064 | 3.040 | 3.013 | 2.999 | 2.977 | 2.952 | 2.936 | 2.940 |
| | 7 | 2.720 | 2.727 | 2.736 | 2.736 | 2.728 | 2.725 | 2.703 | 2.690 | 2.679 | 2.675 | 2.669 | 2.659 |
| | 8 | 2.687 | 2.709 | 2.738 | 2.746 | 2.768 | 2.782 | 2.780 | 2.777 | 2.794 | 2.808 | 2.829 | 2.837 |
| | 9 | 2.851 | 2.851 | 2.869 | 2.838 | 2.838 | 2.807 | 2.764 | 2.726 | 2.711 | 2.685 | 2.654 | 2.628 |
| | 10 | 2.401 | 2.401 | 2.415 | 2.409 | 2.433 | 2.454 | 2.453 | 2.467 | 2.469 | 2.489 | 2.508 | 2.524 |
| | 11 | 2.415 | 2.415 | 2.379 | 2.351 | 2.351 | 2.343 | 2.351 | 2.344 | 2.356 | 2.370 | 2.408 | 2.430 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 2.567 | 2.559 | 2.545 | 2.545 | 2.541 | 2.535 | 2.522 | 2.534 | 2.544 | 2.578 | 2.624 | 2.655 |
| | 14 | 2.986 | 3.022 | 3.038 | 3.046 | 3.058 | 3.041 | 3.050 | 3.048 | 3.044 | 3.041 | 3.039 | 3.031 |
| | 15 | 2.825 | 2.819 | 2.805 | 2.781 | 2.799 | 2.756 | 2.711 | 2.699 | 2.675 | 2.666 | 2.652 | 2.646 |
| | 16 | 2.637 | 2.649 | 2.662 | 2.670 | 2.672 | 2.661 | 2.661 | 2.656 | 2.658 | 2.674 | 2.685 | 2.704 |
| | 17 | 2.860 | 2.853 | 2.865 | 2.837 | 2.811 | 2.777 | 2.747 | 2.656 | 2.613 | 2.571 | 2.485 | 2.438 |
| | 18 | 2.401 | 2.401 | 2.413 | 2.417 | 2.447 | 2.465 | 2.475 | 2.506 | 2.542 | 2.576 | 2.630 | 2.634 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 2.791 | 2.811 | 2.811 | 2.811 | 2.810 | 2.784 | 2.753 | 2.730 | 2.699 | 2.675 | 2.649 | 2.616 |
| | 21 | 2.046 | 2.038 | 2.032 | 2.032 | 2.052 | 2.038 | 2.043 | 2.049 | 2.061 | 2.087 | 2.103 | 2.126 |
| | 22 | 2.316 | 2.354 | 2.382 | 2.404 | 2.436 | 2.450 | 2.462 | 2.486 | 2.514 | 2.540 | 2.569 | 2.584 |
| | 23 | 2.587 | 2.579 | 2.571 | 2.561 | 2.541 | 2.502 | 2.462 | 2.418 | 2.395 | 2.364 | 2.342 | 2.304 |
| | 24 | 2.036 | 2.070 | 2.174 | 2.243 | 2.294 | 2.320 | 2.341 | 2.351 | 2.377 | 2.412 | 2.460 | 2.508 |
| | 25 | 2.764 | 2.804 | 2.817 | 2.841 | 2.861 | 2.861 | 2.847 | 2.847 | 2.841 | 2.841 | 2.849 | 2.845 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 2.943 | 2.951 | 2.975 | 3.000 | 3.008 | 2.998 | 2.983 | 2.975 | 2.946 | 2.957 | 2.971 | 2.970 |
| | 28 | 2.868 | 2.859 | 2.859 | 2.856 | 2.844 | 2.814 | 2.763 | 2.739 | 2.701 | 2.673 | 2.643 | 2.627 |
| | 29 | 2.527 | 2.517 | 2.539 | 2.511 | 2.511 | 2.517 | 2.488 | 2.476 | 2.473 | 2.496 | 2.518 | 2.544 |
| | 30 | 2.896 | 2.921 | 2.952 | 2.980 | 2.992 | 2.984 | 2.966 | 2.977 | 2.985 | 2.985 | 2.985 | 2.978 |
| Hourly Means | 2.6627 | 2.6718 | 2.6827 | 2.6832 | 2.6903 | 2.6814 | 2.6658 | 2.6554 | 2.6500 | 2.6523 | 2.6564 | 2.6575 | |
| DECEMBER. | 1 | 2.827 | 2.827 | 2.821 | 2.829 | 2.823 | 2.821 | 2.771 | 2.751 | 2.735 | 2.722 | 2.726 | 2.720 |
| | 2 | 2.636 | 2.644 | 2.658 | 2.649 | 2.655 | 2.643 | 2.627 | 2.625 | 2.616 | 2.615 | 2.611 | 2.619 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 2.544 | 2.512 | 2.502 | 2.491 | 2.467 | 2.438 | 2.402 | 2.380 | 2.364 | 2.378 | 2.384 | 2.396 |
| | 5 | 2.621 | 2.658 | 2.702 | 2.737 | 2.771 | 2.813 | 2.833 | 2.850 | 2.865 | 2.885 | 2.904 | 2.920 |
| | 6 | 2.873 | 2.850 | 2.848 | 2.812 | 2.792 | 2.763 | 2.729 | 2.704 | 2.689 | 2.661 | 2.653 | 2.643 |
| | 7 | 2.474 | 2.446 | 2.446 | 2.426 | 2.404 | 2.380 | 2.348 | 2.325 | 2.314 | 2.324 | 2.339 | 2.359 |
| | 8 | 2.476 | 2.476 | 2.477 | 2.469 | 2.469 | 2.433 | 2.397 | 2.349 | 2.315 | 2.296 | 2.286 | 2.264 |
| | 9 | 2.294 | 2.298 | 2.313 | 2.327 | 2.333 | 2.333 | 2.333 | 2.334 | 2.346 | 2.368 | 2.392 | 2.428 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 2.216 | 2.240 | 2.272 | 2.321 | 2.354 | 2.353 | 2.353 | 2.368 | 2.382 | 2.396 | 2.421 | 2.437 |
| | 12 | 2.641 | 2.680 | 2.731 | 2.764 | 2.796 | 2.808 | 2.824 | 2.838 | 2.885 | 2.931 | 2.981 | 2.993 |
| | 13 | 3.250 | 3.263 | 3.257 | 3.259 | 3.242 | 3.219 | 3.198 | 3.163 | 3.130 | 3.098 | 3.091 | 3.059 |
| | 14 | 2.927 | 2.927 | 2.927 | 2.927 | 2.926 | 2.899 | 2.882 | 2.881 | 2.871 | 2.876 | 2.896 | 2.895 |
| | 15 | 2.971 | 2.979 | 2.991 | 3.008 | 2.992 | 2.990 | 2.989 | 2.983 | 2.980 | 2.978 | 2.976 | 2.975 |
| | 16 | 2.683 | 2.683 | 2.691 | 2.695 | 2.711 | 2.695 | 2.693 | 2.674 | 2.680 | 2.682 | 2.680 | 2.682 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 2.652 | 2.666 | 2.692 | 2.702 | 2.729 | 2.748 | 2.753 | 2.765 | 2.777 | 2.793 | 2.825 | 2.827 |
| | 19 | 2.868 | 2.854 | 2.876 | 2.876 | 2.876 | 2.842 | 2.831 | 2.811 | 2.787 | 2.787 | 2.794 | 2.794 |
| | 20 | 2.723 | 2.741 | 2.761 | 2.781 | 2.793 | 2.793 | 2.782 | 2.774 | 2.773 | 2.794 | 2.806 | 2.825 |
| | 21 | 2.866 | 2.852 | 2.852 | 2.830 | 2.842 | 2.814 | 2.782 | 2.753 | 2.739 | 2.730 | 2.719 | 2.711 |
| | 22 | 2.564 | 2.549 | 2.556 | 2.564 | 2.572 | 2.561 | 2.530 | 2.523 | 2.517 | 2.521 | 2.523 | 2.527 |
| | 23 | 2.581 | 2.596 | 2.598 | 2.610 | 2.624 | 2.610 | 2.596 | 2.592 | 2.588 | 2.590 | 2.590 | 2.588 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 2.649 | 2.649 | 2.627 | 2.617 | 2.585 | 2.571 | 2.525 | 2.490 | 2.470 | 2.453 | 2.451 | 2.436 |
| | 27 | 2.484 | 2.508 | 2.547 | 2.575 | 2.601 | 2.589 | 2.581 | 2.573 | 2.571 | 2.571 | 2.574 | 2.574 |
| | 28 | 2.454 | 2.438 | 2.443 | 2.443 | 2.443 | 2.419 | 2.395 | 2.382 | 2.382 | 2.385 | 2.407 | 2.426 |
| | 29 | 2.566 | 2.579 | 2.616 | 2.645 | 2.655 | 2.655 | 2.638 | 2.622 | 2.620 | 2.624 | 2.624 | 2.638 |
| | 30 | 2.665 | 2.666 | 2.694 | 2.720 | 2.730 | 2.727 | 2.700 | 2.685 | 2.677 | 2.675 | 2.665 | 2.678 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2.6605 | 2.6632 | 2.6759 | 2.6831 | 2.6874 | 2.6767 | 2.6597 | 2.6478 | 2.6429 | 2.6453 | 2.6527 | 2.6566 | |

^a Christmas Day.

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.676 | 2.648 | 2.624 | 2.610 | 2.598 | 2.578 | 2.564 | 2.565 | 2.547 | 2.533 | 2.531 | 2.515 | 2.6908 |
| 2.453 | 2.477 | 2.503 | 2.531 | 2.541 | 2.557 | 2.564 | 2.583 | 2.623 | 2.664 | 2.690 | 2.714 | 2.5282 |
| 2.829 | 2.837 | 2.836 | 2.836 | 2.836 | 2.856 | 2.863 | 2.875 | 2.889 | 2.894 | 2.892 | 2.902 | 2.8218 |
| 2.934 | 2.951 | 2.981 | 2.995 | 3.002 | 3.010 | — | — | — | — | — | — | 2.9723 |
| — | — | — | — | — | — | 3.088 | 3.084 | 3.076 | 3.071 | 3.059 | 3.059 | — |
| 2.933 | 2.919 | 2.897 | 2.877 | 2.862 | 2.832 | 2.818 | 2.798 | 2.786 | 2.766 | 2.742 | 2.726 | 2.9215 |
| 2.663 | 2.649 | 2.639 | 2.629 | 2.629 | 2.621 | 2.617 | 2.614 | 2.622 | 2.624 | 2.637 | 2.659 | 2.6688 |
| 2.856 | 2.866 | 2.864 | 2.872 | 2.866 | 2.874 | 2.872 | 2.870 | 2.881 | 2.881 | 2.869 | 2.857 | 2.8201 |
| 2.615 | 2.599 | 2.578 | 2.578 | 2.540 | 2.512 | 2.488 | 2.462 | 2.442 | 2.426 | 2.420 | 2.401 | 2.6368 |
| 2.544 | 2.567 | 2.574 | 2.568 | 2.560 | 2.560 | 2.564 | 2.556 | 2.530 | 2.502 | 2.464 | 2.427 | 2.4933 |
| 2.462 | 2.484 | 2.512 | 2.542 | 2.561 | 2.577 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.738 | 2.718 | 2.691 | 2.671 | 2.639 | 2.607 | 2.4881 |
| 2.682 | 2.704 | 2.735 | 2.766 | 2.796 | 2.822 | 2.847 | 2.885 | 2.905 | 2.931 | 2.943 | 2.958 | 2.6968 |
| 3.027 | 3.023 | 3.016 | 3.008 | 2.992 | 2.976 | 2.956 | 2.939 | 2.915 | 2.891 | 2.865 | 2.837 | 2.9954 |
| 2.648 | 2.647 | 2.646 | 2.644 | 2.642 | 2.643 | 2.641 | 2.637 | 2.635 | 2.631 | 2.636 | 2.628 | 2.6880 |
| 2.728 | 2.758 | 2.778 | 2.804 | 2.823 | 2.825 | 2.834 | 2.844 | 2.848 | 2.855 | 2.856 | 2.856 | 2.7416 |
| 2.403 | 2.363 | 2.351 | 2.350 | 2.372 | 2.374 | 2.377 | 2.377 | 2.403 | 2.407 | 2.414 | 2.401 | 2.5460 |
| 2.679 | 2.699 | 2.713 | 2.714 | 2.734 | 2.735 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.796 | 2.800 | 2.800 | 2.802 | 2.798 | 2.796 | 2.6239 |
| 2.568 | 2.527 | 2.485 | 2.435 | 2.388 | 2.340 | 2.295 | 2.259 | 2.213 | 2.164 | 2.124 | 2.074 | 2.5338 |
| 2.146 | 2.166 | 2.187 | 2.200 | 2.218 | 2.224 | 2.224 | 2.251 | 2.273 | 2.273 | 2.284 | 2.294 | 2.1436 |
| 2.610 | 2.616 | 2.624 | 2.636 | 2.630 | 2.619 | 2.634 | 2.632 | 2.624 | 2.626 | 2.622 | 2.599 | 2.5404 |
| 2.280 | 2.244 | 2.217 | 2.182 | 2.130 | 2.100 | 2.068 | 2.046 | 2.041 | 2.026 | 2.021 | 2.031 | 2.2922 |
| 2.550 | 2.573 | 2.603 | 2.622 | 2.652 | 2.670 | 2.684 | 2.693 | 2.727 | 2.741 | 2.756 | 2.756 | 2.4839 |
| 2.859 | 2.854 | 2.852 | 2.855 | 2.852 | 2.849 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.865 | 2.86 | 2.884 | 2.887 | 2.903 | 2.933 | 2.8532 |
| 2.968 | 2.973 | 2.971 | 2.961 | 2.950 | 2.951 | 2.936 | 2.926 | 2.928 | 2.912 | 2.904 | 2.876 | 2.9555 |
| 2.627 | 2.625 | 2.625 | 2.629 | 2.623 | 2.619 | 2.595 | 2.587 | 2.573 | 2.549 | 2.525 | 2.525 | 2.6812 |
| 2.585 | 2.619 | 2.645 | 2.673 | 2.694 | 2.712 | 2.729 | 2.759 | 2.789 | 2.821 | 2.862 | 2.876 | 2.6200 |
| 2.984 | 2.964 | 2.942 | 2.934 | 2.932 | 2.922 | 2.897 | 2.889 | 2.879 | 2.863 | 2.841 | 2.811 | 2.9358 |
| 2.6657 | 2.6674 | 2.6692 | 2.6712 | 2.6701 | 2.6676 | 2.6752 | 2.6737 | 2.6740 | 2.6697 | 2.6653 | 2.6584 | 2.6682 |
| 2.724 | 2.712 | 2.716 | 2.701 | 2.701 | 2.685 | 2.678 | 2.676 | 2.674 | 2.670 | 2.640 | 2.628 | 2.7324 |
| 2.622 | 2.638 | 2.640 | 2.649 | 2.657 | 2.668 | — | — | — | — | — | — | 2.6275 |
| — | — | — | — | — | — | 2.622 | 2.614 | 2.614 | 2.599 | 2.581 | 2.559 | — |
| 2.399 | 2.395 | 2.403 | 2.399 | 2.411 | 2.427 | 2.433 | 2.433 | 2.461 | 2.503 | 2.537 | 2.579 | 2.4432 |
| 2.930 | 2.938 | 2.938 | 2.949 | 2.949 | 2.950 | 2.948 | 2.948 | 2.939 | 2.926 | 2.908 | 2.895 | 2.8653 |
| 2.631 | 2.627 | 2.623 | 2.603 | 2.593 | 2.583 | 2.572 | 2.543 | 2.543 | 2.516 | 2.498 | 2.482 | 2.6596 |
| 2.379 | 2.398 | 2.420 | 2.434 | 2.440 | 2.470 | 2.472 | 2.483 | 2.499 | 2.496 | 2.496 | 2.484 | 2.4190 |
| 2.269 | 2.268 | 2.252 | 2.237 | 2.225 | 2.221 | 2.221 | 2.221 | 2.251 | 2.261 | 2.271 | 2.272 | 2.3198 |
| 2.446 | 2.480 | 2.493 | 2.504 | 2.517 | 2.535 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.345 | 2.309 | 2.270 | 2.243 | 2.219 | 2.202 | 2.3609 |
| 2.436 | 2.450 | 2.462 | 2.452 | 2.452 | 2.470 | 2.480 | 2.493 | 2.515 | 2.527 | 2.565 | 2.607 | 2.4176 |
| 3.037 | 3.095 | 3.131 | 3.156 | 3.170 | 3.196 | 3.217 | 3.211 | 3.231 | 3.232 | 3.226 | 3.241 | 3.0015 |
| 3.053 | 3.046 | 3.032 | 3.009 | 2.995 | 2.987 | 2.977 | 2.959 | 2.957 | 2.949 | 2.944 | 2.927 | 3.0860 |
| 2.894 | 2.923 | 2.899 | 2.917 | 2.927 | 2.931 | 2.939 | 2.947 | 2.965 | 2.978 | 2.976 | 2.962 | 2.9205 |
| 2.980 | 2.972 | 2.962 | 2.931 | 2.904 | 2.864 | 2.816 | 2.798 | 2.760 | 2.738 | 2.722 | 2.701 | 2.9150 |
| 2.676 | 2.674 | 2.658 | 2.658 | 2.615 | 2.577 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.659 | 2.653 | 2.638 | 2.650 | 2.644 | 2.640 | 2.6663 |
| 2.839 | 2.859 | 2.883 | 2.901 | 2.893 | 2.880 | 2.864 | 2.881 | 2.886 | 2.886 | 2.877 | 2.864 | 2.8101 |
| 2.798 | 2.802 | 2.798 | 2.793 | 2.789 | 2.777 | 2.751 | 2.747 | 2.759 | 2.755 | 2.745 | 2.741 | 2.8021 |
| 2.853 | 2.868 | 2.866 | 2.866 | 2.878 | 2.904 | 2.903 | 2.899 | 2.899 | 2.888 | 2.876 | 2.866 | 2.8297 |
| 2.699 | 2.700 | 2.668 | 2.663 | 2.655 | 2.647 | 2.632 | 2.620 | 3.618 | 2.613 | 2.603 | 2.580 | 2.7162 |
| 2.533 | 2.533 | 2.536 | 2.530 | 2.547 | 2.549 | 2.546 | 2.548 | 2.566 | 2.575 | 2.577 | 2.577 | 2.5468 |
| 2.588 | 2.588 | 2.582 | 2.577 | 2.575 | 2.575 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | 3.6228 |
| — | — | — | — | — | — | 2.748 | 2.736 | 2.734 | 2.699 | 2.699 | 2.683 | — |
| 2.446 | 2.449 | 2.443 | 2.435 | 2.432 | 2.434 | 2.424 | 2.420 | 2.445 | 2.445 | 2.457 | 2.454 | 2.4920 |
| 2.576 | 2.586 | 2.583 | 2.569 | 2.556 | 2.535 | 2.527 | 2.509 | 2.494 | 2.484 | 2.476 | 2.454 | 2.5457 |
| 2.454 | 2.474 | 2.478 | 2.482 | 2.497 | 2.503 | 2.513 | 2.525 | 2.539 | 2.551 | 2.549 | 2.550 | 2.4638 |
| 2.654 | 2.656 | 2.676 | 2.676 | 2.666 | 2.670 | 2.656 | 2.663 | 2.674 | 2.679 | 2.672 | 2.665 | 2.6454 |
| 2.685 | 2.687 | 2.689 | 2.690 | 2.694 | 2.698 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.890 | 2.886 | 2.896 | 2.888 | 2.882 | 2.880 | 2.7395 |
| 2.6648 | 2.6727 | 2.6732 | 2.6712 | 2.6695 | 2.6694 | 2.6733 | 2.6689 | 2.6731 | 2.6700 | 2.6656 | 2.6593 | 2.6659 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 2 | 22.7 | 24.2 | 25.2 | 26.9 | 29.5 | 30.9 | 31.0 | 30.5 | 29.9 | 29.2 | 28.7 | 28.0 |
| | 3 | 11.6 | 10.2 | 9.9 | 10.9 | 11.6 | 12.8 | 13.2 | 14.3 | 15.0 | 14.8 | 12.7 | 11.3 |
| | 4 | 9.7 | 9.8 | 10.4 | 11.5 | 14.2 | 17.5 | 18.6 | 21.1 | 21.2 | 21.8 | 21.4 | 21.2 |
| | 5 | 24.3 | 24.4 | 24.9 | 26.2 | 29.2 | 32.6 | 33.1 | 33.2 | 33.1 | 32.5 | 32.4 | 31.9 |
| | 6 | 31.4 | 32.0 | 31.6 | 32.2 | 32.6 | 34.2 | 35.4 | 36.6 | 37.5 | 38.1 | 38.2 | 38.4 |
| | 7 | 40.2 | 39.2 | 39.2 | 40.7 | 41.9 | 42.5 | 42.5 | 41.9 | 42.9 | 41.8 | 40.7 | 38.8 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 21.8 | 21.5 | 21.4 | 24.0 | 26.2 | 27.2 | 29.8 | 29.8 | 30.8 | 29.7 | 29.2 | 28.0 |
| | 10 | 32.2 | 32.3 | 32.6 | 33.2 | 34.2 | 34.6 | 34.8 | 34.7 | 34.8 | 35.0 | 35.0 | 34.4 |
| | 11 | 27.9 | 27.2 | 27.4 | 29.4 | 29.7 | 30.6 | 32.0 | 32.2 | 32.8 | 32.8 | 32.3 | 32.1 |
| | 12 | 30.1 | 30.2 | 30.2 | 30.5 | 31.2 | 32.0 | 32.0 | 32.0 | 32.4 | 33.1 | 33.1 | 33.2 |
| | 13 | 33.4 | 33.3 | 33.5 | 33.7 | 33.7 | 33.7 | 33.5 | 33.2 | 31.4 | 28.0 | 26.7 | 25.5 |
| | 14 | 25.4 | 24.6 | 23.9 | 23.6 | 24.0 | 24.9 | 25.5 | 25.5 | 26.0 | 25.5 | 24.5 | 23.2 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 29.4 | 27.8 | 26.3 | 24.3 | 23.9 | 23.6 | 23.8 | 23.9 | 23.8 | 23.7 | 23.5 | 23.6 |
| | 17 | 20.4 | 20.4 | 21.6 | 24.4 | 26.9 | 27.7 | 28.2 | 28.5 | 28.1 | 27.7 | 26.8 | 26.4 |
| | 18 | 27.9 | 27.2 | 29.6 | 31.2 | 36.3 | 36.8 | 39.0 | 40.7 | 42.0 | 43.7 | 43.7 | 38.2 |
| | 19 | 36.1 | 37.4 | 37.4 | 38.4 | 37.8 | 39.5 | 39.9 | 41.8 | 42.2 | 42.0 | 41.7 | 41.6 |
| | 20 | 37.7 | 37.6 | 38.4 | 37.3 | 38.0 | 38.7 | 40.0 | 38.8 | 38.8 | 37.8 | 39.8 | 38.8 |
| | 21 | 35.4 | 34.1 | 38.2 | 39.5 | 42.0 | 48.0 | 48.7 | 48.5 | 50.2 | 54.8 | 53.7 | 50.5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 28.1 | 30.6 | 30.4 | 30.3 | 32.4 | 33.4 | 34.0 | 34.6 | 35.4 | 35.0 | 35.5 | 34.8 |
| | 24 | 33.0 | 33.2 | 32.2 | 30.7 | 29.4 | 33.2 | 34.5 | 35.5 | 34.7 | 34.5 | 33.7 | 32.0 |
| | 25 | 30.2 | 29.5 | 29.2 | 28.4 | 25.7 | 23.7 | 21.3 | 19.7 | 18.0 | 17.1 | 15.7 | 13.9 |
| | 26 | 3.6 | 3.0 | 3.1 | 4.3 | 7.4 | 11.5 | 13.0 | 15.5 | 16.5 | 17.2 | 17.8 | 18.0 |
| | 27 | 27.5 | 25.4 | 25.3 | 25.4 | 26.2 | 27.8 | 28.2 | 29.8 | 30.3 | 30.0 | 30.0 | 29.6 |
| | 28 | 25.0 | 24.8 | 24.2 | 24.8 | 25.8 | 27.0 | 29.8 | 28.6 | 28.5 | 28.9 | 29.2 | 27.5 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 22.4 | 20.4 | 20.7 | 25.8 | 28.0 | 30.8 | 31.7 | 33.5 | 34.1 | 33.6 | 31.7 | 31.0 |
| | 31 | 33.0 | 33.8 | 34.8 | 35.1 | 35.2 | 35.3 | 35.7 | 36.2 | 36.2 | 36.7 | 36.5 | 35.8 |
| | Hourly Means | 26.94 | 26.70 | 26.98 | 27.80 | 28.96 | 30.40 | 31.12 | 31.56 | 31.79 | 31.73 | 31.32 | 30.30 |
| FEBRUARY. | 1 | 17.0 | 15.7 | 15.9 | 16.4 | 16.5 | 17.7 | 17.6 | 17.6 | 18.4 | 19.2 | 18.0 | 16.4 |
| | 2 | 0.1 | -0.1 | 1.3 | 3.0 | 6.8 | 11.2 | 13.2 | 15.2 | 18.2 | 18.6 | 19.4 | 18.4 |
| | 3 | 23.0 | 23.1 | 23.1 | 23.2 | 24.5 | 25.0 | 25.8 | 26.5 | 26.7 | 26.5 | 26.7 | 25.7 |
| | 4 | 18.2 | 19.8 | 21.7 | 23.7 | 24.7 | 27.3 | 30.8 | 31.4 | 30.2 | 30.5 | 30.8 | 28.9 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 13.5 | 12.2 | 11.9 | 12.5 | 13.2 | 14.4 | 16.6 | 15.7 | 14.3 | 13.6 | 11.7 | 9.5 |
| | 7 | 8.3 | 8.4 | 8.6 | 9.2 | 10.7 | 12.5 | 13.5 | 16.2 | 17.4 | 17.0 | 16.8 | 15.6 |
| | 8 | 10.8 | 11.2 | 10.9 | 11.4 | 13.4 | 16.0 | 17.5 | 17.6 | 17.4 | 18.0 | 17.6 | 16.6 |
| | 9 | 6.2 | 7.7 | 10.0 | 13.8 | 15.4 | 17.2 | 19.2 | 19.7 | 20.7 | 20.5 | 20.2 | 19.5 |
| | 10 | 18.4 | 19.0 | 19.3 | 21.2 | 22.2 | 22.6 | 23.5 | 23.4 | 24.2 | 25.9 | 26.6 | 28.8 |
| | 11 | 32.4 | 29.0 | 24.3 | 22.3 | 21.5 | 21.3 | 21.1 | 21.4 | 21.5 | 22.6 | 22.4 | 19.8 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 12.6 | 12.2 | 11.7 | 14.6 | 15.4 | 17.0 | 20.0 | 20.2 | 19.8 | 20.2 | 19.4 | 18.4 |
| | 14 | 10.6 | 10.0 | 9.8 | 10.0 | 9.8 | 11.0 | 11.6 | 12.0 | 12.2 | 11.8 | 11.8 | 11.5 |
| | 15 | 6.0 | 6.3 | 7.0 | 8.6 | 11.4 | 13.2 | 15.8 | 17.4 | 17.8 | 18.3 | 16.8 | 15.4 |
| | 16 | 7.1 | 6.8 | 5.5 | 7.9 | 10.2 | 13.5 | 14.0 | 14.8 | 15.0 | 14.4 | 13.9 | 12.5 |
| | 17 | -8.3 | -8.3 | -4.4 | 1.6 | 7.0 | 9.7 | 12.2 | 13.5 | 13.8 | 14.7 | 12.0 | 11.0 |
| | 18 | -7.1 | -6.8 | -4.5 | 0.5 | 6.4 | 9.5 | 12.2 | 13.6 | 14.8 | 14.0 | 14.8 | 13.5 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 5.8 | 2.7 | 7.0 | 12.4 | 17.4 | 19.4 | 21.5 | 24.4 | 24.8 | 24.0 | 24.0 | 23.4 |
| | 21 | 12.9 | 14.6 | 17.7 | 20.8 | 24.2 | 26.4 | 26.4 | 28.2 | 27.9 | 27.3 | 27.6 | 26.0 |
| | 22 | 19.5 | 19.4 | 20.1 | 21.1 | 22.0 | 22.3 | 21.3 | 20.4 | 20.5 | 20.2 | 18.8 | 17.2 |
| | 23 | 5.1 | 4.5 | 8.0 | 10.8 | 13.3 | 14.9 | 16.3 | 17.4 | 19.5 | 18.8 | 19.0 | 18.2 |
| | 24 | 9.1 | 9.4 | 11.3 | 13.6 | 17.6 | 19.4 | 20.8 | 24.8 | 27.3 | 26.2 | 27.2 | 26.9 |
| | 25 | 24.1 | 23.8 | 23.6 | 23.9 | 25.4 | 28.2 | 30.7 | 32.3 | 33.8 | 34.3 | 32.4 | 32.2 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 21.0 | 20.0 | 20.4 | 21.2 | 22.2 | 24.2 | 24.8 | 26.7 | 25.7 | 25.7 | 26.1 | 25.2 |
| | 28 | 20.0 | 19.8 | 21.0 | 22.6 | 23.7 | 25.8 | 28.2 | 28.5 | 27.7 | 26.3 | 25.2 | 23.7 |
| Hourly Means | 11.93 | 11.68 | 12.55 | 14.43 | 16.45 | 18.32 | 19.77 | 20.79 | 21.23 | 21.19 | 20.80 | 19.76 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 27.2 | 26.9 | 25.7 | 24.9 | 23.5 | 21.8 | 19.9 | 19.4 | 18.5 | 16.4 | 14.4 | 12.7 | 24.50 |
| 10.5 | 10.0 | 11.0 | 11.8 | 12.4 | 12.2 | 11.5 | 10.8 | 10.7 | 10.6 | 10.2 | 10.0 | 11.67 |
| 20.4 | 20.8 | 22.2 | 21.3 | 19.3 | 19.8 | 19.8 | 20.1 | 20.4 | 21.5 | 22.2 | 23.8 | 18.75 |
| 32.7 | 32.0 | 30.9 | 28.4 | 29.2 | 25.0 | 24.0 | 23.5 | 23.9 | 24.7 | 27.8 | 30.3 | 28.76 |
| 38.5 | 38.2 | 38.5 | 38.9 | 39.2 | 39.0 | 38.8 | 39.8 | 40.2 | 39.4 | 39.6 | 40.2 | 37.02 |
| 37.0 | 36.0 | 35.4 | 35.1 | 35.2 | 35.3 | — | — | — | — | — | — | 35.25 |
| — | — | — | — | — | — | 24.4 | 23.8 | 23.6 | 23.0 | 22.6 | 22.2 | 28.40 |
| 27.7 | 27.4 | 27.7 | 29.0 | 29.8 | 30.2 | 31.8 | 32.0 | 31.4 | 31.4 | 31.7 | 32.1 | 33.03 |
| 33.6 | 33.4 | 32.6 | 32.3 | 32.8 | 32.7 | 32.8 | 32.5 | 32.3 | 31.8 | 29.8 | 28.4 | 30.79 |
| 31.5 | 31.4 | 31.5 | 31.4 | 31.3 | 31.2 | 31.0 | 30.8 | 30.8 | 30.6 | 30.6 | 30.4 | 32.49 |
| 33.3 | 33.5 | 33.3 | 33.4 | 33.5 | 33.8 | 33.4 | 33.2 | 33.2 | 33.0 | 33.0 | 33.2 | 27.40 |
| 24.2 | 23.7 | 23.5 | 22.8 | 22.2 | 21.8 | 21.8 | 22.4 | 22.8 | 23.6 | 24.2 | 25.1 | 25.56 |
| 24.4 | 24.6 | 24.6 | 25.4 | 26.2 | 26.8 | — | — | — | — | — | — | 23.89 |
| — | — | — | — | — | — | 24.6 | 25.9 | 27.5 | 28.2 | 28.8 | 29.8 | 26.79 |
| 24.2 | 22.6 | 22.8 | 24.7 | 25.0 | 25.6 | 24.3 | 22.0 | 21.4 | 21.5 | 21.2 | 20.4 | 36.15 |
| 26.5 | 26.7 | 27.2 | 27.2 | 27.5 | 27.6 | 28.4 | 28.9 | 28.8 | 29.2 | 29.5 | 28.3 | 39.52 |
| 34.6 | 34.8 | 35.0 | 37.7 | 37.0 | 38.7 | 38.9 | 34.2 | 34.0 | 34.0 | 36.6 | 35.7 | 38.19 |
| 40.8 | 40.5 | 41.8 | 41.2 | 39.0 | 37.4 | 37.4 | 38.8 | 39.3 | 37.4 | 39.0 | 40.2 | 40.78 |
| 39.2 | 37.5 | 38.2 | 38.5 | 38.5 | 38.5 | 38.0 | 37.0 | 37.5 | 38.0 | 37.0 | 37.0 | 33.82 |
| 47.5 | 45.5 | 43.6 | 41.5 | 40.2 | 39.2 | — | — | — | — | — | — | 32.03 |
| — | — | — | — | — | — | 30.1 | 30.0 | 30.3 | 29.5 | 28.5 | 28.3 | 15.45 |
| 34.2 | 34.5 | 34.3 | 34.4 | 34.0 | 34.7 | 35.3 | 35.0 | 35.4 | 35.5 | 35.5 | 34.4 | 17.44 |
| 31.2 | 30.8 | 31.2 | 30.9 | 31.8 | 32.0 | 31.0 | 30.8 | 30.8 | 30.6 | 30.6 | 30.5 | 27.85 |
| 12.8 | 11.9 | 11.0 | 10.0 | 9.0 | 8.4 | 7.6 | 7.8 | 6.2 | 5.2 | 4.7 | 3.8 | 23.24 |
| 19.4 | 21.8 | 22.2 | 23.2 | 25.3 | 25.7 | 23.8 | 22.7 | 23.7 | 26.3 | 26.0 | 27.5 | 30.35 |
| 29.3 | 29.2 | 29.2 | 29.7 | 30.4 | 28.4 | 26.8 | 26.5 | 26.2 | 26.4 | 25.7 | 25.2 | 30.60 |
| 21.5 | 19.4 | 21.4 | 21.7 | 22.5 | 23.0 | — | — | — | — | — | — | 28.84 |
| — | — | — | — | — | — | 13.0 | 16.7 | 18.8 | 15.5 | 18.6 | 21.5 | 11.67 |
| 30.8 | 31.4 | 31.5 | 29.2 | 30.0 | 31.2 | 32.9 | 34.2 | 34.4 | 32.8 | 33.2 | 33.0 | 15.57 |
| 33.7 | 33.4 | 33.7 | 33.5 | 30.0 | 26.2 | 23.0 | 20.7 | 20.1 | 19.4 | 18.6 | 17.8 | 23.59 |
| 29.49 | 29.19 | 29.23 | 29.16 | 29.03 | 28.70 | 27.09 | 26.90 | 27.01 | 26.75 | 26.91 | 26.99 | 24.42 |
| 15.4 | 12.8 | 8.8 | 7.1 | 6.7 | 7.1 | 5.7 | 2.7 | 2.2 | 2.1 | 2.0 | 1.0 | 10.07 |
| 16.4 | 16.4 | 19.8 | 20.7 | 20.4 | 21.3 | 21.6 | 22.0 | 22.2 | 22.4 | 22.6 | 22.6 | 12.59 |
| 25.3 | 25.1 | 25.1 | 25.0 | 24.8 | 24.6 | 23.5 | 21.8 | 16.8 | 17.2 | 18.6 | 18.6 | 12.04 |
| 26.5 | 24.2 | 25.4 | 25.7 | 25.5 | 25.6 | — | — | — | — | — | — | 14.82 |
| — | — | — | — | — | — | 21.4 | 20.8 | 20.2 | 19.6 | 17.8 | 15.4 | 28.54 |
| 7.8 | 7.0 | 6.4 | 6.4 | 6.4 | 6.0 | 6.4 | 6.6 | 6.5 | 7.2 | 7.8 | 8.0 | 18.98 |
| 14.6 | 12.6 | 13.8 | 13.8 | 12.8 | 12.5 | 11.9 | 11.7 | 11.3 | 11.1 | 11.0 | 10.8 | 15.44 |
| 15.5 | 14.4 | 13.8 | 11.8 | 10.6 | 10.5 | 7.9 | 2.8 | 4.6 | 6.0 | 6.5 | 6.1 | 9.32 |
| 18.1 | 16.2 | 14.9 | 12.2 | 11.2 | 10.5 | 10.4 | 11.6 | 12.5 | 13.4 | 16.4 | 18.2 | 11.06 |
| 30.0 | 30.8 | 31.6 | 32.0 | 32.6 | 33.8 | 36.4 | 37.4 | 37.6 | 37.6 | 35.3 | 34.7 | 4.96 |
| 18.6 | 16.4 | 16.0 | 15.2 | 14.4 | 14.8 | — | — | — | — | — | — | 4.99 |
| — | — | — | — | — | — | 13.3 | 13.4 | 13.4 | 13.6 | 13.6 | 13.1 | 9.01 |
| 17.6 | 17.0 | 15.6 | 14.3 | 14.1 | 13.8 | 13.4 | 12.7 | 13.0 | 13.0 | 13.0 | 11.6 | 15.40 |
| 10.8 | 10.3 | 9.8 | 9.0 | 7.4 | 6.9 | 6.4 | 6.5 | 6.3 | 6.2 | 6.2 | 5.9 | 24.41 |
| 13.8 | 11.9 | 10.2 | 8.8 | 9.7 | 8.5 | 8.7 | 8.6 | 8.4 | 7.6 | 7.8 | 7.4 | 13.42 |
| 10.4 | 7.8 | 5.6 | 2.4 | 0.8 | -2.6 | -5.4 | -5.2 | -7.2 | -6.5 | -8.2 | -8.5 | 10.66 |
| 8.8 | 8.0 | 7.6 | 5.4 | 4.9 | 3.8 | 3.2 | 2.7 | 2.0 | 1.3 | 0.8 | -3.2 | 21.71 |
| 8.2 | 8.5 | 10.1 | 10.2 | 9.6 | 10.3 | — | — | — | — | — | — | 28.47 |
| — | — | — | — | — | — | 17.8 | 16.8 | 14.5 | 13.4 | 10.4 | 5.5 | 23.01 |
| 22.2 | 20.6 | 15.2 | 11.2 | 10.8 | 9.1 | 11.4 | 12.5 | 13.0 | 12.6 | 13.0 | 11.2 | 21.06 |
| 25.4 | 25.5 | 24.0 | 21.4 | 15.6 | 12.7 | 14.4 | 16.0 | 18.8 | 20.2 | 20.2 | 19.6 | 18.84 |
| 13.6 | 11.4 | 9.8 | 7.2 | 5.4 | 3.6 | 3.0 | 4.5 | 4.7 | 4.4 | 4.7 | 7.0 | 13.32 |
| 14.4 | 8.6 | 6.4 | 5.8 | 6.4 | 6.5 | 6.4 | 6.3 | 6.7 | 6.8 | 7.0 | 8.6 | 13.11 |
| 25.8 | 25.4 | 24.7 | 24.0 | 25.0 | 24.0 | 23.0 | 22.8 | 23.2 | 23.0 | 23.2 | 23.3 | 13.09 |
| 31.7 | 31.4 | 31.0 | 30.8 | 30.5 | 30.4 | — | — | — | — | — | — | 12.84 |
| — | — | — | — | — | — | 26.8 | 27.0 | 26.8 | 25.5 | 24.6 | 22.0 | 12.20 |
| 25.0 | 24.8 | 24.3 | 23.6 | 23.3 | 22.8 | 22.6 | 21.0 | 20.6 | 20.4 | 20.4 | 20.2 | 15.92 |
| 22.4 | 21.5 | 20.4 | 19.6 | 18.2 | 17.4 | 17.2 | 16.8 | 16.5 | 16.0 | 13.4 | 13.6 | |
| 18.26 | 17.03 | 16.26 | 15.15 | 14.46 | 13.91 | 13.64 | 13.32 | 13.11 | 13.09 | 12.84 | 12.20 | |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 14.0 | 14.4 | 15.4 | 17.7 | 19.0 | 19.0 | 20.0 | 20.3 | 20.2 | 20.0 | 19.4 | 18.8 |
| | 2 | 7.6 | 8.1 | 8.9 | 10.8 | 14.2 | 16.5 | 17.8 | 18.7 | 19.8 | 20.2 | 19.6 | 18.6 |
| | 3 | 10.2 | 11.0 | 12.6 | 15.2 | 19.8 | 21.0 | 21.8 | 21.2 | 21.9 | 21.9 | 21.7 | 20.4 |
| | 4 | 3.7 | 2.4 | 7.3 | 15.6 | 19.7 | 21.5 | 22.9 | 23.8 | 25.0 | 25.0 | 24.9 | 23.8 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 6.5 | 7.0 | 10.3 | 12.3 | 16.0 | 18.9 | 22.2 | 23.7 | 25.4 | 25.3 | 25.8 | 24.4 |
| | 7 | -1.2 | 0.7 | 5.8 | 13.1 | 16.1 | 19.2 | 21.2 | 24.4 | 26.6 | 26.8 | 28.3 | 28.3 |
| | 8 | 21.3 | 23.5 | 24.9 | 25.5 | 26.6 | 27.4 | 27.6 | 28.3 | 28.7 | 28.8 | 28.5 | 28.2 |
| | 9 | 19.3 | 16.6 | 20.5 | 21.6 | 23.8 | 26.6 | 29.0 | 31.3 | 30.1 | 31.1 | 30.5 | 30.4 |
| | 10 | 30.7 | 28.9 | 29.2 | 30.6 | 31.1 | 31.0 | 31.3 | 31.8 | 32.3 | 32.9 | 33.1 | 33.4 |
| | 11 | 31.2 | 30.6 | 29.7 | 28.5 | 28.9 | 29.6 | 30.4 | 29.8 | 30.8 | 30.4 | 30.4 | 33.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 30.6 | 31.2 | 31.7 | 32.4 | 34.8 | 34.0 | 34.7 | 36.0 | 35.5 | 35.8 | 34.9 | 33.6 |
| | 14 | 15.2 | 15.3 | 16.5 | 17.4 | 19.0 | 20.0 | 22.2 | 24.4 | 26.8 | 29.2 | 31.6 | 28.7 |
| | 15 | 25.1 | 24.2 | 23.0 | 23.8 | 28.2 | 30.2 | 31.0 | 31.6 | 29.1 | 28.2 | 26.7 | 25.7 |
| | 16 | 10.7 | 11.4 | 16.4 | 20.6 | 23.1 | 25.5 | 27.6 | 27.9 | 27.8 | 26.5 | 25.9 | 25.2 |
| | 17 | 21.0 | 22.0 | 23.3 | 25.2 | 27.9 | 29.0 | 31.2 | 31.7 | 31.5 | 31.7 | 30.5 | 28.5 |
| | 18 | 20.4 | 20.6 | 22.5 | 23.7 | 24.8 | 26.6 | 27.6 | 27.8 | 27.8 | 27.8 | 27.0 | 27.6 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 15.2 | 17.8 | 22.0 | 23.8 | 25.7 | 27.4 | 28.6 | 28.8 | 28.8 | 28.6 | 26.8 | 26.8 |
| | 21 | 18.4 | 18.3 | 22.2 | 24.0 | 24.2 | 24.4 | 25.6 | 27.2 | 28.2 | 29.7 | 28.5 | 28.1 |
| | 22 | 11.8 | 13.1 | 20.7 | 23.4 | 26.8 | 27.9 | 29.4 | 30.8 | 28.0 | 31.0 | 33.2 | 33.0 |
| | 23 | 10.2 | 10.4 | 11.0 | 11.4 | 13.4 | 14.8 | 15.7 | 15.4 | 16.0 | 16.3 | 14.8 | 14.4 |
| | 24 | 10.8 | 12.0 | 15.0 | 17.6 | 20.4 | 22.5 | 23.0 | 23.8 | 26.0 | 26.6 | 26.8 | 25.2 |
| | 25 | 14.6 | 19.4 | 20.4 | 21.8 | 23.8 | 26.0 | 26.8 | 26.8 | 29.8 | 27.2 | 25.5 | 24.3 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 27.0 | 26.7 | 26.7 | 26.8 | 27.0 | 26.2 | 26.8 | 27.3 | 27.2 | 27.6 | 27.9 | 27.7 |
| | 28 | 32.2 | 32.7 | 33.6 | 34.3 | 35.6 | 36.7 | 37.7 | 38.7 | 37.2 | 37.0 | 34.3 | 33.0 |
| | 29 | 19.9 | 22.8 | 26.3 | 26.7 | 28.7 | 30.6 | 33.3 | 35.0 | 35.0 | 36.0 | 35.6 | 34.4 |
| | 30 | 18.9 | 18.8 | 20.2 | 21.2 | 23.4 | 26.4 | 27.8 | 29.2 | 30.0 | 30.2 | 28.6 | 28.0 |
| | 31 | 26.1 | 26.5 | 27.0 | 27.2 | 27.8 | 28.5 | 28.6 | 29.4 | 29.2 | 28.6 | 28.0 | 27.7 |
| Hourly Means | 17.46 | 18.01 | 20.11 | 21.93 | 24.07 | 25.46 | 26.73 | 27.60 | 27.95 | 28.16 | 27.73 | 27.08 | |
| APRIL. | 1 | 21.3 | 22.4 | 25.2 | 26.6 | 28.5 | 30.7 | 32.3 | 32.8 | 33.5 | 33.8 | 35.5 | 32.2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 16.4 | 19.5 | 26.0 | 31.1 | 33.9 | 35.6 | 37.2 | 38.5 | 37.0 | 38.2 | 39.7 | 42.4 |
| | 4 | 28.5 | 31.3 | 33.6 | 34.8 | 36.3 | 37.6 | 36.3 | 34.8 | 34.1 | 34.2 | 34.4 | 34.2 |
| | 5 | 29.2 | 30.0 | 33.1 | 36.3 | 38.8 | 39.4 | 39.5 | 41.5 | 39.2 | 38.4 | 39.6 | 39.2 |
| | 6 | 29.8 | 31.9 | 33.7 | 34.4 | 37.6 | 38.6 | 41.6 | 42.3 | 38.0 | 37.2 | 41.3 | 40.8 |
| | 7 | 26.8 | 29.0 | 32.5 | 34.0 | 35.3 | 36.9 | 39.8 | 41.2 | 40.8 | 40.5 | 39.8 | 39.0 |
| | 8 | 40.4 | 42.1 | 44.1 | 44.3 | 46.0 | 46.0 | 46.2 | 47.8 | 50.2 | 48.3 | 48.9 | 46.4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 31.9 | 31.3 | 31.7 | 33.8 | 35.1 | 38.4 | 41.1 | 42.4 | 44.0 | 43.4 | 42.6 | 44.0 |
| | 11 | 31.6 | 33.6 | 37.3 | 40.0 | 41.0 | 42.9 | 45.3 | 44.8 | 47.0 | 48.8 | 50.0 | 51.2 |
| | 12 | 29.4 | 33.5 | 38.6 | 40.8 | 46.0 | 48.8 | 48.8 | 49.5 | 51.6 | 53.1 | 53.8 | 54.1 |
| | 13 | 32.8 | 40.2 | 42.1 | 43.6 | 45.2 | 45.0 | 42.3 | 42.8 | 45.4 | 42.4 | 41.8 | 42.4 |
| | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 41.2 | 39.6 | 40.4 | 41.5 | 45.5 | 49.8 | 53.6 | 53.2 | 56.2 | 55.0 | 53.7 | 50.7 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 39.8 | 41.4 | 42.4 | 44.4 | 45.2 | 46.0 | 45.2 | 44.5 | 43.8 | 44.0 | 42.7 | 41.7 |
| | 18 | 40.6 | 36.2 | 36.4 | 34.4 | 34.4 | 34.6 | 34.4 | 34.4 | 34.9 | 36.3 | 36.4 | 34.8 |
| | 19 | 36.0 | 36.4 | 36.6 | 37.8 | 39.0 | 40.8 | 43.4 | 42.8 | 42.2 | 43.0 | 41.8 | 41.0 |
| | 20 | 39.4 | 40.2 | 40.7 | 41.8 | 42.7 | 46.7 | 46.6 | 48.5 | 48.8 | 51.2 | 52.4 | 54.4 |
| | 21 | 33.2 | 38.0 | 43.6 | 46.3 | 48.8 | 51.3 | 55.0 | 56.8 | 57.8 | 60.3 | 60.1 | 56.8 |
| | 22 | 47.2 | 50.8 | 51.6 | 53.7 | 54.8 | 55.4 | 54.4 | 52.4 | 54.2 | 52.5 | 53.8 | 53.9 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 51.4 | 51.0 | 51.7 | 51.8 | 52.2 | 52.6 | 53.7 | 56.2 | 57.6 | 57.3 | 56.4 | 54.8 |
| | 25 | 45.0 | 45.0 | 46.2 | 47.8 | 49.4 | 49.6 | 49.4 | 49.9 | 52.2 | 53.0 | 55.0 | 50.3 |
| | 26 | 42.4 | 43.2 | 43.8 | 47.0 | 51.8 | 54.0 | 54.8 | 59.7 | 60.9 | 62.1 | 59.4 | 59.5 |
| | 27 | 42.2 | 42.8 | 43.2 | 43.8 | 45.2 | 46.2 | 49.6 | 52.8 | 55.1 | 55.4 | 57.1 | 59.6 |
| | 28 | 49.6 | 51.2 | 53.4 | 56.4 | 55.5 | 57.4 | 66.0 | 68.4 | 70.5 | 70.0 | 69.5 | 68.1 |
| | 29 | 38.4 | 38.4 | 39.0 | 39.4 | 40.5 | 41.4 | 42.4 | 42.9 | 43.9 | 42.7 | 43.1 | 42.6 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 36.02 | 37.44 | 39.45 | 41.07 | 42.86 | 44.40 | 45.85 | 46.70 | 47.45 | 47.55 | 47.87 | 47.25 | |

^a Good Friday.

| STANDARD THERMOMETER. | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 18.0 | 17.2 | 16.6 | 15.8 | 14.7 | 14.3 | 12.3 | 12.2 | 11.0 | 9.7 | 8.7 | 7.4 | 15.67 |
| 17.2 | 15.8 | 13.8 | 11.4 | 11.0 | 4.2 | 3.9 | 4.8 | 7.5 | 9.0 | 9.6 | 9.8 | 12.45 |
| 19.8 | 18.7 | 18.1 | 17.2 | 16.2 | 15.5 | 13.0 | 11.6 | 12.6 | 10.4 | 8.6 | 6.6 | 16.12 |
| 19.2 | 18.0 | 16.0 | 14.5 | 13.0 | 12.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 10.0 | 11.2 | 9.8 | 10.2 | 9.6 | 8.4 | 15.31 |
| 20.4 | 18.0 | 15.4 | 14.0 | 13.6 | 11.2 | 7.8 | 4.8 | 7.2 | 1.9 | 0.0 | -0.6 | 13.81 |
| 22.0 | 15.8 | 13.6 | 11.9 | 10.3 | 10.6 | 8.6 | 6.6 | 8.7 | 9.7 | 14.2 | 17.8 | 14.96 |
| 27.8 | 27.6 | 27.2 | 26.4 | 25.9 | 23.8 | 22.8 | 21.3 | 20.5 | 20.8 | 19.4 | 20.3 | 25.13 |
| 22.8 | 17.3 | 17.9 | 17.4 | 17.0 | 20.2 | 22.8 | 27.6 | 28.8 | 29.2 | 30.0 | 30.4 | 24.67 |
| 33.4 | 33.5 | 33.6 | 33.8 | 33.6 | 33.6 | 33.6 | 34.2 | 34.3 | 34.2 | 33.7 | 32.8 | 32.52 |
| 29.6 | 26.8 | 25.0 | 23.2 | 19.2 | 15.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 30.6 | 30.2 | 29.8 | 30.2 | 30.4 | 30.6 | 28.50 |
| 28.0 | 24.8 | 22.8 | 22.2 | 21.2 | 19.2 | 16.8 | 15.0 | 13.1 | 16.2 | 16.0 | 11.2 | 26.32 |
| 26.6 | 26.8 | 26.2 | 25.8 | 26.2 | 28.5 | 28.9 | 29.0 | 29.5 | 27.6 | 26.0 | 25.0 | 24.68 |
| 25.1 | 25.0 | 23.4 | 18.0 | 14.4 | 13.0 | 14.0 | 9.2 | 7.8 | 8.8 | 8.8 | 9.5 | 20.99 |
| 24.5 | 23.5 | 23.0 | 21.4 | 20.6 | 19.8 | 19.2 | 19.3 | 19.3 | 19.5 | 19.8 | 20.3 | 21.62 |
| 27.8 | 27.0 | 25.2 | 25.8 | 24.0 | 23.6 | 22.5 | 21.4 | 19.9 | 19.0 | 18.0 | 19.8 | 25.31 |
| 25.0 | 23.0 | 23.2 | 22.2 | 21.8 | 20.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 19.4 | 18.2 | 16.9 | 16.5 | 15.3 | 15.4 | 22.55 |
| 25.6 | 25.2 | 23.8 | 22.0 | 22.4 | 21.8 | 21.0 | 20.4 | 18.4 | 17.8 | 18.2 | 18.6 | 23.15 |
| 26.5 | 25.2 | 24.8 | 24.4 | 23.6 | 23.4 | 23.0 | 22.6 | 21.6 | 19.6 | 17.8 | 13.7 | 23.54 |
| 27.4 | 23.5 | 21.4 | 20.0 | 19.2 | 18.2 | 16.8 | 16.0 | 15.2 | 13.8 | 12.4 | 11.0 | 21.83 |
| 13.8 | 14.2 | 14.2 | 14.6 | 15.2 | 15.6 | 15.6 | 15.0 | 14.0 | 12.8 | 11.7 | 11.2 | 13.82 |
| 22.2 | 20.3 | 19.6 | 18.1 | 16.2 | 16.0 | 15.8 | 15.9 | 16.4 | 16.8 | 15.5 | 15.0 | 19.06 |
| 24.0 | 23.0 | 22.1 | 20.5 | 19.5 | 17.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 19.0 | 19.1 | 19.2 | 20.5 | 25.0 | 26.3 | 22.59 |
| 26.9 | 26.9 | 27.0 | 27.0 | 27.8 | 28.4 | 28.8 | 29.6 | 30.0 | 31.0 | 30.8 | 31.7 | 27.95 |
| 31.0 | 30.2 | 29.6 | 29.8 | 29.6 | 28.0 | 27.0 | 25.6 | 24.6 | 22.9 | 21.8 | 20.2 | 30.97 |
| 32.8 | 31.8 | 31.0 | 29.8 | 28.6 | 27.3 | 26.2 | 23.1 | 21.3 | 20.6 | 20.1 | 19.1 | 28.17 |
| 27.2 | 27.3 | 27.6 | 28.6 | 26.9 | 26.9 | 26.0 | 26.1 | 25.8 | 26.5 | 26.0 | 26.3 | 26.00 |
| 27.0 | 27.6 | 26.9 | 25.8 | 25.0 | 24.0 | 23.4 | 23.2 | 22.4 | 22.0 | 21.7 | 22.6 | 26.09 |
| 24.87 | 23.48 | 22.56 | 21.54 | 20.62 | 19.70 | 19.59 | 19.01 | 18.73 | 18.41 | 18.11 | 17.79 | 22.36 |
| 28.4 | 27.4 | 27.2 | 27.0 | 26.5 | 24.4 | — | — | — | — | — | — | 26.12 |
| — | — | — | — | — | — | 20.4 | 18.8 | 19.0 | 18.6 | 18.4 | 16.0 | — |
| 36.2 | 30.2 | 27.5 | 26.0 | 26.4 | 27.0 | 25.2 | 23.8 | 26.0 | 25.9 | 27.1 | 26.8 | 30.15 |
| 33.6 | 33.2 | 33.0 | 33.2 | 33.2 | 33.6 | 33.6 | 32.5 | 31.1 | 28.9 | 26.9 | 27.8 | 32.95 |
| 36.8 | 36.2 | 35.7 | 34.4 | 31.4 | 32.0 | 32.2 | 32.2 | 31.9 | 31.2 | 29.4 | 29.2 | 34.87 |
| 38.3 | 35.9 | 33.6 | 32.4 | 29.4 | 30.5 | 30.8 | 30.0 | 29.4 | 29.3 | 28.0 | 26.5 | 34.22 |
| 38.6 | 36.6 | 36.2 | 35.8 | 34.4 | 34.8 | 34.8 | 34.6 | 35.2 | 35.0 | 36.8 | 39.8 | 36.17 |
| 43.6 | 40.4 | 37.8 | 37.0 | 36.8 | 37.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33.9 | 32.8 | 32.2 | 32.1 | 32.0 | 31.1 | 40.72 |
| 43.6 | 38.8 | 37.2 | 36.6 | 35.2 | 34.8 | 33.4 | 32.4 | 31.7 | 30.0 | 32.7 | 31.3 | 36.56 |
| 49.7 | 45.2 | 41.2 | 39.4 | 38.7 | 38.0 | 37.9 | 31.8 | 30.4 | 29.8 | 28.5 | 27.8 | 39.66 |
| 46.6 | 42.5 | 38.9 | 37.4 | 36.5 | 35.2 | 34.8 | 34.6 | 35.4 | 36.4 | 35.4 | 32.5 | 41.42 |
| 40.2 | 40.4 | 39.4 | 37.6 | 36.5 | 35.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.8 | 43.7 | 43.1 | 41.9 | 41.1 | 40.4 | 41.32 |
| 50.3 | 49.0 | 49.7 | 47.2 | 45.7 | 45.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.0 | 39.0 | 38.2 | 37.8 | 38.5 | 38.4 | 45.81 |
| 41.2 | 40.4 | 40.6 | 40.0 | 40.2 | 40.4 | 42.8 | 43.0 | 42.6 | 42.4 | 42.6 | 41.4 | 42.43 |
| 35.4 | 35.5 | 36.2 | 36.5 | 36.2 | 36.2 | 35.9 | 35.6 | 35.5 | 35.4 | 35.5 | 35.6 | 35.72 |
| 40.2 | 39.9 | 39.9 | 40.2 | 40.4 | 39.5 | 38.2 | 36.8 | 38.5 | 39.4 | 39.4 | 39.0 | 39.67 |
| 53.3 | 44.9 | 41.4 | 39.0 | 36.4 | 35.6 | 34.8 | 33.8 | 34.8 | 35.0 | 32.8 | 31.2 | 41.93 |
| 52.5 | 50.0 | 47.5 | 45.6 | 44.2 | 45.2 | 45.8 | 44.9 | 45.6 | 45.5 | 45.0 | 43.2 | 48.46 |
| 45.0 | 43.7 | 45.8 | 45.7 | 46.6 | 46.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.2 | 52.0 | 52.5 | 53.0 | 52.3 | 52.2 | 50.91 |
| 53.5 | 51.8 | 48.5 | 47.6 | 46.8 | 45.2 | 44.8 | 44.0 | 44.0 | 44.3 | 44.2 | 43.7 | 50.21 |
| 45.7 | 45.3 | 45.6 | 46.0 | 45.3 | 46.2 | 45.4 | 45.0 | 44.4 | 44.0 | 44.6 | 43.0 | 47.22 |
| 61.2 | 58.5 | 55.5 | 53.3 | 51.5 | 50.0 | 48.0 | 47.8 | 43.2 | 41.0 | 41.8 | 41.8 | 51.34 |
| 55.0 | 47.0 | 50.8 | 52.2 | 49.2 | 47.2 | 47.7 | 47.0 | 41.5 | 40.1 | 40.3 | 47.4 | 48.27 |
| 65.0 | 58.9 | 56.0 | 53.7 | 51.2 | 49.7 | 48.1 | 45.5 | 44.0 | 42.5 | 42.0 | 39.0 | 55.48 |
| 41.0 | 38.4 | 37.4 | 36.0 | 35.2 | 33.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.4 | 38.8 | 39.2 | 39.2 | 36.5 | 36.2 | 39.33 |
| 44.79 | 42.09 | 40.94 | 39.99 | 38.91 | 38.42 | 38.50 | 37.52 | 37.06 | 36.61 | 36.32 | 35.89 | 41.29 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MAY. | 1 | 37.0 | 38.6 | 38.8 | 40.6 | 41.3 | 39.6 | 42.6 | 43.2 | 41.7 | 42.4 | 41.3 | 40.8 |
| | 2 | 35.0 | 37.0 | 39.8 | 41.6 | 43.1 | 45.1 | 46.9 | 49.3 | 48.6 | 49.3 | 52.7 | 55.2 |
| | 3 | 33.0 | 39.2 | 42.6 | 46.4 | 48.8 | 50.4 | 49.4 | 53.1 | 51.2 | 56.3 | 53.2 | 50.8 |
| | 4 | 40.8 | 40.8 | 43.8 | 44.4 | 43.6 | 43.6 | 44.4 | 44.6 | 46.0 | 46.0 | 45.2 | 42.3 |
| | 5 | 39.0 | 40.0 | 41.2 | 41.6 | 40.2 | 39.8 | 38.6 | 38.5 | 39.9 | 41.6 | 43.7 | 41.9 |
| | 6 | 42.0 | 43.8 | 45.7 | 45.6 | 45.8 | 50.0 | 52.8 | 54.2 | 55.7 | 55.1 | 56.4 | 55.8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 46.0 | 47.6 | 49.4 | 49.6 | 52.2 | 53.4 | 54.4 | 55.9 | 54.7 | 54.8 | 53.6 | 53.2 |
| | 9 | 37.4 | 42.6 | 47.2 | 47.6 | 50.4 | 51.2 | 53.6 | 53.3 | 56.4 | 58.9 | 57.8 | 57.5 |
| | 10 | 51.2 | 52.2 | 53.6 | 53.6 | 53.2 | 53.4 | 54.2 | 55.8 | 57.6 | 57.2 | 57.1 | 55.8 |
| | 11 | 49.6 | 52.0 | 52.6 | 54.6 | 56.4 | 58.4 | 59.0 | 60.7 | 61.3 | 61.7 | 63.7 | 66.3 |
| | 12 | 50.2 | 55.4 | 60.7 | 56.4 | 56.5 | 59.3 | 62.1 | 66.5 | 68.1 | 70.0 | 70.0 | 66.4 |
| | 13 | 49.6 | 51.6 | 55.0 | 57.8 | 60.6 | 63.8 | 66.4 | 68.4 | 71.2 | 70.5 | 70.4 | 70.9 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 58.0 | 60.6 | 62.2 | 65.4 | 66.6 | 69.0 | 63.8 | 72.1 | 65.2 | 70.5 | 79.9 | 79.2 |
| | 16 | 52.8 | 54.6 | 56.0 | 58.0 | 59.6 | 62.0 | 62.8 | 64.6 | 65.7 | 67.0 | 67.5 | 66.9 |
| | 17 | 39.0 | 41.0 | 43.6 | 47.0 | 50.4 | 49.2 | 54.0 | 56.8 | 56.4 | 55.0 | 58.2 | 62.2 |
| | 18 | 38.0 | 43.0 | 48.6 | 48.0 | 49.0 | 51.0 | 53.6 | 54.9 | 57.5 | 59.9 | 59.8 | 66.0 |
| | 19 | 44.6 | 47.6 | 53.0 | 56.4 | 59.4 | 60.2 | 60.8 | 61.6 | 63.1 | 60.1 | 62.6 | 60.6 |
| | 20 | 41.6 | 48.4 | 53.4 | 54.6 | 56.6 | 56.8 | 58.8 | 62.5 | 65.1 | 66.5 | 68.5 | 68.6 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 49.8 | 53.4 | 54.4 | 54.8 | 56.6 | 58.0 | 56.4 | 57.2 | 56.8 | 56.8 | 54.9 | 54.9 |
| | 23 | 50.0 | 53.4 | 54.6 | 54.8 | 58.6 | 60.8 | 55.0 | 54.5 | 59.3 | 62.0 | 59.4 | 54.7 |
| | 24 | 43.8 | 47.0 | 50.8 | 53.4 | 55.8 | 57.8 | 59.0 | 63.8 | 66.8 | 69.6 | 71.0 | 69.4 |
| | 25 | 44.8 | 48.4 | 51.2 | 53.0 | 53.6 | 55.6 | 57.4 | 57.8 | 59.4 | 62.0 | 62.2 | 60.2 |
| | 26 | 49.6 | 50.4 | 49.8 | 52.0 | 51.2 | 54.4 | 58.6 | 59.5 | 57.5 | 55.2 | 54.1 | 53.9 |
| | 27 | 53.8 | 53.1 | 53.5 | 55.5 | 56.7 | 56.4 | 56.6 | 56.4 | 56.1 | 55.7 | 55.5 | 55.5 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 49.4 | 52.0 | 52.8 | 55.0 | 56.8 | 57.8 | 56.6 | 59.0 | 57.6 | 61.6 | 66.0 | 67.8 |
| | 30 | 46.6 | 50.0 | 53.4 | 53.8 | 52.4 | 53.0 | 47.6 | 47.3 | 43.6 | 42.0 | 40.3 | 41.2 |
| | 31 | 39.6 | 40.4 | 41.4 | 41.8 | 42.5 | 42.5 | 43.9 | 43.5 | 44.8 | 45.4 | 43.6 | 44.1 |
| Hourly Means | 44.90 | 47.56 | 49.97 | 51.23 | 52.51 | 53.80 | 54.42 | 56.11 | 56.46 | 57.54 | 58.10 | 57.87 | |
| JUNE. | 1 | 38.8 | 41.0 | 42.2 | 42.4 | 45.1 | 45.6 | 46.2 | 47.3 | 49.1 | 50.3 | 47.5 | 46.1 |
| | 2 | 33.8 | 40.4 | 43.0 | 44.8 | 46.2 | 48.2 | 50.4 | 48.3 | 48.0 | 47.9 | 48.3 | 45.2 |
| | 3 | 46.2 | 49.8 | 51.4 | 52.4 | 52.2 | 53.2 | 53.0 | 51.5 | 51.3 | 51.8 | 51.7 | 52.1 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 46.8 | 47.0 | 47.4 | 48.0 | 49.0 | 49.5 | 52.0 | 51.3 | 50.8 | 50.6 | 49.9 | 49.6 |
| | 6 | 45.4 | 48.2 | 49.2 | 52.1 | 54.6 | 55.2 | 56.4 | 52.2 | 54.2 | 51.1 | 51.2 | 52.1 |
| | 7 | 41.0 | 45.8 | 49.6 | 52.7 | 54.4 | 56.0 | 59.4 | 59.9 | 60.3 | 59.7 | 57.0 | 56.7 |
| | 8 | 50.4 | 53.0 | 53.2 | 53.0 | 50.8 | 49.4 | 50.5 | 51.9 | 53.6 | 53.8 | 55.6 | 57.8 |
| | 9 | 60.8 | 61.4 | 62.4 | 67.8 | 69.0 | 69.8 | 72.0 | 75.4 | 71.4 | 69.7 | 73.8 | 72.8 |
| | 10 | 48.0 | 48.4 | 49.2 | 48.6 | 49.8 | 51.0 | 53.0 | 51.3 | 51.3 | 51.9 | 53.5 | 52.7 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 49.2 | 52.2 | 52.2 | 56.0 | 59.0 | 62.8 | 65.0 | 68.2 | 71.1 | 73.5 | 73.7 | 69.9 |
| | 13 | 50.6 | 53.6 | 55.2 | 58.4 | 59.0 | 60.2 | 61.8 | 64.1 | 64.9 | 68.5 | 64.2 | 59.7 |
| | 14 | 54.2 | 57.2 | 59.2 | 61.0 | 62.8 | 64.8 | 66.0 | 66.6 | 67.5 | 68.1 | 69.4 | 69.5 |
| | 15 | 45.6 | 47.4 | 50.4 | 52.0 | 50.6 | 53.6 | 55.0 | 57.6 | 60.8 | 59.5 | 59.8 | 59.1 |
| | 16 | 50.8 | 52.6 | 54.4 | 57.0 | 60.0 | 60.0 | 60.0 | 60.7 | 62.6 | 62.9 | 65.5 | 66.6 |
| | 17 | 51.8 | 54.6 | 57.8 | 59.4 | 62.0 | 61.8 | 63.6 | 64.9 | 64.3 | 64.0 | 68.2 | 69.0 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 50.6 | 54.0 | 55.8 | 58.4 | 61.4 | 64.0 | 66.2 | 67.3 | 69.5 | 67.3 | 65.7 | 71.3 |
| | 20 | 54.8 | 59.2 | 61.4 | 63.8 | 67.0 | 70.0 | 72.3 | 74.0 | 77.2 | 74.4 | 74.8 | 75.7 |
| | 21 | 62.4 | 64.6 | 65.3 | 67.4 | 71.0 | 73.7 | 75.5 | 76.8 | 79.5 | 80.4 | 78.9 | 77.7 |
| | 22 | 59.8 | 65.0 | 67.6 | 67.9 | 71.9 | 73.7 | 73.7 | 78.2 | 78.8 | 81.6 | 81.4 | 78.2 |
| | 23 | 64.2 | 65.0 | 66.6 | 66.6 | 68.2 | 69.8 | 73.2 | 68.5 | 70.2 | 78.8 | 78.0 | 77.3 |
| | 24 | 62.6 | 63.3 | 64.6 | 65.2 | 63.6 | 65.2 | 66.5 | 71.4 | 73.1 | 76.0 | 80.1 | 80.9 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 58.0 | 61.6 | 62.2 | 65.4 | 68.0 | 66.0 | 71.4 | 71.0 | 75.8 | 78.2 | 80.5 | 80.2 |
| | 27 | 64.0 | 67.0 | 68.2 | 70.2 | 73.0 | 76.2 | 78.4 | 80.8 | 79.2 | 80.0 | 81.5 | 80.2 |
| | 28 | 65.4 | 67.4 | 68.8 | 69.3 | 72.6 | 72.2 | 71.3 | 77.7 | 78.0 | 78.4 | 78.1 | 75.9 |
| | 29 | 64.0 | 66.4 | 68.8 | 70.0 | 72.0 | 74.6 | 74.8 | 74.5 | 74.1 | 75.3 | 79.8 | 73.8 |
| | 30 | 61.0 | 66.4 | 67.4 | 69.2 | 71.5 | 73.3 | 75.8 | 78.8 | 80.0 | 81.4 | 78.2 | 80.2 |
| Hourly Means | 53.08 | 55.87 | 57.44 | 59.19 | 60.95 | 62.30 | 63.98 | 65.01 | 66.02 | 66.73 | 67.17 | 66.55 | |

| STANDARD THERMOMETER. | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 40.5 | 39.2 | 37.8 | 37.0 | 36.6 | 35.9 | 36.7 | 37.0 | 37.5 | 35.0 | 33.2 | 32.4 | 38.61 |
| 51.7 | 45.3 | 43.7 | 41.7 | 38.5 | 37.0 | 31.0 | 31.0 | 30.2 | 30.4 | 29.8 | 30.1 | 41.00 |
| 47.8 | 43.6 | 42.4 | 42.5 | 41.2 | 39.6 | 39.5 | 39.4 | 38.6 | 38.3 | 38.9 | 38.8 | 44.38 |
| 40.5 | 40.1 | 39.3 | 38.7 | 38.2 | 38.0 | 37.9 | 37.6 | 37.0 | 36.6 | 37.0 | 37.8 | 41.01 |
| 41.2 | 40.9 | 41.7 | 42.4 | 42.5 | 42.3 | 40.5 | 39.5 | 38.4 | 38.0 | 40.5 | 41.4 | 40.64 |
| 55.4 | 51.6 | 49.8 | 42.3 | 42.1 | 41.2 | — | — | — | — | — | — | 48.74 |
| — | — | — | — | — | — | 50.0 | 47.8 | 47.6 | 47.4 | 46.2 | 45.4 | 46.85 |
| 52.7 | 50.1 | 46.4 | 43.9 | 42.5 | 40.8 | 40.2 | 39.8 | 37.8 | 37.2 | 35.0 | 33.2 | 50.19 |
| 53.4 | 51.2 | 48.3 | 47.2 | 48.8 | 48.6 | 46.9 | 46.0 | 50.2 | 49.4 | 50.2 | 50.4 | 51.09 |
| 50.4 | 48.7 | 47.7 | 47.0 | 47.1 | 47.5 | 47.4 | 46.8 | 47.2 | 46.5 | 47.4 | 47.6 | 53.59 |
| 64.6 | 58.8 | 51.9 | 48.9 | 47.3 | 45.4 | 44.5 | 44.8 | 43.8 | 45.6 | 46.8 | 47.4 | 56.88 |
| 57.6 | 56.2 | 55.4 | 53.5 | 50.6 | 51.6 | 50.8 | 50.2 | 49.7 | 48.6 | 49.5 | 49.2 | 60.78 |
| 69.8 | 63.9 | 59.0 | 59.5 | 55.6 | 55.3 | — | — | — | — | — | — | 63.10 |
| — | — | — | — | — | — | 60.9 | 61.4 | 53.9 | 53.2 | 53.7 | 56.2 | 53.23 |
| 77.5 | 69.0 | 63.5 | 59.8 | 58.7 | 57.2 | 56.6 | 56.0 | 50.3 | 50.7 | 50.7 | 51.8 | 45.96 |
| 64.7 | 56.7 | 50.2 | 46.6 | 44.4 | 42.9 | 42.0 | 40.8 | 39.8 | 38.4 | 37.5 | 36.0 | 49.02 |
| 57.5 | 52.1 | 45.9 | 42.7 | 41.5 | 39.8 | 40.2 | 39.1 | 35.8 | 32.4 | 31.2 | 32.0 | 49.63 |
| 64.8 | 54.2 | 47.2 | 43.1 | 41.7 | 43.0 | 43.2 | 43.0 | 42.7 | 41.0 | 40.7 | 42.6 | 53.25 |
| 57.8 | 51.4 | 45.8 | 43.2 | 41.3 | 39.5 | 39.2 | 39.0 | 38.5 | 35.4 | 34.8 | 35.2 | 52.50 |
| 61.7 | 55.8 | 49.0 | 46.2 | 43.8 | 41.2 | — | — | — | — | — | — | 50.81 |
| — | — | — | — | — | — | 47.8 | 45.4 | 46.6 | 46.7 | 45.8 | 46.6 | 54.47 |
| 51.8 | 50.3 | 50.5 | 50.3 | 50.8 | 50.7 | 50.1 | 48.9 | 48.8 | 48.4 | 47.4 | 48.0 | 53.71 |
| 53.3 | 53.5 | 49.2 | 45.0 | 43.6 | 43.8 | 42.6 | 41.3 | 42.9 | 42.6 | 42.3 | 42.2 | 53.33 |
| 67.2 | 59.6 | 55.0 | 51.3 | 49.8 | 48.7 | 47.6 | 46.5 | 45.1 | 44.7 | 42.4 | 41.2 | 52.97 |
| 57.5 | 54.2 | 52.2 | 51.5 | 50.3 | 50.1 | 51.7 | 53.0 | 51.0 | 52.2 | 50.4 | 49.4 | 53.60 |
| 52.4 | 53.2 | 52.5 | 53.6 | 53.9 | 54.4 | 52.0 | 50.6 | 52.0 | 53.4 | 51.2 | 54.5 | 43.02 |
| 55.4 | 54.9 | 53.9 | 51.8 | 49.4 | 44.5 | — | — | — | — | — | — | 40.52 |
| — | — | — | — | — | — | 51.7 | 50.8 | 49.2 | 48.4 | 48.0 | 48.4 | 49.73 |
| 62.2 | 59.1 | 53.3 | 53.8 | 51.9 | 49.6 | 48.0 | 46.6 | 43.7 | 43.1 | 42.7 | 40.0 | 40.32 |
| 41.2 | 41.3 | 39.8 | 38.7 | 40.1 | 39.2 | 38.5 | 37.5 | 36.3 | 36.2 | 36.5 | 36.0 | 43.79 |
| 43.2 | 42.3 | 39.6 | 39.4 | 36.9 | 36.0 | 35.6 | 36.2 | 37.2 | 37.4 | 37.6 | 37.6 | 50.28 |
| 55.33 | 51.75 | 48.56 | 46.73 | 45.52 | 44.59 | 44.93 | 44.30 | 43.40 | 42.86 | 42.50 | 42.64 | 17.47 |
| — | — | — | — | — | — | — | — | — | — | — | — | 47.54 |
| 49.4 | 45.7 | 45.1 | 39.6 | 34.0 | 33.0 | 30.8 | 30.5 | 29.4 | 29.0 | 28.8 | 30.8 | 52.02 |
| 43.0 | 42.4 | 42.2 | 41.5 | 40.9 | 41.2 | 41.5 | 41.7 | 42.2 | 42.7 | 43.2 | 44.0 | 53.92 |
| 51.7 | 50.9 | 49.1 | 49.2 | 48.7 | 47.2 | — | — | — | — | — | — | 62.97 |
| — | — | — | — | — | — | 50.5 | 50.0 | 49.2 | 48.6 | 47.8 | 47.2 | 49.73 |
| 48.8 | 48.0 | 47.5 | 46.7 | 45.4 | 44.9 | 45.1 | 44.4 | 44.0 | 44.0 | 44.1 | 44.4 | 57.44 |
| 51.4 | 49.3 | 47.9 | 46.3 | 43.7 | 43.1 | 42.9 | 42.8 | 40.0 | 37.5 | 35.8 | 38.4 | 58.73 |
| 55.6 | 54.4 | 52.1 | 51.3 | 50.5 | 50.3 | 49.5 | 48.6 | 47.2 | 46.4 | 44.6 | 45.4 | 57.93 |
| 57.2 | 55.2 | 53.4 | 52.7 | 50.7 | 49.4 | 54.4 | 58.0 | 58.3 | 57.2 | 55.5 | 59.2 | 52.97 |
| 70.7 | 68.7 | 64.6 | 59.9 | 59.0 | 56.3 | 55.7 | 55.2 | 50.6 | 49.4 | 47.8 | 47.2 | 56.82 |
| 51.7 | 50.6 | 49.6 | 49.0 | 48.5 | 47.8 | — | — | — | — | — | — | 57.27 |
| — | — | — | — | — | — | 52.4 | 48.3 | 47.7 | 48.0 | 46.3 | 44.8 | 58.85 |
| 61.9 | 56.9 | 54.7 | 53.2 | 50.4 | 50.2 | 50.7 | 50.9 | 50.0 | 49.6 | 49.0 | 48.2 | 65.92 |
| 70.1 | 66.7 | 60.2 | 59.5 | 57.2 | 56.8 | 54.6 | 53.9 | 52.8 | 53.2 | 52.3 | 52.0 | 69.26 |
| 70.0 | 66.2 | 60.8 | 58.1 | 52.7 | 49.8 | 48.1 | 47.7 | 45.1 | 44.0 | 41.5 | 40.0 | 69.76 |
| 56.2 | 54.5 | 51.9 | 50.7 | 50.7 | 51.0 | 51.2 | 51.2 | 51.1 | 51.0 | 50.5 | 50.0 | 67.80 |
| 64.7 | 60.0 | 57.6 | 56.4 | 55.7 | 53.2 | 52.2 | 51.3 | 50.6 | 49.7 | 49.5 | 49.6 | 64.93 |
| 69.5 | 66.4 | 56.5 | 54.9 | 53.7 | 53.4 | — | — | — | — | — | — | 67.81 |
| — | — | — | — | — | — | 48.5 | 48.0 | 46.8 | 45.5 | 44.6 | 45.2 | 71.68 |
| 68.3 | 64.2 | 60.7 | 56.8 | 55.5 | 54.4 | 52.2 | 50.7 | 50.2 | 49.6 | 48.7 | 49.6 | 68.56 |
| 71.5 | 69.5 | 66.5 | 66.5 | 65.7 | 62.3 | 60.3 | 59.1 | 59.4 | 59.8 | 59.0 | 58.0 | 67.88 |
| 79.2 | 75.8 | 70.2 | 69.4 | 66.9 | 64.7 | 70.7 | 61.2 | 59.4 | 58.4 | 56.6 | 56.6 | 70.80 |
| 78.9 | 75.1 | 72.7 | 71.5 | 66.2 | 64.0 | 62.2 | 62.5 | 61.1 | 60.2 | 60.4 | 61.6 | 58.94 |
| 77.6 | 73.5 | 69.0 | 64.9 | 63.9 | 62.8 | 60.4 | 59.7 | 61.9 | 61.9 | 63.4 | 61.8 | 67.81 |
| 81.2 | 77.1 | 67.2 | 61.9 | 59.7 | 57.7 | — | — | — | — | — | — | 67.88 |
| — | — | — | — | — | — | 54.0 | 53.5 | 52.8 | 52.0 | 53.9 | 54.8 | 70.80 |
| 81.4 | 75.4 | 70.8 | 64.2 | 64.6 | 64.2 | 63.7 | 62.7 | 63.7 | 59.8 | 59.4 | 59.2 | 58.94 |
| 75.4 | 74.1 | 72.7 | 69.7 | 69.0 | 65.5 | 66.7 | 67.0 | 66.8 | 65.7 | 65.0 | 64.0 | 68.56 |
| 69.1 | 68.5 | 67.1 | 64.6 | 64.2 | 63.9 | 63.5 | 62.7 | 62.1 | 61.2 | 61.5 | 62.0 | 67.88 |
| 75.7 | 74.8 | 69.2 | 66.2 | 65.8 | 63.2 | 60.7 | 58.7 | 58.5 | 56.5 | 55.5 | 56.2 | 70.80 |
| 80.4 | 73.5 | 72.2 | 69.5 | 67.5 | 66.0 | 65.4 | 65.2 | 64.4 | 64.2 | 63.8 | 63.8 | — |
| 65.79 | 62.98 | 59.67 | 57.47 | 55.80 | 54.47 | 54.15 | 53.29 | 52.51 | 51.76 | 51.10 | 51.31 | 58.94 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 67.4 | 70.8 | 72.6 | 75.2 | 76.2 | 77.5 | 80.8 | 82.7 | 84.6 | 86.4 | 86.2 | 84.7 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 50.4 | 54.4 | 56.2 | 57.2 | 57.8 | 59.9 | 62.3 | 65.1 | 62.2 | 65.8 | 68.6 | 69.2 |
| | 4 | 52.4 | 56.4 | 60.2 | 65.2 | 65.2 | 66.4 | 68.2 | 69.2 | 68.7 | 70.0 | 66.2 | 70.9 |
| | 5 | 57.8 | 59.6 | 60.8 | 62.2 | 62.6 | 63.0 | 65.6 | 67.0 | 66.5 | 68.5 | 71.5 | 74.0 |
| | 6 | 55.8 | 60.2 | 64.8 | 67.4 | 66.5 | 67.0 | 68.2 | 70.5 | 74.6 | 76.6 | 77.2 | 79.9 |
| | 7 | 56.4 | 57.4 | 59.0 | 60.4 | 67.4 | 70.2 | 69.4 | 71.2 | 72.9 | 74.7 | 76.4 | 78.2 |
| | 8 | 61.0 | 65.2 | 69.6 | 73.0 | 76.4 | 78.0 | 78.6 | 78.9 | 81.1 | 81.6 | 81.0 | 80.5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 60.6 | 64.4 | 65.9 | 67.7 | 69.9 | 70.3 | 71.0 | 74.8 | 76.1 | 72.6 | 72.4 | 68.2 |
| | 11 | 59.0 | 62.0 | 56.8 | 58.5 | 61.4 | 62.8 | 64.0 | 64.8 | 67.1 | 66.7 | 68.9 | 67.2 |
| | 12 | 47.0 | 54.8 | 57.2 | 60.8 | 64.8 | 67.2 | 69.8 | 72.4 | 74.0 | 73.0 | 74.7 | 77.2 |
| | 13 | 51.0 | 58.4 | 60.2 | 63.8 | 66.8 | 68.6 | 70.2 | 72.1 | 73.3 | 75.3 | 74.1 | 74.2 |
| | 14 | 57.2 | 61.6 | 64.8 | 68.4 | 72.6 | 74.7 | 78.4 | 81.1 | 83.2 | 80.7 | 75.9 | 74.6 |
| | 15 | 63.0 | 63.2 | 64.0 | 65.0 | 66.3 | 67.6 | 71.0 | 74.1 | 72.5 | 71.0 | 70.1 | 73.1 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 63.2 | 63.5 | 64.7 | 63.4 | 65.1 | 69.4 | 73.6 | 75.4 | 78.4 | 77.0 | 71.5 | 71.4 |
| | 18 | 66.5 | 70.0 | 71.8 | 71.4 | 72.5 | 74.6 | 77.6 | 81.0 | 83.5 | 83.6 | 84.2 | 83.8 |
| | 19 | 62.3 | 62.2 | 61.3 | 61.2 | 63.5 | 64.8 | 65.4 | 66.6 | 68.0 | 68.7 | 69.8 | 70.7 |
| | 20 | 49.3 | 53.7 | 57.6 | 59.5 | 61.4 | 62.8 | 63.8 | 65.9 | 65.6 | 68.1 | 71.1 | 74.3 |
| | 21 | 48.0 | 56.2 | 60.0 | 60.8 | 64.2 | 67.0 | 70.6 | 71.8 | 73.5 | 74.7 | 75.6 | 75.1 |
| | 22 | 57.6 | 62.6 | 64.0 | 66.0 | 68.6 | 71.2 | 75.0 | 78.5 | 80.6 | 79.7 | 79.9 | 78.1 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 64.6 | 66.0 | 69.0 | 69.8 | 70.8 | 72.5 | 73.2 | 75.5 | 76.5 | 76.4 | 77.2 | 77.5 |
| | 25 | 59.2 | 61.7 | 63.1 | 65.6 | 66.8 | 69.5 | 71.1 | 73.2 | 75.0 | 76.1 | 77.1 | 75.4 |
| | 26 | 58.6 | 63.4 | 67.0 | 70.2 | 72.0 | 76.1 | 78.4 | 76.5 | 83.6 | 79.5 | 77.8 | 72.8 |
| | 27 | 63.4 | 65.0 | 66.8 | 68.8 | 70.0 | 71.0 | 70.2 | 72.0 | 71.5 | 71.5 | 72.0 | 74.7 |
| | 28 | 60.8 | 62.0 | 65.4 | 67.5 | 70.6 | 74.0 | 78.0 | 80.1 | 80.4 | 75.2 | 74.8 | 73.6 |
| | 29 | 63.8 | 62.8 | 62.5 | 63.6 | 64.6 | 64.4 | 64.8 | 64.7 | 64.3 | 65.2 | 66.0 | 67.0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 47.4 | 57.8 | 61.3 | 64.4 | 67.5 | 66.6 | 66.7 | 66.9 | 68.1 | 69.7 | 70.3 | 72.6 |
| Hourly Means | 57.83 | 61.36 | 63.33 | 65.27 | 67.37 | 69.12 | 71.00 | 72.77 | 74.07 | 74.17 | 74.25 | 74.57 | |
| AUGUST. | 1 | 52.0 | 56.8 | 59.6 | 62.4 | 63.8 | 64.5 | 65.5 | 66.3 | 68.0 | 70.2 | 70.5 | 72.0 |
| | 2 | 48.0 | 53.0 | 59.8 | 62.4 | 64.2 | 65.4 | 67.6 | 69.8 | 71.6 | 73.4 | 76.2 | 72.1 |
| | 3 | 52.6 | 58.4 | 62.6 | 65.2 | 67.8 | 71.0 | 73.2 | 74.6 | 77.7 | 78.8 | 79.3 | 80.2 |
| | 4 | 57.6 | 62.8 | 66.6 | 70.0 | 71.4 | 74.0 | 75.0 | 76.4 | 77.0 | 77.7 | 77.3 | 78.0 |
| | 5 | 64.6 | 66.0 | 68.0 | 71.6 | 75.0 | 77.0 | 77.2 | 77.8 | 75.4 | 76.4 | 77.0 | 78.2 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 65.0 | 68.6 | 72.0 | 73.6 | 74.4 | 77.8 | 74.6 | 76.0 | 78.2 | 71.1 | 71.9 | 71.4 |
| | 8 | 63.4 | 66.0 | 67.6 | 70.0 | 71.6 | 73.6 | 72.8 | 73.8 | 74.2 | 75.0 | 75.8 | 73.4 |
| | 9 | 54.0 | 57.2 | 61.0 | 65.2 | 67.5 | 69.6 | 71.6 | 72.7 | 73.2 | 73.1 | 71.1 | 70.4 |
| | 10 | 60.0 | 64.0 | 67.4 | 70.0 | 71.8 | 73.8 | 75.6 | 77.5 | 75.3 | 75.9 | 77.1 | 72.7 |
| | 11 | 61.0 | 62.2 | 64.6 | 67.8 | 70.2 | 72.2 | 73.8 | 73.2 | 76.0 | 76.7 | 78.0 | 79.3 |
| | 12 | 60.8 | 63.0 | 69.4 | 73.2 | 76.6 | 79.2 | 78.0 | 79.3 | 79.5 | 79.8 | 81.9 | 79.4 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 68.4 | 68.8 | 68.8 | 68.0 | 69.2 | 69.2 | 73.0 | 75.5 | 79.0 | 77.0 | 80.4 | 80.9 |
| | 15 | 59.2 | 62.6 | 65.8 | 68.8 | 69.4 | 70.4 | 70.5 | 72.5 | 70.8 | 77.0 | 72.7 | 71.9 |
| | 16 | 57.0 | 61.4 | 65.6 | 68.2 | 70.4 | 73.0 | 76.0 | 78.6 | 79.6 | 80.8 | 81.4 | 81.3 |
| | 17 | 65.0 | 66.6 | 67.2 | 70.6 | 72.0 | 74.2 | 72.6 | 73.5 | 75.7 | 76.2 | 77.2 | 75.7 |
| | 18 | 61.4 | 62.6 | 63.6 | 65.0 | 67.0 | 68.6 | 70.6 | 72.3 | 72.7 | 72.3 | 72.5 | 70.3 |
| | 19 | 53.0 | 56.4 | 59.2 | 62.8 | 65.4 | 68.2 | 69.6 | 68.9 | 70.9 | 69.3 | 68.4 | 68.2 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 56.8 | 59.0 | 62.2 | 64.4 | 66.0 | 67.0 | 69.0 | 70.9 | 71.4 | 72.2 | 72.9 | 75.0 |
| | 22 | 55.0 | 57.2 | 60.8 | 65.0 | 67.2 | 69.6 | 69.6 | 70.6 | 72.4 | 72.1 | 72.8 | 70.6 |
| | 23 | 54.4 | 57.2 | 61.0 | 66.4 | 70.0 | 70.4 | 72.2 | 72.8 | 74.8 | 75.3 | 75.4 | 75.2 |
| | 24 | 49.2 | 54.7 | 61.8 | 65.2 | 68.0 | 69.8 | 71.8 | 72.9 | 74.9 | 75.1 | 76.3 | 74.9 |
| | 25 | 52.4 | 56.4 | 62.6 | 67.2 | 70.0 | 72.2 | 72.8 | 74.5 | 77.7 | 74.5 | 74.2 | 72.8 |
| | 26 | 55.6 | 61.0 | 66.0 | 69.7 | 72.4 | 74.2 | 77.3 | 80.8 | 80.7 | 81.2 | 81.4 | 79.5 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 65.8 | 66.6 | 67.6 | 69.9 | 70.4 | 72.6 | 73.3 | 74.9 | 76.6 | 77.8 | 77.4 | 77.0 |
| | 29 | 62.2 | 64.4 | 68.2 | 71.0 | 72.8 | 74.4 | 75.8 | 76.6 | 77.8 | 77.6 | 76.4 | 77.6 |
| | 30 | 59.0 | 62.4 | 66.2 | 69.8 | 74.8 | 74.2 | 77.0 | 79.5 | 80.3 | 82.3 | 83.0 | 81.5 |
| | 31 | 66.0 | 70.8 | 74.0 | 76.8 | 79.9 | 78.4 | 79.2 | 80.8 | 82.4 | 83.4 | 83.7 | 85.8 |
| Hourly Means | 58.50 | 61.71 | 65.16 | 68.16 | 70.34 | 72.02 | 73.16 | 74.56 | 75.70 | 76.01 | 76.38 | 75.75 | |

| STANDARD THERMOMETER. | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 82.7 | 79.6 | 76.0 | 73.0 | 73.5 | 73.2 | — | — | — | — | — | — | 70.66 |
| — | — | — | — | — | — | 52.4 | 51.4 | 48.6 | 46.2 | 47.0 | 47.2 | — |
| 74.8 | 71.8 | 61.6 | 56.6 | 51.9 | 50.2 | 51.9 | 49.0 | 49.0 | 49.0 | 48.8 | 49.6 | 58.05 |
| 64.4 | 66.3 | 63.4 | 62.8 | 62.0 | 61.2 | 60.6 | 60.2 | 58.8 | 58.1 | 57.4 | 57.2 | 62.98 |
| 70.5 | 67.3 | 58.6 | 55.2 | 53.5 | 55.8 | 54.2 | 52.1 | 52.2 | 52.5 | 50.8 | 51.3 | 60.55 |
| 73.7 | 68.2 | 62.5 | 60.0 | 59.0 | 58.4 | 58.8 | 60.0 | 59.0 | 59.8 | 57.3 | 55.4 | 65.03 |
| 77.5 | 73.9 | 68.8 | 66.5 | 64.4 | 61.1 | 57.8 | 54.9 | 55.2 | 53.4 | 50.7 | 56.2 | 64.75 |
| 82.2 | 75.0 | 71.4 | 66.7 | 62.9 | 58.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 58.6 | 58.6 | 58.4 | 58.0 | 56.6 | 57.8 | 69.56 |
| 66.0 | 63.6 | 59.7 | 57.4 | 55.7 | 54.3 | 53.2 | 52.4 | 51.9 | 50.8 | 50.2 | 49.6 | 62.45 |
| 64.2 | 61.4 | 55.4 | 51.2 | 48.5 | 46.0 | 44.0 | 43.9 | 43.6 | 41.0 | 40.4 | 40.6 | 55.81 |
| 76.3 | 66.9 | 57.9 | 53.2 | 51.0 | 49.3 | 50.5 | 50.7 | 49.8 | 49.7 | 50.5 | 49.2 | 60.33 |
| 73.1 | 66.7 | 62.7 | 60.6 | 60.7 | 59.6 | 57.6 | 56.8 | 56.0 | 54.8 | 54.2 | 54.0 | 63.53 |
| 73.5 | 71.2 | 69.4 | 67.6 | 65.7 | 65.0 | 65.2 | 62.7 | 62.8 | 63.5 | 63.7 | 63.8 | 69.47 |
| 73.5 | 69.9 | 67.8 | 66.6 | 66.4 | 65.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 64.7 | 64.2 | 64.1 | 63.8 | 63.3 | 63.4 | 67.26 |
| 67.5 | 69.3 | 68.8 | 68.7 | 67.5 | 66.1 | 66.6 | 66.2 | 67.0 | 65.6 | 63.7 | 63.2 | 68.20 |
| 81.9 | 77.6 | 69.7 | 71.0 | 70.6 | 66.2 | 65.5 | 64.0 | 63.2 | 62.5 | 61.0 | 61.0 | 72.28 |
| 71.0 | 65.8 | 59.4 | 56.2 | 54.8 | 53.6 | 52.8 | 51.8 | 51.4 | 50.4 | 49.0 | 45.9 | 60.27 |
| 73.5 | 69.0 | 60.4 | 55.5 | 52.8 | 49.3 | 47.5 | 46.9 | 46.2 | 45.0 | 45.5 | 42.4 | 57.80 |
| 73.0 | 71.5 | 65.2 | 59.4 | 56.0 | 55.4 | 53.8 | 57.0 | 57.0 | 56.5 | 53.5 | 52.4 | 62.84 |
| 76.2 | 73.9 | 67.6 | 63.8 | 63.0 | 60.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68.9 | 66.7 | 68.0 | 65.0 | 64.4 | 64.4 | 69.33 |
| 76.9 | 71.7 | 66.6 | 63.9 | 62.1 | 60.2 | 58.8 | 58.4 | 58.0 | 57.5 | 56.8 | 57.3 | 67.38 |
| 73.0 | 68.8 | 66.7 | 63.4 | 59.5 | 56.6 | 57.0 | 53.8 | 53.7 | 57.2 | 58.0 | 55.4 | 64.87 |
| 70.2 | 67.2 | 64.6 | 65.7 | 64.2 | 64.4 | 63.2 | 60.7 | 60.2 | 60.0 | 59.4 | 57.6 | 68.05 |
| 71.7 | 67.7 | 62.7 | 60.8 | 60.0 | 58.5 | 58.4 | 58.7 | 59.5 | 60.4 | 59.0 | 58.0 | 65.51 |
| 78.9 | 74.7 | 72.6 | 72.8 | 69.4 | 68.2 | 70.0 | 70.7 | 70.2 | 70.0 | 66.2 | 65.6 | 71.32 |
| 70.8 | 64.6 | 60.0 | 56.8 | 54.4 | 53.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 49.8 | 48.8 | 48.0 | 46.8 | 45.5 | 45.0 | 59.07 |
| 71.3 | 71.1 | 62.0 | 60.0 | 58.4 | 57.5 | 55.7 | 54.8 | 54.2 | 53.7 | 52.5 | 52.0 | 61.77 |
| 73.40 | 69.80 | 64.67 | 62.13 | 60.30 | 58.77 | 57.60 | 56.75 | 56.38 | 55.82 | 54.82 | 54.44 | 64.58 |
| 72.8 | 65.4 | 60.0 | 56.2 | 52.6 | 52.4 | 50.7 | 49.5 | 49.0 | 48.2 | 46.5 | 44.9 | 59.16 |
| 68.4 | 67.7 | 61.7 | 58.2 | 57.0 | 55.0 | 53.1 | 52.6 | 52.5 | 50.4 | 49.8 | 49.6 | 60.81 |
| 76.2 | 69.0 | 63.1 | 60.2 | 59.0 | 58.2 | 57.5 | 57.2 | 56.2 | 55.6 | 55.1 | 54.2 | 65.12 |
| 76.4 | 69.7 | 65.4 | 63.5 | 63.9 | 64.4 | 65.3 | 67.1 | 62.9 | 61.0 | 61.0 | 63.6 | 68.67 |
| 74.1 | 69.6 | 67.7 | 66.9 | 66.0 | 65.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 64.6 | 64.2 | 64.2 | 63.8 | 64.4 | 64.0 | 69.96 |
| 71.2 | 70.6 | 69.4 | 68.5 | 67.4 | 66.8 | 65.3 | 64.6 | 63.8 | 63.9 | 63.1 | 62.6 | 69.66 |
| 74.5 | 70.7 | 66.8 | 65.4 | 64.2 | 60.0 | 58.7 | 57.8 | 56.2 | 54.0 | 55.4 | 53.2 | 66.42 |
| 73.0 | 67.4 | 63.0 | 61.2 | 60.6 | 59.4 | 60.2 | 61.3 | 62.4 | 61.4 | 58.8 | 56.6 | 64.66 |
| 72.4 | 69.5 | 64.0 | 62.9 | 63.8 | 64.9 | 63.2 | 62.7 | 61.0 | 61.5 | 61.4 | 62.0 | 67.93 |
| 78.9 | 68.9 | 65.9 | 66.6 | 65.1 | 64.8 | 63.8 | 63.6 | 63.5 | 62.2 | 58.0 | 57.0 | 68.05 |
| 80.0 | 73.3 | 71.4 | 66.3 | 65.8 | 60.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 62.7 | 61.7 | 60.7 | 64.3 | 65.0 | 66.8 | 70.77 |
| 79.9 | 73.6 | 68.0 | 65.6 | 64.5 | 63.8 | 63.0 | 61.0 | 60.8 | 60.2 | 60.4 | 58.0 | 69.04 |
| 73.4 | 67.7 | 62.4 | 61.0 | 59.4 | 57.8 | 57.2 | 56.1 | 55.2 | 54.7 | 55.4 | 55.0 | 64.45 |
| 78.7 | 73.8 | 71.0 | 66.5 | 66.4 | 67.0 | 63.2 | 63.4 | 63.8 | 66.6 | 66.0 | 65.6 | 70.22 |
| 72.1 | 69.4 | 68.2 | 67.2 | 67.0 | 65.2 | 65.4 | 64.8 | 61.5 | 59.7 | 57.6 | 59.6 | 68.51 |
| 73.1 | 66.0 | 62.5 | 60.2 | 59.4 | 57.6 | 56.0 | 56.2 | 54.2 | 52.7 | 49.3 | 50.2 | 63.18 |
| 66.4 | 63.6 | 60.8 | 60.4 | 60.2 | 60.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.0 | 56.5 | 56.2 | 55.0 | 54.5 | 55.6 | 61.90 |
| 70.9 | 61.2 | 57.2 | 55.5 | 54.8 | 54.0 | 53.8 | 54.2 | 53.8 | 53.2 | 52.4 | 52.0 | 61.66 |
| 69.0 | 64.2 | 61.2 | 60.4 | 59.2 | 58.5 | 57.4 | 56.2 | 55.8 | 55.6 | 56.2 | 52.6 | 62.88 |
| 74.3 | 65.8 | 61.9 | 58.9 | 59.9 | 58.0 | 58.8 | 57.5 | 56.7 | 50.4 | 48.0 | 47.6 | 63.45 |
| 68.6 | 64.8 | 61.0 | 60.5 | 59.7 | 56.0 | 54.8 | 53.9 | 52.6 | 51.0 | 49.8 | 49.2 | 62.35 |
| 71.1 | 67.8 | 64.0 | 62.2 | 60.8 | 59.8 | 58.4 | 56.9 | 56.6 | 56.2 | 56.4 | 55.2 | 64.70 |
| 74.2 | 71.2 | 68.2 | 67.4 | 66.0 | 67.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 67.2 | 67.2 | 66.8 | 66.4 | 65.8 | 65.8 | 70.58 |
| 73.2 | 68.8 | 66.2 | 64.0 | 63.3 | 63.0 | 62.9 | 63.2 | 62.8 | 61.8 | 61.7 | 60.4 | 68.38 |
| 75.1 | 68.2 | 64.3 | 62.0 | 61.5 | 61.0 | 61.0 | 60.5 | 59.0 | 59.0 | 57.8 | 56.0 | 67.51 |
| 78.1 | 72.1 | 69.4 | 67.6 | 66.0 | 65.4 | 66.0 | 67.7 | 66.3 | 66.4 | 66.4 | 65.2 | 71.11 |
| 83.5 | 74.5 | 72.8 | 73.7 | 72.5 | 68.0 | 68.4 | 66.4 | 64.7 | 63.8 | 63.1 | 63.6 | 74.01 |
| 74.06 | 68.69 | 65.09 | 63.30 | 62.44 | 61.29 | 60.54 | 60.15 | 59.23 | 58.48 | 57.75 | 57.26 | 66.49 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | 65.6 | 68.6 | 70.2 | 70.8 | 73.1 | 76.8 | 77.2 | 78.4 | 78.2 | 74.8 | 80.0 | 78.7 |
| | 2 | 65.8 | 68.2 | 70.4 | 69.6 | 72.4 | 76.4 | 78.8 | 82.2 | 81.6 | 81.2 | 79.9 | 80.1 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 67.0 | 68.2 | 69.8 | 72.6 | 74.2 | 76.0 | 78.4 | 79.6 | 80.5 | 79.8 | 79.2 | 77.6 |
| | 5 | 61.8 | 65.0 | 62.0 | 63.6 | 65.0 | 67.6 | 69.9 | 70.7 | 70.9 | 71.5 | 72.3 | 68.6 |
| | 6 | 60.4 | 61.4 | 62.8 | 65.4 | 66.4 | 69.9 | 69.4 | 69.2 | 70.9 | 69.6 | 69.5 | 68.5 |
| | 7 | 65.0 | 65.6 | 65.0 | 68.7 | 69.2 | 70.0 | 71.2 | 72.4 | 72.5 | 72.0 | 72.4 | 70.9 |
| | 8 | 62.0 | 62.8 | 63.4 | 66.4 | 68.2 | 70.0 | 72.5 | 70.4 | 70.3 | 74.5 | 74.4 | 71.8 |
| | 9 | 47.8 | 49.4 | 51.8 | 54.8 | 57.1 | 58.3 | 59.7 | 61.3 | 62.6 | 63.5 | 62.5 | 62.2 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 41.8 | 47.6 | 52.2 | 55.0 | 56.8 | 58.6 | 60.4 | 61.9 | 62.8 | 63.5 | 64.3 | 65.1 |
| | 12 | 43.2 | 46.4 | 49.4 | 53.0 | 55.6 | 57.4 | 59.8 | 59.8 | 61.5 | 62.5 | 62.3 | 62.0 |
| | 13 | 46.2 | 51.0 | 55.2 | 57.6 | 58.0 | 58.6 | 58.4 | 59.4 | 58.8 | 59.4 | 58.2 | 58.0 |
| | 14 | 55.4 | 54.8 | 55.0 | 54.8 | 54.8 | 55.4 | 55.8 | 56.2 | 56.3 | 56.3 | 55.5 | 54.7 |
| | 15 | 58.6 | 58.4 | 58.4 | 58.8 | 60.4 | 60.0 | 61.0 | 63.6 | 66.4 | 68.7 | 71.0 | 70.0 |
| | 16 | 57.2 | 58.7 | 61.6 | 62.8 | 65.3 | 67.4 | 68.0 | 68.8 | 68.6 | 68.1 | 68.7 | 66.9 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 63.0 | 69.4 | 70.2 | 70.0 | 71.2 | 72.6 | 74.0 | 75.6 | 74.5 | 72.9 | 72.1 | 70.2 |
| | 19 | 50.0 | 54.0 | 57.6 | 60.6 | 62.2 | 63.4 | 64.8 | 65.8 | 64.2 | 64.0 | 64.1 | 62.7 |
| | 20 | 56.4 | 59.2 | 60.7 | 62.2 | 61.3 | 61.5 | 61.2 | 65.6 | 68.3 | 68.2 | 68.2 | 64.9 |
| | 21 | 61.4 | 65.0 | 68.0 | 76.8 | 80.7 | 82.6 | 84.2 | 85.3 | 86.3 | 84.9 | 77.6 | 74.6 |
| | 22 | 47.0 | 49.8 | 53.4 | 55.2 | 56.0 | 56.8 | 57.7 | 59.0 | 57.4 | 56.8 | 56.8 | 56.1 |
| | 23 | 56.8 | 57.2 | 60.2 | 62.4 | 64.6 | 64.7 | 68.0 | 72.1 | 73.0 | 73.5 | 75.7 | 75.6 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 55.0 | 54.8 | 55.0 | 55.0 | 54.8 | 56.0 | 56.4 | 57.5 | 58.0 | 57.2 | 57.5 | 56.5 |
| | 26 | 47.2 | 47.0 | 46.4 | 48.2 | 46.5 | 46.6 | 47.6 | 48.5 | 48.2 | 49.3 | 48.3 | 47.1 |
| | 27 | 37.0 | 37.8 | 37.4 | 38.4 | 42.2 | 43.4 | 46.2 | 47.9 | 49.3 | 51.6 | 51.8 | 52.5 |
| | 28 | 34.2 | 36.2 | 40.4 | 43.0 | 47.8 | 50.6 | 54.0 | 55.0 | 56.5 | 56.5 | 54.0 | 55.9 |
| | 29 | 43.2 | 44.8 | 48.6 | 51.2 | 54.8 | 57.6 | 59.8 | 59.6 | 62.4 | 63.0 | 61.5 | 61.2 |
| | 30 | 43.0 | 44.8 | 51.0 | 53.7 | 56.4 | 58.8 | 60.0 | 61.0 | 61.9 | 61.2 | 60.4 | 57.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 53.54 | 55.62 | 57.54 | 59.64 | 61.35 | 62.96 | 64.40 | 65.65 | 66.23 | 66.33 | 66.08 | 64.98 | |
| OCTOBER. | 2 | 51.4 | 52.4 | 53.8 | 56.2 | 56.9 | 57.9 | 60.2 | 60.8 | 60.3 | 59.7 | 60.1 | 58.1 |
| | 3 | 44.0 | 46.4 | 47.8 | 50.0 | 52.2 | 53.0 | 53.8 | 52.8 | 52.0 | 53.0 | 52.7 | 49.6 |
| | 4 | 43.4 | 44.4 | 46.4 | 48.6 | 50.8 | 52.8 | 48.8 | 52.0 | 51.8 | 50.0 | 52.4 | 52.4 |
| | 5 | 36.8 | 40.0 | 45.4 | 47.5 | 50.4 | 51.0 | 53.8 | 56.2 | 57.6 | 59.3 | 58.3 | 55.5 |
| | 6 | 42.8 | 47.4 | 50.6 | 55.4 | 58.7 | 59.6 | 61.8 | 63.0 | 63.4 | 61.7 | 59.2 | 59.2 |
| | 7 | 56.0 | 56.2 | 54.6 | 54.6 | 55.0 | 55.2 | 55.4 | 55.6 | 56.3 | 56.4 | 55.7 | 54.3 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 36.2 | 38.4 | 42.0 | 45.8 | 47.6 | 48.4 | 50.0 | 52.0 | 48.8 | 47.9 | 47.9 | 47.5 |
| | 10 | 38.0 | 39.8 | 43.6 | 47.0 | 46.4 | 47.8 | 48.4 | 49.2 | 51.1 | 49.5 | 49.0 | 47.2 |
| | 11 | 49.6 | 50.0 | 50.4 | 51.0 | 51.5 | 51.6 | 52.2 | 52.2 | 52.8 | 52.6 | 52.4 | 52.0 |
| | 12 | 45.4 | 40.8 | 47.0 | 49.8 | 51.8 | 52.8 | 53.0 | 50.6 | 52.0 | 50.4 | 49.2 | 48.5 |
| | 13 | 35.2 | 36.2 | 38.5 | 41.6 | 43.0 | 44.0 | 45.8 | 46.2 | 46.2 | 46.4 | 45.8 | 42.7 |
| | 14 | 31.2 | 32.4 | 34.8 | 36.8 | 38.8 | 41.4 | 41.2 | 42.2 | 42.3 | 41.5 | 42.0 | 40.9 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 38.6 | 38.8 | 39.8 | 41.0 | 43.6 | 45.0 | 47.2 | 46.8 | 46.8 | 45.5 | 45.4 | 42.5 |
| | 17 | 38.0 | 37.4 | 38.4 | 40.1 | 40.2 | 42.4 | 42.2 | 42.5 | 42.8 | 42.6 | 41.1 | 39.8 |
| | 18 | 38.0 | 38.4 | 39.8 | 41.4 | 45.0 | 46.9 | 48.7 | 48.1 | 47.6 | 48.4 | 46.3 | 45.0 |
| | 19 | 32.1 | 33.0 | 35.8 | 40.4 | 43.6 | 43.6 | 45.4 | 46.4 | 48.4 | 48.5 | 47.1 | 44.8 |
| | 20 | 41.4 | 42.6 | 45.0 | 47.8 | 49.8 | 52.0 | 53.2 | 54.8 | 56.4 | 56.9 | 57.8 | 55.4 |
| | 21 | 52.0 | 50.4 | 49.8 | 50.0 | 49.9 | 48.4 | 47.3 | 46.3 | 45.5 | 44.4 | 42.2 | 40.5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 25.0 | 26.4 | 30.7 | 33.4 | 35.9 | 36.9 | 38.6 | 39.6 | 40.5 | 40.9 | 41.1 | 38.8 |
| | 24 | 28.4 | 28.0 | 31.0 | 36.0 | 39.0 | 40.6 | 42.2 | 43.4 | 45.6 | 45.4 | 43.9 | 40.0 |
| | 25 | 37.6 | 38.4 | 39.4 | 41.8 | 45.0 | 48.0 | 47.2 | 45.2 | 45.5 | 45.4 | 39.8 | 37.8 |
| | 26 | 27.8 | 27.0 | 29.4 | 33.3 | 35.4 | 37.2 | 39.4 | 38.5 | 41.1 | 38.7 | 36.4 | 35.3 |
| | 27 | 29.0 | 28.2 | 28.4 | 29.3 | 30.8 | 32.0 | 31.8 | 31.8 | 31.9 | 32.6 | 32.9 | 32.4 |
| | 28 | 29.2 | 28.8 | 31.2 | 33.0 | 36.4 | 37.8 | 39.4 | 41.2 | 40.4 | 41.5 | 40.3 | 37.2 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 34.4 | 34.2 | 34.6 | 35.6 | 36.8 | 38.0 | 38.0 | 34.7 | 35.3 | 34.1 | 33.1 | 32.8 |
| | 31 | 27.6 | 26.8 | 29.6 | 31.8 | 34.4 | 36.0 | 37.0 | 37.6 | 39.4 | 38.7 | 37.6 | 36.0 |
| | Hourly Means | 38.04 | 38.57 | 40.22 | 43.05 | 44.95 | 46.17 | 47.00 | 47.30 | 47.76 | 47.38 | 46.53 | 44.85 |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 75.8 | 73.5 | 72.2 | 71.0 | 68.0 | 66.0 | 70.2 | 69.5 | 68.7 | 68.2 | 67.7 | 66.6 | 72.08 |
| 75.7 | 74.6 | 74.1 | 73.3 | 72.6 | 71.4 | — | — | — | — | — | — | 74.11 |
| — | — | — | — | — | — | 73.8 | 73.4 | 73.8 | 73.0 | 70.0 | 66.4 | 70.17 |
| 74.9 | 70.2 | 68.3 | 65.9 | 64.8 | 63.0 | 64.0 | 63.1 | 62.0 | 62.2 | 61.7 | 61.0 | 63.66 |
| 67.2 | 62.7 | 59.8 | 58.5 | 57.5 | 57.7 | 58.0 | 58.8 | 58.5 | 59.8 | 60.1 | 60.4 | 66.58 |
| 67.8 | 67.4 | 67.0 | 67.2 | 67.2 | 65.4 | 64.8 | 65.0 | 65.7 | 66.0 | 65.8 | 65.2 | 66.59 |
| 69.1 | 66.6 | 65.2 | 64.0 | 64.1 | 64.0 | 64.0 | 64.0 | 60.2 | 59.0 | 61.5 | 61.6 | 62.39 |
| 67.9 | 64.4 | 61.7 | 58.7 | 57.2 | 56.0 | 54.2 | 52.2 | 50.9 | 50.0 | 49.2 | 48.2 | 52.42 |
| 55.4 | 52.5 | 49.8 | 48.7 | 47.2 | 45.6 | — | — | — | — | — | — | 40.4 |
| — | — | — | — | — | — | 47.6 | 46.8 | 45.6 | 44.2 | 43.3 | 40.4 | 51.50 |
| 56.9 | 49.3 | 47.4 | 45.8 | 43.5 | 42.2 | 41.8 | 43.6 | 43.7 | 43.6 | 44.5 | 43.7 | 51.82 |
| 56.8 | 49.2 | 45.4 | 45.0 | 43.5 | 43.3 | 43.2 | 44.4 | 48.5 | 50.0 | 51.0 | 50.4 | 57.66 |
| 58.7 | 59.6 | 60.0 | 60.8 | 61.4 | 59.5 | 59.2 | 58.5 | 57.8 | 57.0 | 56.2 | 56.4 | 56.21 |
| 54.5 | 54.8 | 55.4 | 55.8 | 56.5 | 57.2 | 57.5 | 58.1 | 58.4 | 58.7 | 58.6 | 58.6 | 61.50 |
| 65.4 | 63.2 | 62.2 | 59.9 | 59.3 | 60.6 | 59.7 | 58.9 | 58.1 | 58.0 | 58.1 | 57.2 | 64.30 |
| 63.6 | 62.1 | 59.9 | 57.2 | 58.6 | 58.0 | — | — | — | — | — | — | 62.95 |
| — | — | — | — | — | — | 67.9 | 66.3 | 67.5 | 67.2 | 67.3 | 65.4 | 59.56 |
| 67.8 | 65.0 | 61.4 | 59.4 | 55.8 | 51.9 | 50.0 | 49.2 | 48.5 | 47.7 | 49.7 | 48.6 | 61.10 |
| 60.7 | 58.8 | 57.2 | 56.4 | 56.0 | 56.4 | 58.8 | 58.7 | 59.0 | 58.8 | 58.2 | 57.0 | 67.94 |
| 62.3 | 60.8 | 60.4 | 59.4 | 58.5 | 57.6 | 57.4 | 57.4 | 58.6 | 58.6 | 59.2 | 58.5 | 54.98 |
| 71.4 | 67.6 | 65.2 | 63.2 | 59.8 | 59.2 | 58.1 | 57.0 | 52.4 | 50.7 | 50.4 | 48.2 | 64.77 |
| 54.8 | 54.2 | 55.6 | 55.0 | 53.0 | 52.2 | 55.6 | 53.8 | 54.0 | 55.8 | 57.0 | 56.4 | 53.59 |
| 70.4 | 67.9 | 69.2 | 70.5 | 70.0 | 69.8 | — | — | — | — | — | — | 44.22 |
| — | — | — | — | — | — | 56.0 | 55.8 | 55.6 | 55.0 | 55.4 | 55.0 | 40.92 |
| 54.9 | 53.7 | 53.3 | 53.0 | 52.1 | 51.8 | 50.7 | 49.7 | 49.0 | 48.5 | 47.8 | 47.8 | 45.16 |
| 46.4 | 44.0 | 43.7 | 43.0 | 42.0 | 40.6 | 39.5 | 39.0 | 38.8 | 38.5 | 37.8 | 37.2 | 51.92 |
| 45.4 | 40.2 | 37.6 | 38.8 | 38.5 | 37.9 | 36.7 | 36.3 | 34.2 | 33.3 | 33.2 | 34.4 | 55.41 |
| 47.8 | 44.5 | 42.2 | 41.1 | 41.4 | 40.5 | 39.4 | 38.8 | 39.8 | 40.8 | 41.2 | 42.2 | 58.98 |
| 57.8 | 54.1 | 54.0 | 53.0 | 48.8 | 46.0 | 44.7 | 46.2 | 44.1 | 44.2 | 43.0 | 42.6 | — |
| 56.5 | 56.4 | 56.8 | 56.6 | 57.2 | 56.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.2 | 55.0 | 54.5 | 52.2 | 51.4 | 51.0 | — |
| 61.77 | 59.13 | 57.88 | 56.97 | 55.94 | 55.02 | 54.96 | 54.60 | 54.15 | 53.88 | 53.82 | 53.09 | 58.98 |
| 53.2 | 50.6 | 45.8 | 48.8 | 48.4 | 46.2 | 45.0 | 47.4 | 47.2 | 46.8 | 45.3 | 44.4 | 52.37 |
| 47.2 | 46.4 | 45.8 | 44.6 | 43.3 | 42.9 | 42.7 | 42.0 | 41.7 | 41.7 | 41.9 | 41.8 | 47.05 |
| 48.3 | 44.5 | 44.0 | 42.4 | 43.0 | 42.4 | 42.2 | 42.0 | 41.4 | 40.8 | 38.5 | 37.0 | 45.85 |
| 54.1 | 53.7 | 52.7 | 49.4 | 47.2 | 47.0 | 47.5 | 49.7 | 49.5 | 47.4 | 45.1 | 43.6 | 49.95 |
| 56.8 | 57.0 | 57.5 | 57.2 | 56.7 | 56.7 | 56.8 | 56.5 | 56.0 | 55.8 | 56.0 | 55.6 | 56.72 |
| 54.3 | 55.2 | 55.2 | 55.0 | 52.9 | 51.6 | — | — | — | — | — | — | 50.23 |
| — | — | — | — | — | — | 39.8 | 37.9 | 35.4 | 35.2 | 33.7 | 34.0 | 44.01 |
| 46.5 | 46.0 | 45.6 | 45.1 | 44.4 | 42.5 | 41.8 | 40.7 | 37.8 | 37.5 | 38.0 | 37.8 | 46.49 |
| 47.2 | 46.4 | 46.8 | 46.5 | 46.0 | 45.5 | 45.2 | 45.4 | 46.4 | 46.9 | 47.4 | 49.0 | 49.85 |
| 51.0 | 50.6 | 50.6 | 49.4 | 48.5 | 47.2 | 48.4 | 47.7 | 46.7 | 46.5 | 46.2 | 45.2 | 43.34 |
| 45.3 | 43.2 | 41.2 | 39.3 | 38.3 | 37.2 | 34.9 | 32.9 | 33.6 | 33.8 | 34.0 | 35.2 | 38.32 |
| 40.4 | 39.2 | 37.9 | 36.2 | 32.7 | 32.6 | 32.6 | 32.0 | 31.5 | 31.0 | 31.1 | 31.0 | 38.30 |
| 39.5 | 37.5 | 37.6 | 37.1 | 36.2 | 35.8 | — | — | — | — | — | — | 41.35 |
| — | — | — | — | — | — | 38.4 | 38.0 | 38.0 | 38.7 | 38.5 | 38.4 | 39.44 |
| 40.6 | 40.4 | 40.4 | 40.0 | 39.0 | 39.7 | 39.5 | 39.0 | 38.7 | 38.4 | 38.0 | 37.8 | 40.86 |
| 38.6 | 38.4 | 38.0 | 38.2 | 38.0 | 38.5 | 38.2 | 38.0 | 38.3 | 38.5 | 38.4 | 38.0 | 40.41 |
| 43.7 | 42.6 | 41.8 | 40.5 | 37.8 | 37.2 | 34.4 | 35.4 | 34.7 | 34.5 | 32.6 | 31.8 | 52.88 |
| 41.8 | 41.0 | 40.8 | 39.5 | 38.5 | 36.4 | 36.7 | 36.5 | 36.8 | 37.2 | 37.4 | 38.2 | 40.05 |
| 55.6 | 54.0 | 55.4 | 54.8 | 54.4 | 52.2 | 53.2 | 56.8 | 55.2 | 54.6 | 55.0 | 54.8 | 32.53 |
| 38.8 | 37.5 | 37.0 | 36.5 | 36.5 | 36.2 | — | — | — | — | — | — | 35.98 |
| — | — | — | — | — | — | 31.2 | 30.4 | 29.7 | 28.2 | 26.5 | 26.0 | 36.93 |
| 33.4 | 30.5 | 30.4 | 29.2 | 29.4 | 29.0 | 28.5 | 29.0 | 28.2 | 28.8 | 28.2 | 28.2 | 34.75 |
| 36.0 | 33.4 | 32.6 | 33.0 | 32.4 | 31.4 | 32.0 | 33.1 | 32.4 | 32.8 | 34.8 | 36.2 | 31.17 |
| 36.7 | 35.5 | 34.2 | 34.0 | 30.0 | 28.9 | 29.2 | 29.4 | 29.0 | 30.5 | 29.8 | 28.0 | 35.76 |
| 35.6 | 35.9 | 36.4 | 36.0 | 36.2 | 36.5 | 36.5 | 33.5 | 33.2 | 32.2 | 32.2 | 30.2 | 32.06 |
| 32.0 | 32.2 | 32.4 | 33.0 | 33.4 | 32.8 | 31.6 | 31.4 | 30.7 | 30.2 | 28.0 | 29.2 | 33.16 |
| 33.3 | 32.3 | 34.8 | 35.1 | 39.2 | 39.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 36.8 | 35.5 | 34.2 | 33.0 | 33.4 | 34.4 | — |
| 31.0 | 29.8 | 29.4 | 29.2 | 29.4 | 28.9 | 28.7 | 28.3 | 28.4 | 28.3 | 28.6 | 27.8 | — |
| 35.0 | 32.0 | 30.2 | 31.4 | 31.4 | 27.6 | 27.3 | 28.8 | 31.4 | 35.8 | 36.0 | 36.5 | — |
| 42.92 | 41.76 | 41.33 | 40.82 | 40.12 | 39.33 | 38.43 | 38.36 | 37.93 | 37.89 | 37.48 | 37.31 | 41.92 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 37.0 | 35.6 | 36.0 | 37.4 | 36.1 | 35.5 | 33.9 | 34.1 | 33.7 | 34.3 | 35.5 | 36.7 |
| | 2 | 34.8 | 35.4 | 35.8 | 37.8 | 38.8 | 39.3 | 39.5 | 39.3 | 38.1 | 37.0 | 36.4 | 35.5 |
| | 3 | 31.4 | 31.4 | 31.6 | 32.2 | 33.2 | 34.4 | 35.4 | 36.7 | 36.0 | 35.4 | 33.8 | 32.2 |
| | 4 | 26.2 | 27.0 | 27.6 | 28.6 | 30.2 | 30.0 | 29.8 | 29.8 | 29.9 | 29.9 | 29.4 | 28.7 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 19.6 | 19.2 | 23.4 | 27.0 | 29.5 | 31.6 | 33.6 | 33.8 | 34.2 | 35.2 | 33.2 | 32.4 |
| | 7 | 30.2 | 30.4 | 31.6 | 31.8 | 33.6 | 34.2 | 35.0 | 35.6 | 35.7 | 36.7 | 35.7 | 34.4 |
| | 8 | 32.6 | 32.4 | 33.0 | 33.2 | 34.2 | 35.0 | 34.6 | 35.7 | 35.6 | 34.6 | 34.0 | 33.8 |
| | 9 | 31.0 | 30.6 | 31.4 | 34.0 | 35.2 | 37.2 | 38.0 | 37.8 | 37.4 | 38.4 | 36.2 | 36.2 |
| | 10 | 33.6 | 33.8 | 34.4 | 35.0 | 36.2 | 38.6 | 40.0 | 40.0 | 40.3 | 39.7 | 39.3 | 38.9 |
| | 11 | 35.4 | 36.4 | 36.8 | 37.0 | 37.4 | 37.6 | 37.4 | 37.8 | 37.7 | 37.5 | 36.8 | 36.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 30.4 | 29.6 | 30.4 | 31.2 | 33.2 | 35.4 | 35.6 | 31.6 | 33.9 | 33.7 | 30.2 | 29.2 |
| | 14 | 21.0 | 20.8 | 20.8 | 22.2 | 23.0 | 23.8 | 25.5 | 28.6 | 28.3 | 27.5 | 25.6 | 23.5 |
| | 15 | 30.4 | 30.8 | 32.0 | 33.0 | 33.4 | 34.6 | 35.0 | 33.1 | 33.2 | 34.2 | 34.6 | 35.1 |
| | 16 | 39.4 | 39.6 | 40.4 | 40.8 | 42.0 | 43.0 | 44.4 | 48.1 | 48.7 | 46.4 | 44.8 | 43.0 |
| | 17 | 30.6 | 31.2 | 32.4 | 35.0 | 38.2 | 41.8 | 42.0 | 41.7 | 41.0 | 41.0 | 41.0 | 41.0 |
| | 18 | 42.0 | 42.4 | 42.8 | 44.0 | 45.0 | 43.5 | 43.5 | 44.8 | 44.0 | 43.0 | 41.3 | 39.8 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 28.4 | 28.8 | 32.6 | 35.2 | 37.8 | 40.2 | 42.0 | 43.6 | 41.5 | 42.7 | 40.2 | 38.0 |
| | 21 | 39.8 | 39.8 | 40.6 | 42.2 | 44.6 | 44.2 | 43.9 | 43.4 | 43.8 | 42.2 | 41.5 | 41.1 |
| | 22 | 30.6 | 31.2 | 32.0 | 33.8 | 34.8 | 35.1 | 35.6 | 35.5 | 35.3 | 35.1 | 35.3 | 35.1 |
| | 23 | 25.8 | 27.6 | 30.8 | 33.2 | 36.4 | 36.9 | 38.8 | 39.3 | 38.5 | 38.8 | 38.7 | 38.8 |
| | 24 | 46.4 | 51.6 | 49.4 | 46.2 | 45.4 | 44.6 | 45.4 | 44.2 | 44.8 | 43.8 | 42.5 | 39.8 |
| | 25 | 30.6 | 30.3 | 31.2 | 33.4 | 35.5 | 36.5 | 37.5 | 39.3 | 40.4 | 40.8 | 39.9 | 36.9 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 22.2 | 22.2 | 21.8 | 21.8 | 22.2 | 22.8 | 23.6 | 24.5 | 25.4 | 26.7 | 26.3 | 23.2 |
| | 28 | 15.4 | 15.8 | 17.4 | 21.6 | 23.6 | 25.4 | 28.2 | 28.5 | 29.5 | 30.5 | 30.9 | 29.0 |
| | 29 | 28.2 | 28.4 | 28.8 | 29.8 | 31.8 | 33.2 | 33.6 | 33.4 | 33.5 | 34.0 | 33.7 | 32.8 |
| | 30 | 24.8 | 24.0 | 23.6 | 25.0 | 26.4 | 27.5 | 28.2 | 28.2 | 27.8 | 27.5 | 27.2 | 27.2 |
| Hourly Means | 30.68 | 31.01 | 31.87 | 33.17 | 34.53 | 35.46 | 36.17 | 36.48 | 36.47 | 36.41 | 35.54 | 34.56 | |
| DECEMBER. | 1 | 28.4 | 28.4 | 28.8 | 30.0 | 31.3 | 32.5 | 33.2 | 33.6 | 33.4 | 33.3 | 32.1 | 32.0 |
| | 2 | 28.8 | 29.4 | 29.8 | 30.6 | 32.0 | 33.5 | 35.2 | 36.0 | 36.0 | 35.2 | 33.6 | 31.6 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 33.8 | 33.8 | 34.8 | 36.1 | 37.4 | 40.0 | 41.4 | 39.7 | 40.6 | 39.1 | 37.4 | 36.4 |
| | 5 | 27.5 | 26.2 | 25.3 | 24.8 | 25.2 | 23.2 | 22.8 | 22.8 | 23.7 | 23.8 | 21.1 | 19.2 |
| | 6 | 20.6 | 21.6 | 25.8 | 26.8 | 28.4 | 29.6 | 30.2 | 30.5 | 30.8 | 30.4 | 29.7 | 29.8 |
| | 7 | 27.6 | 27.4 | 28.0 | 30.2 | 31.0 | 30.4 | 31.2 | 31.4 | 31.6 | 30.5 | 30.1 | 29.7 |
| | 8 | 30.4 | 30.2 | 28.8 | 27.6 | 28.6 | 29.6 | 31.2 | 30.6 | 31.4 | 32.2 | 32.2 | 32.6 |
| | 9 | 28.6 | 29.2 | 29.2 | 29.8 | 31.0 | 31.4 | 32.2 | 32.6 | 32.6 | 32.1 | 30.9 | 29.5 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 36.0 | 36.2 | 37.4 | 37.2 | 37.0 | 37.6 | 37.3 | 36.9 | 36.9 | 36.5 | 35.5 | 34.4 |
| | 12 | 19.6 | 16.6 | 15.0 | 15.6 | 16.8 | 17.6 | 18.0 | 18.4 | 17.4 | 16.4 | 15.4 | 14.2 |
| | 13 | 4.6 | 7.0 | 11.6 | 14.0 | 19.2 | 23.8 | 25.0 | 27.1 | 28.2 | 29.7 | 28.6 | 27.6 |
| | 14 | 28.0 | 29.4 | 30.8 | 31.8 | 33.8 | 35.4 | 37.0 | 37.5 | 37.6 | 37.3 | 36.8 | 36.6 |
| | 15 | 34.2 | 35.0 | 34.6 | 35.0 | 36.4 | 37.8 | 37.8 | 36.8 | 36.8 | 34.8 | 33.8 | 33.5 |
| | 16 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.6 | 34.4 | 34.6 | 34.5 | 33.3 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 30.2 | 30.2 | 30.4 | 31.2 | 32.4 | 33.0 | 32.4 | 33.2 | 33.2 | 33.0 | 32.8 | 31.8 |
| | 19 | 28.8 | 28.6 | 29.0 | 29.8 | 32.0 | 33.4 | 33.8 | 34.1 | 34.0 | 33.7 | 32.9 | 32.4 |
| | 20 | 33.4 | 33.6 | 34.0 | 34.4 | 35.6 | 36.4 | 37.8 | 38.2 | 38.0 | 38.1 | 37.8 | 36.8 |
| | 21 | 33.8 | 33.8 | 34.0 | 34.1 | 35.0 | 36.2 | 37.2 | 37.3 | 37.8 | 38.5 | 37.8 | 35.9 |
| | 22 | 30.4 | 29.4 | 30.6 | 31.4 | 33.4 | 37.2 | 37.4 | 38.1 | 36.9 | 36.2 | 35.7 | 35.2 |
| | 23 | 33.4 | 33.6 | 33.8 | 34.0 | 34.0 | 34.2 | 34.2 | 34.3 | 34.0 | 33.9 | 34.0 | 34.4 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 35.2 | 35.2 | 35.4 | 34.8 | 35.2 | 35.8 | 36.8 | 37.3 | 37.7 | 38.0 | 38.8 | 39.1 |
| | 27 | 38.0 | 37.4 | 36.6 | 38.4 | 39.4 | 40.6 | 39.8 | 39.8 | 40.4 | 39.8 | 38.9 | 38.2 |
| | 28 | 32.4 | 32.2 | 32.4 | 33.0 | 33.6 | 35.6 | 36.6 | 37.3 | 35.3 | 35.7 | 33.9 | 32.1 |
| | 29 | 26.8 | 26.4 | 26.2 | 25.2 | 25.2 | 26.8 | 26.8 | 27.6 | 27.7 | 28.0 | 28.0 | 28.0 |
| | 30 | 27.0 | 27.0 | 27.2 | 27.8 | 28.5 | 28.8 | 29.2 | 29.0 | 29.0 | 27.5 | 27.2 | 26.3 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 29.28 | 29.29 | 29.76 | 30.32 | 31.47 | 32.59 | 33.16 | 33.38 | 33.42 | 33.13 | 32.33 | 31.61 | |

^a Christmas Day.

| STANDARD THERMOMETER. | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 37.0 | 37.2 | 37.1 | 38.1 | 38.4 | 38.5 | 37.5 | 36.9 | 35.8 | 35.7 | 35.3 | 34.8 | 36.17 |
| 34.8 | 34.2 | 33.6 | 33.2 | 33.2 | 32.3 | 32.1 | 32.2 | 32.6 | 32.4 | 32.4 | 31.6 | 35.10 |
| 31.6 | 30.5 | 30.2 | 30.4 | 30.2 | 30.0 | 29.0 | 27.2 | 26.5 | 26.4 | 26.0 | 25.8 | 31.15 |
| 28.2 | 27.8 | 27.2 | 27.1 | 27.0 | 27.1 | — | — | — | — | — | — | 26.58 |
| — | — | — | — | — | — | 22.2 | 21.8 | 21.4 | 21.3 | 19.1 | 20.6 | 30.04 |
| 31.2 | 30.6 | 31.0 | 31.2 | 31.2 | 30.8 | 30.5 | 30.6 | 30.5 | 30.4 | 30.2 | 30.0 | 33.86 |
| 34.2 | 34.7 | 34.7 | 33.5 | 34.4 | 34.6 | 33.8 | 33.9 | 33.7 | 33.7 | 33.8 | 32.8 | 33.21 |
| 33.7 | 33.5 | 33.0 | 32.9 | 32.2 | 31.9 | 32.1 | 32.3 | 31.7 | 31.7 | 31.9 | 31.4 | 35.32 |
| 36.6 | 36.7 | 36.9 | 36.0 | 36.8 | 37.1 | 35.8 | 34.1 | 33.8 | 33.6 | 33.5 | 33.4 | 36.94 |
| 38.8 | 38.8 | 38.4 | 38.2 | 36.8 | 36.0 | 35.4 | 34.6 | 34.5 | 35.1 | 34.7 | 35.4 | 34.17 |
| 35.2 | 33.5 | 33.5 | 32.7 | 31.6 | 31.0 | — | — | — | — | — | — | 28.04 |
| — | — | — | — | — | — | 29.8 | 29.8 | 29.5 | 29.7 | 29.8 | 30.0 | 25.64 |
| 28.0 | 27.0 | 26.7 | 27.0 | 25.5 | 24.5 | 23.2 | 22.6 | 21.4 | 20.9 | 20.7 | 21.0 | 35.65 |
| 22.8 | 23.4 | 26.4 | 27.3 | 26.9 | 27.2 | 27.3 | 27.7 | 28.3 | 28.5 | 28.9 | 30.0 | 38.99 |
| 35.9 | 36.9 | 37.5 | 38.1 | 38.1 | 37.8 | 37.5 | 38.0 | 38.8 | 39.2 | 39.5 | 39.0 | 39.94 |
| 44.3 | 42.9 | 40.4 | 37.8 | 33.5 | 32.0 | 31.2 | 30.4 | 30.2 | 30.2 | 31.0 | 31.3 | 38.78 |
| 41.6 | 41.8 | 42.4 | 43.2 | 42.3 | 42.0 | 41.9 | 40.3 | 40.3 | 41.7 | 42.3 | 41.8 | 38.48 |
| 38.1 | 37.2 | 37.6 | 38.1 | 37.5 | 36.3 | — | — | — | — | — | — | 38.91 |
| — | — | — | — | — | — | 33.7 | 32.5 | 31.8 | 31.4 | 31.4 | 29.0 | 31.62 |
| 39.2 | 39.2 | 40.0 | 40.1 | 39.2 | 38.9 | 38.8 | 38.5 | 38.7 | 39.6 | 40.4 | 40.0 | 39.57 |
| 40.2 | 39.3 | 39.2 | 37.9 | 37.8 | 35.6 | 35.4 | 33.5 | 33.4 | 31.8 | 31.5 | 31.2 | 39.95 |
| 35.0 | 34.0 | 32.1 | 31.5 | 29.8 | 28.2 | 28.5 | 27.3 | 26.5 | 25.7 | 25.4 | 25.4 | 31.78 |
| 39.8 | 40.2 | 40.8 | 41.5 | 42.2 | 43.2 | 45.0 | 45.6 | 45.8 | 46.1 | 48.1 | 47.8 | 20.95 |
| 38.2 | 36.9 | 36.9 | 35.8 | 34.4 | 34.4 | 34.4 | 34.0 | 34.0 | 33.6 | 32.4 | 29.8 | 26.40 |
| 35.8 | 34.2 | 32.3 | 30.2 | 29.6 | 29.2 | — | — | — | — | — | — | 30.19 |
| — | — | — | — | — | — | 23.7 | 23.4 | 23.5 | 23.2 | 22.7 | 22.5 | 27.15 |
| 20.4 | 19.3 | 19.2 | 18.5 | 18.2 | 18.0 | 18.2 | 19.0 | 18.5 | 18.0 | 16.5 | 16.2 | 33.25 |
| 28.4 | 27.9 | 27.7 | 28.2 | 27.8 | 27.8 | 28.2 | 28.5 | 28.4 | 28.4 | 28.4 | 28.2 | 31.78 |
| 32.6 | 32.0 | 30.5 | 30.2 | 29.7 | 28.5 | 28.0 | 27.9 | 27.3 | 26.2 | 25.3 | 25.2 | 20.95 |
| 27.4 | 27.4 | 27.8 | 27.0 | 26.8 | 27.0 | 28.4 | 28.4 | 28.2 | 29.2 | 28.4 | 28.2 | 26.40 |
| 34.19 | 33.73 | 33.58 | 33.30 | 32.72 | 32.30 | 31.60 | 31.19 | 30.97 | 30.91 | 30.75 | 30.48 | 30.19 |
| 31.7 | 31.4 | 31.2 | 30.6 | 30.4 | 30.0 | 30.0 | 29.9 | 29.9 | 30.1 | 29.4 | 28.8 | 30.85 |
| 29.8 | 28.6 | 27.6 | 27.3 | 27.6 | 26.6 | — | — | — | — | — | — | 31.67 |
| — | — | — | — | — | — | 33.6 | 33.6 | 33.4 | 33.4 | 33.6 | 33.4 | 35.30 |
| 35.6 | 35.2 | 35.3 | 36.2 | 35.4 | 34.7 | 33.7 | 31.4 | 31.0 | 30.4 | 29.8 | 28.1 | 20.67 |
| 20.0 | 18.2 | 16.8 | 14.2 | 16.1 | 13.5 | 16.2 | 17.2 | 18.4 | 19.0 | 20.4 | 20.4 | 28.94 |
| 30.2 | 30.9 | 30.5 | 30.8 | 31.0 | 31.2 | 30.8 | 30.4 | 29.8 | 29.0 | 28.0 | 27.8 | 30.07 |
| 29.5 | 29.3 | 29.2 | 29.4 | 29.5 | 29.8 | 30.2 | 31.2 | 30.9 | 31.3 | 31.2 | 31.0 | 30.26 |
| 32.8 | 32.4 | 31.4 | 31.5 | 31.1 | 28.6 | 26.3 | 26.0 | 30.1 | 30.3 | 30.7 | 29.6 | 30.16 |
| 27.7 | 26.9 | 24.4 | 22.9 | 22.9 | 21.5 | — | — | — | — | — | — | 32.72 |
| — | — | — | — | — | — | 33.0 | 33.6 | 33.8 | 35.2 | 37.3 | 35.6 | 12.55 |
| 34.2 | 31.2 | 31.0 | 31.7 | 31.0 | 30.5 | 29.0 | 28.1 | 27.5 | 25.8 | 24.2 | 22.2 | 24.66 |
| 13.2 | 12.3 | 12.3 | 11.2 | 9.7 | 8.9 | 9.1 | 6.0 | 4.8 | 4.2 | 4.2 | 4.4 | 35.01 |
| 27.8 | 28.3 | 28.5 | 28.8 | 29.4 | 29.5 | 29.4 | 28.7 | 28.6 | 28.8 | 27.6 | 28.0 | 34.53 |
| 36.4 | 36.6 | 36.5 | 36.1 | 36.3 | 36.1 | 35.8 | 35.4 | 35.6 | 34.7 | 34.5 | 34.2 | 32.67 |
| 33.4 | 33.3 | 33.3 | 33.1 | 33.2 | 33.5 | 33.3 | 33.6 | 33.5 | 33.8 | 34.0 | 34.4 | 30.6 |
| 32.4 | 32.1 | 31.7 | 31.0 | 30.4 | 29.8 | — | — | — | — | — | — | 30.77 |
| — | — | — | — | — | — | 31.8 | 31.2 | 31.0 | 30.8 | 30.5 | 30.6 | 31.50 |
| 31.3 | 30.5 | 30.4 | 30.0 | 30.0 | 29.8 | 28.9 | 28.8 | 28.5 | 29.0 | 28.8 | 28.8 | 35.50 |
| 31.4 | 30.7 | 30.4 | 30.8 | 30.5 | 31.2 | 31.0 | 29.2 | 30.9 | 32.2 | 32.9 | 32.4 | 34.62 |
| 36.4 | 36.0 | 36.0 | 35.8 | 35.2 | 34.5 | 34.3 | 34.1 | 34.1 | 33.9 | 33.9 | 33.8 | 34.57 |
| 35.5 | 35.1 | 34.6 | 33.1 | 34.0 | 33.3 | 33.4 | 32.8 | 31.7 | 31.4 | 32.8 | 31.8 | 34.31 |
| 35.2 | 35.6 | 35.7 | 35.5 | 35.5 | 35.0 | 34.6 | 34.4 | 34.3 | 34.2 | 33.9 | 33.8 | 35.0 |
| 34.8 | 35.2 | 34.8 | 35.2 | 35.1 | 34.8 | — | — | — | — | — | — | 37.53 |
| — | — | — | — | — | — | 33.6 | 33.4 | 33.8 | 34.9 | 35.0 | 35.0 | 36.60 |
| 39.0 | 38.7 | 38.5 | 38.4 | 38.6 | 38.8 | 38.8 | 38.5 | 37.9 | 38.2 | 38.1 | 38.0 | 31.28 |
| 37.4 | 36.5 | 35.9 | 35.2 | 34.6 | 34.0 | 33.6 | 33.0 | 33.0 | 32.8 | 32.5 | 32.6 | 27.30 |
| 30.8 | 29.7 | 29.5 | 29.6 | 28.5 | 27.8 | 27.5 | 27.7 | 27.7 | 27.9 | 27.0 | 26.8 | 26.88 |
| 28.4 | 28.2 | 28.4 | 28.1 | 27.3 | 28.4 | 28.5 | 28.0 | 27.4 | 26.8 | 26.6 | 26.4 | — |
| 26.0 | 26.2 | 26.2 | 26.6 | 26.8 | 26.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 26.7 | 26.8 | 26.1 | 25.2 | 24.0 | 23.2 | — |
| 31.24 | 30.76 | 30.40 | 30.12 | 30.00 | 29.55 | 30.12 | 29.72 | 29.75 | 29.73 | 29.64 | 29.24 | 30.83 |

| WET THERMOMETER. | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 |
| JANUARY. | 1 | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | 22.1 | 24.2 | 25.2 | — | 27.8 | 29.6 | 29.9 | 29.4 | 28.6 | 27.4 | 26.6 |
| | 3 | 10.2 | 9.0 | 9.5 | 10.2 | 10.6 | 11.8 | 12.2 | 13.6 | 13.1 | 12.8 | 11.5 |
| | 4 | 9.1 | 8.8 | 9.1 | 10.0 | 12.8 | 15.9 | 16.7 | 19.0 | 18.8 | 19.7 | 18.6 |
| | 5 | 24.0 | 23.6 | 24.2 | 28.3 | 28.2 | 31.4 | 31.4 | 31.6 | 31.4 | 31.4 | 31.4 |
| | 6 | 30.8 | 31.5 | 31.4 | 31.6 | 31.4 | 31.9 | 34.6 | 35.7 | 36.1 | 36.4 | 36.3 |
| | 7 | 38.4 | 38.3 | 38.4 | 39.8 | 40.8 | 41.1 | 40.8 | 40.5 | 40.8 | 39.1 | 38.6 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 20.4 | 19.8 | 20.6 | 22.7 | 24.6 | 25.4 | 28.2 | 28.0 | 28.6 | 28.2 | 27.7 |
| | 10 | 31.2 | 31.2 | 31.7 | 32.3 | 32.4 | 34.1 | 34.4 | 34.3 | 34.5 | 34.6 | 34.5 |
| | 11 | 27.7 | 26.1 | 26.7 | 28.6 | 28.8 | 30.2 | 30.6 | 31.2 | 30.6 | 31.2 | 30.7 |
| | 12 | 28.7 | 29.1 | 28.9 | 29.2 | 29.4 | 30.4 | 30.4 | 31.0 | 31.6 | 32.2 | 32.2 |
| | 13 | 32.3 | 32.3 | 32.3 | 32.3 | 32.6 | 32.5 | 32.5 | 32.4 | 31.3 | 26.9 | 25.2 |
| | 14 | 23.2 | 22.8 | 23.2 | 22.9 | 23.2 | 23.4 | 23.8 | 24.0 | 23.9 | 23.4 | 22.9 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 28.4 | 26.7 | 25.6 | 23.9 | 23.4 | 23.3 | 23.4 | 23.6 | 24.4 | 24.2 | 23.9 |
| | 17 | 19.6 | 19.7 | 21.0 | 23.8 | 26.9 | 27.9 | 28.2 | 28.4 | 27.8 | 27.4 | 26.5 |
| | 18 | 27.3 | 26.6 | 29.1 | 30.9 | 32.3 | 33.3 | 37.3 | 38.5 | 39.1 | 40.6 | 38.8 |
| | 19 | 33.0 | 34.2 | 33.5 | 34.5 | 34.4 | 35.6 | 36.2 | 37.9 | 38.4 | 38.3 | 38.0 |
| | 20 | 37.2 | 37.1 | 38.2 | 37.3 | 38.1 | 38.8 | 40.4 | 40.3 | 40.1 | 37.8 | 39.8 |
| | 21 | 35.4 | 34.1 | 38.5 | 39.1 | 42.2 | 45.9 | 46.2 | 45.7 | 46.9 | 46.7 | 46.5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 27.3 | 29.9 | 29.5 | 29.4 | 30.9 | 31.9 | 32.8 | 32.9 | 33.9 | 33.7 | 33.4 |
| | 24 | 32.8 | 30.3 | 29.8 | 28.1 | 27.1 | 29.2 | 30.0 | 31.0 | 29.8 | 30.1 | 29.6 |
| | 25 | 29.0 | 27.9 | 26.0 | 26.2 | 23.1 | 21.1 | 18.1 | 15.9 | 14.6 | 13.6 | 12.3 |
| | 26 | -0.1 | -0.7 | -0.5 | 0.8 | 4.1 | 8.5 | 9.9 | 12.1 | 15.5 | 14.9 | 15.6 |
| | 27 | 26.7 | 24.3 | 24.2 | 24.2 | 24.9 | 26.5 | 27.2 | 27.9 | 28.3 | 27.6 | 27.7 |
| | 28 | 23.8 | 23.8 | 22.9 | 23.3 | 24.4 | 25.7 | 27.9 | 27.5 | 27.4 | 27.8 | 27.6 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 21.2 | 18.9 | 19.5 | 25.5 | 28.1 | 29.4 | 30.0 | 31.6 | 32.1 | 32.3 | 30.0 |
| | 31 | 32.9 | 33.6 | 34.8 | 35.2 | 35.4 | 35.5 | 35.9 | 36.2 | 36.2 | 36.7 | 36.6 |
| Hourly Means | 25.86 | 25.55 | 25.91 | 26.80 | 27.61 | 28.86 | 29.58 | 30.01 | 30.07 | 29.81 | 29.33 | |
| FEBRUARY. | 1 | 14.3 | 12.9 | 13.0 | 13.5 | 13.5 | 14.7 | 14.4 | 14.6 | 15.2 | 16.5 | |
| | 2 | -3.1 | -3.1 | -2.0 | 1.6 | 4.5 | 7.1 | 8.9 | 11.1 | 14.5 | 14.7 | |
| | 3 | 21.9 | 22.0 | 21.5 | 22.3 | 22.9 | 23.3 | 23.3 | 24.5 | 24.3 | 24.2 | |
| | 4 | 16.7 | 18.3 | 20.3 | 22.4 | 23.2 | 25.8 | 30.0 | 29.5 | 28.7 | 28.6 | |
| | 5 | — | — | — | — | — | — | — | — | — | — | |
| | 6 | 10.7 | 9.3 | 8.5 | 9.3 | 9.9 | 10.8 | 12.5 | 12.3 | 10.9 | 10.4 | |
| | 7 | 5.7 | 5.6 | 5.8 | 6.3 | 7.6 | 9.3 | 10.0 | 12.5 | 13.6 | 13.3 | |
| | 8 | 8.6 | 8.9 | 8.5 | 9.9 | 11.6 | 12.5 | 15.5 | 13.7 | 13.9 | 14.5 | |
| | 9 | 4.2 | 5.6 | 7.7 | 10.3 | 12.3 | 13.9 | 15.9 | 16.0 | 17.0 | 16.5 | |
| | 10 | 15.7 | 16.3 | 16.5 | 18.3 | 19.5 | 20.5 | 21.7 | 21.8 | 22.1 | 24.2 | |
| | 11 | 30.5 | 27.5 | 20.1 | 18.5 | 17.9 | 17.6 | 18.0 | 16.7 | 16.8 | 17.7 | |
| | 12 | — | — | — | — | — | — | — | — | — | — | |
| | 13 | 9.9 | 9.6 | 9.9 | 11.8 | 12.5 | 13.9 | 16.8 | 16.9 | 15.9 | 16.6 | |
| | 14 | 8.0 | 6.4 | 7.5 | 8.6 | 6.7 | 7.1 | 10.5 | 10.3 | 10.4 | 9.9 | |
| | 15 | 3.2 | 3.4 | 5.4 | 5.5 | 8.0 | 9.6 | 12.0 | 13.3 | 14.0 | 14.4 | |
| | 16 | 3.8 | 3.9 | 2.8 | 4.5 | 7.0 | 9.2 | 10.3 | 11.6 | 12.6 | 12.4 | |
| | 17 | -12.3 | -12.3 | -7.8 | -1.4 | 3.4 | 5.7 | 8.2 | 8.9 | 9.6 | 10.0 | |
| | 18 | -11.0 | -10.6 | -8.0 | -1.7 | 2.9 | 5.8 | 9.1 | 10.6 | 10.9 | 10.1 | |
| | 19 | — | — | — | — | — | — | — | — | — | — | |
| | 20 | 2.6 | 0.6 | 5.1 | 9.9 | 14.1 | 15.7 | 18.5 | 20.0 | 21.5 | 20.8 | |
| | 21 | 10.8 | 12.7 | 15.9 | 19.1 | 22.9 | 24.9 | 24.2 | 25.7 | 25.1 | 25.2 | |
| | 22 | 17.5 | 17.4 | 17.7 | 17.8 | 18.4 | 18.4 | 17.3 | 15.9 | 16.1 | 15.9 | |
| | 23 | 1.7 | 0.5 | 4.6 | 7.3 | 9.6 | 9.6 | 14.1 | 12.7 | 15.0 | 14.1 | |
| | 24 | 6.2 | 6.6 | 7.6 | 11.1 | 14.9 | 16.5 | 18.3 | 22.1 | 24.0 | 23.0 | |
| | 25 | 21.1 | 20.9 | 21.0 | 21.5 | 23.2 | 26.0 | 28.2 | 29.4 | 31.4 | 31.3 | |
| | 26 | — | — | — | — | — | — | — | — | — | — | |
| | 27 | 18.4 | 17.7 | 17.8 | 18.6 | 19.3 | 20.9 | 22.9 | 23.8 | 23.3 | 23.0 | |
| | 28 | 18.1 | 17.7 | 18.2 | 20.0 | 19.4 | 22.9 | 25.2 | 25.1 | 24.6 | 22.9 | |
| Hourly Means | 9.30 | 9.06 | 9.90 | 11.87 | 13.55 | 15.07 | 16.91 | 17.46 | 17.97 | 17.93 | | |

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 25.4 | 24.9 | 23.9 | 22.7 | 22.6 | 23.2 | 18.3 | 17.8 | 17.4 | 14.6 | 13.0 | 12.0 | 23.16 |
| 9.4 | 8.7 | 10.0 | 11.0 | 11.5 | 11.2 | 10.5 | 10.0 | 10.0 | 10.0 | 9.4 | 9.6 | 10.68 |
| 18.2 | 18.8 | 20.4 | 19.6 | 18.1 | 18.8 | 19.0 | 19.5 | 19.9 | 21.1 | 21.9 | 23.1 | 17.34 |
| 31.6 | 31.2 | 30.0 | 27.4 | 28.3 | 24.6 | 23.4 | 22.6 | 23.1 | 23.8 | 27.0 | 29.4 | 27.93 |
| 36.5 | 36.5 | 36.8 | 37.1 | 37.2 | 37.3 | 37.1 | 37.8 | 38.3 | 37.7 | 38.1 | 38.2 | 35.53 |
| 38.3 | 34.9 | 34.6 | 33.9 | 33.4 | 33.9 | — | — | — | — | — | — | 33.86 |
| — | — | — | — | — | — | 22.4 | 22.1 | 21.8 | 21.4 | 20.4 | 20.5 | — |
| 26.2 | 27.0 | 27.2 | 26.6 | 28.8 | 29.4 | 31.0 | 31.0 | 30.6 | 30.6 | 31.0 | 31.0 | 27.13 |
| 32.8 | 32.3 | 32.2 | 32.2 | 32.5 | 32.3 | 32.2 | 31.4 | 30.7 | 30.4 | 28.5 | 27.2 | 32.22 |
| 30.4 | 30.6 | 30.4 | 30.1 | 29.9 | 29.6 | 29.4 | 29.2 | 29.2 | 29.0 | 28.9 | 28.8 | 29.52 |
| 32.3 | 32.3 | 32.3 | 32.3 | 32.5 | 32.8 | 32.8 | 32.3 | 32.5 | 32.3 | 32.3 | 32.3 | 31.43 |
| 22.8 | 22.4 | 22.4 | 21.9 | 21.1 | 20.6 | 20.6 | 21.4 | 21.8 | 22.6 | 23.2 | 23.4 | 26.26 |
| 25.2 | 25.2 | 24.7 | 24.9 | 25.4 | 25.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 24.4 | 25.6 | 27.2 | 27.6 | 28.2 | 28.8 | 24.68 |
| 23.4 | 20.8 | 20.8 | 23.6 | 24.4 | 24.6 | 23.2 | 21.0 | 20.6 | 20.7 | 20.6 | 19.6 | 23.21 |
| 26.3 | 26.6 | 26.7 | 26.9 | 27.3 | 27.4 | 28.1 | 28.2 | 28.1 | 28.6 | 29.2 | 27.8 | 26.44 |
| 31.6 | 32.0 | 32.3 | 34.4 | 33.3 | 33.8 | 34.0 | 30.4 | 31.2 | 31.4 | 33.4 | 33.0 | 33.33 |
| 39.5 | 39.3 | 39.7 | 40.6 | 38.6 | 37.3 | 37.1 | 38.5 | 39.1 | 37.1 | 39.1 | 39.8 | 37.48 |
| 39.3 | 37.3 | 37.8 | 38.2 | 38.4 | 38.5 | 38.0 | 37.7 | 37.9 | 38.5 | 37.2 | 37.2 | 38.33 |
| 43.1 | 41.6 | 40.6 | 39.1 | 38.5 | 37.8 | — | — | — | — | — | — | 38.23 |
| — | — | — | — | — | — | 27.9 | 27.9 | 28.0 | 27.3 | 26.8 | 27.4 | — |
| 32.6 | 32.8 | 33.7 | 32.4 | 32.1 | 33.0 | 34.0 | 33.9 | 34.2 | 33.9 | 33.4 | 32.4 | 32.37 |
| 27.8 | 28.3 | 28.7 | 28.5 | 29.2 | 29.6 | 28.6 | 29.6 | 29.8 | 28.7 | 28.5 | 29.2 | 29.27 |
| 9.5 | 8.6 | 8.2 | 6.1 | 5.1 | 4.5 | 3.5 | 2.9 | 2.3 | 2.2 | 0.7 | 0.2 | 12.19 |
| 17.1 | 19.5 | 20.3 | 21.1 | 24.0 | 24.2 | 22.3 | 21.0 | 22.3 | 25.4 | 24.9 | 26.6 | 15.11 |
| 27.8 | 26.7 | 26.7 | 27.5 | 28.4 | 27.3 | 25.6 | 25.4 | 25.1 | 25.2 | 24.9 | 24.4 | 26.33 |
| 19.9 | 17.8 | 19.9 | 19.8 | 20.6 | 20.9 | — | — | — | — | — | — | 21.40 |
| — | — | — | — | — | — | 11.1 | 13.3 | 15.1 | 12.2 | 14.9 | 19.9 | — |
| 30.0 | 30.7 | 30.8 | 28.7 | 29.7 | 30.9 | 31.9 | 32.4 | 32.8 | 32.8 | 32.8 | 32.8 | 29.35 |
| 33.9 | 33.4 | 32.9 | 32.8 | 30.0 | 24.0 | 20.1 | 17.8 | 17.2 | 16.7 | 16.0 | 15.4 | 29.81 |
| 28.11 | 27.70 | 27.85 | 27.67 | 27.73 | 27.44 | 25.63 | 25.41 | 25.62 | 25.45 | 25.55 | 25.77 | 27.41 |
| 12.8 | 9.7 | 5.5 | 4.0 | 3.5 | 3.8 | 2.6 | -0.1 | -0.5 | -0.8 | -1.1 | -1.9 | 8.71 |
| 14.2 | 14.6 | 17.2 | 17.7 | 18.1 | 18.4 | 18.9 | 19.5 | 19.6 | 20.5 | 20.8 | 20.6 | 12.76 |
| 23.3 | 23.3 | 23.2 | 23.1 | 22.8 | 22.3 | 21.5 | 19.5 | 15.1 | 15.7 | 16.3 | 16.9 | 21.67 |
| 25.4 | 22.7 | 24.1 | 24.3 | 23.8 | 22.7 | — | — | — | — | — | — | 22.61 |
| — | — | — | — | — | — | 19.5 | 18.7 | 17.5 | 16.5 | 14.5 | 12.7 | — |
| 4.7 | 3.9 | 3.3 | 3.3 | 3.3 | 3.1 | 3.5 | 3.9 | 3.5 | 3.9 | 4.5 | 5.3 | 6.92 |
| 10.9 | 9.1 | 10.3 | 10.5 | 9.5 | 9.3 | 9.2 | 9.0 | 8.5 | 8.3 | 8.5 | 8.4 | 9.43 |
| 12.7 | 11.8 | 11.0 | 9.3 | 8.1 | 8.0 | 5.5 | 1.5 | 3.3 | 3.9 | 4.5 | 3.7 | 9.52 |
| 15.1 | 13.4 | 12.0 | 9.5 | 8.6 | 7.5 | 7.3 | 8.5 | 9.6 | 10.7 | 13.1 | 16.1 | 11.78 |
| 28.5 | 29.8 | 30.9 | 31.8 | 32.4 | 33.4 | 35.4 | 36.8 | 36.9 | 35.8 | 33.1 | 32.8 | 26.96 |
| 14.7 | 13.1 | 12.3 | 11.5 | 11.0 | 11.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 10.1 | 9.9 | 10.1 | 10.3 | 10.5 | 10.3 | 15.43 |
| 13.7 | 13.1 | 12.1 | 11.0 | 10.6 | 10.6 | 10.3 | 9.6 | 9.6 | 9.4 | 9.5 | 7.5 | 12.12 |
| 8.5 | 7.7 | 7.0 | 6.5 | 5.0 | 4.1 | 3.6 | 3.7 | 3.5 | 3.1 | 3.1 | 3.3 | 6.83 |
| 10.1 | 8.3 | 7.0 | 5.5 | 6.9 | 5.9 | 5.8 | 5.7 | 5.1 | 4.3 | 4.5 | 4.3 | 7.87 |
| 6.6 | 4.1 | 2.5 | -0.7 | -2.5 | -5.5 | -8.9 | -8.6 | -10.7 | -10.1 | -12.4 | -12.2 | 1.62 |
| 5.7 | 5.1 | 4.7 | 2.3 | 1.7 | 0.6 | 0.0 | -0.7 | -1.7 | -2.4 | -3.2 | -7.0 | 1.39 |
| 5.3 | 5.6 | 7.1 | 6.9 | 6.6 | 6.9 | — | — | — | — | — | — | 5.88 |
| — | — | — | — | — | — | 15.2 | 14.3 | 11.0 | 11.2 | 8.1 | 3.3 | — |
| 19.2 | 17.8 | 12.8 | 9.1 | 8.7 | 7.0 | 9.1 | 10.4 | 10.8 | 10.3 | 10.0 | 9.1 | 12.67 |
| 23.2 | 23.3 | 22.1 | 20.7 | 12.7 | 10.9 | 12.5 | 13.9 | 16.5 | 17.9 | 17.7 | 16.9 | 19.30 |
| 9.6 | 7.5 | 5.7 | 3.3 | 1.4 | -0.6 | -0.6 | 1.2 | 1.4 | 0.9 | 1.5 | 4.1 | 9.84 |
| 10.1 | 5.2 | 2.9 | 2.4 | 3.0 | 3.4 | 3.2 | 3.1 | 3.5 | 3.7 | 3.9 | 5.7 | 6.95 |
| 21.7 | 21.7 | 20.9 | 20.7 | 22.0 | 20.7 | 19.9 | 19.6 | 19.9 | 19.5 | 19.8 | 19.9 | 18.45 |
| 29.8 | 29.6 | 29.4 | 29.0 | 28.7 | 28.5 | — | — | — | — | — | — | 26.42 |
| — | — | — | — | — | — | 26.2 | 25.7 | 25.5 | 24.3 | 22.4 | 20.5 | — |
| 21.5 | 22.3 | 21.8 | 20.3 | 21.8 | 21.1 | 21.5 | 18.7 | 18.6 | 18.3 | 18.3 | 18.0 | 20.62 |
| 18.7 | 17.5 | 16.4 | 15.7 | 14.5 | 14.0 | 13.7 | 13.6 | 13.0 | 12.7 | 10.6 | 11.3 | 17.83 |
| 15.25 | 14.17 | 13.43 | 12.41 | 11.76 | 11.14 | 11.04 | 10.72 | 10.40 | 10.32 | 9.94 | 9.57 | 13.07 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 11.5 | 11.8 | 12.7 | 14.2 | 15.0 | 15.3 | 16.0 | 16.6 | 16.1 | 16.0 | 15.0 | 14.8 |
| | 2 | 4.7 | 5.1 | 5.7 | 7.5 | 10.5 | 12.4 | 13.8 | 14.8 | 15.8 | 15.7 | 15.3 | 14.4 |
| | 3 | 7.7 | 8.5 | 11.0 | 13.1 | 16.3 | 18.0 | 17.3 | 17.1 | 17.6 | 16.7 | 16.5 | 16.1 |
| | 4 | 1.0 | -0.2 | 4.7 | 11.9 | 15.6 | 17.1 | 17.8 | 18.4 | 19.2 | 19.3 | 18.6 | 18.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 2.9 | 3.6 | 6.1 | 7.4 | 12.3 | 14.5 | 18.3 | — | 23.5 | 22.1 | 22.6 | 22.6 |
| | 7 | -2.5 | -2.1 | 4.9 | 13.0 | 14.6 | 16.8 | 18.0 | 19.8 | 22.8 | 23.4 | 24.2 | 23.4 |
| | 8 | 20.0 | 22.0 | 22.4 | 22.9 | 23.4 | 24.2 | 24.2 | 25.1 | 25.3 | 25.8 | 26.1 | 26.0 |
| | 9 | 17.6 | 15.6 | 18.4 | 19.6 | 21.2 | 22.9 | 25.9 | 27.9 | 26.4 | 27.0 | 26.5 | 26.4 |
| | 10 | 27.6 | 27.4 | 29.2 | 30.6 | 30.9 | 30.9 | 30.8 | 31.4 | 31.5 | 31.9 | 32.3 | 32.4 |
| | 11 | 29.6 | 28.4 | 26.6 | 25.4 | 25.9 | 26.5 | 27.2 | 27.2 | 27.4 | 27.0 | 27.1 | 28.9 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 30.2 | 30.5 | 30.9 | 31.5 | 32.3 | 32.3 | 33.8 | 35.1 | 34.1 | 34.7 | 33.3 | 32.3 |
| | 14 | 13.7 | 13.7 | 14.8 | 15.6 | 17.1 | 18.0 | 20.0 | 21.0 | 22.8 | 25.4 | 27.0 | 25.4 |
| | 15 | 23.2 | 21.8 | 20.8 | 22.2 | 25.6 | 27.2 | 27.4 | 28.4 | 25.6 | 25.8 | 23.5 | 23.0 |
| | 16 | 10.1 | 10.8 | 15.2 | 19.2 | 21.2 | 23.1 | 25.7 | 25.1 | 24.8 | 24.4 | 23.9 | 23.4 |
| | 17 | 19.8 | 20.8 | 21.7 | 23.6 | 24.7 | 25.4 | 27.6 | 28.4 | 27.9 | 27.0 | 26.8 | 24.9 |
| | 18 | 19.0 | 19.0 | 20.6 | 22.0 | 22.9 | 24.0 | 24.6 | 25.0 | 24.8 | 25.2 | 24.4 | 24.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 14.6 | 16.6 | 21.0 | 22.8 | 23.9 | 24.9 | 25.8 | 25.0 | 25.0 | 25.0 | 24.4 | 24.2 |
| | 21 | 16.6 | 16.6 | 20.4 | 20.6 | 21.4 | 21.4 | 22.4 | 23.2 | 24.4 | 25.4 | 24.9 | 24.6 |
| | 22 | 11.3 | 12.7 | 18.6 | 21.8 | 24.4 | 25.2 | 25.6 | 27.6 | 26.6 | 27.6 | 29.4 | 28.8 |
| | 23 | 8.8 | 9.0 | 9.7 | 10.4 | 12.4 | 13.4 | 13.6 | 14.2 | 15.3 | 15.6 | 13.6 | 13.6 |
| | 24 | 9.9 | 11.0 | 13.2 | 15.4 | 17.6 | 19.8 | 20.0 | 20.0 | 22.0 | 22.8 | 22.8 | 21.6 |
| | 25 | 13.8 | 15.3 | 17.8 | 19.6 | 21.4 | 23.2 | 24.4 | 25.4 | 27.8 | 25.8 | 24.4 | 22.7 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 23.6 | 23.6 | 23.8 | 25.0 | 25.2 | 25.4 | 25.6 | 26.1 | 25.9 | 26.0 | 26.6 | 26.7 |
| | 28 | 31.5 | 31.6 | 31.8 | 33.1 | 34.8 | 36.2 | 37.0 | 38.3 | 35.8 | 34.8 | 32.3 | 30.4 |
| | 29 | 18.1 | 20.6 | 23.6 | 24.1 | 25.8 | 27.3 | 29.2 | 30.4 | 30.2 | 31.8 | 30.1 | 29.4 |
| | 30 | 16.0 | 16.2 | 17.6 | 18.6 | 20.1 | 22.4 | 24.0 | 25.9 | 26.0 | 26.4 | 25.4 | 25.0 |
| | 31 | 24.9 | 25.4 | 25.9 | 26.8 | 26.8 | 27.6 | 27.8 | 28.4 | 28.4 | 27.9 | 27.4 | 26.7 |
| Hourly Means | 15.75 | 16.12 | 18.11 | 19.92 | 21.60 | 22.79 | 23.84 | 24.84 | 24.93 | 25.09 | 24.61 | 24.07 | |
| APRIL. | 1 | 19.7 | 20.8 | 23.2 | 24.2 | 27.2 | 28.2 | 26.2 | 28.9 | 29.3 | 29.1 | 29.9 | 28.2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 15.4 | 17.8 | 22.9 | 27.6 | 29.4 | 31.8 | 32.2 | 32.5 | 32.0 | 33.1 | 34.3 | 37.8 |
| | 4 | 27.0 | 28.7 | 30.7 | 31.7 | 32.0 | 32.3 | 33.1 | 32.5 | 32.2 | 32.2 | 32.4 | 32.4 |
| | 5 | 28.4 | 29.4 | 32.0 | 32.2 | 37.8 | 38.5 | 37.1 | 38.0 | 36.8 | 36.3 | 37.3 | 37.7 |
| | 6 | 28.4 | 30.4 | 31.4 | 31.9 | 32.2 | 34.6 | 36.9 | 37.0 | 35.6 | 35.6 | 37.1 | 36.9 |
| | 7 | 24.3 | 26.4 | 30.3 | 31.6 | 32.5 | 32.8 | 36.1 | 37.3 | 37.2 | 37.0 | 36.2 | 35.2 |
| | 8 | 36.8 | 38.2 | 39.4 | 39.8 | 40.4 | 40.5 | 40.2 | 39.5 | 39.6 | 39.0 | 39.5 | 38.6 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 29.2 | 28.4 | 29.6 | 30.4 | 31.5 | 32.8 | 33.2 | 34.2 | 36.0 | — | 35.0 | 35.4 |
| | 11 | 28.6 | 30.6 | 33.7 | 35.8 | 37.0 | 38.4 | 39.3 | 38.3 | 40.4 | 42.8 | 44.0 | 44.4 |
| | 12 | 27.6 | 30.8 | 32.6 | 32.6 | 40.0 | 42.4 | 44.2 | 45.3 | 45.3 | 45.5 | 47.0 | 46.3 |
| | 13 | 30.2 | 35.3 | 36.8 | 37.4 | 39.4 | 39.0 | 39.6 | 39.2 | 41.4 | 39.6 | 39.4 | 40.1 |
| | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 40.0 | 38.4 | 39.2 | 40.4 | 44.8 | 48.2 | 51.2 | 51.6 | 52.8 | 52.0 | 50.9 | 48.5 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 33.4 | 33.8 | 34.6 | 36.2 | 38.4 | 39.0 | 39.2 | 38.5 | 37.6 | 37.4 | 37.2 | 36.2 |
| | 18 | 34.2 | 34.4 | 35.0 | 33.8 | 34.0 | 34.0 | 34.0 | 33.9 | 34.3 | 35.0 | 34.9 | 34.4 |
| | 19 | 35.0 | 35.4 | 35.6 | 36.8 | 37.6 | 39.0 | 41.0 | 40.4 | 39.5 | 40.2 | 39.2 | 38.6 |
| | 20 | 38.0 | 38.6 | 39.1 | 39.8 | 40.4 | 44.0 | 44.4 | 45.4 | 45.0 | 47.8 | 48.6 | 48.5 |
| | 21 | 32.6 | 37.4 | 42.6 | 44.6 | 46.4 | 48.4 | 50.0 | 50.8 | 50.9 | 53.5 | 52.0 | 50.8 |
| | 22 | 42.6 | 45.4 | 46.0 | 47.4 | 48.2 | 48.8 | 47.6 | 46.2 | 47.8 | 47.6 | 48.6 | 48.6 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 49.2 | 48.0 | 48.2 | 47.8 | 48.0 | 48.0 | 48.6 | 50.5 | 51.1 | 51.0 | 50.4 | 49.2 |
| | 25 | 43.6 | 44.0 | 45.0 | 46.2 | 46.8 | 47.0 | 46.2 | 46.5 | 48.6 | 49.4 | 50.6 | 47.1 |
| | 26 | 41.4 | 41.4 | 43.2 | 46.2 | 50.2 | 51.4 | 52.0 | 55.7 | 56.7 | 57.5 | 54.7 | 56.0 |
| | 27 | 41.2 | 42.0 | 42.4 | 42.8 | 43.6 | 43.8 | 45.6 | 46.7 | 46.8 | 45.2 | 46.3 | 48.4 |
| | 28 | 42.6 | 43.6 | 45.2 | 49.2 | 49.0 | 50.6 | 55.2 | 56.2 | 57.8 | 56.6 | 56.8 | 56.4 |
| | 29 | 36.6 | 36.8 | 36.0 | 35.6 | 36.4 | 36.6 | 37.8 | 38.3 | 39.1 | 38.5 | 38.7 | 38.2 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 33.17 | 34.42 | 36.45 | 37.73 | 39.30 | 40.42 | 41.29 | 41.89 | 42.24 | 42.69 | 42.54 | 42.25 | |

^a Good Friday.

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 13.9 | 13.3 | 12.2 | 12.5 | 11.5 | 11.2 | 9.2 | 9.0 | 7.6 | 6.3 | 5.5 | 4.4 | 12.15 |
| 13.4 | 12.1 | 10.1 | 7.6 | 7.2 | 0.1 | 0.3 | 2.9 | 4.5 | 6.0 | 6.6 | 7.1 | 8.90 |
| 15.6 | 15.1 | 14.5 | 13.5 | 12.9 | 12.2 | 9.7 | 8.5 | 9.1 | 7.5 | 5.7 | 3.7 | 12.66 |
| 13.9 | 13.3 | 11.5 | 9.9 | 9.0 | 8.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 6.1 | 7.3 | 6.1 | 6.5 | 5.7 | 4.6 | 10.98 |
| 18.0 | 16.2 | 13.2 | 13.6 | 12.7 | 10.4 | 6.7 | 3.6 | 6.2 | 0.0 | -1.1 | — | 11.61 |
| 19.6 | 14.6 | 12.8 | 11.4 | 9.8 | 9.8 | 8.1 | 5.6 | 7.7 | 8.8 | 12.5 | 15.6 | 13.02 |
| 26.0 | 25.8 | 25.4 | 25.0 | 24.0 | 22.2 | 21.3 | 20.1 | 19.4 | 19.8 | 18.4 | 18.8 | 23.07 |
| 20.6 | 16.0 | 16.6 | 16.1 | 16.0 | 19.1 | 21.2 | 25.4 | 26.4 | 26.4 | 27.0 | 27.6 | 22.24 |
| 32.8 | 32.8 | 32.9 | 33.4 | 33.3 | 33.1 | 33.1 | 33.5 | 33.3 | 32.3 | 32.2 | 31.5 | 31.71 |
| 25.9 | 23.9 | 22.4 | 20.8 | 17.6 | 14.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 29.6 | 29.4 | 29.2 | 29.6 | 29.9 | 30.2 | 26.24 |
| 27.4 | 23.6 | 20.6 | 20.0 | 18.8 | 17.2 | 15.2 | 13.4 | 11.9 | 14.4 | 14.4 | 10.7 | 24.94 |
| 23.4 | 23.8 | 23.6 | 23.4 | 24.4 | 25.6 | 26.4 | 26.4 | 26.9 | 26.2 | 25.2 | 23.9 | 22.24 |
| 22.7 | 22.5 | 21.6 | 17.6 | 13.2 | 12.6 | 13.4 | 8.9 | 7.3 | 8.1 | 8.3 | 8.7 | 19.14 |
| 23.0 | 22.3 | 22.2 | 20.6 | 20.1 | 19.0 | 18.6 | 18.6 | 18.6 | 18.8 | 18.9 | 19.3 | 20.29 |
| 24.0 | 23.2 | 22.4 | 23.2 | 22.2 | 21.8 | 20.8 | 19.6 | 18.4 | 17.7 | 17.2 | 18.2 | 22.84 |
| 22.0 | 21.8 | 21.8 | 21.2 | 20.8 | 19.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 18.9 | 17.6 | 15.9 | 15.7 | 14.7 | 14.8 | 20.95 |
| 22.6 | 21.8 | 21.0 | 19.6 | 19.6 | 19.0 | 18.6 | 18.2 | 15.8 | 15.6 | 15.8 | 16.8 | 20.73 |
| 23.1 | 22.5 | 21.7 | 21.4 | 20.4 | 20.1 | 19.9 | 20.2 | 19.1 | 17.1 | 15.6 | 12.6 | 20.65 |
| 22.4 | 19.6 | 18.6 | 17.8 | 17.1 | 16.0 | 14.9 | 13.8 | 13.0 | 12.8 | 12.1 | 9.5 | 19.47 |
| 13.0 | 13.0 | 13.0 | 13.8 | 14.2 | 14.4 | 14.4 | 13.6 | 12.6 | 11.9 | 10.9 | 10.1 | 12.69 |
| 19.8 | 18.4 | 17.4 | 16.1 | 14.8 | 14.1 | 13.7 | 13.8 | 14.4 | 14.9 | 14.5 | 14.5 | 16.77 |
| 22.0 | 20.9 | 19.9 | 18.6 | 17.6 | 16.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 18.6 | 18.4 | 18.6 | 19.4 | 22.4 | 23.0 | 27.41 |
| 26.1 | 26.0 | 26.4 | 26.4 | 27.3 | 27.8 | 28.5 | 29.2 | 29.4 | 30.4 | 30.4 | 30.9 | 26.76 |
| 27.7 | 26.9 | 27.2 | 27.2 | 26.8 | 25.4 | 23.9 | 22.6 | 21.6 | 20.4 | 19.6 | 18.2 | 28.96 |
| 28.9 | 27.4 | 27.0 | 26.2 | 25.6 | 24.4 | 23.4 | 21.6 | 18.6 | 17.9 | 17.5 | 16.6 | 24.82 |
| 24.4 | 24.4 | 24.2 | 25.0 | 24.1 | 24.2 | 25.4 | 25.4 | 25.2 | 25.8 | 25.6 | 25.2 | 23.44 |
| 26.4 | 27.2 | 26.2 | 25.4 | 24.6 | 22.4 | 22.8 | 22.5 | 22.0 | 21.2 | 19.9 | 20.8 | 25.23 |
| 22.17 | 21.05 | 20.24 | 19.53 | 18.73 | 17.81 | 17.88 | 17.39 | 16.99 | 16.72 | 16.50 | 16.82 | 20.14 |
| 24.9 | 24.2 | 23.8 | 23.5 | 22.8 | 21.7 | — | — | — | — | — | — | 23.32 |
| — | — | — | — | — | — | 19.6 | 17.6 | 18.0 | 17.0 | 17.0 | 14.6 | — |
| 33.5 | 29.8 | 27.2 | 24.6 | 24.4 | 24.6 | 23.4 | 22.4 | 24.2 | 24.6 | 26.0 | 25.5 | 27.38 |
| 32.4 | 32.4 | 32.4 | 32.5 | 32.5 | 32.9 | 32.7 | 31.5 | 30.9 | 28.9 | 26.6 | 27.2 | 31.26 |
| 34.1 | 33.9 | 33.6 | 33.1 | 31.4 | 31.9 | 32.0 | 32.2 | 31.9 | 31.2 | 29.4 | 28.2 | 33.52 |
| 35.0 | 33.4 | 32.0 | 31.5 | 28.5 | 28.8 | 28.5 | 28.4 | 27.7 | 27.6 | 26.7 | 25.2 | 31.72 |
| 34.4 | 33.6 | 33.5 | 33.6 | 32.8 | 33.0 | 33.4 | 33.0 | 33.0 | 32.8 | 35.2 | 36.6 | 33.41 |
| 38.0 | 37.0 | 36.2 | 35.6 | 35.2 | 35.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 31.0 | 30.0 | 29.2 | 29.2 | 29.2 | 29.2 | 36.10 |
| 35.2 | 32.4 | 31.6 | 31.2 | 30.1 | 30.0 | 29.2 | 28.5 | 28.1 | 27.2 | 28.7 | 28.3 | 30.27 |
| 42.6 | 38.8 | 35.8 | 33.9 | 33.7 | 33.3 | 32.9 | 29.5 | 28.0 | 28.5 | 26.5 | 26.4 | 35.13 |
| 40.3 | 36.3 | 34.0 | 32.8 | 32.2 | 31.4 | 30.8 | 30.6 | 31.8 | 31.2 | 30.6 | 28.8 | 36.42 |
| 38.8 | 38.5 | 37.8 | 36.2 | 35.4 | 34.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.4 | 43.4 | 42.8 | 41.7 | 40.8 | 39.2 | 38.77 |
| 48.5 | 47.4 | 46.0 | 42.7 | 40.9 | 39.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.2 | 33.6 | 33.0 | 32.9 | 33.2 | 32.6 | 42.59 |
| 36.7 | 36.0 | 36.3 | 35.2 | 35.0 | 34.3 | 34.6 | 34.8 | 34.4 | 34.2 | 34.8 | 34.4 | 35.92 |
| 34.8 | 34.8 | 35.2 | 35.6 | 35.2 | 35.2 | 35.1 | 34.8 | 34.8 | 34.8 | 34.8 | 35.0 | 34.67 |
| 38.0 | 37.9 | 37.9 | 38.2 | 38.3 | 38.0 | 37.2 | 36.0 | 37.2 | 37.5 | 37.8 | 37.6 | 37.91 |
| 47.6 | 40.2 | 39.8 | 38.2 | 36.0 | 35.4 | 34.6 | 33.5 | 34.5 | 34.6 | 32.4 | 31.0 | 39.89 |
| 47.8 | 45.8 | 44.0 | 43.2 | 42.6 | 42.5 | 43.6 | 41.9 | 42.1 | 41.9 | 41.7 | 41.2 | 44.93 |
| 42.5 | 41.5 | 43.9 | 43.9 | 46.1 | 45.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 51.2 | 50.8 | 51.8 | 52.2 | 51.8 | 50.2 | 47.35 |
| 48.2 | 47.4 | 45.0 | 44.8 | 44.6 | 43.2 | 43.2 | 43.0 | 42.5 | 42.6 | 42.9 | 42.7 | 46.67 |
| 43.6 | 43.2 | 43.7 | 43.8 | 43.2 | 44.1 | 43.7 | 43.5 | 42.8 | 42.5 | 43.5 | 42.4 | 45.04 |
| 58.0 | 54.0 | 51.1 | 49.5 | 48.2 | 47.1 | 45.6 | 45.4 | 42.1 | 40.0 | 40.6 | 41.0 | 48.71 |
| 47.4 | 43.5 | 43.0 | 44.2 | 42.8 | 41.8 | 42.1 | 42.0 | 39.2 | 38.1 | 37.9 | 41.2 | 43.25 |
| 55.4 | 51.2 | 49.8 | 47.9 | 46.5 | 45.1 | 44.2 | 42.5 | 41.2 | 39.6 | 39.5 | 37.8 | 48.33 |
| 36.6 | 35.0 | 34.5 | 33.8 | 33.1 | 32.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.0 | 37.7 | 38.1 | 36.5 | 34.5 | 33.8 | 36.30 |
| 40.60 | 38.67 | 37.84 | 37.06 | 36.31 | 35.85 | 36.01 | 35.28 | 34.97 | 34.47 | 34.25 | 33.75 | 37.89 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MAY. | 1 | 34.8 | 36.2 | 37.4 | 36.4 | 36.6 | 35.6 | 37.4 | 37.5 | 36.3 | 36.8 | 36.2 | 35.7 |
| | 2 | 33.0 | 34.0 | 35.8 | 38.4 | 39.2 | 40.7 | 42.0 | 43.1 | 42.2 | 42.5 | 44.8 | 47.0 |
| | 3 | 31.6 | 32.8 | 38.4 | 41.2 | 42.5 | 44.8 | 44.6 | 47.5 | 44.8 | 46.3 | 42.6 | 44.0 |
| | 4 | 38.4 | 38.8 | 41.8 | 40.8 | 40.0 | 39.8 | 40.2 | 40.4 | 41.0 | 40.5 | 39.4 | 37.4 |
| | 5 | 36.4 | 35.8 | 35.8 | 36.4 | 36.4 | 35.4 | 33.8 | 33.1 | 34.2 | 35.5 | 37.3 | 36.0 |
| | 6 | 37.6 | 38.6 | 41.6 | 42.4 | 43.8 | 46.6 | 48.4 | 49.4 | 50.4 | 50.0 | 50.5 | 50.8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 42.2 | 42.8 | 44.0 | 44.2 | 46.0 | 46.2 | 47.2 | 47.6 | 46.7 | 46.8 | 47.5 | 47.6 |
| | 9 | 36.4 | 40.4 | 44.2 | 45.0 | 47.0 | 47.8 | 49.2 | 48.5 | 50.9 | 52.8 | 51.8 | 51.2 |
| | 10 | 46.8 | 47.6 | 48.6 | 48.6 | 48.2 | 48.6 | 49.2 | 49.8 | 51.4 | 50.2 | 49.7 | 49.2 |
| | 11 | 46.6 | 48.2 | 48.0 | 49.0 | 50.6 | 51.8 | 52.6 | 54.1 | 54.1 | 53.7 | 54.9 | 54.7 |
| | 12 | 45.4 | 48.8 | 51.8 | 50.6 | 51.0 | 52.9 | 54.6 | 56.9 | 57.5 | 58.6 | 57.8 | 55.5 |
| | 13 | 48.2 | 49.8 | 53.0 | 55.0 | 57.0 | 59.2 | 60.8 | 61.8 | 63.8 | 63.2 | 62.2 | 62.8 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 56.8 | 58.8 | 59.6 | 61.2 | 61.8 | 63.0 | 59.0 | 64.6 | 57.4 | 61.3 | 64.9 | 62.3 |
| | 16 | 47.4 | 47.2 | 48.0 | 48.6 | 49.0 | 50.6 | 50.0 | 51.4 | 51.6 | 51.8 | 51.9 | 51.6 |
| | 17 | 35.5 | 37.0 | 38.6 | 40.4 | 43.0 | 43.6 | 44.4 | 49.3 | 48.4 | 46.9 | 49.7 | 51.5 |
| | 18 | 35.4 | 39.0 | 43.6 | 42.4 | 43.0 | 44.0 | 46.8 | 47.4 | 48.8 | 49.4 | 48.8 | 52.2 |
| | 19 | 40.0 | 41.2 | 44.4 | 46.0 | 48.5 | 48.2 | 48.6 | 49.5 | 51.1 | 48.5 | 50.8 | 49.2 |
| | 20 | 38.4 | 43.6 | 48.4 | 47.8 | 48.6 | 49.2 | 50.0 | 51.5 | 53.1 | 53.9 | 54.6 | 55.0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 47.6 | 51.0 | 52.0 | 51.0 | 52.4 | 54.0 | 54.0 | 54.6 | 54.5 | 54.0 | 53.2 | 53.5 |
| | 23 | 49.4 | 51.8 | 53.2 | 53.0 | 56.0 | 56.8 | 53.4 | 53.0 | 54.9 | 53.3 | 51.1 | 47.7 |
| | 24 | 39.2 | 42.0 | 45.2 | 47.4 | 49.0 | 50.0 | 53.0 | 52.2 | 53.4 | 55.0 | 54.4 | 55.4 |
| | 25 | 42.6 | 44.6 | 46.0 | 47.2 | 48.0 | 49.6 | 51.0 | 50.8 | 53.0 | 54.4 | 54.8 | 53.2 |
| | 26 | 47.4 | 48.2 | 48.6 | 50.0 | 49.4 | 51.6 | 55.0 | 55.7 | 55.2 | 54.2 | 53.1 | 53.1 |
| | 27 | 49.8 | 49.7 | 49.4 | 50.8 | 51.1 | 50.5 | 50.5 | 50.6 | 50.1 | 49.9 | 49.5 | 49.6 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 44.4 | 46.0 | 46.8 | 48.8 | 50.8 | 52.0 | 50.7 | 53.1 | 52.6 | 54.8 | 55.6 | 56.2 |
| | 30 | 43.0 | 45.2 | 48.6 | 49.0 | 47.6 | 47.8 | 43.6 | 44.4 | 41.9 | 40.8 | 39.2 | 40.0 |
| | 31 | 37.2 | 37.2 | 37.6 | 37.2 | 37.9 | 37.4 | 38.2 | 37.6 | 39.2 | 39.3 | 37.0 | 37.6 |
| Hourly Means | 41.91 | 43.57 | 45.57 | 46.25 | 47.20 | 48.06 | 48.45 | 49.46 | 49.57 | 49.79 | 49.75 | 49.63 | |
| JUNE. | 1 | 35.4 | 36.0 | 37.4 | 35.6 | 38.1 | 38.3 | 38.7 | 39.2 | 40.6 | 41.2 | 42.1 | 41.2 |
| | 2 | 33.8 | 39.2 | 41.2 | 42.4 | 43.6 | 45.0 | 45.8 | 43.9 | 44.0 | 42.4 | 43.0 | 41.2 |
| | 3 | 45.6 | 49.0 | 49.6 | 49.8 | 48.4 | 49.2 | 48.8 | 47.6 | 47.5 | 48.1 | 47.8 | 48.0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 46.4 | 46.6 | 47.0 | 47.4 | 47.8 | 49.0 | 51.0 | 49.6 | 49.5 | 49.6 | 48.9 | 48.5 |
| | 6 | 44.0 | 45.0 | 45.8 | 48.4 | 49.2 | 51.0 | 52.0 | 47.2 | 49.2 | 48.2 | 49.6 | 50.2 |
| | 7 | 39.6 | 43.6 | 45.6 | 49.8 | 50.4 | 50.2 | 53.0 | 53.2 | 53.0 | 52.9 | 50.6 | 51.7 |
| | 8 | 45.4 | 47.4 | 48.4 | 48.4 | 48.2 | 47.6 | 48.5 | 50.2 | 51.2 | 51.8 | 53.8 | 55.8 |
| | 9 | 60.8 | 61.4 | 62.0 | 66.6 | 67.0 | 68.2 | 69.8 | 72.2 | 68.4 | 68.0 | 70.8 | 68.5 |
| | 10 | 44.6 | 45.6 | 47.0 | 46.4 | 47.6 | 48.4 | 50.0 | 49.1 | 49.1 | 50.0 | 48.4 | 49.2 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 48.0 | 50.2 | 50.2 | 53.2 | 55.6 | 58.8 | 61.0 | 63.3 | 64.0 | 65.1 | 64.7 | 63.5 |
| | 13 | 49.4 | 51.6 | 53.0 | 55.6 | 56.2 | 57.0 | 57.8 | 59.6 | 60.2 | 62.7 | 60.0 | 57.7 |
| | 14 | 52.0 | 54.0 | 55.0 | 56.0 | 55.8 | 57.0 | 56.4 | 55.1 | 54.6 | 54.5 | 55.0 | 55.0 |
| | 15 | 42.8 | 44.2 | 45.6 | 48.8 | 48.6 | 50.0 | 50.6 | 52.8 | 55.4 | 54.0 | 53.6 | 53.7 |
| | 16 | 48.4 | 49.6 | 51.0 | 53.2 | 56.0 | 56.2 | 56.6 | 56.7 | 57.8 | 58.1 | 60.5 | 61.2 |
| | 17 | 49.2 | 51.4 | 53.4 | 53.4 | 55.0 | 57.4 | 58.2 | 59.9 | 59.0 | 59.0 | 60.2 | 60.8 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 48.0 | 50.6 | 52.0 | 54.2 | 57.2 | 59.0 | 60.0 | 60.3 | 62.7 | 59.7 | 58.4 | 62.5 |
| | 20 | 53.6 | 57.0 | 58.2 | 60.2 | 62.6 | 65.0 | 67.2 | 68.4 | 69.9 | 67.7 | 67.4 | 66.8 |
| | 21 | 60.6 | 62.6 | 62.4 | 63.6 | 67.0 | 68.8 | 70.2 | 71.5 | 72.8 | 73.8 | 72.2 | 69.7 |
| | 22 | 59.0 | 62.1 | 64.5 | 64.5 | 67.3 | 68.4 | 68.4 | 71.2 | 71.5 | 71.8 | 70.6 | 69.4 |
| | 23 | 61.8 | 62.4 | 64.2 | 64.0 | 65.4 | 67.0 | 69.6 | 65.4 | 66.8 | 72.9 | 72.1 | 68.6 |
| | 24 | 61.6 | 62.6 | 64.2 | 64.4 | 63.2 | 64.2 | 65.4 | 67.5 | 68.6 | 72.0 | 65.9 | 66.7 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 56.6 | 59.8 | 60.6 | 63.4 | 65.2 | 63.4 | 68.0 | 67.4 | 70.7 | 72.5 | 73.1 | 71.5 |
| | 27 | 63.0 | 64.8 | 65.8 | 67.4 | 69.8 | 72.6 | 74.2 | 74.6 | 72.3 | 71.3 | 71.6 | 70.2 |
| | 28 | 64.0 | 66.4 | 67.6 | 68.0 | 70.6 | 70.0 | 69.0 | 73.4 | 72.9 | 73.1 | 71.9 | 70.0 |
| | 29 | 63.6 | 65.6 | 67.6 | 68.2 | 70.0 | 71.6 | 72.2 | 71.0 | 70.8 | 69.8 | 71.2 | 69.0 |
| | 30 | 60.6 | 65.0 | 65.4 | 66.4 | 68.0 | 69.3 | 70.1 | 72.5 | 72.6 | 73.5 | 71.6 | 73.0 |
| Hourly Means | 51.45 | 53.60 | 54.80 | 56.13 | 57.45 | 58.56 | 59.71 | 60.11 | 60.58 | 60.91 | 60.58 | 60.14 | |

WET THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 35.8 | 35.0 | 34.5 | 33.6 | 33.3 | 33.0 | 33.2 | 33.2 | 33.8 | 32.2 | 31.2 | 30.8 | 34.85 |
| 44.8 | 40.4 | 38.7 | 37.7 | 35.3 | 34.2 | 30.2 | 30.4 | 29.6 | 29.6 | 29.2 | 29.8 | 37.19 |
| 42.4 | 39.5 | 38.5 | 38.8 | 38.4 | 37.6 | 37.2 | 37.4 | 37.2 | 36.7 | 37.2 | 37.6 | 39.98 |
| 35.4 | 33.6 | 33.2 | 33.0 | 33.2 | 33.0 | 32.9 | 33.0 | 32.5 | 32.4 | 32.5 | 32.6 | 36.49 |
| 35.7 | 35.2 | 36.0 | 36.5 | 36.5 | 36.3 | 36.2 | 36.0 | 35.4 | 33.8 | 35.4 | 37.2 | 35.68 |
| 50.4 | 47.8 | 47.2 | 40.8 | 40.9 | 40.1 | — | — | — | — | — | — | 44.70 |
| — | — | — | — | — | — | 44.0 | 42.6 | 42.5 | 42.4 | 41.8 | 42.2 | 42.43 |
| 47.2 | 45.4 | 43.4 | 41.3 | 40.8 | 38.2 | 38.0 | 37.2 | 36.2 | 35.0 | 34.1 | 32.6 | 46.10 |
| 47.2 | 46.8 | 45.5 | 44.2 | 44.3 | 44.2 | 43.3 | 43.0 | 45.6 | 45.0 | 46.0 | 46.2 | 47.37 |
| 44.7 | 45.2 | 45.7 | 45.8 | 46.3 | 46.5 | 46.5 | 46.2 | 46.0 | 45.5 | 45.2 | 45.4 | 48.41 |
| 53.8 | 50.8 | 47.7 | 45.3 | 44.2 | 43.2 | 42.8 | 42.7 | 42.3 | 43.2 | 43.5 | 44.0 | 50.49 |
| 51.2 | 49.0 | 48.8 | 49.2 | 46.4 | 46.8 | 46.7 | 46.6 | 46.1 | 45.8 | 46.8 | 47.0 | 56.86 |
| 62.2 | 59.5 | 56.2 | 56.0 | 53.7 | 53.2 | — | — | — | — | — | — | 55.2 |
| — | — | — | — | — | — | 57.6 | 58.4 | 51.9 | 51.7 | 52.2 | 55.2 | 55.92 |
| 61.4 | 57.5 | 54.8 | 52.2 | 50.7 | 49.3 | 49.4 | 49.5 | 46.4 | 46.9 | 46.5 | 46.8 | 44.53 |
| 51.1 | 46.6 | 42.3 | 40.1 | 38.6 | 37.9 | 37.4 | 36.7 | 36.2 | 35.0 | 34.2 | 33.5 | 40.07 |
| 46.3 | 41.9 | 39.2 | 37.2 | 36.3 | 35.0 | 35.2 | 35.2 | 34.6 | 31.2 | 30.9 | 30.4 | 42.84 |
| 52.1 | 45.2 | 41.4 | 38.8 | 37.7 | 38.7 | 38.9 | 39.0 | 39.1 | 38.8 | 39.0 | 38.6 | 42.29 |
| 46.3 | 42.2 | 41.2 | 39.7 | 37.5 | 36.6 | 36.1 | 35.4 | 35.0 | 33.0 | 32.8 | 33.2 | 46.71 |
| 50.8 | 48.4 | 44.5 | 42.0 | 40.7 | 38.2 | — | — | — | — | — | — | 50.76 |
| — | — | — | — | — | — | 43.7 | 42.4 | 43.7 | 44.1 | 43.0 | 45.4 | 46.88 |
| 50.5 | 49.2 | 49.4 | 49.4 | 49.9 | 49.6 | 49.4 | 48.5 | 48.2 | 48.0 | 46.9 | 47.4 | 46.85 |
| 46.6 | 47.1 | 44.7 | 42.4 | 41.0 | 40.5 | 39.6 | 38.4 | 38.3 | 37.9 | 37.5 | 37.4 | 48.96 |
| 53.6 | 49.2 | 45.5 | 44.7 | 43.6 | 43.2 | 42.8 | 43.0 | 41.6 | 41.4 | 40.1 | 39.6 | 51.93 |
| 51.5 | 49.8 | 49.0 | 47.7 | 46.5 | 46.6 | 48.1 | 49.4 | 48.2 | 48.4 | 47.5 | 47.2 | 47.67 |
| 51.8 | 52.5 | 51.9 | 53.1 | 53.4 | 54.2 | 51.6 | 50.0 | 51.4 | 52.4 | 50.2 | 52.4 | 47.60 |
| 49.8 | 49.5 | 47.6 | 46.9 | 45.6 | 42.4 | — | — | — | — | — | — | 40.45 |
| — | — | — | — | — | — | 44.8 | 44.0 | 43.5 | 42.8 | 42.5 | 43.2 | 35.87 |
| 53.9 | 51.6 | 46.4 | 45.2 | 44.6 | 43.6 | 43.0 | 42.3 | 41.6 | 40.3 | 39.8 | 38.4 | 47.90 |
| 39.8 | 40.0 | 39.1 | 38.1 | 36.9 | 36.5 | 36.0 | 35.2 | 34.4 | 34.5 | 34.7 | 34.4 | 40.45 |
| 36.9 | 36.8 | 34.7 | 34.1 | 32.8 | 32.4 | 32.4 | 32.8 | 33.5 | 33.6 | 33.8 | 33.6 | 35.87 |
| 47.90 | 45.77 | 43.97 | 42.73 | 41.82 | 41.15 | 41.37 | 41.06 | 40.56 | 40.06 | 39.80 | 40.08 | 44.81 |
| 45.7 | 42.5 | 39.2 | 36.6 | 32.8 | 31.9 | 30.0 | 29.4 | 28.5 | 28.3 | 27.7 | 30.0 | 36.10 |
| 40.8 | 40.5 | 40.5 | 40.5 | 40.2 | 40.4 | 40.8 | 41.1 | 41.7 | 42.2 | 42.8 | 43.4 | 41.68 |
| 47.9 | 47.8 | 47.5 | 47.6 | 47.4 | 45.6 | — | — | — | — | — | — | 48.00 |
| — | — | — | — | — | — | 50.1 | 49.3 | 48.2 | 47.5 | 47.2 | 46.6 | 46.35 |
| 47.4 | 46.5 | 45.8 | 45.9 | 44.5 | 43.6 | 43.2 | 43.0 | 42.5 | 42.7 | 42.9 | 43.0 | 45.23 |
| 49.3 | 47.2 | 45.9 | 45.2 | 43.0 | 42.4 | 41.8 | 41.5 | 39.5 | 37.2 | 35.4 | 37.4 | 47.60 |
| 51.2 | 50.2 | 47.2 | 47.6 | 47.5 | 46.0 | 45.5 | 43.6 | 42.8 | 42.2 | 41.8 | 43.2 | 52.15 |
| 55.5 | 54.6 | 53.0 | 52.3 | 50.2 | 48.9 | 54.1 | 57.6 | 58.0 | 56.6 | 54.9 | 59.2 | 60.58 |
| 68.3 | 66.2 | 62.3 | 57.1 | 56.2 | 52.4 | 52.0 | 51.6 | 48.0 | 46.6 | 44.6 | 45.0 | 47.92 |
| 50.5 | 49.5 | 48.9 | 48.4 | 47.8 | 47.0 | — | — | — | — | — | — | 54.15 |
| — | — | — | — | — | — | 49.2 | 47.1 | 46.5 | 46.6 | 45.2 | 44.2 | 55.80 |
| 57.3 | 53.3 | 51.3 | 50.9 | 49.2 | 48.6 | 48.9 | 49.6 | 49.0 | 48.5 | 47.8 | 47.6 | 50.17 |
| 62.1 | 60.2 | 57.5 | 57.2 | 55.8 | 55.0 | 53.4 | 52.7 | 51.7 | 51.4 | 50.5 | 51.0 | 49.17 |
| 55.4 | 53.2 | 51.4 | 49.2 | 45.7 | 43.7 | 42.5 | 42.0 | 41.3 | 40.8 | 39.4 | 39.0 | 52.94 |
| 51.8 | 50.0 | 48.5 | 48.3 | 47.4 | 48.4 | 48.5 | 46.5 | 47.0 | 47.4 | 48.0 | 48.2 | 52.48 |
| 59.9 | 56.4 | 53.9 | 51.6 | 50.8 | 47.8 | 48.0 | 47.9 | 47.5 | 47.0 | 46.9 | 47.6 | 43.4 |
| 60.2 | 57.5 | 53.6 | 49.9 | 48.0 | 46.9 | — | — | — | — | — | — | 48.8 |
| — | — | — | — | — | — | 45.2 | 45.6 | 44.7 | 44.0 | 43.5 | 43.4 | 54.82 |
| 60.7 | 58.5 | 56.9 | 54.6 | 53.5 | 52.0 | 50.8 | 49.7 | 49.3 | 48.4 | 48.0 | 48.8 | 61.90 |
| 64.1 | 63.4 | 61.2 | 61.6 | 61.9 | 59.9 | 59.2 | 58.1 | 58.2 | 58.4 | 58.2 | 57.5 | 64.80 |
| 69.5 | 66.7 | 63.8 | 61.1 | 62.9 | 62.4 | 64.2 | 59.5 | 58.0 | 57.4 | 55.6 | 55.8 | 64.76 |
| 68.6 | 66.1 | 64.7 | 64.4 | 61.6 | 60.8 | 60.0 | 60.6 | 59.7 | 59.2 | 59.2 | 60.6 | 64.18 |
| 68.5 | 65.6 | 63.6 | 61.4 | 61.0 | 60.4 | 59.0 | 58.5 | 60.2 | 60.1 | 61.2 | 60.6 | 61.05 |
| 66.8 | 65.2 | 61.1 | 58.2 | 56.9 | 55.6 | — | — | — | — | — | — | 64.09 |
| — | — | — | — | — | — | 52.6 | 52.4 | 51.6 | 51.4 | 53.2 | 53.8 | 67.60 |
| 69.8 | 67.5 | 64.4 | 61.1 | 61.9 | 61.7 | 61.4 | 60.7 | 61.4 | 58.8 | 58.6 | 58.6 | 66.17 |
| 67.9 | 68.6 | 68.1 | 66.6 | 66.0 | 59.7 | 65.6 | 65.7 | 65.0 | 64.5 | 64.0 | 63.0 | 65.34 |
| 65.0 | 65.5 | 64.1 | 63.0 | 63.0 | 62.8 | 62.5 | 61.9 | 1.3 | 60.3 | 60.6 | 61.2 | 65.59 |
| 70.0 | 69.5 | 66.4 | 65.7 | 64.2 | 61.6 | 59.8 | 57.1 | 67.4 | 55.6 | 54.7 | 55.6 | 67.59 |
| 74.2 | 70.4 | 69.2 | 67.9 | 65.8 | 64.2 | 64.2 | 64.4 | 3.5 | 63.6 | 63.4 | 63.3 | 55.48 |
| 59.55 | 57.79 | 55.77 | 54.50 | 53.28 | 51.91 | 52.02 | 51.43 | 50.87 | 50.26 | 49.82 | 50.29 | 55.48 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 66.2 | 69.2 | 70.6 | 72.5 | 73.2 | 74.6 | 77.4 | 78.5 | 78.6 | 78.8 | 78.6 | 76.4 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 47.6 | 49.8 | 53.2 | 53.2 | 52.8 | 54.3 | 56.2 | 58.6 | 56.6 | 59.5 | 61.5 | 61.8 |
| | 4 | 50.4 | 54.0 | 56.4 | 60.4 | 60.6 | 59.4 | 61.6 | 61.3 | 61.7 | 61.9 | 61.1 | 62.4 |
| | 5 | 55.6 | 56.0 | 55.6 | 55.4 | 57.5 | 58.4 | 61.2 | 61.5 | 59.3 | 59.3 | 61.0 | 61.6 |
| | 6 | 50.4 | 53.6 | 55.0 | 58.8 | 60.9 | 60.4 | 58.7 | 59.6 | 61.8 | 64.0 | 64.4 | 65.9 |
| | 7 | 54.6 | 56.0 | 57.6 | 58.2 | 65.2 | 63.4 | 60.8 | 61.5 | 61.4 | 63.0 | 62.8 | 63.8 |
| | 8 | 56.2 | 59.6 | 62.0 | 62.8 | 64.0 | 63.6 | 63.0 | 62.2 | 62.0 | 62.5 | 62.9 | 64.5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 59.2 | 61.6 | 62.0 | 62.9 | 65.4 | 65.8 | 65.5 | 67.6 | 61.6 | 62.6 | 62.5 | 58.2 |
| | 11 | 58.0 | 60.0 | 50.4 | 52.2 | 54.2 | 54.8 | 56.0 | 56.0 | 58.2 | 59.2 | 60.2 | 59.2 |
| | 12 | 45.8 | 52.0 | 53.8 | 56.0 | 58.2 | 58.8 | 59.8 | 61.5 | 61.8 | 61.0 | 61.7 | 63.0 |
| | 13 | 47.8 | 53.0 | 54.8 | 58.2 | 60.0 | 61.2 | 63.0 | 64.1 | 65.1 | 65.6 | 64.5 | 65.2 |
| | 14 | 56.0 | 59.0 | 60.6 | 63.4 | 66.6 | 68.5 | 69.9 | 71.0 | 73.0 | 70.4 | 68.9 | 68.7 |
| | 15 | 62.2 | 62.6 | 63.6 | 64.6 | 65.5 | 66.4 | 69.2 | 71.4 | 69.2 | 68.4 | 67.9 | 69.5 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 62.5 | 63.1 | 64.1 | 62.8 | 64.8 | 69.2 | 71.6 | 72.3 | 75.2 | 74.5 | 69.7 | 69.5 |
| | 18 | 66.4 | 68.7 | 70.5 | 69.5 | 70.4 | 71.4 | 73.0 | 75.0 | 72.2 | 69.8 | 70.2 | 68.6 |
| | 19 | 59.9 | 59.3 | 58.3 | 53.8 | 55.9 | 56.5 | 55.6 | 56.6 | 54.7 | 54.8 | 55.6 | 56.0 |
| | 20 | 46.9 | 49.2 | 51.1 | 51.2 | 52.1 | 54.6 | 57.0 | 57.9 | 58.4 | 59.2 | 60.8 | 64.5 |
| | 21 | 44.2 | 51.4 | 54.2 | 55.8 | 57.0 | 59.0 | 60.6 | 60.2 | 62.0 | 63.4 | 64.6 | 64.4 |
| | 22 | 54.6 | 57.0 | 58.8 | 60.2 | 61.6 | 64.2 | 66.6 | 68.6 | 69.5 | 68.0 | 69.7 | 68.1 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 64.2 | 65.4 | 67.8 | 67.5 | 66.4 | 67.4 | 67.2 | 68.0 | 68.4 | 67.3 | 67.6 | 67.2 |
| | 25 | 56.0 | 58.7 | 60.1 | 61.6 | 62.2 | 64.0 | 63.9 | 64.7 | 66.2 | 66.9 | 67.1 | 65.1 |
| | 26 | 57.0 | 61.7 | 64.6 | 67.2 | 69.4 | 71.1 | 72.6 | 72.0 | 75.8 | 73.2 | 72.0 | 69.3 |
| | 27 | 61.8 | 63.0 | 64.0 | 64.0 | 65.0 | 65.6 | 65.2 | 67.0 | 66.5 | 66.5 | 66.7 | 68.1 |
| | 28 | 59.8 | 61.6 | 63.2 | 65.0 | 67.6 | 70.6 | 73.2 | 71.5 | 72.3 | 67.5 | 69.6 | 71.4 |
| | 29 | 60.0 | 59.2 | 59.2 | 59.2 | 59.6 | 58.8 | 59.4 | 58.4 | 58.1 | 58.6 | 59.0 | 59.7 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 45.6 | 53.4 | 55.6 | 56.2 | 59.1 | 60.0 | 61.8 | 61.6 | 62.5 | 63.6 | 64.5 | 64.6 |
| Hourly Means | 55.73 | 58.39 | 59.50 | 60.49 | 62.12 | 63.15 | 64.23 | 64.95 | 65.08 | 64.98 | 65.20 | 65.26 | |
| AUGUST. | 1 | 51.0 | 52.0 | 53.2 | 55.0 | 55.4 | 56.7 | 58.6 | 59.0 | 61.0 | 62.8 | 61.9 | 62.8 |
| | 2 | 47.0 | 48.9 | 54.8 | 57.0 | 58.2 | 58.4 | 60.7 | 62.0 | 63.8 | 64.0 | 64.8 | 63.9 |
| | 3 | 51.8 | 56.4 | 59.4 | 61.0 | 63.0 | 64.4 | 67.2 | 67.2 | 68.5 | 68.3 | 69.2 | 68.4 |
| | 4 | 55.4 | 59.2 | 62.0 | 62.8 | 63.8 | 65.4 | 65.4 | 65.6 | 65.4 | 65.9 | 65.8 | 66.4 |
| | 5 | 61.8 | 62.8 | 64.4 | 66.8 | 69.4 | 69.4 | 68.2 | 70.2 | 68.5 | 69.2 | 68.0 | 68.4 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 64.2 | 67.6 | 69.6 | 70.8 | 71.6 | 72.6 | 70.4 | 72.4 | 72.8 | 69.0 | 70.4 | 69.7 |
| | 8 | 62.5 | 65.4 | 66.6 | 68.0 | 67.6 | 68.6 | 69.2 | 69.7 | 69.8 | 69.2 | 70.8 | 68.3 |
| | 9 | 53.4 | 56.6 | 59.8 | 62.4 | 64.8 | 66.0 | 67.4 | 67.5 | 67.1 | 67.7 | 66.8 | 66.7 |
| | 10 | 59.1 | 61.2 | 63.6 | 65.4 | 67.4 | 68.8 | 69.6 | 70.3 | 68.0 | 68.5 | 71.3 | 66.5 |
| | 11 | 59.0 | 59.6 | 61.6 | 63.8 | 64.8 | 67.4 | 68.6 | 68.4 | 70.0 | 69.8 | 71.0 | 71.2 |
| | 12 | 57.6 | 59.0 | 62.2 | 64.0 | 65.0 | 68.0 | 68.8 | 68.6 | 69.1 | 69.0 | 70.0 | 68.4 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 66.6 | 67.2 | 68.0 | 67.6 | 68.6 | 68.6 | 71.0 | 72.8 | 73.2 | 70.8 | 69.5 | 69.7 |
| | 15 | 58.0 | 60.4 | 62.2 | 64.0 | 64.0 | 64.0 | 64.2 | 66.6 | 65.2 | 70.2 | 66.7 | 66.1 |
| | 16 | 56.6 | 60.6 | 63.8 | 66.0 | 67.6 | 69.4 | 71.0 | 72.6 | 72.3 | 73.4 | 73.5 | 73.2 |
| | 17 | 64.0 | 65.6 | 65.6 | 68.0 | 68.8 | 70.8 | 69.2 | 71.2 | 69.8 | 69.8 | 70.8 | 69.7 |
| | 18 | 57.0 | 57.8 | 58.0 | 58.8 | 59.8 | 61.6 | 64.4 | 66.0 | 66.0 | 64.5 | 60.5 | 62.6 |
| | 19 | 50.6 | 53.8 | 55.4 | 58.2 | 57.6 | 60.8 | 62.4 | 61.7 | 62.4 | 61.3 | 61.3 | 60.4 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 54.8 | 56.0 | 57.6 | 59.0 | 59.0 | 59.0 | 61.0 | 62.1 | 63.2 | 63.2 | 63.9 | 66.1 |
| | 22 | 54.0 | 56.0 | 57.8 | 59.6 | 60.0 | 63.2 | 63.2 | 64.8 | 64.9 | 65.0 | 66.1 | 64.8 |
| | 23 | 53.0 | 54.6 | 57.6 | 60.8 | 64.7 | 65.0 | 65.2 | 64.8 | 65.4 | 64.5 | 65.0 | 66.3 |
| | 24 | 47.6 | 52.6 | 56.2 | 59.6 | 61.2 | 61.2 | 62.6 | 63.5 | 63.4 | 65.7 | 66.2 | 66.2 |
| | 25 | 51.0 | 54.6 | 60.2 | 64.2 | 65.4 | 64.2 | 63.6 | 67.0 | 68.4 | 67.7 | 67.6 | 68.4 |
| | 26 | 55.2 | 60.2 | 63.5 | 65.8 | 68.2 | 69.6 | 71.3 | 72.3 | 72.3 | 73.3 | 73.4 | 72.1 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 65.6 | 65.6 | 66.4 | 68.2 | 68.1 | 70.1 | 70.2 | 71.3 | 72.4 | 72.9 | 72.3 | 71.6 |
| | 29 | 61.6 | 63.8 | 66.4 | 67.8 | 68.4 | 69.6 | 70.4 | 71.4 | 71.6 | 70.4 | 68.6 | 68.8 |
| | 30 | 57.0 | 60.8 | 64.3 | 67.6 | 70.6 | 70.2 | 72.4 | 74.1 | 74.2 | 74.3 | 73.8 | 73.6 |
| | 31 | 65.0 | 68.6 | 70.4 | 71.4 | 71.8 | 73.4 | 73.7 | 74.2 | 74.4 | 74.1 | 74.5 | 75.4 |
| Hourly Means | 57.05 | 59.49 | 61.87 | 63.84 | 64.99 | 66.16 | 67.03 | 68.05 | 68.26 | 68.31 | 68.29 | 67.99 | |

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 74.2 | 72.8 | 70.5 | 69.2 | 70.8 | 70.5 | — | — | — | — | — | — | 66.79 |
| 58.8 | 54.4 | 53.6 | 51.0 | 48.4 | 47.6 | 49.1 | 48.5 | 46.8 | 44.8 | 45.5 | 45.6 | 52.65 |
| 59.9 | 60.5 | 59.3 | 58.5 | 58.4 | 58.5 | 47.8 | 46.7 | 47.6 | 47.7 | 47.4 | 47.4 | 58.64 |
| 61.3 | 60.6 | 54.5 | 51.2 | 48.6 | 49.2 | 58.2 | 57.7 | 57.2 | 56.5 | 55.8 | 55.6 | 54.46 |
| 63.3 | 61.0 | 57.2 | 56.2 | 56.2 | 55.6 | 47.2 | 46.0 | 46.6 | 46.7 | 46.2 | 46.6 | 58.10 |
| 62.9 | 61.2 | 58.9 | 57.8 | 56.8 | 55.4 | 55.7 | 55.6 | 56.0 | 56.0 | 53.5 | 54.6 | 58.02 |
| 65.6 | 62.2 | 60.5 | 59.0 | 57.1 | 54.8 | 53.8 | 51.9 | 52.2 | 51.2 | 49.5 | 52.6 | 60.17 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 57.0 | 55.8 | 52.4 | 51.6 | 49.9 | 49.4 | 57.2 | 57.2 | 57.0 | 56.0 | 55.6 | 56.6 | 56.82 |
| 56.4 | 56.8 | 52.6 | 49.2 | 45.4 | 44.0 | 49.6 | 49.4 | 49.2 | 48.6 | 48.2 | 47.6 | 51.22 |
| 63.3 | 57.7 | 53.8 | 49.5 | 48.0 | 46.8 | 42.5 | 42.4 | 42.0 | 40.2 | 39.7 | 39.8 | 53.87 |
| 65.2 | 60.8 | 58.6 | 57.6 | 57.6 | 57.0 | 46.9 | 47.0 | 46.5 | 46.5 | 47.0 | 46.4 | 58.57 |
| 67.6 | 65.2 | 64.4 | 63.5 | 63.1 | 62.6 | 56.4 | 55.4 | 54.8 | 53.8 | 53.2 | 52.8 | 64.70 |
| 69.3 | 67.7 | 66.0 | 65.0 | 65.2 | 64.8 | 62.4 | 61.2 | 61.2 | 61.9 | 61.7 | 62.0 | 65.54 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 66.6 | 68.0 | 67.7 | 67.4 | 66.7 | 65.5 | 62.6 | 62.8 | 62.5 | 62.2 | 62.1 | 62.2 | 67.10 |
| 68.2 | 67.7 | 63.8 | 63.0 | 62.8 | 61.2 | 65.8 | 65.7 | 66.2 | 65.2 | 63.4 | 62.8 | 66.27 |
| 57.8 | 55.1 | 51.0 | 48.8 | 48.0 | 47.6 | 60.6 | 60.0 | 59.7 | 59.5 | 59.0 | 59.2 | 52.73 |
| 63.0 | 60.0 | 55.5 | 51.6 | 49.7 | 47.5 | 47.8 | 47.8 | 47.8 | 47.0 | 45.7 | 44.2 | 52.29 |
| 63.6 | 61.9 | 58.7 | 55.9 | 54.0 | 52.8 | 46.1 | 45.4 | 44.5 | 43.8 | 43.6 | 41.4 | 56.42 |
| 65.7 | 64.4 | 61.8 | 60.6 | 60.0 | 58.8 | 51.5 | 52.0 | 52.2 | 52.8 | 51.4 | 50.6 | 63.42 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 67.2 | 63.9 | 59.2 | 57.6 | 56.3 | 55.4 | 64.6 | 63.7 | 64.1 | 64.1 | 63.6 | 63.8 | 61.93 |
| 63.9 | 60.6 | 58.8 | 58.4 | 56.5 | 54.4 | 54.4 | 54.0 | 53.8 | 53.4 | 53.2 | 53.5 | 59.66 |
| 67.5 | 66.2 | 63.4 | 65.0 | 63.6 | 63.9 | 54.0 | 52.0 | 52.1 | 55.2 | 55.5 | 54.0 | 65.53 |
| 65.5 | 62.9 | 60.8 | 58.6 | 57.9 | 56.5 | 62.8 | 60.4 | 59.5 | 59.1 | 58.5 | 57.0 | 62.19 |
| 74.1 | 72.1 | 71.2 | 70.8 | 68.5 | 67.8 | 56.9 | 57.5 | 58.2 | 59.0 | 58.0 | 57.4 | 68.01 |
| 61.5 | 58.0 | 55.2 | 53.4 | 49.7 | 49.1 | 69.0 | 69.2 | 65.9 | 65.4 | 63.0 | 62.0 | 54.74 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 65.2 | 65.5 | 54.7 | 52.8 | 51.5 | 51.0 | 48.5 | 47.4 | 46.8 | 46.0 | 44.8 | 44.2 | 56.07 |
| — | — | — | — | — | — | 50.8 | 49.8 | 49.6 | 49.4 | 48.0 | 49.0 | — |
| 64.41 | 62.42 | 59.39 | 57.82 | 56.57 | 55.68 | 54.70 | 54.10 | 53.85 | 53.54 | 52.81 | 52.65 | 59.46 |
| 63.4 | 59.8 | 56.2 | 53.0 | 50.8 | 50.4 | 48.9 | 47.8 | 47.0 | 47.0 | 45.5 | 44.0 | 54.30 |
| 61.8 | 59.0 | 58.8 | 56.2 | 55.7 | 52.7 | 51.7 | 51.0 | 51.5 | 49.5 | 48.9 | 49.0 | 56.22 |
| 68.0 | 65.4 | 61.0 | 57.8 | 56.4 | 55.6 | 55.5 | 55.2 | 54.6 | 54.1 | 53.7 | 53.0 | 60.63 |
| 64.5 | 60.6 | 58.5 | 57.5 | 57.4 | 57.4 | 57.6 | 59.0 | 58.3 | 57.0 | 57.6 | 60.0 | 61.10 |
| 67.0 | 65.3 | 64.0 | 63.0 | 63.0 | 62.2 | — | — | — | — | — | — | 65.47 |
| — | — | — | — | — | — | 63.2 | 63.2 | 63.4 | 63.0 | 63.6 | 63.2 | 67.72 |
| 69.5 | 68.4 | 67.8 | 67.0 | 66.3 | 65.9 | 64.7 | 64.0 | 63.0 | 63.0 | 62.5 | 62.0 | 63.80 |
| 69.3 | 67.9 | 65.2 | 63.2 | 61.7 | 58.5 | 57.5 | 56.7 | 54.8 | 53.5 | 54.7 | 52.6 | 62.11 |
| 67.1 | 64.5 | 61.5 | 60.0 | 59.5 | 59.0 | 58.2 | 59.9 | 60.5 | 60.2 | 58.0 | 56.0 | 63.84 |
| 67.0 | 65.0 | 62.2 | 61.3 | 61.0 | 60.7 | 60.0 | 59.7 | 59.0 | 59.0 | 58.9 | 58.6 | 63.59 |
| 69.7 | 65.1 | 63.0 | 61.2 | 61.0 | 60.7 | 58.8 | 60.4 | 60.4 | 59.0 | 56.1 | 55.6 | 64.48 |
| 69.0 | 66.4 | 66.7 | 63.6 | 62.7 | 59.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.2 | 59.2 | 58.7 | 63.0 | 64.0 | 65.2 | 65.59 |
| 70.5 | 66.2 | 64.8 | 63.4 | 61.8 | 61.0 | 61.0 | 59.2 | 58.8 | 58.5 | 58.4 | 57.0 | 61.22 |
| 67.8 | 64.2 | 61.2 | 60.0 | 58.5 | 57.0 | 56.4 | 55.1 | 54.5 | 54.1 | 54.9 | 54.1 | 66.40 |
| 70.4 | 66.5 | 66.4 | 64.2 | 64.0 | 63.6 | 61.5 | 61.9 | 62.4 | 64.6 | 65.0 | 63.2 | 65.70 |
| 67.7 | 66.2 | 65.6 | 65.5 | 65.0 | 63.8 | 64.4 | 64.0 | 60.2 | 57.8 | 56.5 | 57.4 | 57.15 |
| 64.4 | 58.1 | 56.2 | 52.8 | 51.0 | 52.0 | 51.4 | 51.6 | 50.8 | 49.9 | 47.9 | 48.6 | 56.85 |
| 61.0 | 57.4 | 53.2 | 53.5 | 53.3 | 53.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.0 | 55.4 | 55.2 | 53.4 | 54.0 | 53.8 | 57.28 |
| 63.4 | 58.0 | 55.4 | 53.6 | 53.6 | 53.0 | 52.5 | 52.9 | 52.7 | 52.0 | 51.6 | 51.2 | 59.16 |
| 64.0 | 61.0 | 59.2 | 58.2 | 57.4 | 56.9 | 55.8 | 55.0 | 54.5 | 54.4 | 53.0 | 51.0 | 58.01 |
| 67.2 | 61.3 | 56.4 | 55.2 | 54.4 | 53.0 | 52.9 | 52.2 | 52.0 | 48.0 | 46.5 | 46.2 | 57.47 |
| 62.2 | 60.3 | 57.9 | 57.0 | 56.2 | 54.0 | 53.7 | 52.5 | 51.4 | 50.4 | 49.2 | 48.4 | 61.36 |
| 67.4 | 65.8 | 62.7 | 61.0 | 59.6 | 58.8 | 57.8 | 56.3 | 56.2 | 55.5 | 54.8 | 54.5 | 67.13 |
| 69.5 | 67.4 | 65.6 | 65.3 | 64.2 | 65.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.8 | 66.8 | 66.5 | 66.1 | 65.4 | 65.2 | 66.40 |
| 69.2 | 66.8 | 65.2 | 63.2 | 62.4 | 62.4 | 62.4 | 62.7 | 62.2 | 61.3 | 61.2 | 60.0 | 64.27 |
| 67.9 | 64.7 | 62.2 | 61.0 | 60.5 | 60.3 | 60.3 | 59.5 | 58.0 | 57.5 | 56.6 | 55.2 | 67.61 |
| 71.7 | 68.0 | 66.8 | 65.5 | 65.2 | 64.8 | 64.7 | 65.2 | 64.2 | 64.7 | 64.8 | 64.2 | 69.11 |
| 74.0 | 70.0 | 67.0 | 67.8 | 66.5 | 66.0 | 65.4 | 64.6 | 63.2 | 62.5 | 62.1 | 62.6 | 62.37 |
| 67.21 | 64.05 | 61.88 | 60.40 | 59.60 | 58.78 | 58.46 | 58.19 | 57.56 | 57.00 | 56.50 | 55.99 | 62.37 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | 64.2 | 66.8 | 68.6 | 67.8 | 69.5 | 72.4 | 73.0 | 73.5 | 72.8 | 71.8 | 74.0 | 73.3 |
| | 2 | 65.0 | 67.0 | 68.6 | 68.6 | 70.8 | 73.4 | 75.0 | 77.5 | 76.3 | 76.8 | 74.9 | 75.1 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 65.0 | 65.8 | 64.4 | 66.2 | 66.2 | 67.4 | 68.4 | 71.7 | 72.8 | 68.4 | 67.0 | 66.7 |
| | 5 | 55.3 | 59.2 | 56.0 | 58.0 | 59.2 | 61.6 | 63.3 | 64.1 | 63.9 | 64.6 | 65.8 | 63.2 |
| | 6 | 57.4 | 57.8 | 59.0 | 59.6 | 60.4 | 64.0 | 64.0 | 65.4 | 65.0 | 64.1 | 64.8 | 64.5 |
| | 7 | 64.0 | 64.6 | 64.8 | 66.0 | 66.0 | 66.6 | 66.6 | 67.8 | 67.5 | 66.8 | 67.5 | 65.2 |
| | 8 | 61.0 | 61.4 | 61.4 | 63.6 | 65.2 | 67.2 | 67.8 | 67.5 | 67.5 | 68.5 | 68.4 | 63.0 |
| | 9 | 43.8 | 44.8 | 45.2 | 47.0 | 47.4 | 48.9 | 50.0 | 50.8 | 51.7 | 51.8 | 50.5 | 49.8 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 39.4 | 44.0 | 46.0 | 47.0 | 47.8 | 49.2 | 51.4 | 52.6 | 53.0 | 54.2 | 55.1 | 55.4 |
| | 12 | 40.6 | 42.6 | 44.6 | 48.0 | 50.4 | 52.0 | 54.0 | 53.3 | 54.6 | 55.8 | 54.5 | 53.4 |
| | 13 | 43.0 | 48.0 | 49.6 | 51.1 | 52.0 | 52.8 | 53.6 | 54.2 | 54.1 | 54.4 | 54.0 | 54.1 |
| | 14 | 54.6 | 54.0 | 53.8 | 53.8 | 54.0 | 55.0 | 55.4 | 55.6 | 55.7 | 55.7 | 54.8 | 54.1 |
| | 15 | 58.2 | 58.0 | 58.0 | 58.6 | 60.0 | 59.6 | 60.4 | 63.1 | 65.3 | 67.0 | 65.4 | 64.5 |
| | 16 | 55.4 | 56.4 | 58.0 | 58.6 | 59.4 | 60.6 | 62.0 | 63.7 | 64.4 | 63.7 | 64.4 | 60.8 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 62.0 | 68.2 | 64.8 | 63.4 | 63.6 | 65.4 | 66.8 | 65.8 | 64.9 | 64.3 | 63.9 | 63.2 |
| | 19 | 49.0 | 52.0 | 55.0 | 56.8 | 58.0 | 59.2 | 60.2 | 60.8 | 59.8 | 60.0 | 59.7 | 58.5 |
| | 20 | 56.0 | 56.7 | 58.0 | 59.7 | 59.8 | 60.4 | 60.2 | 64.0 | 65.7 | 64.8 | 65.2 | 62.9 |
| | 21 | 61.4 | 64.8 | 67.8 | 72.8 | 73.7 | 74.5 | 73.5 | 73.7 | 74.1 | 73.3 | 72.2 | 71.0 |
| | 22 | 44.6 | 46.2 | 49.2 | 50.2 | 51.0 | 51.6 | 52.6 | 53.5 | 51.4 | 52.0 | 51.6 | 52.2 |
| | 23 | 56.0 | 56.6 | 59.2 | 60.6 | 61.8 | 62.2 | 65.2 | 68.9 | 69.0 | 69.4 | 71.0 | 70.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 54.6 | 54.4 | 54.4 | 54.4 | 54.2 | 54.8 | 55.2 | 56.7 | 57.2 | 56.4 | 55.5 | 54.7 |
| | 26 | 45.0 | 44.6 | 43.6 | 44.8 | 42.8 | 43.2 | 43.2 | 44.0 | 43.5 | 44.0 | 42.8 | 42.0 |
| | 27 | 35.0 | 35.2 | 34.2 | 34.8 | 38.2 | 38.6 | 40.6 | 41.6 | 42.7 | 44.6 | 44.0 | 44.6 |
| | 28 | 33.6 | 35.2 | 38.8 | 41.3 | 44.2 | 46.4 | 49.2 | 50.0 | 50.7 | 51.6 | 49.8 | 52.4 |
| | 29 | 42.4 | 44.0 | 47.0 | 49.4 | 52.6 | 55.2 | 56.6 | 56.9 | 58.7 | 58.9 | 57.5 | 57.7 |
| | 30 | 42.6 | 44.2 | 50.6 | 52.0 | 54.5 | 56.9 | 57.3 | 57.8 | 57.5 | 56.3 | 55.6 | 54.2 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 51.89 | 53.56 | 54.64 | 55.93 | 57.03 | 58.43 | 59.52 | 60.56 | 60.76 | 60.74 | 60.38 | 59.51 | |
| OCTOBER. | 2 | 49.4 | 49.6 | 50.0 | 51.2 | 51.6 | 51.6 | 52.3 | 52.0 | 50.9 | 51.8 | 51.8 | 50.6 |
| | 3 | 43.0 | 44.2 | 44.6 | 45.8 | 47.0 | 47.2 | 47.0 | 47.4 | 47.2 | 47.0 | 47.0 | 46.4 |
| | 4 | 40.8 | 41.2 | 42.2 | 43.0 | 44.8 | 46.0 | 45.6 | 48.4 | 47.4 | 46.4 | 45.2 | 44.6 |
| | 5 | 36.0 | 39.2 | 43.4 | 45.2 | 47.6 | 48.6 | 50.6 | 52.5 | 52.9 | 54.0 | 53.3 | 51.9 |
| | 6 | 42.0 | 47.0 | 50.2 | 54.2 | 55.8 | 57.2 | 59.0 | 59.5 | 59.4 | 58.7 | 56.8 | 57.1 |
| | 7 | 55.8 | 55.0 | 54.0 | 54.2 | 54.6 | 55.0 | 55.0 | 55.3 | 56.0 | 56.0 | 55.5 | 53.8 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 35.8 | 38.0 | 41.6 | 44.0 | 45.6 | 46.0 | 47.2 | 48.8 | 46.5 | 45.8 | 45.7 | 45.4 |
| | 10 | 37.8 | 38.6 | 41.6 | 44.0 | 44.6 | 45.8 | 46.6 | 47.0 | 48.4 | 46.8 | 46.2 | 44.8 |
| | 11 | 48.6 | 49.2 | 49.2 | 49.8 | 50.2 | 50.8 | 51.6 | 51.7 | 52.4 | 52.0 | 51.8 | 51.7 |
| | 12 | 44.8 | 39.6 | 45.2 | 47.0 | 47.6 | 47.6 | 47.4 | 47.1 | 46.5 | 45.9 | 45.0 | 44.4 |
| | 13 | 34.2 | 34.8 | 36.5 | 39.0 | 39.8 | 40.2 | 41.2 | 40.5 | 40.2 | 40.0 | 40.1 | 38.8 |
| | 14 | 30.4 | 31.4 | 33.4 | 35.4 | 36.6 | 37.4 | 37.8 | 39.5 | 39.7 | 39.5 | 38.6 | 37.5 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 37.8 | 38.2 | 38.8 | 39.6 | 41.6 | 42.2 | 45.0 | 43.2 | 42.8 | 42.0 | 42.4 | 41.2 |
| | 17 | 36.2 | 36.4 | 37.4 | 38.0 | 36.8 | 37.4 | 37.0 | 37.2 | 37.4 | 37.2 | 37.5 | 36.0 |
| | 18 | 36.0 | 36.4 | 37.6 | 38.6 | 41.4 | 41.4 | 41.6 | 41.6 | 42.8 | 43.0 | 42.2 | 40.6 |
| | 19 | 31.2 | 32.0 | 35.0 | 37.2 | 39.6 | 39.8 | 40.1 | 40.5 | 42.3 | 44.1 | 42.8 | 40.8 |
| | 20 | 40.6 | 41.8 | 43.6 | 46.0 | 47.2 | 48.8 | 49.6 | 50.8 | 52.8 | 52.2 | 53.2 | 51.6 |
| | 21 | 51.0 | 49.4 | 48.2 | 48.0 | 47.4 | 45.7 | 43.9 | 42.6 | 41.2 | 40.1 | 37.5 | 36.6 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 24.4 | 25.8 | 29.0 | 30.6 | 32.6 | 32.7 | 36.2 | 36.3 | 37.5 | 37.3 | 37.6 | 36.2 |
| | 24 | 27.6 | 27.6 | 30.4 | 32.6 | 33.0 | 38.4 | 40.0 | 40.5 | 41.4 | 41.1 | 40.4 | 38.0 |
| | 25 | 37.4 | 38.0 | 39.0 | 41.1 | 44.2 | 44.2 | 42.2 | 40.0 | 39.2 | 39.2 | 36.2 | 34.2 |
| | 26 | 27.4 | 26.6 | 28.8 | 31.8 | 32.6 | 32.8 | 33.0 | 34.7 | 36.1 | 35.1 | 33.4 | 32.8 |
| | 27 | 28.4 | 27.4 | 27.8 | 28.8 | 30.0 | 31.8 | 30.4 | 30.4 | 30.4 | 31.1 | 31.4 | 31.2 |
| | 28 | 28.0 | 28.0 | 30.0 | 31.6 | 32.8 | 32.8 | 35.2 | 37.5 | 37.1 | 38.0 | 36.8 | 34.7 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 32.4 | 32.2 | 33.4 | 33.4 | 33.4 | 33.6 | 33.0 | 32.5 | 32.4 | 31.6 | 30.4 | 29.4 |
| | 31 | 26.4 | 26.0 | 28.4 | 29.6 | 30.8 | 32.2 | 32.6 | 32.6 | 33.2 | 34.8 | 34.2 | 35.0 |
| | Hourly Means | 37.05 | 37.45 | 39.20 | 40.75 | 41.89 | 42.58 | 43.12 | 43.47 | 43.62 | 43.49 | 42.81 | 41.74 |

| WET THERMOMETER. | | | | | | | | | | | | Daily and Monthly Means. |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 70.7 | 69.0 | 69.8 | 68.9 | 66.8 | 64.4 | 68.8 | 68.0 | 67.5 | 66.8 | 65.5 | 65.0 | 69.12 |
| 74.0 | 73.2 | 73.2 | 72.5 | 72.4 | 70.8 | — | — | — | — | — | — | 71.55 |
| — | — | — | — | — | — | 71.0 | 70.6 | 70.2 | 70.4 | 65.5 | 64.4 | 63.87 |
| 65.7 | 63.2 | 61.9 | 61.8 | 61.1 | 60.5 | 60.7 | 60.0 | 59.0 | 57.8 | 56.2 | 55.0 | 59.47 |
| 62.8 | 60.4 | 58.4 | 57.2 | 56.5 | 56.5 | 56.8 | 56.9 | 56.5 | 56.3 | 57.4 | 57.4 | 63.20 |
| 64.4 | 64.5 | 64.5 | 64.6 | 64.8 | 64.0 | 63.5 | 63.8 | 63.9 | 64.1 | 64.5 | 64.2 | 63.70 |
| 64.6 | 63.5 | 62.4 | 61.2 | 61.2 | 61.2 | 61.2 | 61.8 | 59.0 | 58.2 | 60.5 | 60.6 | 57.48 |
| 59.6 | 57.6 | 55.2 | 51.8 | 50.5 | 49.0 | 47.5 | 46.7 | 45.9 | 45.0 | 44.5 | 43.8 | — |
| 47.3 | 45.6 | 43.8 | 43.4 | 43.2 | 42.4 | — | — | — | — | — | — | 45.63 |
| — | — | — | — | — | — | 43.2 | 42.8 | 41.8 | 41.0 | 40.4 | 38.6 | 46.17 |
| 51.0 | 46.4 | 44.2 | 43.0 | 41.8 | 40.4 | 40.0 | 41.3 | 41.3 | 41.2 | 41.3 | 41.0 | 47.15 |
| 50.2 | 45.0 | 43.0 | 43.4 | 41.5 | 41.2 | 41.1 | 41.7 | 44.4 | 44.8 | 45.8 | 45.6 | 53.51 |
| 54.8 | 56.2 | 55.3 | 55.8 | 56.0 | 54.7 | 54.8 | 55.0 | 54.8 | 55.0 | 55.5 | 55.4 | 55.63 |
| 53.9 | 54.4 | 54.8 | 55.2 | 56.0 | 56.8 | 57.2 | 57.6 | 58.1 | 58.3 | 58.2 | 58.2 | 59.75 |
| 61.8 | 60.5 | 60.2 | 58.0 | 57.7 | 58.7 | 58.2 | 57.6 | 56.4 | 56.3 | 55.4 | 55.2 | — |
| 59.7 | 58.8 | 57.9 | 55.4 | 57.0 | 57.0 | — | — | — | — | — | — | 61.03 |
| — | — | — | — | — | — | 65.2 | 64.4 | 65.4 | 65.4 | 66.7 | 64.4 | 58.20 |
| 61.0 | 58.2 | 56.2 | 54.0 | 52.3 | 50.4 | 49.2 | 48.3 | 47.8 | 46.9 | 49.0 | 47.2 | 56.51 |
| 57.2 | 56.0 | 55.0 | 54.7 | 54.2 | 55.5 | 56.0 | 56.0 | 56.0 | 55.6 | 55.0 | 56.0 | 59.78 |
| 61.2 | 60.2 | 60.0 | 58.8 | 57.0 | 57.2 | 56.8 | 57.0 | 58.2 | 58.2 | 58.2 | 58.0 | 62.86 |
| 67.4 | 62.2 | 60.6 | 58.0 | 57.4 | 56.2 | 52.7 | 51.7 | 49.5 | 48.0 | 46.5 | 45.6 | 50.75 |
| 48.8 | 49.2 | 49.6 | 49.5 | 48.0 | 48.0 | 52.4 | 51.6 | 52.0 | 53.0 | 54.5 | 55.2 | — |
| 67.0 | 65.7 | 66.8 | 68.0 | 67.4 | 66.9 | — | — | — | — | — | — | 62.54 |
| — | — | — | — | — | — | 55.3 | 55.0 | 54.8 | 54.0 | 54.7 | 54.6 | 52.10 |
| 52.5 | 51.7 | 51.3 | 51.0 | 50.2 | 50.0 | 49.5 | 47.2 | 46.8 | 46.0 | 45.8 | 45.8 | 40.63 |
| 41.6 | 40.5 | 40.8 | 40.0 | 38.0 | 37.0 | 36.5 | 35.8 | 36.2 | 35.2 | 34.8 | 35.2 | 37.60 |
| 41.4 | 38.2 | 36.5 | 36.6 | 36.5 | 36.2 | 35.3 | 35.2 | 33.5 | 32.6 | 32.6 | 33.6 | 43.10 |
| 46.4 | 43.5 | 41.5 | 40.6 | 40.8 | 40.0 | 38.8 | 38.5 | 39.0 | 40.2 | 40.8 | 41.2 | 50.00 |
| 55.4 | 52.0 | 51.0 | 50.5 | 47.8 | 45.1 | 44.0 | 45.5 | 43.7 | 43.6 | 42.4 | 42.0 | — |
| 52.8 | 53.2 | 53.5 | 55.4 | 56.4 | 56.4 | — | — | — | — | — | — | 52.97 |
| — | — | — | — | — | — | 51.8 | 52.0 | 51.0 | 50.4 | 49.8 | 49.2 | — |
| 57.51 | 55.73 | 54.90 | 54.20 | 53.56 | 52.94 | 52.60 | 52.38 | 52.03 | 51.70 | 51.62 | 51.25 | 55.55 |
| 48.7 | 47.0 | 44.5 | 45.5 | 45.2 | 44.4 | 43.0 | 43.2 | 44.9 | 45.0 | 44.2 | 43.0 | 47.98 |
| 44.2 | 43.4 | 42.7 | 41.8 | 41.2 | 41.2 | 41.2 | 41.0 | 41.0 | 40.6 | 40.4 | 40.4 | 43.87 |
| 42.8 | 41.2 | 41.0 | 40.3 | 41.3 | 41.2 | 40.9 | 40.8 | 40.4 | 39.8 | 37.6 | 36.4 | 42.47 |
| 52.3 | 50.7 | 50.4 | 48.3 | 46.4 | 46.0 | 46.4 | 47.9 | 48.2 | 46.9 | 44.4 | 43.0 | 47.75 |
| 55.4 | 55.5 | 55.5 | 55.8 | 56.1 | 56.3 | 56.5 | 56.2 | 55.7 | 55.6 | 55.8 | 55.4 | 55.28 |
| 53.9 | 54.8 | 54.8 | 54.7 | 51.1 | 50.2 | — | — | — | — | — | — | 49.69 |
| — | — | — | — | — | — | 38.2 | 37.2 | 35.2 | 34.9 | 33.5 | 33.8 | 42.66 |
| 44.8 | 44.4 | 44.0 | 44.2 | 43.7 | 42.1 | 41.0 | 40.0 | 37.4 | 37.0 | 37.2 | 37.6 | 44.85 |
| 45.3 | 45.3 | 45.2 | 45.0 | 44.5 | 44.2 | 44.3 | 44.5 | 45.4 | 46.0 | 46.6 | 48.0 | 49.07 |
| 50.4 | 50.0 | 50.1 | 49.0 | 47.4 | 46.8 | 47.0 | 46.7 | 45.7 | 45.4 | 45.6 | 44.6 | 40.96 |
| 41.8 | 40.8 | 39.4 | 38.2 | 37.3 | 36.4 | 34.4 | 32.5 | 33.2 | 33.3 | 33.3 | 34.4 | 35.81 |
| 37.8 | 36.8 | 36.0 | 35.0 | 32.3 | 32.0 | 31.8 | 31.0 | 30.6 | 30.2 | 30.4 | 30.2 | — |
| 36.4 | 35.9 | 35.5 | 34.8 | 34.0 | 33.6 | — | — | — | — | — | — | 36.40 |
| — | — | — | — | — | — | 37.8 | 37.4 | 37.2 | 38.1 | 38.0 | 37.8 | 39.60 |
| 40.0 | 39.8 | 39.7 | 38.8 | 37.4 | 38.2 | 37.9 | 37.5 | 37.0 | 36.7 | 36.4 | 36.2 | 36.41 |
| 35.4 | 35.2 | 35.2 | 35.4 | 35.0 | 35.4 | 35.8 | 36.0 | 36.2 | 36.4 | 37.4 | 36.0 | 37.95 |
| 40.3 | 40.0 | 38.8 | 37.8 | 37.0 | 35.6 | 33.6 | 34.4 | 33.6 | 33.5 | 31.9 | 31.0 | 38.18 |
| 39.8 | 39.2 | 39.3 | 38.6 | 37.8 | 36.0 | 36.2 | 36.2 | 36.4 | 36.8 | 37.0 | 37.6 | 50.03 |
| 52.0 | 51.0 | 42.0 | 51.8 | 51.5 | 49.8 | 51.0 | 53.9 | 52.5 | 52.0 | 52.5 | 52.6 | — |
| 35.4 | 35.0 | 34.0 | 34.0 | 34.4 | 34.2 | — | — | — | — | — | — | 37.52 |
| — | — | — | — | — | — | 29.2 | 28.8 | 26.6 | 26.0 | 25.8 | 25.4 | 30.94 |
| 32.3 | — | — | 28.4 | 28.5 | 28.4 | 27.2 | 28.6 | 27.6 | 28.2 | 27.8 | 27.5 | 34.29 |
| 34.8 | 32.4 | 32.0 | 32.5 | 31.9 | 31.1 | 31.5 | 32.5 | 32.2 | 32.4 | 32.7 | 36.0 | 34.69 |
| 33.7 | 32.6 | 31.8 | 32.0 | 29.0 | 28.1 | 28.4 | 28.8 | 28.2 | 29.0 | 28.5 | 27.6 | 32.38 |
| 32.9 | 33.4 | 33.5 | 33.2 | 33.5 | 33.4 | 33.8 | 32.8 | 32.5 | 31.4 | 31.8 | 29.8 | 30.29 |
| 31.2 | 31.4 | 31.5 | 32.2 | 32.5 | 32.0 | 31.2 | 31.1 | 29.9 | 29.4 | 27.4 | 28.0 | — |
| 32.0 | 31.2 | 33.5 | 33.8 | 37.3 | 38.0 | — | — | — | — | — | — | 33.50 |
| — | — | — | — | — | — | 34.4 | 33.2 | 32.0 | 31.6 | 32.0 | 32.6 | 29.66 |
| 28.5 | 28.0 | 27.4 | 27.2 | 27.0 | 26.7 | 26.7 | 26.1 | 26.4 | 26.6 | 27.1 | 26.4 | 30.79 |
| 34.8 | 31.6 | 28.8 | 29.8 | 29.4 | 26.8 | 26.7 | 27.2 | 29.8 | 32.5 | 32.8 | 33.0 | — |
| 40.65 | 40.26 | 39.86 | 39.16 | 38.57 | 38.00 | 37.16 | 37.13 | 36.76 | 36.74 | 36.47 | 36.32 | 39.76 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 33.4 | 33.0 | 33.2 | 34.2 | 34.7 | 34.6 | 33.6 | 33.7 | 33.2 | 34.0 | 35.0 | 36.2 |
| | 2 | 34.2 | 34.8 | 35.2 | 36.8 | 37.2 | 37.0 | 36.6 | 36.7 | 36.1 | 35.8 | 35.0 | 34.2 |
| | 3 | 28.6 | 29.2 | 29.6 | 29.6 | 30.0 | 30.6 | 31.6 | 32.2 | 31.8 | 31.6 | 30.6 | 30.3 |
| | 4 | 25.4 | 25.8 | 25.6 | 25.8 | 26.8 | 26.6 | 27.0 | 27.2 | 27.2 | 27.0 | 26.8 | 26.4 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 19.2 | 19.0 | 22.8 | 26.0 | 28.0 | 29.2 | 30.5 | 30.6 | 31.4 | 32.2 | 30.6 | 30.4 |
| | 7 | 29.6 | 30.0 | 30.6 | 30.2 | 31.6 | 32.0 | 32.6 | 32.7 | 32.7 | 34.9 | 34.6 | 33.6 |
| | 8 | 32.2 | 31.6 | 30.8 | 30.6 | 31.6 | 32.4 | 32.2 | 32.7 | 32.6 | 32.3 | 32.0 | 31.6 |
| | 9 | 29.4 | 30.0 | 29.6 | 31.6 | 32.6 | 32.6 | 33.2 | 34.2 | 34.0 | 34.8 | 33.2 | 33.2 |
| | 10 | 33.2 | 33.6 | 34.2 | 34.6 | 35.8 | 37.8 | 38.6 | 38.6 | 38.6 | 38.6 | 38.1 | 37.6 |
| | 11 | 35.0 | 36.0 | 36.4 | 36.6 | 37.0 | 37.0 | 36.8 | 37.1 | 37.0 | 36.5 | 35.5 | 35.5 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 28.6 | 28.0 | 28.6 | 29.2 | 30.8 | 32.0 | 32.6 | 31.2 | 31.6 | 31.7 | 28.2 | 26.7 |
| | 14 | 19.2 | 19.0 | 19.2 | 20.4 | 21.0 | 21.8 | 23.6 | 26.1 | 25.8 | 25.2 | 23.7 | 22.0 |
| | 15 | 28.4 | 29.0 | 30.0 | 30.4 | 31.0 | 32.0 | 32.2 | 32.4 | 32.5 | 32.8 | 33.8 | 34.9 |
| | 16 | 39.2 | 39.4 | 40.2 | 40.6 | 41.8 | 42.8 | 44.0 | 47.5 | 47.7 | 45.6 | 44.3 | 42.6 |
| | 17 | 30.2 | 31.0 | 32.0 | 32.6 | 37.4 | 40.6 | 41.2 | 40.9 | 40.5 | 40.7 | 40.7 | 40.6 |
| | 18 | 41.6 | 40.6 | 40.6 | 41.2 | 41.4 | 40.5 | 39.8 | 40.4 | 39.5 | 38.5 | 37.3 | 37.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 28.0 | 28.6 | 31.8 | 32.6 | 34.4 | 39.2 | 40.6 | 41.7 | 40.0 | 41.0 | 39.0 | 37.0 |
| | 21 | 39.2 | 39.4 | 40.2 | 41.6 | 42.6 | 42.2 | 40.9 | 41.2 | 40.6 | 40.0 | 39.4 | 38.9 |
| | 22 | 29.2 | 29.0 | 29.8 | 31.4 | 32.0 | 32.3 | 32.6 | 32.7 | 32.3 | 32.5 | 32.6 | 32.4 |
| | 23 | 25.4 | 27.2 | 30.4 | 32.4 | 32.7 | 34.8 | 37.6 | 37.4 | 36.6 | 37.1 | 37.5 | 37.2 |
| | 24 | 45.6 | 48.6 | 45.2 | 42.2 | 40.8 | 40.2 | 40.4 | 39.8 | 40.0 | 38.7 | 37.5 | 35.0 |
| | 25 | 30.0 | 28.8 | 29.4 | 30.8 | 32.0 | 32.5 | 32.7 | 34.8 | 35.4 | 35.9 | 35.4 | 33.5 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 21.2 | 20.4 | 20.2 | 19.8 | 20.0 | 20.4 | 21.0 | 21.8 | 22.5 | 23.6 | 23.4 | 21.4 |
| | 28 | 15.0 | 15.4 | 17.0 | 20.6 | 22.6 | 24.0 | 26.0 | 27.0 | 27.5 | 28.2 | 28.2 | 27.0 |
| | 29 | 26.6 | 26.6 | 27.0 | 28.0 | 29.4 | 30.2 | 30.6 | 30.7 | 30.7 | 31.3 | 31.0 | 30.6 |
| | 30 | 22.8 | 22.2 | 22.0 | 23.2 | 23.5 | 24.6 | 24.8 | 25.8 | 25.4 | 25.2 | 25.4 | 25.5 |
| Hourly Means | 29.63 | 29.85 | 30.45 | 31.27 | 32.26 | 33.07 | 33.59 | 34.12 | 33.97 | 34.07 | 33.42 | 32.75 | |
| DECEMBER. | 1 | 27.6 | 27.8 | 28.0 | 29.2 | 29.5 | 30.1 | 30.4 | 30.6 | 30.6 | 30.5 | 30.0 | 30.1 |
| | 2 | 26.6 | 27.0 | 27.4 | 28.0 | 29.0 | 30.0 | 31.2 | 31.5 | 31.4 | 31.4 | 30.0 | 28.5 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 32.4 | 32.4 | 32.8 | 32.8 | 34.8 | 36.8 | 37.8 | 37.2 | 36.9 | 36.2 | 35.8 | 35.4 |
| | 5 | 26.5 | 25.5 | 23.9 | 23.4 | 22.8 | 21.6 | 21.2 | 21.0 | 21.8 | 22.0 | 19.6 | 18.0 |
| | 6 | 19.6 | 20.6 | 24.2 | 25.2 | 26.8 | 27.6 | 28.4 | 28.5 | 28.5 | 28.0 | 27.2 | 27.5 |
| | 7 | 26.6 | 26.4 | 27.2 | 29.0 | 29.6 | 28.6 | 29.8 | 30.7 | 31.0 | 29.9 | 29.7 | 29.3 |
| | 8 | 28.8 | 28.8 | 26.6 | 25.4 | 26.4 | 27.4 | 29.4 | 29.2 | 29.6 | 30.6 | 30.9 | 31.4 |
| | 9 | 26.8 | 27.0 | 27.4 | 28.0 | 28.8 | 29.2 | 30.4 | 30.0 | 30.0 | 29.4 | 28.6 | 27.6 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 34.0 | 35.0 | 35.0 | 34.8 | 34.0 | 33.4 | 33.3 | 33.2 | 33.4 | 31.8 | 31.6 | 32.5 |
| | 12 | 18.2 | 15.2 | 13.6 | 14.2 | 15.4 | 15.8 | 16.0 | 16.4 | 15.2 | 14.4 | 13.2 | 12.4 |
| | 13 | 4.4 | 6.6 | 11.0 | 13.4 | 18.2 | 22.6 | 23.4 | 24.9 | 25.9 | 27.3 | 26.1 | 25.4 |
| | 14 | 26.0 | 27.2 | 28.4 | 29.4 | 31.0 | 32.2 | 32.8 | 32.6 | 32.7 | 33.5 | 33.2 | 33.0 |
| | 15 | 32.4 | 33.0 | 33.0 | 33.4 | 34.4 | 35.4 | 35.8 | 35.2 | 35.5 | 34.0 | 33.5 | 33.2 |
| | 16 | 33.8 | 33.8 | 33.8 | 33.8 | 33.8 | 33.8 | 34.0 | 34.0 | 34.2 | 34.2 | 33.0 | 32.6 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 29.8 | 29.8 | 30.2 | 30.8 | 31.4 | 31.4 | 30.4 | 31.0 | 31.4 | 31.2 | 31.8 | 30.6 |
| | 19 | 28.0 | 27.8 | 28.2 | 29.0 | 30.4 | 31.6 | 32.0 | 32.5 | 32.6 | 32.5 | 32.4 | 31.6 |
| | 20 | 32.0 | 32.0 | 32.2 | 32.4 | 32.8 | 33.2 | 35.4 | 35.7 | 35.4 | 35.5 | 35.4 | 34.8 |
| | 21 | 32.8 | 33.0 | 33.2 | 33.5 | 34.2 | 35.2 | 35.9 | 36.1 | 36.5 | 37.0 | 36.1 | 34.7 |
| | 22 | 30.0 | 29.0 | 30.0 | 30.8 | 32.2 | 33.0 | 35.4 | 37.2 | 35.4 | 35.2 | 34.6 | 34.2 |
| | 23 | 31.6 | 32.0 | 32.4 | 32.4 | 32.6 | 32.6 | 33.0 | 33.2 | 33.0 | 33.3 | 33.5 | 33.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 34.6 | 34.6 | 34.8 | 34.2 | 34.4 | 35.2 | 36.2 | 36.6 | 36.9 | 37.2 | 38.1 | 38.0 |
| | 27 | 37.8 | 37.0 | 36.0 | 37.0 | 37.8 | 38.4 | 36.8 | 36.5 | 36.7 | 37.6 | 37.2 | 35.8 |
| | 28 | 31.6 | 31.6 | 32.0 | 32.6 | 32.6 | 34.0 | 35.2 | 35.3 | 34.4 | 34.7 | 32.7 | 31.4 |
| | 29 | 25.0 | 24.6 | 24.4 | 23.2 | 23.2 | 24.6 | 24.8 | 25.5 | 25.5 | 25.8 | 25.8 | 26.0 |
| | 30 | 25.0 | 25.2 | 25.6 | 25.6 | 25.7 | 25.5 | 25.8 | 25.0 | 25.4 | 24.5 | 24.5 | 24.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 28.08 | 28.12 | 28.45 | 28.86 | 29.67 | 30.37 | 30.99 | 31.18 | 31.20 | 31.11 | 30.58 | 30.07 | |

^a Christmas Day.

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 36.4 | 36.6 | 36.6 | 37.6 | 37.8 | 37.6 | 36.8 | 36.4 | 35.3 | 35.2 | 35.0 | 34.6 | 35.20 |
| 33.4 | 33.2 | 32.5 | 31.5 | 31.0 | 30.2 | 30.0 | 30.3 | 30.4 | 30.5 | 30.4 | 29.2 | 33.42 |
| 30.2 | 29.2 | 29.2 | 29.2 | 29.0 | 28.8 | 27.5 | 26.5 | 25.6 | 25.5 | 25.4 | 25.4 | 29.05 |
| 26.1 | 25.6 | 25.3 | 25.0 | 24.8 | 24.6 | — | — | — | — | — | — | 24.69 |
| — | — | — | — | — | — | 21.9 | 21.1 | 20.9 | 20.8 | 18.7 | 20.2 | 28.63 |
| 30.2 | 29.4 | 29.8 | 29.9 | 30.1 | 29.7 | 29.6 | 29.8 | 29.8 | 29.6 | 29.8 | 29.6 | 32.47 |
| 33.4 | 33.7 | 33.5 | 32.8 | 33.2 | 33.3 | 32.4 | 32.3 | 32.6 | 32.6 | 32.4 | 32.0 | 31.37 |
| 31.2 | 31.2 | 31.1 | 32.4 | 31.0 | 31.0 | 30.9 | 31.1 | 30.5 | 30.4 | 30.0 | 29.4 | 33.18 |
| 33.8 | 33.8 | 34.3 | 34.0 | 34.8 | 35.3 | 34.6 | 33.7 | 33.5 | 33.5 | 33.3 | 33.2 | 36.22 |
| 37.8 | 37.7 | 37.5 | 37.4 | 36.3 | 35.5 | 35.0 | 34.2 | 34.2 | 34.9 | 34.5 | 35.0 | 33.23 |
| 34.8 | 32.8 | 31.8 | 32.4 | 31.0 | 29.6 | — | — | — | — | — | — | 26.14 |
| — | — | — | — | — | — | 28.5 | 28.2 | 28.0 | 27.8 | 28.2 | 28.0 | 24.06 |
| 25.7 | 25.1 | 24.8 | 25.2 | 23.4 | 22.5 | 21.8 | 21.2 | 19.4 | 19.8 | 19.7 | 19.6 | 34.59 |
| 21.5 | 22.5 | 25.2 | 25.4 | 25.2 | 26.7 | 26.2 | 26.6 | 27.2 | 27.6 | 27.8 | 28.6 | 38.42 |
| 35.7 | 36.8 | 37.4 | 38.0 | 38.0 | 37.6 | 37.2 | 36.8 | 37.5 | 38.2 | 38.8 | 38.8 | 39.30 |
| 43.4 | 41.2 | 39.0 | 36.7 | 33.1 | 31.8 | 30.8 | 29.6 | 29.5 | 29.6 | 30.8 | 30.8 | 36.66 |
| 41.2 | 41.4 | 42.1 | 43.0 | 42.0 | 41.6 | 41.6 | 40.0 | 39.8 | 40.5 | 40.9 | 40.6 | 37.27 |
| 36.1 | 35.6 | 35.9 | 36.3 | 36.0 | 35.1 | — | — | — | — | — | — | 37.07 |
| — | — | — | — | — | — | 32.8 | 31.7 | 31.2 | 31.0 | 31.0 | 28.6 | 29.77 |
| 38.0 | 37.8 | 37.8 | 38.2 | 38.3 | 38.0 | 38.0 | 38.0 | 38.4 | 39.2 | 39.7 | 39.2 | 38.35 |
| 38.0 | 37.2 | 37.2 | 36.2 | 36.2 | 33.4 | 33.2 | 31.0 | 30.5 | 30.4 | 30.0 | 30.2 | 36.43 |
| 32.4 | 31.4 | 30.1 | 29.9 | 28.6 | 27.5 | 27.5 | 26.7 | 26.0 | 25.2 | 25.2 | 25.2 | 29.56 |
| 37.8 | 38.8 | 39.8 | 41.2 | 41.8 | 42.8 | 44.6 | 44.8 | 45.0 | 44.8 | 46.4 | 46.4 | 19.52 |
| 34.2 | 33.4 | 32.6 | 32.6 | 31.3 | 31.6 | 31.6 | 31.5 | 31.2 | 31.2 | 30.4 | 28.6 | 24.63 |
| 33.4 | 32.4 | 31.8 | 30.2 | 28.5 | 28.2 | — | — | — | — | — | — | 28.11 |
| — | — | — | — | — | — | 23.0 | 22.7 | 22.8 | 22.7 | 21.2 | 21.4 | 25.37 |
| 19.5 | 18.5 | 18.4 | 17.9 | 17.7 | 17.6 | 17.7 | 18.4 | 17.8 | 17.5 | 16.0 | 15.8 | 31.64 |
| 26.3 | 25.8 | 25.6 | 25.5 | 25.4 | 25.6 | 26.0 | 26.5 | 26.4 | 26.5 | 26.6 | 26.4 | 29.85 |
| 30.4 | 29.8 | 28.6 | 28.4 | 28.2 | 27.5 | 27.0 | 26.2 | 25.1 | 24.3 | 23.3 | 23.2 | 29.88 |
| 25.5 | 25.8 | 26.6 | 26.0 | 23.4 | 25.8 | 27.8 | 27.8 | 27.5 | 27.5 | 27.4 | 27.4 | 29.73 |
| 32.55 | 32.18 | 32.10 | 32.03 | 31.39 | 31.11 | 30.54 | 30.12 | 29.85 | 29.88 | 29.73 | 29.52 | 31.64 |
| 29.0 | 28.4 | 27.6 | 27.8 | 27.6 | 27.4 | 27.5 | 27.7 | 27.7 | 27.8 | 27.2 | 27.0 | 28.63 |
| 27.4 | 26.6 | 25.7 | 25.3 | 25.6 | 25.1 | — | — | — | — | — | — | 29.17 |
| — | — | — | — | — | — | 33.0 | 32.2 | 31.8 | 31.8 | 31.8 | 31.8 | 33.40 |
| 34.4 | 34.1 | 34.1 | 34.8 | 33.8 | 31.4 | 31.8 | 31.0 | 29.8 | 29.4 | 29.0 | 26.7 | 19.45 |
| 18.5 | 17.0 | 15.8 | 13.4 | 15.5 | 12.8 | 15.5 | 16.6 | 17.6 | 18.2 | 19.3 | 19.4 | 26.98 |
| 27.8 | 28.3 | 28.0 | 28.3 | 28.6 | 28.9 | 28.7 | 28.5 | 28.0 | 27.2 | 26.4 | 26.6 | 29.07 |
| 29.0 | 28.8 | 28.5 | 28.3 | 28.4 | 28.6 | 29.0 | 30.2 | 29.9 | 30.1 | 29.8 | 29.2 | 28.78 |
| 31.6 | 31.2 | 30.2 | 30.2 | 29.7 | 27.8 | 26.0 | 25.5 | 29.2 | 28.9 | 28.6 | 27.4 | 28.00 |
| 25.5 | 24.9 | 23.2 | 21.6 | 21.6 | 20.3 | — | — | — | — | — | — | 30.18 |
| — | — | — | — | — | — | 30.8 | 31.0 | 31.5 | 32.5 | 32.6 | 33.4 | 11.31 |
| 32.4 | 29.8 | 29.0 | 30.2 | 29.3 | 29.0 | 27.2 | 24.9 | 24.0 | 24.0 | 22.4 | 20.2 | 22.64 |
| 12.0 | 11.3 | 11.2 | 10.1 | 8.8 | 8.0 | 8.3 | 5.2 | 4.5 | 4.0 | 3.8 | 4.2 | 31.79 |
| 25.5 | 26.0 | 26.3 | 26.4 | 26.8 | 27.0 | 26.6 | 26.2 | 25.9 | 26.2 | 25.4 | 25.8 | 33.65 |
| 32.5 | 32.4 | 32.4 | 32.5 | 32.5 | 32.2 | 32.8 | 32.6 | 33.0 | 32.7 | 32.5 | 32.4 | 32.16 |
| 33.2 | 33.0 | 33.1 | 32.9 | 33.0 | 33.3 | 33.0 | 33.4 | 33.2 | 33.4 | 33.4 | 33.8 | 29.73 |
| 32.1 | 31.7 | 31.2 | 30.8 | 29.8 | 29.0 | — | — | — | — | — | — | 30.30 |
| — | — | — | — | — | — | 31.1 | 30.5 | 30.3 | 30.3 | 30.1 | 30.2 | 33.77 |
| 30.2 | 29.6 | 29.4 | 29.1 | 29.2 | 28.9 | 27.9 | 28.2 | 27.8 | 28.0 | 27.7 | 27.8 | 33.61 |
| 29.5 | 29.2 | 29.1 | 29.4 | 29.2 | 30.0 | 29.8 | 28.4 | 29.9 | 31.2 | 31.6 | 31.4 | 33.15 |
| 34.5 | 34.6 | 34.4 | 34.4 | 34.0 | 33.4 | 33.2 | 33.1 | 33.0 | 33.0 | 33.0 | 33.0 | 33.55 |
| 34.3 | 33.9 | 33.6 | 32.4 | 33.0 | 32.6 | 32.5 | 31.5 | 31.0 | 30.5 | 32.2 | 31.0 | 37.07 |
| 34.2 | 34.2 | 34.3 | 34.2 | 33.5 | 33.0 | 32.8 | 32.4 | 33.3 | 32.4 | 32.2 | 32.0 | 34.92 |
| 34.4 | 34.8 | 34.5 | 35.0 | 34.9 | 34.6 | — | — | — | — | — | — | 29.80 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25.34 |
| — | — | — | — | — | — | 32.8 | 33.0 | 33.6 | 34.6 | 34.8 | 34.8 | 24.73 |
| 38.5 | 38.5 | 38.1 | 38.2 | 38.4 | 38.6 | 38.6 | 38.4 | 37.8 | 38.0 | 37.9 | 37.8 | — |
| 35.0 | 34.6 | 33.8 | 33.2 | 32.7 | 32.3 | 32.3 | 32.4 | 32.0 | 31.7 | 31.8 | 31.6 | — |
| 28.5 | 27.5 | 27.3 | 27.2 | 26.4 | 26.0 | 26.0 | 26.3 | 25.8 | 25.6 | 25.4 | 25.0 | — |
| 26.0 | 26.2 | 26.2 | 27.3 | 25.8 | 26.2 | 26.1 | 25.9 | 25.3 | 25.0 | 24.7 | 25.0 | — |
| 23.9 | 23.9 | 24.4 | 24.5 | 24.7 | 24.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 25.4 | 25.3 | 24.9 | 24.2 | 23.2 | 22.6 | — |
| 29.60 | 29.22 | 28.86 | 28.70 | 28.51 | 28.07 | 28.75 | 28.42 | 28.43 | 28.43 | 28.27 | 28.00 | 29.25 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. } Hours of Mean Toronto Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 |
| Humidity of the Air. JANUARY. | 1 | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | 93 | 100 | 100 | 96 | 84 | 88 | 90 | 90 | 87 | 81 | 80 |
| | 3 | 77 | 80 | 93 | 85 | 82 | 83 | 83 | 89 | 72 | 70 | 80 |
| | 4 | 88 | 82 | 77 | 75 | 78 | 79 | 75 | 74 | 72 | 75 | 65 |
| | 5 | 96 | 91 | 92 | 100 | 90 | 89 | 85 | 85 | 86 | 90 | 91 |
| | 6 | 95 | 95 | 98 | 95 | 89 | 78 | 93 | 92 | 87 | 85 | 83 |
| | 7 | 85 | 93 | 94 | 93 | 91 | 89 | 86 | 88 | 83 | 79 | 83 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 83 | 80 | 91 | 84 | 83 | 81 | 84 | 82 | 79 | 86 | 86 |
| | 10 | 91 | 90 | 92 | 92 | 82 | 95 | 96 | 96 | 97 | 96 | 95 |
| | 11 | 97 | 88 | 93 | 93 | 91 | 96 | 87 | 91 | 79 | 85 | 85 |
| | 12 | 86 | 90 | 88 | 88 | 83 | 85 | 84 | 91 | 93 | 92 | 92 |
| | 13 | 90 | 91 | 89 | 87 | 90 | 89 | 91 | 93 | 99 | 89 | 85 |
| | 14 | 75 | 79 | 92 | 92 | 91 | 84 | 81 | 84 | 76 | 77 | 82 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 90 | 88 | 92 | 95 | 93 | 96 | 95 | 96 | 100 | 100 | 100 |
| | 17 | 90 | 91 | 93 | 94 | 100 | 100 | 100 | 99 | 98 | 97 | 97 |
| | 18 | 94 | 94 | 95 | 97 | 64 | 69 | 86 | 82 | 77 | 76 | 63 |
| | 19 | 72 | 72 | 66 | 67 | 71 | 68 | 70 | 69 | 71 | 72 | 72 |
| | 20 | 95 | 95 | 98 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| | 21 | 100 | 100 | 100 | 96 | 100 | 85 | 83 | 81 | 79 | 52 | 57 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 92 | 94 | 91 | 91 | 86 | 86 | 89 | 84 | 86 | 88 | 80 |
| | 24 | 97 | 74 | 79 | 75 | 77 | 65 | 61 | 62 | 58 | 62 | 51 |
| | 25 | 89 | 84 | 69 | 77 | 72 | 70 | 60 | 51 | 55 | 51 | 51 |
| | 26 | 22 | 20 | 21 | 26 | 39 | 50 | 60 | 51 | 55 | 57 | 69 |
| | 27 | 92 | 87 | 87 | 87 | 86 | 87 | 90 | 81 | 80 | 78 | 78 |
| | 28 | 86 | 88 | 84 | 84 | 84 | 86 | 81 | 89 | 89 | 89 | 85 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 85 | 82 | 83 | 97 | 100 | 87 | 82 | 82 | 80 | 88 | 85 |
| | 31 | 99 | 98 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Hourly Means | 87 | 86 | 87 | 87 | 85 | 84 | 84 | 84 | 82 | 81 | 81 | |
| Tension of the Vapour. JANUARY. | 1 | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| | 2 | .117 | .133 | .139 | .141 | .138 | .153 | .156 | .153 | .146 | .133 | .126 |
| | 3 | .060 | .059 | .068 | .066 | .066 | .072 | .071 | .079 | .065 | .063 | .067 |
| | 4 | .063 | .060 | .057 | .058 | .068 | .080 | .080 | .087 | .084 | .091 | .077 |
| | 5 | .129 | .122 | .126 | .156 | .145 | .164 | .160 | .161 | .160 | .165 | .166 |
| | 6 | .166 | .171 | .174 | .172 | .164 | .157 | .191 | .198 | .194 | .194 | .191 |
| | 7 | .210 | .221 | .222 | .233 | .239 | .239 | .233 | .233 | .228 | .206 | .209 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | .100 | .095 | .107 | .112 | .120 | .122 | .140 | .136 | .136 | .141 | .139 |
| | 10 | .165 | .164 | .169 | .173 | .162 | .191 | .194 | .193 | .196 | .196 | .193 |
| | 11 | .151 | .133 | .140 | .151 | .151 | .164 | .156 | .165 | .149 | .158 | .154 |
| | 12 | .145 | .151 | .147 | .149 | .146 | .153 | .153 | .163 | .169 | .172 | .172 |
| | 13 | .171 | .171 | .170 | .167 | .172 | .170 | .173 | .174 | .175 | .138 | .125 |
| | 14 | .106 | .108 | .121 | .119 | .119 | .114 | .114 | .118 | .110 | .107 | .111 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | .146 | .136 | .134 | .127 | .124 | .125 | .125 | .126 | .134 | .133 | .131 |
| | 17 | .103 | .105 | .111 | .125 | .149 | .154 | .155 | .155 | .150 | .148 | .143 |
| | 18 | .145 | .141 | .157 | .169 | .137 | .149 | .201 | .206 | .204 | .214 | .177 |
| | 19 | .152 | .160 | .146 | .155 | .160 | .163 | .170 | .181 | .187 | .188 | .185 |
| | 20 | .214 | .213 | .226 | .221 | .228 | .234 | .249 | .248 | .246 | .225 | .243 |
| | 21 | .207 | .197 | .232 | .231 | .266 | .279 | .280 | .270 | .279 | .222 | .231 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | .142 | .160 | .156 | .155 | .157 | .165 | .173 | .167 | .177 | .178 | .166 |
| | 24 | .183 | .141 | .144 | .130 | .126 | .122 | .124 | .130 | .118 | .125 | .108 |
| | 25 | .149 | .139 | .113 | .123 | .103 | .092 | .072 | .057 | .057 | .052 | .050 |
| | 26 | .010 | .011 | .011 | .016 | .025 | .039 | .071 | .057 | .057 | .055 | .071 |
| | 27 | .139 | .122 | .122 | .121 | .124 | .133 | .140 | .136 | .136 | .129 | .130 |
| | 28 | .119 | .121 | .113 | .114 | .119 | .128 | .135 | .140 | .140 | .143 | .130 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | .105 | .093 | .097 | .136 | .155 | .150 | .158 | .158 | .160 | .168 | .151 |
| | 31 | .185 | .189 | .202 | .205 | .206 | .207 | .210 | .212 | .212 | .216 | .215 |
| Hourly Means | .138 | .135 | .139 | .143 | .145 | .151 | .157 | .158 | .157 | .152 | .149 | |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 81 | 79 | 79 | 75 | 88 | 100 | 80 | 80 | 85 | 74 | 80 | 88 | 86 |
| 80 | 77 | 83 | 85 | 83 | 83 | 82 | 83 | 83 | 88 | 85 | 93 | 83 |
| 72 | 87 | 79 | 80 | 83 | 87 | 90 | 93 | 93 | 94 | 96 | 92 | 82 |
| 90 | 93 | 92 | 90 | 91 | 95 | 93 | 88 | 91 | 89 | 92 | 91 | 91 |
| 82 | 85 | 85 | 85 | 83 | 86 | 86 | 83 | 76 | 86 | 87 | 83 | 87 |
| 100 | 90 | 93 | 89 | 83 | 87 | — | — | — | — | — | — | 86 |
| — | — | — | — | — | — | 77 | 79 | 78 | 81 | 75 | 81 | 86 |
| 85 | 96 | 94 | 77 | 90 | 93 | 93 | 91 | 93 | 93 | 93 | 90 | 87 |
| 93 | 90 | 96 | 99 | 97 | 96 | 95 | 90 | 85 | 87 | 87 | 89 | 92 |
| 90 | 93 | 90 | 87 | 88 | 85 | 85 | 84 | 84 | 84 | 83 | 84 | 88 |
| 91 | 89 | 91 | 90 | 91 | 91 | 95 | 92 | 94 | 94 | 94 | 92 | 90 |
| 83 | 84 | 86 | 88 | 86 | 86 | 86 | 87 | 87 | 87 | 88 | 80 | 87 |
| 100 | 100 | 100 | 94 | 91 | 90 | — | — | — | — | — | — | 90 |
| — | — | — | — | — | — | 98 | 97 | 97 | 95 | 95 | 90 | 90 |
| 91 | 79 | 77 | 87 | 84 | 88 | 87 | 87 | 91 | 91 | 95 | 90 | 91 |
| 98 | 99 | 95 | 97 | 100 | 98 | 97 | 94 | 94 | 95 | 97 | 95 | 97 |
| 73 | 74 | 74 | 72 | 68 | 59 | 59 | 67 | 75 | 78 | 71 | 78 | 76 |
| 89 | 90 | 83 | 95 | 96 | 99 | 99 | 97 | 98 | 97 | 100 | 97 | 83 |
| 100 | 98 | 96 | 97 | 99 | 100 | 99 | 100 | 100 | 100 | 100 | 100 | 99 |
| 70 | 72 | 77 | 82 | 86 | 88 | — | — | — | — | — | — | 81 |
| — | — | — | — | — | — | 78 | 79 | 77 | 78 | 83 | 90 | 86 |
| 83 | 84 | 95 | 80 | 82 | 84 | 88 | 90 | 89 | 85 | 80 | 80 | 75 |
| 69 | 77 | 77 | 78 | 77 | 79 | 78 | 90 | 92 | 81 | 80 | 88 | 48 |
| 40 | 46 | 52 | 33 | 32 | 30 | 23 | 09 | 23 | 38 | 15 | 22 | 63 |
| 70 | 72 | 78 | 75 | 85 | 84 | 83 | 80 | 83 | 90 | 87 | 90 | 84 |
| 86 | 76 | 76 | 78 | 80 | 89 | 88 | 88 | 87 | 87 | 91 | 91 | 78 |
| 81 | 80 | 83 | 77 | 78 | 77 | — | — | — | — | — | — | 90 |
| — | — | — | — | — | — | 70 | 53 | 52 | 53 | 52 | 81 | 90 |
| 93 | 94 | 94 | 95 | 97 | 97 | 91 | 82 | 84 | 100 | 96 | 98 | 90 |
| 100 | 100 | 93 | 94 | 100 | 76 | 65 | 64 | 63 | 65 | 64 | 68 | 90 |
| 84 | 85 | 85 | 84 | 85 | 86 | 83 | 82 | 83 | 84 | 83 | 85 | 84 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| ·122 | ·117 | ·114 | ·103 | ·116 | ·127 | ·090 | ·088 | ·089 | ·072 | ·070 | ·074 | ·118 |
| ·061 | ·057 | ·064 | ·068 | ·070 | ·068 | ·065 | ·064 | ·066 | ·066 | ·064 | ·068 | ·066 |
| ·082 | ·077 | ·096 | ·095 | ·091 | ·097 | ·099 | ·104 | ·107 | ·113 | ·118 | ·120 | ·087 |
| ·166 | ·167 | ·164 | ·141 | ·147 | ·131 | ·124 | ·116 | ·119 | ·122 | ·141 | ·155 | ·146 |
| ·191 | ·195 | ·198 | ·198 | ·197 | ·202 | ·200 | ·202 | ·197 | ·206 | ·211 | ·207 | ·190 |
| ·230 | ·190 | ·192 | ·181 | ·169 | ·179 | — | — | — | — | — | — | 186 |
| — | — | — | — | — | — | ·104 | ·105 | ·103 | ·105 | ·093 | ·099 | 138 |
| ·130 | ·145 | ·144 | ·123 | ·150 | ·156 | ·165 | ·163 | ·163 | ·163 | ·165 | ·162 | ·174 |
| ·178 | ·171 | ·178 | ·181 | ·180 | ·180 | ·175 | ·165 | ·154 | ·156 | ·144 | ·138 | ·152 |
| ·159 | ·163 | ·159 | ·153 | ·153 | ·151 | ·149 | ·147 | ·147 | ·146 | ·144 | ·144 | ·166 |
| ·171 | ·169 | ·171 | ·172 | ·173 | ·175 | ·180 | ·173 | ·177 | ·175 | ·175 | ·175 | ·135 |
| ·111 | ·111 | ·113 | ·112 | ·106 | ·103 | ·103 | ·109 | ·110 | ·115 | ·117 | ·112 | 127 |
| ·139 | ·139 | ·136 | ·131 | ·131 | ·134 | — | — | — | — | — | — | 121 |
| — | — | — | — | — | — | ·132 | ·138 | ·147 | ·147 | ·150 | ·150 | 143 |
| ·122 | ·098 | ·096 | ·119 | ·129 | ·125 | ·116 | ·108 | ·107 | ·108 | ·110 | ·103 | 161 |
| ·143 | ·145 | ·142 | ·145 | ·148 | ·149 | ·153 | ·149 | ·149 | ·153 | ·159 | ·148 | 200 |
| ·147 | ·153 | ·152 | ·161 | ·147 | ·137 | ·139 | ·132 | ·147 | ·151 | ·153 | ·159 | 229 |
| ·226 | ·225 | ·218 | ·244 | ·228 | ·219 | ·217 | ·228 | ·234 | ·215 | ·237 | ·238 | 208 |
| ·239 | ·218 | ·220 | ·225 | ·230 | ·232 | ·227 | ·225 | ·226 | ·232 | ·220 | ·220 | 168 |
| ·225 | ·214 | ·215 | ·210 | ·212 | ·209 | — | — | — | — | — | — | 135 |
| — | — | — | — | — | — | ·132 | ·133 | ·131 | ·128 | ·132 | ·141 | 055 |
| ·166 | ·167 | ·187 | ·160 | ·161 | ·168 | ·181 | ·182 | ·183 | ·176 | ·166 | ·160 | 075 |
| ·122 | ·133 | ·136 | ·135 | ·136 | ·143 | ·135 | ·154 | ·157 | ·140 | ·136 | ·149 | 130 |
| ·035 | ·037 | ·040 | ·024 | ·022 | ·021 | ·015 | ·006 | ·014 | ·023 | ·009 | ·012 | 103 |
| ·076 | ·087 | ·095 | ·096 | ·119 | ·119 | ·109 | ·100 | ·109 | ·131 | ·126 | ·137 | 155 |
| ·140 | ·123 | ·123 | ·129 | ·137 | ·139 | ·129 | ·129 | ·128 | ·128 | ·129 | ·126 | 159 |
| ·097 | ·087 | ·098 | ·093 | ·097 | ·097 | — | — | — | — | — | — | 075 |
| — | — | — | — | — | — | ·058 | ·052 | ·055 | ·050 | ·055 | ·097 | 069 |
| ·159 | ·164 | ·165 | ·154 | ·163 | ·169 | ·170 | ·162 | ·167 | ·187 | ·182 | ·184 | 143 |
| ·195 | ·190 | ·178 | ·178 | ·168 | ·110 | ·083 | ·073 | ·070 | ·071 | ·069 | ·069 | 147 |
| ·147 | ·140 | ·146 | ·144 | ·145 | ·144 | ·133 | ·131 | ·133 | ·134 | ·134 | ·136 | 143 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. } | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. FEBRUARY. | 1 | 62 | 59 | 57 | 58 | 57 | 59 | 55 | 57 | 56 | 65 | 56 | 67 |
| | 2 | 22 | 27 | 22 | 65 | 55 | 31 | 32 | 40 | 51 | 48 | 58 | 64 |
| | 3 | 86 | 86 | 81 | 88 | 82 | 81 | 83 | 79 | 75 | 75 | 75 | 67 |
| | 4 | 81 | 81 | 83 | 84 | 83 | 85 | 93 | 82 | 86 | 81 | 87 | 84 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 56 | 52 | 44 | 47 | 48 | 47 | 42 | 51 | 50 | 49 | 44 | 24 |
| | 7 | 54 | 49 | 50 | 48 | 44 | 47 | 46 | 49 | 48 | 49 | 48 | 32 |
| | 8 | 62 | 61 | 60 | 75 | 73 | 52 | 72 | 46 | 52 | 53 | 54 | 44 |
| | 9 | 60 | 61 | 60 | 47 | 54 | 54 | 57 | 53 | 55 | 50 | 51 | 45 |
| | 10 | 64 | 64 | 64 | 63 | 67 | 76 | 78 | 81 | 75 | 82 | 90 | 100 |
| | 11 | 82 | 86 | 54 | 57 | 58 | 56 | 61 | 45 | 46 | 42 | 45 | 34 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 56 | 58 | 54 | 62 | 58 | 55 | 59 | 58 | 50 | 55 | 49 | 36 |
| | 14 | 55 | 38 | 60 | 76 | 44 | 34 | 80 | 73 | 70 | 68 | 65 | 62 |
| | 15 | 44 | 43 | 72 | 43 | 44 | 44 | 45 | 43 | 48 | 49 | 55 | 48 |
| | 16 | 38 | 44 | 45 | 38 | 45 | 33 | 44 | 54 | 64 | 69 | 46 | 23 |
| | 17 | — | — | 04 | 33 | 32 | 30 | 35 | 29 | 36 | 29 | 36 | 40 |
| | 18 | — | — | — | 67 | 33 | 40 | 48 | 53 | 42 | 39 | 43 | 53 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 36 | 54 | 65 | 60 | 55 | 54 | 63 | 52 | 63 | 64 | 65 | 62 |
| | 21 | 67 | 71 | 75 | 80 | 84 | 85 | 76 | 75 | 71 | 78 | 76 | 69 |
| | 22 | 74 | 74 | 70 | 60 | 58 | 55 | 51 | 45 | 46 | 46 | 47 | 55 |
| | 23 | 31 | 12 | 39 | 42 | 42 | 21 | 67 | 42 | 46 | 39 | 41 | 33 |
| | 24 | 47 | 52 | 46 | 63 | 63 | 62 | 70 | 69 | 66 | 61 | 66 | 50 |
| | 25 | 65 | 67 | 70 | 73 | 75 | 77 | 77 | 73 | 79 | 74 | 83 | 80 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 68 | 70 | 68 | 68 | 65 | 65 | 78 | 69 | 74 | 70 | 79 | 74 |
| | 28 | 76 | 73 | 65 | 69 | 52 | 68 | 69 | 66 | 68 | 64 | 61 | 62 |
| Hourly Means | 58 | 58 | 57 | 61 | 57 | 55 | 62 | 58 | 59 | 58 | 59 | 55 | |
| Tension of the Vapour. FEBRUARY. | 1 | .062 | .056 | .055 | .056 | .055 | .060 | .058 | .060 | .060 | .071 | .061 | .065 |
| | 2 | .010 | .013 | .012 | .041 | .035 | .024 | .029 | .036 | .053 | .051 | .065 | .067 |
| | 3 | .110 | .111 | .105 | .114 | .111 | .112 | .114 | .114 | .109 | .110 | .110 | .095 |
| | 4 | .084 | .090 | .100 | .110 | .113 | .128 | .160 | .146 | .145 | .139 | .150 | .135 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | .048 | .042 | .036 | .039 | .041 | .042 | .042 | .049 | .044 | .044 | .036 | .019 |
| | 7 | .036 | .034 | .035 | .035 | .034 | .039 | .040 | .048 | .048 | .050 | .050 | .032 |
| | 8 | .047 | .048 | .046 | .058 | .062 | .050 | .073 | .047 | .053 | .056 | .056 | .045 |
| | 9 | .038 | .041 | .044 | .041 | .051 | .054 | .063 | .059 | .063 | .057 | .057 | .050 |
| | 10 | .067 | .069 | .069 | .075 | .083 | .094 | .102 | .106 | .102 | .116 | .132 | .146 |
| | 11 | .152 | .137 | .072 | .068 | .068 | .065 | .072 | .053 | .055 | .053 | .054 | .042 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | .046 | .047 | .072 | .054 | .068 | .056 | .067 | .067 | .055 | .063 | .054 | .040 |
| | 14 | .042 | .028 | .043 | .055 | .033 | .026 | .065 | .058 | .057 | .054 | .052 | .049 |
| | 15 | .027 | .028 | .047 | .032 | .035 | .037 | .043 | .044 | .050 | .050 | .055 | .048 |
| | 16 | .025 | .029 | .028 | .026 | .034 | .029 | .038 | .049 | .060 | .063 | .040 | .020 |
| | 17 | .000 | .000 | .000 | .016 | .021 | .022 | .028 | .025 | .031 | .027 | .029 | .032 |
| | 18 | .000 | .000 | .000 | .033 | .021 | .028 | .039 | .046 | .038 | .034 | .039 | .046 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | .022 | .029 | .042 | .049 | .056 | .059 | .075 | .070 | .087 | .084 | .086 | .079 |
| | 21 | .056 | .064 | .077 | .091 | .113 | .123 | .111 | .118 | .111 | .118 | .116 | .099 |
| | 22 | .080 | .081 | .079 | .071 | .070 | .066 | .060 | .051 | .053 | .053 | .051 | .054 |
| | 23 | .019 | .007 | .026 | .032 | .036 | .021 | .065 | .042 | .045 | .042 | .044 | .035 |
| | 24 | .033 | .036 | .036 | .053 | .065 | .069 | .081 | .096 | .100 | .092 | .101 | .076 |
| | 25 | .087 | .088 | .091 | .097 | .106 | .122 | .132 | .136 | .154 | .145 | .153 | .145 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | .080 | .079 | .077 | .080 | .080 | .085 | .107 | .102 | .106 | .100 | .114 | .163 |
| | 28 | .084 | .081 | .076 | .081 | .067 | .097 | .109 | .106 | .105 | .093 | .086 | .080 |
| Hourly Means | .052 | .052 | .053 | .059 | .061 | .063 | .074 | .072 | .074 | .074 | .075 | .067 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 61 | 49 | 42 | 40 | 38 | 38 | 37 | 36 | 37 | 32 | 28 | 51 | 50 |
| 68 | 74 | 68 | 62 | 71 | 64 | 67 | 70 | 70 | 78 | 79 | 77 | 57 |
| 78 | 79 | 78 | 78 | 77 | 73 | 76 | 72 | 76 | 80 | 69 | 78 | 78 |
| 88 | 83 | 85 | 84 | 81 | 68 | — | — | — | — | — | — | 79 |
| — | — | — | — | — | — | 77 | 73 | 65 | 59 | 55 | 60 | — |
| 42 | 40 | 39 | 39 | 39 | 42 | 43 | 47 | 42 | 39 | 40 | 51 | 44 |
| 45 | 44 | 47 | 50 | 47 | 47 | 55 | 55 | 53 | 52 | 59 | 61 | 49 |
| 59 | 62 | 47 | 60 | 58 | 58 | 57 | 70 | 72 | 58 | 61 | 54 | 59 |
| 60 | 60 | 56 | 55 | 57 | 48 | 45 | 47 | 52 | 58 | 53 | 72 | 55 |
| 86 | 91 | 94 | 98 | 98 | 96 | 89 | 95 | 94 | 84 | 79 | 82 | 83 |
| 48 | 53 | 47 | 46 | 50 | 49 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 49 | 46 | 49 | 57 | 51 | 56 | 53 |
| 47 | 46 | 50 | 43 | 40 | 50 | 50 | 49 | 46 | 44 | 45 | 32 | 50 |
| 61 | 55 | 51 | 57 | 57 | 46 | 45 | 45 | 45 | 38 | 38 | 48 | 55 |
| 43 | 42 | 44 | 42 | 54 | 54 | 47 | 47 | 42 | 40 | 40 | 41 | 46 |
| 35 | 32 | 37 | 28 | 24 | 20 | — | 02 | — | — | — | — | 38 |
| 43 | 47 | 46 | 36 | 33 | 32 | 28 | 25 | 18 | 15 | 05 | 00 | 30 |
| 47 | 47 | 45 | 44 | 46 | 43 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65 | 65 | 48 | 66 | 60 | 55 | 52 |
| 64 | 64 | 65 | 64 | 63 | 62 | 62 | 66 | 65 | 63 | 52 | 64 | 60 |
| 75 | 75 | 77 | 91 | 57 | 71 | 71 | 69 | 70 | 71 | 69 | 65 | 74 |
| 37 | 35 | 28 | 28 | 16 | 10 | 31 | 32 | 32 | 26 | 32 | 43 | 43 |
| 35 | 41 | 33 | 23 | 35 | 39 | 37 | 37 | 37 | 40 | 24 | 45 | 37 |
| 56 | 60 | 61 | 64 | 66 | 64 | 64 | 63 | 63 | 61 | 62 | 62 | 61 |
| 82 | 83 | 85 | 82 | 82 | 81 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 92 | 86 | 86 | 85 | 75 | 83 | 79 |
| 61 | 72 | 72 | 64 | 83 | 80 | 86 | 71 | 74 | 73 | 73 | 72 | 72 |
| 59 | 51 | 50 | 50 | 51 | 54 | 52 | 54 | 50 | 53 | 56 | 65 | 60 |
| 58 | 58 | 56 | 56 | 55 | 54 | 55 | 55 | 56 | 55 | 52 | 55 | 57 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·057 | ·042 | ·030 | ·027 | ·025 | ·025 | ·024 | ·020 | ·020 | ·018 | ·015 | ·025 | ·044 |
| ·066 | ·072 | ·074 | ·072 | ·080 | ·076 | ·080 | ·086 | ·086 | ·096 | ·098 | ·095 | ·059 |
| ·108 | ·110 | ·108 | ·108 | ·105 | ·100 | ·100 | ·087 | ·075 | ·080 | ·073 | ·082 | ·102 |
| ·129 | ·110 | ·119 | ·119 | ·114 | ·096 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·091 | ·085 | ·074 | ·066 | ·057 | ·056 | ·109 |
| ·028 | ·027 | ·025 | ·025 | ·025 | ·027 | ·027 | ·031 | ·027 | ·026 | ·026 | ·035 | ·034 |
| ·040 | ·036 | ·041 | ·044 | ·041 | ·040 | ·044 | ·043 | ·041 | ·041 | ·045 | ·046 | ·041 |
| ·055 | ·055 | ·057 | ·047 | ·044 | ·043 | ·039 | ·048 | ·043 | ·036 | ·038 | ·034 | ·049 |
| ·062 | ·057 | ·051 | ·045 | ·045 | ·036 | ·035 | ·038 | ·043 | ·045 | ·052 | ·075 | ·050 |
| ·143 | ·158 | ·165 | ·177 | ·180 | ·185 | ·192 | ·211 | ·209 | ·188 | ·162 | ·165 | ·137 |
| ·051 | ·052 | ·045 | ·043 | ·044 | ·044 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·041 | ·039 | ·042 | ·048 | ·045 | ·047 | ·060 |
| ·047 | ·045 | ·047 | ·051 | ·047 | ·044 | ·043 | ·041 | ·039 | ·037 | ·038 | ·025 | ·050 |
| ·046 | ·042 | ·036 | ·040 | ·037 | ·029 | ·028 | ·029 | ·028 | ·024 | ·024 | ·030 | ·040 |
| ·037 | ·034 | ·032 | ·030 | ·045 | ·036 | ·034 | ·034 | ·029 | ·027 | ·027 | ·028 | ·037 |
| ·027 | ·020 | ·024 | ·016 | ·012 | ·008 | ·000 | ·000 | ·000 | ·000 | ·000 | ·000 | ·023 |
| ·031 | ·031 | ·030 | ·022 | ·019 | ·018 | ·015 | ·013 | ·009 | ·007 | ·002 | ·000 | ·018 |
| ·033 | ·033 | ·034 | ·033 | ·034 | ·032 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·066 | ·065 | ·043 | ·056 | ·045 | ·034 | ·035 |
| ·078 | ·074 | ·061 | ·049 | ·049 | ·044 | ·047 | ·054 | ·054 | ·051 | ·043 | ·049 | ·058 |
| ·105 | ·106 | ·103 | ·108 | ·055 | ·059 | ·063 | ·066 | ·074 | ·080 | ·078 | ·072 | ·090 |
| ·032 | ·028 | ·021 | ·018 | ·010 | ·095 | ·016 | ·018 | ·019 | ·016 | ·019 | ·028 | ·042 |
| ·032 | ·028 | ·021 | ·021 | ·023 | ·026 | ·024 | ·023 | ·024 | ·026 | ·016 | ·032 | ·039 |
| ·080 | ·085 | ·078 | ·084 | ·091 | ·084 | ·081 | ·081 | ·081 | ·077 | ·079 | ·080 | ·076 |
| ·147 | ·148 | ·150 | ·143 | ·141 | ·138 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·091 | ·128 | ·127 | ·120 | ·102 | ·101 | ·125 |
| ·086 | ·100 | ·097 | ·083 | ·107 | ·100 | ·109 | ·084 | ·086 | ·083 | ·084 | ·081 | ·092 |
| ·070 | ·061 | ·057 | ·055 | ·053 | ·054 | ·052 | ·053 | ·050 | ·051 | ·048 | ·055 | ·072 |
| ·066 | ·065 | ·063 | ·061 | ·059 | ·056 | ·056 | ·057 | ·055 | ·054 | ·051 | ·053 | ·061 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|--------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | MARCH. | 1 | 64 | 64 | 60 | 53 | 48 | 52 | 49 | 54 | 48 | 49 | 44 | 47 |
| | | 2 | 46 | 46 | 42 | 45 | 45 | 42 | 44 | 45 | 49 | 45 | 45 | 45 |
| | | 3 | 58 | 59 | 73 | 69 | 56 | 62 | 47 | 50 | 49 | 38 | 38 | 47 |
| | | 4 | 39 | 41 | 51 | 49 | 47 | 47 | 41 | 39 | 37 | 39 | 32 | 35 |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 6 | 31 | 36 | 30 | 21 | 47 | 43 | 54 | — | 79 | 64 | 65 | 69 |
| | | 7 | 67 | 33 | 81 | 99 | 80 | 70 | 60 | 49 | 60 | 64 | 58 | 50 |
| | | 8 | 84 | 83 | 72 | 72 | 65 | 66 | 64 | 67 | 66 | 70 | 76 | 77 |
| | | 9 | 78 | 86 | 73 | 76 | 70 | 60 | 69 | 69 | 65 | 61 | 62 | 62 |
| | | 10 | 71 | 85 | 100 | 100 | 98 | 99 | 95 | 96 | 93 | 91 | 93 | 91 |
| | | 11 | 85 | 79 | 70 | 69 | 70 | 70 | 69 | 75 | 68 | 68 | 69 | 63 |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 13 | 96 | 94 | 93 | 92 | 77 | 84 | 92 | 92 | 87 | 90 | 84 | 88 |
| | | 14 | 79 | 77 | 76 | 75 | 75 | 74 | 74 | 62 | 57 | 63 | 58 | 68 |
| | | 15 | 78 | 73 | 75 | 82 | 74 | 71 | 67 | 70 | 66 | 76 | 65 | 70 |
| | | 16 | 88 | 89 | 82 | 82 | 77 | 74 | 80 | 71 | 69 | 78 | 78 | 79 |
| | | 17 | 85 | 86 | 81 | 82 | 67 | 65 | 67 | 70 | 67 | 65 | 65 | 64 |
| | | 18 | 82 | 81 | 78 | 79 | 78 | 73 | 69 | 72 | 69 | 74 | 73 | 65 |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 20 | 91 | 83 | 87 | 87 | 79 | 74 | 72 | 63 | 63 | 64 | 75 | 73 |
| | | 21 | 76 | 79 | 79 | 63 | 68 | 65 | 64 | 58 | 62 | 59 | 64 | 65 |
| | | 22 | 92 | 93 | 73 | 81 | 75 | 72 | 63 | 70 | 85 | 69 | 66 | 63 |
| | | 23 | 76 | 76 | 78 | 82 | 84 | 79 | 68 | 83 | 90 | 90 | 82 | 88 |
| | | 24 | 83 | 82 | 73 | 69 | 64 | 68 | 65 | 60 | 56 | 60 | 57 | 60 |
| | | 25 | 87 | 46 | 67 | 74 | 73 | 69 | 75 | 85 | 80 | 85 | 87 | 82 |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 27 | 65 | 66 | 69 | 80 | 80 | 92 | 87 | 87 | 86 | 84 | 87 | 89 |
| | | 28 | 94 | 94 | 83 | 89 | 93 | 95 | 94 | 96 | 87 | 80 | 80 | 78 |
| | | 29 | 77 | 75 | 71 | 63 | 71 | 69 | 63 | 61 | 59 | 66 | 55 | 57 |
| | | 30 | 62 | 66 | 67 | 68 | 96 | 57 | 62 | 98 | 62 | 63 | 68 | 69 |
| | | 31 | 86 | 88 | 88 | 96 | 90 | 91 | 94 | 90 | 93 | 94 | 95 | 89 |
| | | Hourly Means | | 75 | 73 | 73 | 74 | 72 | 70 | 68 | 70 | 69 | 68 | 67 |
| Tension of the Vapour. | MARCH. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | | 1 | ·055 | ·056 | ·056 | ·055 | ·051 | ·055 | ·055 | ·061 | ·055 | ·055 | ·048 | ·051 |
| | | 2 | ·030 | ·032 | ·030 | ·034 | ·040 | ·041 | ·045 | ·042 | ·054 | ·050 | ·050 | ·045 |
| | | 3 | ·043 | ·045 | ·061 | ·063 | ·062 | ·073 | ·056 | ·058 | ·059 | ·047 | ·046 | ·054 |
| | | 4 | ·023 | ·022 | ·033 | ·045 | ·052 | ·056 | ·052 | ·052 | ·051 | ·053 | ·044 | ·045 |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 6 | ·020 | ·023 | ·021 | ·017 | ·045 | ·046 | ·065 | — | ·110 | ·090 | ·092 | ·096 |
| | | 7 | ·031 | ·016 | ·051 | ·083 | ·076 | ·076 | ·071 | ·067 | ·087 | ·095 | ·091 | ·079 |
| | | 8 | ·100 | ·108 | ·100 | ·100 | ·096 | ·160 | ·099 | ·107 | ·106 | ·112 | ·119 | ·120 |
| | | 9 | ·085 | ·083 | ·084 | ·091 | ·092 | ·089 | ·112 | ·121 | ·109 | ·108 | ·106 | ·105 |
| | | 10 | ·121 | ·137 | ·162 | ·171 | ·170 | ·171 | ·166 | ·172 | ·168 | ·170 | ·174 | ·172 |
| | | 11 | ·151 | ·135 | ·116 | ·109 | ·113 | ·115 | ·118 | ·124 | ·117 | ·116 | ·117 | ·119 |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 13 | ·164 | ·164 | ·165 | ·168 | ·156 | ·164 | ·185 | ·194 | ·181 | ·189 | ·170 | ·168 |
| | | 14 | ·071 | ·071 | ·074 | ·076 | ·080 | ·083 | ·091 | ·084 | ·085 | ·102 | ·104 | ·108 |
| | | 15 | ·108 | ·098 | ·095 | ·108 | ·115 | ·120 | ·116 | ·124 | ·107 | ·119 | ·098 | ·100 |
| | | 16 | ·066 | ·069 | ·080 | ·095 | ·098 | ·104 | ·122 | ·111 | ·106 | ·112 | ·111 | ·110 |
| | | 17 | ·100 | ·105 | ·106 | ·115 | ·104 | ·105 | ·117 | ·125 | ·119 | ·116 | ·112 | ·102 |
| | | 18 | ·093 | ·093 | ·097 | ·105 | ·107 | ·107 | ·106 | ·112 | ·107 | ·114 | ·108 | ·100 |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 20 | ·084 | ·085 | ·107 | ·115 | ·113 | ·114 | ·115 | ·101 | ·101 | ·104 | ·110 | ·108 |
| | | 21 | ·080 | ·081 | ·097 | ·083 | ·093 | ·090 | ·092 | ·088 | ·095 | ·098 | ·102 | ·102 |
| | | 22 | ·073 | ·079 | ·085 | ·106 | ·110 | ·112 | ·103 | ·122 | ·132 | ·120 | ·127 | ·119 |
| | | 23 | ·056 | ·056 | ·059 | ·065 | ·072 | ·071 | ·065 | ·076 | ·085 | ·087 | ·074 | ·078 |
| | | 24 | ·064 | ·067 | ·067 | ·070 | ·073 | ·085 | ·083 | ·075 | ·082 | ·087 | ·085 | ·085 |
| | | 25 | ·078 | ·051 | ·077 | ·090 | ·096 | ·099 | ·110 | ·126 | ·134 | ·128 | ·123 | ·110 |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 27 | ·097 | ·099 | ·102 | ·121 | ·121 | ·133 | ·128 | ·131 | ·131 | ·129 | ·134 | ·138 |
| | | 28 | ·169 | ·169 | ·162 | ·175 | ·194 | ·206 | ·211 | ·226 | ·194 | ·177 | ·161 | ·146 |
| | | 29 | ·086 | ·094 | ·103 | ·107 | ·114 | ·119 | ·122 | ·126 | ·122 | ·139 | ·115 | ·116 |
| | | 30 | ·067 | ·070 | ·076 | ·080 | ·111 | ·084 | ·094 | ·111 | ·104 | ·108 | ·108 | ·108 |
| | | 31 | ·126 | ·129 | ·132 | ·144 | ·139 | ·143 | ·147 | ·146 | ·148 | ·147 | ·146 | ·137 |
| Hourly Means | | ·083 | ·083 | ·089 | ·096 | ·100 | ·102 | ·105 | ·111 | ·109 | ·110 | ·106 | ·104 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 44 | 47 | 39 | 53 | 52 | 53 | 48 | 47 | 43 | 42 | 42 | 43 | 49 |
| 48 | 47 | 44 | 37 | 36 | 23 | 23 | 60 | 44 | 46 | 47 | 53 | 44 |
| 47 | 53 | 52 | 50 | 53 | 53 | 48 | 47 | 44 | 49 | 47 | 44 | 51 |
| 31 | 37 | 37 | 30 | 36 | 38 | — | — | — | — | — | — | 38 |
| — | — | — | — | — | — | 32 | 35 | 37 | 37 | 32 | 31 | 63 |
| 71 | 75 | 67 | 93 | 85 | 86 | 79 | 77 | 78 | 56 | 72 | — | 73 |
| 73 | 82 | 87 | 91 | 91 | 86 | 91 | 81 | 82 | 83 | 74 | 69 | 78 |
| 81 | 81 | 80 | 85 | 79 | 82 | 83 | 85 | 86 | 88 | 87 | 82 | 74 |
| 75 | 81 | 82 | 81 | 86 | 86 | 81 | 77 | 77 | 72 | 71 | 73 | 92 |
| 95 | 94 | 94 | 96 | 97 | 95 | 95 | 94 | 91 | 81 | 85 | 88 | 78 |
| 64 | 69 | 71 | 74 | 80 | 82 | — | — | — | — | — | — | 84 |
| — | — | — | — | — | — | 91 | 93 | 95 | 95 | 95 | 96 | 73 |
| 95 | 86 | 75 | 74 | 71 | 74 | 79 | 77 | 80 | 74 | 78 | 92 | 79 |
| 65 | 68 | 72 | 72 | 80 | 79 | 76 | 75 | 75 | 85 | 90 | 87 | 84 |
| 74 | 72 | 78 | 94 | 82 | 93 | 77 | 96 | 90 | 85 | 91 | 86 | 74 |
| 83 | 84 | 90 | 91 | 92 | 90 | 92 | 91 | 91 | 91 | 88 | 88 | 81 |
| 62 | 61 | 69 | 72 | 72 | 78 | 82 | 78 | 81 | 82 | 90 | 80 | 72 |
| 67 | 85 | 82 | 87 | 88 | 89 | — | — | — | — | — | — | 67 |
| — | — | — | — | — | — | 92 | 93 | 86 | 89 | 91 | 91 | 72 |
| 66 | 63 | 67 | 72 | 66 | 66 | 71 | 72 | 67 | 69 | 69 | 76 | 67 |
| 64 | 70 | 64 | 65 | 64 | 63 | 64 | 73 | 70 | 68 | 69 | 82 | 73 |
| 47 | 57 | 65 | 72 | 73 | 70 | 73 | 67 | 67 | 84 | 95 | 74 | 82 |
| 88 | 81 | 81 | 88 | 86 | 83 | 83 | 79 | 78 | 85 | 86 | 80 | 71 |
| 73 | 87 | 71 | 73 | 81 | 72 | 69 | 69 | 71 | 73 | 86 | 91 | 78 |
| 76 | 76 | 73 | 75 | 75 | 93 | — | — | — | — | — | — | 88 |
| — | — | — | — | — | — | 94 | 91 | 93 | 86 | 71 | 65 | 80 |
| 91 | 90 | 95 | 95 | 95 | 95 | 98 | 96 | 95 | 95 | 96 | 93 | 67 |
| 69 | 69 | 77 | 75 | 72 | 74 | 67 | 67 | 65 | 72 | 74 | 74 | 75 |
| 65 | 60 | 63 | 64 | 70 | 69 | 69 | 83 | 66 | 66 | 68 | 68 | 91 |
| 70 | 69 | 65 | 64 | 70 | 71 | 94 | 92 | 94 | 92 | 96 | 87 | 73 |
| 95 | 96 | 93 | 96 | 95 | 82 | 95 | 91 | 94 | 90 | 94 | 79 | 70 |
| 70 | 72 | 72 | 75 | 75 | 75 | 76 | 77 | 76 | 75 | 77 | 73 | 73 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·046 | ·046 | ·039 | ·051 | ·047 | ·047 | ·040 | ·038 | ·034 | ·030 | ·030 | ·028 | ·047 |
| ·047 | ·044 | ·037 | ·029 | ·028 | ·013 | ·013 | ·036 | ·029 | ·033 | ·034 | ·038 | ·036 |
| ·052 | ·056 | ·054 | ·050 | ·052 | ·049 | ·040 | ·038 | ·036 | ·037 | ·033 | ·028 | ·050 |
| ·034 | ·039 | ·035 | ·028 | ·030 | ·030 | — | — | — | — | — | — | ·036 |
| — | — | — | — | — | — | ·023 | ·027 | ·026 | ·027 | ·023 | ·021 | ·058 |
| ·080 | ·078 | ·063 | ·081 | ·074 | ·067 | ·053 | ·043 | ·051 | ·028 | ·034 | — | ·068 |
| ·088 | ·078 | ·076 | ·073 | ·067 | ·064 | ·062 | ·052 | ·057 | ·060 | ·066 | ·071 | ·107 |
| ·126 | ·124 | ·121 | ·124 | ·113 | ·108 | ·104 | ·101 | ·098 | ·102 | ·095 | ·093 | ·101 |
| ·094 | ·082 | ·085 | ·082 | ·085 | ·097 | ·102 | ·118 | ·122 | ·117 | ·119 | ·124 | ·170 |
| ·180 | ·179 | ·179 | ·186 | ·184 | ·182 | ·182 | ·183 | ·178 | ·162 | ·165 | ·163 | ·123 |
| ·107 | ·102 | ·098 | ·093 | ·086 | ·076 | — | — | — | — | — | — | ·130 |
| — | — | — | — | — | — | ·153 | ·156 | ·157 | ·160 | ·160 | ·164 | ·100 |
| ·145 | ·117 | ·094 | ·091 | ·084 | ·079 | ·077 | ·070 | ·068 | ·071 | ·074 | ·070 | ·096 |
| ·096 | ·101 | ·105 | ·103 | ·116 | ·112 | ·121 | ·120 | ·123 | ·130 | ·131 | ·121 | ·101 |
| ·102 | ·100 | ·102 | ·098 | ·073 | ·079 | ·091 | ·102 | ·061 | ·060 | ·063 | ·060 | ·103 |
| ·112 | ·111 | ·115 | ·107 | ·108 | ·100 | ·101 | ·099 | ·099 | ·100 | ·099 | ·099 | ·101 |
| ·094 | ·090 | ·096 | ·102 | ·102 | ·103 | ·102 | ·094 | ·091 | ·089 | ·091 | ·089 | ·101 |
| ·092 | ·109 | ·107 | ·108 | ·107 | ·103 | — | — | — | — | — | — | ·093 |
| — | — | — | — | — | — | ·102 | ·096 | ·085 | ·086 | ·085 | ·085 | ·088 |
| ·094 | ·088 | ·089 | ·088 | ·083 | ·079 | ·083 | ·082 | ·069 | ·071 | ·071 | ·081 | ·090 |
| ·094 | ·097 | ·090 | ·090 | ·083 | ·082 | ·081 | ·091 | ·084 | ·075 | ·072 | ·072 | ·072 |
| ·074 | ·073 | ·078 | ·081 | ·079 | ·074 | ·073 | ·065 | ·063 | ·074 | ·078 | ·058 | ·076 |
| ·077 | ·072 | ·071 | ·078 | ·078 | ·077 | ·077 | ·071 | ·069 | ·071 | ·069 | ·063 | ·099 |
| ·089 | ·080 | ·079 | ·076 | ·078 | ·069 | ·065 | ·065 | ·069 | ·072 | ·080 | ·084 | ·106 |
| ·102 | ·096 | ·090 | ·087 | ·082 | ·094 | — | — | — | — | — | — | ·132 |
| — | — | — | — | — | — | ·102 | ·098 | ·100 | ·099 | ·098 | ·095 | ·137 |
| ·136 | ·135 | ·140 | ·140 | ·145 | ·149 | ·156 | ·158 | ·159 | ·165 | ·167 | ·164 | ·145 |
| ·120 | ·118 | ·128 | ·126 | ·122 | ·116 | ·100 | ·096 | ·091 | ·092 | ·091 | ·084 | ·106 |
| ·123 | 109 | ·109 | ·109 | ·111 | ·105 | ·101 | ·106 | ·079 | ·076 | ·075 | ·074 | ·106 |
| ·106 | ·105 | ·100 | ·104 | ·104 | ·106 | ·134 | ·133 | ·134 | ·135 | ·137 | ·128 | ·132 |
| ·140 | ·146 | ·137 | ·136 | ·131 | ·109 | ·155 | ·117 | ·118 | ·109 | ·082 | ·098 | ·095 |
| ·098 | ·096 | ·093 | ·093 | ·091 | ·088 | ·092 | ·091 | ·087 | ·086 | ·086 | ·087 | ·095 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|--------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | APRIL. | 1 | 81 | 82 | 77 | 75 | 87 | 77 | 46 | 65 | 64 | 59 | 53 | 64 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | 86 | 78 | 66 | 69 | 61 | 69 | 56 | 50 | 60 | 57 | 56 | 65 |
| | | 4 | 86 | 76 | 74 | 73 | 65 | 55 | 71 | 78 | 81 | 80 | 80 | 82 |
| | | 5 | 93 | 95 | 90 | 63 | 92 | 93 | 80 | 72 | 80 | 81 | 80 | 87 |
| | | 6 | 86 | 86 | 79 | 78 | 54 | 66 | 63 | 60 | 80 | 85 | 67 | 68 |
| | | 7 | 74 | 75 | 79 | 79 | 74 | 63 | 70 | 69 | 71 | 71 | 70 | 68 |
| | | 8 | 70 | 70 | 65 | 67 | 60 | 60 | 58 | 44 | 34 | 39 | 43 | 47 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | 75 | 72 | 81 | 70 | 70 | 53 | 39 | 39 | 42 | — | 44 | 38 |
| | | 11 | 72 | 73 | 69 | 66 | 67 | 66 | 58 | 54 | 55 | 61 | 62 | 58 |
| | | 12 | 82 | 75 | 50 | 64 | 58 | 58 | 69 | 72 | 60 | 54 | 60 | 55 |
| | | 13 | 77 | 60 | 60 | 54 | 58 | 58 | 69 | 72 | 71 | 78 | 82 | 82 |
| | | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | 90 | 90 | 90 | 91 | 94 | 89 | 86 | 90 | 80 | 82 | 83 | 85 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | 48 | 44 | 42 | 42 | 52 | 51 | 58 | 58 | 55 | 52 | 59 | 58 |
| | | 18 | 50 | 84 | 87 | 95 | 96 | 95 | 96 | 95 | 95 | 88 | 86 | 96 |
| | | 19 | 91 | 91 | 91 | 91 | 88 | 85 | 82 | 82 | 81 | 79 | 80 | 81 |
| | | 20 | 88 | 87 | 87 | 84 | 82 | 80 | 83 | 78 | 74 | 78 | 76 | 65 |
| | | 21 | 95 | 95 | 92 | 88 | 84 | 81 | 70 | 66 | 61 | 64 | 57 | 66 |
| | | 22 | 68 | 65 | 64 | 62 | 60 | 61 | 75 | 61 | 62 | 69 | 84 | 68 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | 85 | 80 | 78 | 74 | 74 | 71 | 69 | 67 | 63 | 64 | 66 | 67 |
| | | 25 | 89 | 92 | 91 | 89 | 83 | 82 | 78 | 78 | 77 | 78 | 73 | 79 |
| | | 26 | 92 | 85 | 96 | 94 | 89 | 84 | 83 | 78 | 78 | 76 | 77 | 81 |
| | | 27 | 92 | 94 | 94 | 92 | 88 | 83 | 73 | 63 | 52 | 42 | 40 | 42 |
| | | 28 | 54 | 52 | 51 | 59 | 62 | 62 | 49 | 45 | 45 | 41 | 44 | 46 |
| | | 29 | 84 | 86 | 75 | 69 | 66 | 62 | 65 | 66 | 64 | 69 | 67 | 54 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | 80 | 79 | 76 | 75 | 74 | 71 | 69 | 67 | 66 | 65 | 66 | 67 |
| Tension of the Vapour. | APRIL. | 1 | In. .097 | In. .101 | In. .107 | In. .110 | In. .137 | In. .131 | In. .084 | In. .122 | In. .122 | In. .116 | In. .111 | In. .116 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | .082 | .086 | .095 | .119 | .121 | .142 | .124 | .116 | .131 | .130 | .135 | .173 |
| | | 4 | .135 | .135 | .142 | .147 | .139 | .123 | .151 | .157 | .160 | .159 | .160 | .162 |
| | | 5 | .148 | .158 | .170 | .135 | .214 | .222 | .192 | .187 | .190 | .189 | .194 | .207 |
| | | 6 | .142 | .155 | .153 | .153 | .120 | .155 | .161 | .159 | .180 | .188 | .172 | .172 |
| | | 7 | .109 | .120 | .147 | .154 | .152 | .139 | .169 | .176 | .179 | .178 | .171 | .162 |
| | | 8 | .175 | .184 | .187 | .192 | .186 | .186 | .179 | .146 | .120 | .130 | .145 | .145 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | .135 | .127 | .145 | .137 | .141 | .123 | .100 | .105 | .123 | — | .119 | .110 |
| | | 11 | .130 | .142 | .154 | .162 | .173 | .181 | .172 | .157 | .173 | .206 | .217 | .216 |
| | | 12 | .135 | .145 | .118 | .160 | .178 | .194 | .233 | .251 | .228 | .213 | .240 | .222 |
| | | 13 | .143 | .149 | .158 | .152 | .174 | .168 | .194 | .198 | .211 | .210 | .214 | .220 |
| | | 14 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | .231 | .217 | .225 | .236 | .285 | .314 | .344 | .356 | .353 | .347 | .334 | .311 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | .118 | .112 | .113 | .119 | .154 | .157 | .171 | .174 | .155 | .148 | .158 | .150 |
| | | 18 | .124 | .178 | .188 | .188 | .192 | .191 | .192 | .189 | .192 | .190 | .185 | .194 |
| | | 19 | .193 | .195 | .197 | .206 | .208 | .216 | .228 | .222 | .213 | .216 | .210 | .207 |
| | | 20 | .211 | .215 | .219 | .221 | .223 | .252 | .263 | .263 | .250 | .287 | .294 | .269 |
| | | 21 | .179 | .217 | .258 | .273 | .284 | .302 | .297 | .297 | .288 | .327 | .288 | .298 |
| | | 22 | .219 | .237 | .242 | .251 | .256 | .265 | .281 | .238 | .254 | .269 | .309 | .276 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | .321 | .296 | .292 | .280 | .283 | .278 | .279 | .296 | .295 | .296 | .292 | .281 |
| | | 25 | .263 | .273 | .280 | .290 | .287 | .290 | .273 | .274 | .296 | .307 | .313 | .282 |
| | | 26 | .246 | .236 | .270 | .300 | .339 | .343 | .350 | .390 | .401 | .412 | .373 | .398 |
| | | 27 | .245 | .256 | .259 | .261 | .262 | .256 | .256 | .247 | .220 | .180 | .184 | .207 |
| | | 28 | .199 | .193 | .203 | .263 | .268 | .286 | .304 | .303 | .324 | .295 | .308 | .313 |
| | | 29 | .195 | .199 | .177 | .165 | .167 | .161 | .173 | .178 | .182 | .186 | .183 | .156 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | .174 | .180 | .187 | .195 | .206 | .211 | .215 | .217 | .218 | .225 | .221 | .219 |

^a Good Friday.

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 65 | 66 | 65 | 63 | 60 | 69 | — | — | — | — | — | — | 72 |
| 76 | 96 | 97 | 85 | 79 | 75 | 90 | 84 | 87 | 80 | 81 | 79 | 74 |
| 89 | 93 | 95 | 94 | 94 | 94 | 79 | 83 | 80 | 86 | 88 | 86 | 85 |
| 77 | 79 | 80 | 83 | 100 | 99 | 92 | 91 | 98 | 100 | 97 | 95 | 88 |
| 72 | 78 | 84 | 92 | 91 | 83 | 78 | 84 | 83 | 83 | 86 | 85 | 78 |
| 66 | 73 | 76 | 79 | 84 | 83 | 87 | 84 | 79 | 79 | 85 | 73 | 75 |
| 58 | 72 | 85 | 87 | 85 | 82 | — | — | — | — | — | — | 66 |
| — | — | — | — | — | — | 74 | 75 | 73 | 73 | 74 | 82 | 59 |
| 39 | 47 | 56 | 56 | 58 | 59 | 63 | 65 | 72 | 73 | 64 | 71 | 65 |
| 54 | 55 | 58 | 55 | 59 | 60 | 57 | 79 | 78 | 87 | 80 | 85 | 63 |
| 56 | 53 | 59 | 60 | 62 | 68 | 66 | 66 | 70 | 58 | 60 | 67 | 80 |
| 88 | 85 | 86 | 87 | 90 | 91 | — | — | — | — | — | — | 76 |
| — | — | — | — | — | — | 96 | 97 | 98 | 98 | 97 | 90 | 51 |
| 88 | 89 | 75 | 69 | 66 | 57 | — | — | — | — | — | — | 51 |
| — | — | — | — | — | — | 53 | 55 | 56 | 57 | 56 | 51 | 51 |
| 64 | 65 | 65 | 61 | 58 | 52 | 40 | 40 | 40 | 39 | 42 | 47 | 91 |
| 95 | 94 | 91 | 92 | 91 | 91 | 93 | 93 | 94 | 95 | 94 | 95 | 86 |
| 82 | 83 | 83 | 83 | 83 | 87 | 92 | 93 | 89 | 84 | 86 | 88 | 85 |
| 65 | 66 | 87 | 94 | 95 | 98 | 98 | 97 | 97 | 96 | 96 | 98 | 77 |
| 71 | 72 | 76 | 83 | 87 | 80 | 83 | 78 | 75 | 74 | 76 | 84 | 79 |
| 82 | 82 | 86 | 87 | 95 | 96 | — | — | — | — | — | — | 79 |
| — | — | — | — | — | — | 94 | 92 | 96 | 95 | 97 | 87 | 78 |
| 68 | 73 | 76 | 80 | 84 | 85 | 88 | 92 | 89 | 87 | 90 | 92 | 85 |
| 84 | 84 | 86 | 83 | 84 | 84 | 87 | 89 | 88 | 89 | 91 | 96 | 84 |
| 83 | 75 | 74 | 76 | 80 | 80 | 84 | 83 | 91 | 92 | 90 | 94 | 68 |
| 56 | 76 | 51 | 50 | 58 | 62 | 62 | 65 | 82 | 83 | 81 | 58 | 61 |
| 54 | 59 | 65 | 64 | 70 | 70 | 73 | 78 | 80 | 77 | 81 | 83 | 75 |
| 65 | 71 | 75 | 79 | 80 | 92 | — | — | — | — | — | — | 75 |
| — | — | — | — | — | — | 87 | 91 | 91 | 77 | 82 | 79 | 75 |
| 71 | 74 | 76 | 77 | 79 | 79 | 80 | 81 | 83 | 82 | 82 | 81 | 75 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .103 | .101 | .098 | .095 | .089 | .093 | — | — | — | — | — | — | .103 |
| — | — | — | — | — | — | .103 | .089 | .093 | .084 | .085 | .076 | .124 |
| .160 | .162 | .147 | .121 | .113 | .112 | .110 | .110 | .115 | .122 | .133 | .127 | .158 |
| .170 | .174 | .177 | .176 | .176 | .179 | .176 | .166 | .170 | .167 | .143 | .144 | .178 |
| .166 | .168 | .168 | .173 | .190 | .178 | .182 | .182 | .180 | .175 | .164 | .146 | .153 |
| .167 | .162 | .165 | .167 | .148 | .143 | .134 | .141 | .137 | .136 | .133 | .125 | .161 |
| .151 | .158 | .160 | .166 | .167 | .167 | .174 | .168 | .162 | .161 | .185 | .178 | .162 |
| .163 | .179 | .193 | .191 | .186 | .181 | — | — | — | — | — | — | .125 |
| — | — | — | — | — | — | .143 | .139 | .132 | .133 | .134 | .143 | .158 |
| .111 | .112 | .124 | .122 | .119 | .122 | .121 | .120 | .186 | .123 | .121 | .126 | .165 |
| .189 | .162 | .148 | .133 | .136 | .135 | .131 | .144 | .132 | .145 | .126 | .132 | .208 |
| .177 | .144 | .140 | .136 | .134 | .139 | .132 | .132 | .144 | .124 | .124 | .123 | .241 |
| .219 | .211 | .207 | .196 | .193 | .186 | — | — | — | — | — | — | .138 |
| — | — | — | — | — | — | .283 | .273 | .298 | .257 | .249 | .223 | .189 |
| .316 | .305 | .263 | .220 | .198 | .169 | — | — | — | — | — | — | .207 |
| — | — | — | — | — | — | .131 | .131 | .129 | .131 | .129 | .119 | .225 |
| .167 | .160 | .165 | .150 | .146 | .130 | .107 | .109 | .106 | .103 | .114 | .120 | .259 |
| .196 | .194 | .194 | .197 | .194 | .194 | .195 | .194 | .194 | .196 | .194 | .198 | .316 |
| .202 | .204 | .204 | .206 | .207 | .209 | .209 | .201 | .206 | .201 | .206 | .208 | .221 |
| .261 | .193 | .225 | .220 | .204 | .204 | .198 | .187 | .196 | .196 | .178 | .171 | .260 |
| .274 | .257 | .244 | .248 | .250 | .238 | .254 | .230 | .225 | .223 | .223 | .233 | .179 |
| .240 | .232 | .262 | .263 | .300 | .299 | — | — | — | — | — | — | .286 |
| — | — | — | — | — | — | .358 | .350 | .372 | .374 | .372 | .335 | .275 |
| .272 | .273 | .254 | .261 | .265 | .252 | .257 | .263 | .252 | .251 | .258 | .259 | .272 |
| .256 | .251 | .259 | .256 | .251 | .261 | .262 | .263 | .255 | .252 | .265 | .261 | .316 |
| .435 | .358 | .319 | .304 | .295 | .285 | .275 | .272 | .253 | .234 | .237 | .247 | .221 |
| .235 | .240 | .186 | .194 | .198 | .200 | .202 | .206 | .213 | .206 | .201 | .186 | .260 |
| .321 | .284 | .282 | .263 | .261 | .245 | .240 | .234 | .225 | .209 | .214 | .201 | .260 |
| .166 | .166 | .168 | .169 | .164 | .172 | — | — | — | — | — | — | .179 |
| — | — | — | — | — | — | .203 | .213 | .217 | .184 | .178 | .167 | .199 |
| .213 | .202 | .198 | .193 | .191 | .187 | .191 | .188 | .191 | .183 | .182 | .177 | .199 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | MAY. | 1 | 80 | 80 | 88 | 66 | 63 | 67 | 60 | 47 | 58 | 57 | 61 | 60 | |
| | | 2 | 81 | 74 | 67 | 75 | 71 | 69 | 65 | 59 | 58 | 56 | 52 | 52 | |
| | | 3 | 87 | 47 | 69 | 63 | 58 | 63 | 68 | 66 | 60 | 44 | 37 | 57 | |
| | | 4 | 81 | 84 | 84 | 73 | 73 | 71 | 70 | 70 | 64 | 61 | 58 | 62 | 62 |
| | | 5 | 78 | 66 | 57 | 60 | 60 | 64 | 60 | 54 | 54 | 53 | 53 | 55 | 55 |
| | | 6 | 66 | 62 | 70 | 76 | 85 | 78 | 73 | 71 | 69 | 70 | 66 | 66 | 70 |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 8 | 73 | 66 | 64 | 64 | 61 | 57 | 58 | 53 | 53 | 53 | 53 | 63 | 66 |
| | | 9 | 91 | 82 | 78 | 81 | 78 | 78 | 74 | 70 | 68 | 66 | 66 | 67 | 65 |
| | | 10 | 72 | 72 | 69 | 69 | 69 | 70 | 70 | 66 | 66 | 66 | 61 | 58 | 62 |
| | | 11 | 80 | 76 | 72 | 66 | 66 | 64 | 65 | 65 | 65 | 62 | 59 | 56 | 46 |
| | | 12 | 68 | 61 | 54 | 66 | 68 | 65 | 61 | 55 | 52 | 50 | 50 | 47 | 49 |
| | | 13 | 90 | 88 | 88 | 84 | 80 | 77 | 72 | 69 | 66 | 80 | 63 | 63 | 63 |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | 93 | 89 | 87 | 79 | 76 | 72 | 76 | 66 | 62 | 58 | 44 | 37 | 37 |
| | | 16 | 67 | 56 | 55 | 49 | 44 | 38 | 38 | 38 | 35 | 32 | 31 | 31 | 31 |
| | | 17 | 72 | 67 | 63 | 55 | 52 | 63 | 44 | 58 | 55 | 52 | 54 | 47 | 47 |
| | | 18 | 78 | 69 | 66 | 62 | 61 | 56 | 59 | 57 | 52 | 45 | 42 | 36 | 36 |
| | | 19 | 67 | 57 | 48 | 42 | 43 | 38 | 38 | 40 | 42 | 40 | 41 | 42 | 42 |
| | | 20 | 75 | 67 | 69 | 60 | 55 | 58 | 53 | 45 | 43 | 42 | 39 | 40 | 40 |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 22 | 85 | 86 | 86 | 77 | 76 | 77 | 86 | 85 | 87 | 84 | 90 | 91 | 91 |
| | | 23 | 96 | 89 | 90 | 89 | 86 | 78 | 90 | 90 | 76 | 56 | 55 | 59 | 59 |
| | | 24 | 66 | 65 | 64 | 64 | 61 | 57 | 67 | 43 | 39 | 37 | 31 | 39 | 39 |
| | | 25 | 83 | 74 | 67 | 64 | 66 | 66 | 63 | 61 | 64 | 61 | 62 | 62 | 62 |
| | | 26 | 85 | 85 | 92 | 87 | 88 | 83 | 79 | 79 | 87 | 94 | 94 | 95 | 95 |
| | | 27 | 75 | 79 | 75 | 72 | 67 | 66 | 65 | 66 | 66 | 66 | 66 | 66 | 66 |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 29 | 66 | 63 | 64 | 64 | 66 | 67 | 66 | 67 | 71 | 64 | 51 | 47 | 47 |
| | | 30 | 74 | 68 | 71 | 72 | 71 | 68 | 72 | 79 | 87 | 90 | 91 | 90 | 90 |
| | | 31 | 80 | 74 | 70 | 64 | 65 | 62 | 58 | 56 | 59 | 57 | 52 | 53 | 53 |
| | | Hourly Means | | 78 | 72 | 71 | 68 | 67 | 66 | 65 | 62 | 61 | 59 | 56 | 57 |
| Tension of the Vapour. | MAY. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | | |
| | | 1 | .176 | .186 | .206 | .167 | .162 | .162 | .164 | .138 | .152 | .154 | .155 | .151 | |
| | | 2 | .165 | .163 | .163 | .194 | .194 | .201 | .207 | .205 | .193 | .190 | .204 | .224 | |
| | | 3 | .163 | .114 | .184 | .198 | .196 | .229 | .237 | .260 | .221 | .195 | .149 | .206 | |
| | | 4 | .204 | .211 | .240 | .211 | .204 | .199 | .200 | .202 | .197 | .186 | .173 | .165 | |
| | | 5 | .184 | .162 | .146 | .155 | .170 | .156 | .139 | .125 | .132 | .138 | .148 | .142 | |
| | | 6 | .174 | .174 | .212 | .230 | .259 | .275 | .285 | .292 | .299 | .297 | .293 | .307 | |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 8 | .223 | .217 | .222 | .224 | .235 | .227 | .238 | .231 | .224 | .224 | .255 | .262 | |
| | | 9 | .202 | .223 | .251 | .265 | .279 | .289 | .295 | .282 | .304 | .323 | .310 | .299 | |
| | | 10 | .266 | .273 | .279 | .279 | .276 | .281 | .287 | .284 | .302 | .278 | .266 | .269 | |
| | | 11 | .280 | .289 | .278 | .277 | .296 | .302 | .316 | .334 | .328 | .315 | .322 | .288 | |
| | | 12 | .243 | .265 | .277 | .296 | .305 | .320 | .332 | .341 | .345 | .353 | .331 | .308 | |
| | | 13 | .316 | .294 | .370 | .392 | .413 | .440 | .456 | .462 | .491 | .479 | .450 | .464 | |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 15 | .436 | .464 | .471 | .478 | .483 | .491 | .432 | .506 | .380 | .422 | .426 | .353 | |
| | | 16 | .261 | .235 | .239 | .230 | .221 | .209 | .209 | .222 | .215 | .206 | .201 | .200 | |
| | | 17 | .168 | .173 | .175 | .173 | .190 | .216 | .179 | .260 | .246 | .224 | .254 | .251 | |
| | | 18 | .177 | .190 | .222 | .203 | .206 | .204 | .237 | .237 | .241 | .228 | .215 | .225 | |
| | | 19 | .193 | .184 | .190 | .186 | .212 | .164 | .198 | .210 | .232 | .204 | .230 | .215 | |
| | | 20 | .194 | .224 | .277 | .249 | .246 | .259 | .255 | .248 | .257 | .265 | .260 | .267 | |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 22 | .299 | .339 | .354 | .324 | .338 | .363 | .382 | .389 | .391 | .377 | .379 | .386 | |
| | | 23 | .341 | .359 | .379 | .374 | .408 | .404 | .381 | .377 | .372 | .300 | .274 | .246 | |
| | | 24 | .186 | .206 | .232 | .255 | .265 | .267 | .327 | .251 | .249 | .257 | .226 | .271 | |
| | | 25 | .242 | .247 | .246 | .253 | .266 | .281 | .293 | .285 | .322 | .329 | .336 | .318 | |
| | | 26 | .297 | .306 | .323 | .332 | .327 | .344 | .382 | .391 | .402 | .400 | .384 | .386 | |
| | | 27 | .307 | .313 | .301 | .312 | .306 | .295 | .293 | .296 | .289 | .287 | .280 | .282 | |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 29 | .230 | .238 | .248 | .270 | .298 | .315 | .297 | .327 | .331 | .344 | .317 | .311 | |
| | | 30 | .234 | .241 | .282 | .287 | .270 | .269 | .234 | .256 | .244 | .240 | .225 | .232 | |
| | | 31 | .194 | .184 | .181 | .168 | .175 | .165 | .164 | .158 | .175 | .171 | .144 | .150 | |
| Hourly Means | | .235 | .240 | .257 | .259 | .267 | .271 | .275 | .280 | .279 | .274 | .270 | .266 | | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 62 | 66 | 72 | 70 | 71 | 74 | 70 | 67 | 68 | 74 | 81 | 85 | 69 |
| 58 | 64 | 63 | 68 | 72 | 76 | 93 | 95 | 95 | 93 | 96 | 97 | 73 |
| 62 | 69 | 70 | 72 | 77 | 83 | 80 | 82 | 87 | 85 | 86 | 90 | 69 |
| 60 | 48 | 50 | 52 | 57 | 57 | 56 | 61 | 60 | 63 | 60 | 55 | 64 |
| 57 | 55 | 56 | 55 | 82 | 55 | 65 | 71 | 74 | 65 | 60 | 67 | 62 |
| 70 | 56 | 82 | 88 | 90 | 91 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 61 | 64 | 65 | 65 | 69 | 76 | 71 |
| 66 | 69 | 78 | 80 | 86 | 80 | 82 | 79 | 85 | 80 | 92 | 95 | 74 |
| 63 | 71 | 80 | 78 | 69 | 70 | 74 | 78 | 70 | 71 | 72 | 72 | 77 |
| 63 | 76 | 85 | 90 | 94 | 93 | 94 | 95 | 90 | 92 | 84 | 84 | 70 |
| 48 | 57 | 74 | 75 | 77 | 83 | 87 | 84 | 89 | 83 | 76 | 76 | 65 |
| 64 | 59 | 62 | 74 | 73 | 69 | 73 | 76 | 76 | 81 | 81 | 85 | 80 |
| 64 | 78 | 84 | 81 | 89 | 87 | — | — | — | — | — | — | 65 |
| — | — | — | — | — | — | 82 | 84 | 87 | 90 | 90 | 94 | 64 |
| 38 | 49 | 57 | 60 | 56 | 56 | 60 | 63 | 74 | 75 | 73 | 68 | 89 |
| 36 | 44 | 49 | 55 | 57 | 62 | 65 | 67 | 70 | 71 | 71 | 78 | 75 |
| 39 | 39 | 53 | 58 | 60 | 61 | 59 | 67 | 89 | 89 | 97 | 85 | 59 |
| 40 | 47 | 59 | 68 | 68 | 68 | 68 | 69 | 72 | 82 | 86 | 69 | 72 |
| 38 | 43 | 67 | 73 | 70 | 76 | 74 | 70 | 71 | 79 | 81 | 81 | 66 |
| 45 | 57 | 70 | 70 | 76 | 76 | — | — | — | — | — | — | 57 |
| — | — | — | — | — | — | 71 | 78 | 96 | 82 | 80 | 91 | 64 |
| 91 | 92 | 92 | 94 | 94 | 92 | 95 | 97 | 96 | 97 | 96 | 96 | 89 |
| 59 | 61 | 70 | 82 | 81 | 75 | 76 | 76 | 66 | 64 | 63 | 63 | 75 |
| 39 | 45 | 45 | 59 | 60 | 63 | 67 | 75 | 75 | 76 | 82 | 87 | 59 |
| 67 | 74 | 80 | 75 | 75 | 77 | 77 | 78 | 82 | 76 | 81 | 85 | 72 |
| 97 | 96 | 97 | 97 | 97 | 98 | 97 | 96 | 97 | 94 | 94 | 87 | 91 |
| 67 | 68 | 62 | 68 | 74 | 84 | — | — | — | — | — | — | 67 |
| — | — | — | — | — | — | 58 | 57 | 62 | 62 | 62 | 65 | 65 |
| 57 | 60 | 59 | 49 | 55 | 61 | 66 | 70 | 84 | 79 | 77 | 86 | 81 |
| 88 | 89 | 94 | 95 | 73 | 77 | 79 | 80 | 83 | 85 | 84 | 85 | 63 |
| 53 | 58 | 60 | 57 | 64 | 67 | 70 | 70 | 68 | 67 | 67 | 65 | 69 |
| 59 | 62 | 69 | 72 | 74 | 74 | 74 | 76 | 79 | 79 | 79 | 80 | 69 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·156 | ·157 | ·163 | ·154 | ·151 | ·155 | ·150 | ·146 | ·152 | ·151 | ·155 | ·156 | ·159 |
| ·216 | ·191 | ·175 | ·179 | ·168 | ·165 | ·160 | ·165 | ·160 | ·158 | ·157 | ·164 | ·182 |
| ·205 | ·193 | ·188 | ·192 | ·199 | ·201 | ·194 | ·198 | ·204 | ·198 | ·201 | ·210 | ·197 |
| ·149 | ·117 | ·119 | ·122 | ·131 | ·130 | ·130 | ·136 | ·134 | ·136 | ·133 | ·126 | ·165 |
| ·145 | ·140 | ·145 | ·146 | ·191 | ·146 | ·163 | ·170 | ·172 | ·147 | ·148 | ·173 | ·153 |
| ·302 | ·240 | ·290 | ·236 | ·239 | ·233 | — | — | — | — | — | — | ·247 |
| — | — | — | — | — | — | ·216 | ·211 | ·210 | ·209 | ·212 | ·229 | ·222 |
| ·258 | ·245 | ·243 | ·228 | ·233 | ·200 | ·201 | ·191 | ·193 | ·178 | ·187 | ·179 | ·263 |
| ·250 | ·265 | ·269 | ·250 | ·236 | ·237 | ·236 | ·240 | ·249 | ·245 | ·258 | ·261 | ·280 |
| ·227 | ·256 | ·279 | ·290 | ·301 | ·301 | ·303 | ·302 | ·291 | ·289 | ·270 | ·273 | ·279 |
| ·285 | ·274 | ·278 | ·256 | ·249 | ·249 | ·253 | ·246 | ·250 | ·248 | ·231 | ·246 | ·292 |
| ·298 | ·261 | ·264 | ·296 | ·265 | ·260 | ·268 | ·273 | ·266 | ·272 | ·285 | ·292 | ·411 |
| ·457 | ·448 | ·409 | ·398 | ·384 | ·372 | — | — | — | — | — | — | ·366 |
| — | — | — | — | — | — | ·427 | ·445 | ·357 | ·356 | ·365 | ·415 | ·198 |
| ·346 | ·334 | ·323 | ·297 | ·274 | ·256 | ·266 | ·273 | ·266 | ·273 | ·265 | ·257 | ·185 |
| ·214 | ·198 | ·176 | ·172 | ·166 | ·168 | ·171 | ·169 | ·171 | ·165 | ·160 | ·163 | ·206 |
| ·182 | ·146 | ·161 | ·157 | ·154 | ·149 | ·147 | ·160 | ·186 | ·163 | ·169 | ·154 | ·193 |
| ·238 | ·193 | ·190 | ·185 | ·179 | ·185 | ·186 | ·190 | ·194 | ·208 | ·217 | ·187 | ·247 |
| ·179 | ·161 | ·203 | ·303 | ·179 | ·182 | ·175 | ·165 | ·164 | ·161 | ·164 | ·166 | ·279 |
| ·241 | ·250 | ·239 | ·217 | ·215 | ·195 | — | — | — | — | — | — | ·292 |
| — | — | — | — | — | — | ·234 | ·233 | ·326 | ·255 | ·242 | ·285 | ·346 |
| ·346 | ·332 | ·332 | ·338 | ·344 | ·336 | ·340 | ·332 | ·326 | ·326 | ·311 | ·316 | ·279 |
| ·237 | ·247 | ·241 | ·239 | ·226 | ·212 | ·207 | ·198 | ·177 | ·173 | ·168 | ·167 | ·235 |
| ·249 | ·227 | ·193 | ·216 | ·209 | ·212 | ·217 | ·234 | ·219 | ·220 | ·219 | ·223 | ·289 |
| ·306 | ·303 | ·305 | ·281 | ·269 | ·274 | ·289 | ·307 | ·300 | ·291 | ·291 | ·294 | ·366 |
| ·372 | ·379 | ·373 | ·388 | ·394 | ·409 | ·370 | ·349 | ·367 | ·375 | ·347 | ·375 | ·267 |
| ·289 | ·286 | ·253 | ·260 | ·257 | ·244 | — | — | — | — | — | — | ·263 |
| — | — | — | — | — | — | ·216 | ·206 | ·213 | ·209 | ·206 | ·217 | ·224 |
| ·314 | ·290 | ·233 | ·201 | ·209 | ·213 | ·218 | ·219 | ·236 | ·218 | ·211 | ·213 | ·158 |
| ·227 | ·230 | ·230 | ·224 | ·180 | ·184 | ·183 | ·179 | ·178 | ·182 | ·180 | ·180 | ·247 |
| ·146 | ·155 | ·145 | ·137 | ·140 | ·142 | ·146 | ·148 | ·149 | ·149 | ·151 | ·147 | — |
| ·253 | ·241 | ·238 | ·236 | ·227 | ·223 | ·225 | ·225 | 226 | ·221 | ·219 | ·225 | — |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|-------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | JUNE. | 1 | 71 | 61 | 64 | 49 | 50 | 50 | 48 | 45 | 45 | 43 | 62 | 65 | |
| | | 2 | 100 | 90 | 86 | 83 | 82 | 78 | 70 | 70 | 72 | 62 | 64 | 71 | |
| | | 3 | 95 | 95 | 88 | 84 | 76 | 75 | 74 | 75 | 75 | 77 | 75 | 74 | |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 5 | 96 | 96 | 96 | 95 | 92 | 96 | 93 | 89 | 89 | 91 | 93 | 93 | 62 |
| | | 6 | 89 | 78 | 77 | 77 | 68 | 75 | 75 | 69 | 70 | 70 | 81 | 89 | 88 |
| | | 7 | 88 | 83 | 73 | 81 | 76 | 66 | 65 | 64 | 61 | 61 | 63 | 64 | 71 |
| | | 8 | 67 | 66 | 70 | 71 | 84 | 88 | 86 | 89 | 86 | 86 | 87 | 89 | 88 |
| | | 9 | 100 | 100 | 97 | 94 | 90 | 92 | 89 | 86 | 86 | 86 | 92 | 87 | 80 |
| | | 10 | 77 | 80 | 85 | 84 | 85 | 84 | 82 | 85 | 85 | 85 | 88 | 69 | 78 |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 12 | 92 | 87 | 87 | 83 | 81 | 78 | 79 | 76 | 76 | 68 | 64 | 61 | 71 |
| | | 13 | 92 | 87 | 86 | 84 | 84 | 82 | 78 | 77 | 77 | 76 | 72 | 79 | 88 |
| | | 14 | 86 | 81 | 77 | 73 | 64 | 62 | 55 | 46 | 42 | 39 | 39 | 38 | 38 |
| | | 15 | 80 | 77 | 68 | 80 | 86 | 78 | 74 | 73 | 70 | 70 | 70 | 67 | 70 |
| | | 16 | 85 | 81 | 80 | 78 | 78 | 79 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| | | 17 | 83 | 81 | 76 | 67 | 63 | 77 | 72 | 75 | 73 | 73 | 75 | 62 | 62 |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 19 | 83 | 79 | 77 | 77 | 78 | 75 | 70 | 67 | 69 | 69 | 63 | 65 | 60 |
| | | 20 | 93 | 87 | 83 | 71 | 79 | 77 | 77 | 75 | 69 | 69 | 70 | 67 | 63 |
| | | 21 | 90 | 89 | 85 | 81 | 81 | 78 | 77 | 77 | 72 | 72 | 73 | 72 | 67 |
| | | 22 | 96 | 85 | 85 | 84 | 79 | 77 | 77 | 71 | 70 | 70 | 62 | 58 | 64 |
| | | 23 | 88 | 87 | 88 | 87 | 87 | 87 | 83 | 85 | 84 | 84 | 75 | 75 | 64 |
| | | 24 | 95 | 96 | 98 | 96 | 98 | 95 | 94 | 82 | 80 | 80 | 82 | 46 | 48 |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | 91 | 90 | 91 | 95 | 87 | 87 | 84 | 83 | 78 | 78 | 76 | 70 | 65 |
| | | 27 | 95 | 89 | 89 | 87 | 85 | 84 | 82 | 75 | 72 | 72 | 65 | 61 | 60 |
| | | 28 | 93 | 95 | 93 | 94 | 91 | 89 | 89 | 81 | 79 | 79 | 78 | 74 | 74 |
| | | 29 | 98 | 97 | 94 | 91 | 90 | 87 | 88 | 85 | 86 | 86 | 76 | 65 | 79 |
| | | 30 | 67 | 93 | 90 | 87 | 84 | 81 | 75 | 74 | 70 | 70 | 68 | 71 | 71 |
| | | Hourly Means | | 89 | 86 | 84 | 82 | 81 | 80 | 78 | 75 | 73 | 72 | 69 | 70 |
| Tension of the Vapour. | JUNE. | 1 | In. .168 | In. .153 | In. .167 | In. .130 | In. .149 | In. .147 | In. .148 | In. .146 | In. .153 | In. .152 | In. .204 | In. .200 | |
| | | 2 | .194 | .223 | .235 | .242 | .251 | .257 | .252 | .233 | .238 | .204 | .205 | .211 | |
| | | 3 | .295 | .333 | .329 | .324 | .291 | .299 | .292 | .281 | .281 | .288 | .282 | .283 | |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 5 | .307 | .309 | .313 | .316 | .314 | .336 | .356 | .330 | .332 | .338 | .338 | .330 | .324 |
| | | 6 | .268 | .257 | .265 | .293 | .283 | .321 | .332 | .263 | .287 | .299 | .299 | .330 | .338 |
| | | 7 | .225 | .254 | .255 | .319 | .314 | .291 | .321 | .320 | .311 | .316 | .316 | .289 | .319 |
| | | 8 | .241 | .258 | .280 | .283 | .304 | .305 | .313 | .339 | .344 | .355 | .355 | .386 | .412 |
| | | 9 | .519 | .530 | .537 | .617 | .619 | .651 | .681 | .726 | .638 | .646 | .646 | .697 | .627 |
| | | 10 | .253 | .270 | .292 | .286 | .300 | .308 | .321 | .318 | .318 | 333 | 333 | .277 | .305 |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 12 | .316 | .335 | .335 | .364 | .395 | .440 | .479 | .509 | .498 | .505 | .505 | .492 | .497 |
| | | 13 | .331 | .352 | .369 | .401 | .409 | .419 | .422 | .447 | .456 | .489 | .489 | .459 | .443 |
| | | 14 | .355 | .371 | .376 | .380 | .355 | .366 | .336 | .296 | .273 | .265 | .265 | .262 | .263 |
| | | 15 | .242 | .247 | .246 | .303 | .315 | .315 | .313 | .337 | .368 | .346 | .346 | .336 | .344 |
| | | 16 | .308 | .315 | .329 | .353 | .392 | .298 | .409 | .402 | .413 | .417 | .417 | .457 | .464 |
| | | 17 | .315 | .336 | .352 | .335 | .343 | .412 | .413 | .448 | .428 | .430 | .430 | .418 | .425 |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 19 | .301 | .324 | .338 | .365 | .411 | .430 | .436 | .431 | .477 | .414 | .414 | .396 | .451 |
| | | 20 | .390 | .428 | .438 | .469 | .503 | .542 | .589 | .609 | .426 | .580 | .580 | .567 | .536 |
| | | 21 | .495 | .530 | .515 | .528 | .596 | .626 | .653 | .687 | .705 | .727 | .727 | .686 | .612 |
| | | 22 | .479 | .509 | .554 | .551 | .597 | .612 | .612 | .660 | .665 | .643 | .643 | .603 | .596 |
| | | 23 | .511 | .520 | .556 | .551 | .577 | .610 | .660 | .573 | .598 | .714 | .696 | .696 | .579 |
| | | 24 | .522 | .545 | .578 | .579 | .558 | .572 | .596 | .608 | .627 | .711 | .459 | .459 | .479 |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | .373 | .482 | .497 | .579 | .572 | .538 | .627 | .611 | .670 | .706 | .703 | .703 | .649 |
| | | 27 | .548 | .569 | .589 | .620 | .669 | .735 | .753 | .759 | .688 | .644 | .638 | .638 | .599 |
| | | 28 | .562 | .619 | .642 | .650 | .703 | .686 | .661 | .748 | .723 | .726 | .687 | .687 | .644 |
| | | 29 | .567 | .605 | .611 | .649 | .689 | .716 | .734 | .697 | .693 | .643 | .643 | .643 | .633 |
| | | 30 | .511 | .583 | .585 | .598 | .625 | .647 | .648 | .701 | .691 | .710 | .673 | .673 | .703 |
| | | Hourly Means | | .369 | .395 | .408 | .426 | .444 | .461 | .473 | .480 | .473 | .485 | .468 | .459 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 75 | 76 | 62 | 75 | 89 | 90 | 93 | 90 | 91 | 94 | 89 | 93 | 70 |
| 82 | 85 | 86 | 93 | 94 | 94 | 94 | 96 | 96 | 96 | 97 | 96 | 85 |
| 75 | 80 | 89 | 89 | 90 | 88 | — | — | — | — | — | — | 85 |
| — | — | — | — | — | — | 97 | 95 | 93 | 92 | 96 | 95 | 92 |
| 90 | 90 | 88 | 94 | 93 | 90 | 86 | 89 | 89 | 90 | 91 | 89 | 85 |
| 86 | 86 | 86 | 91 | 94 | 94 | 91 | 90 | 96 | 97 | 96 | 92 | 73 |
| 74 | 75 | 69 | 76 | 81 | 71 | 73 | 66 | 70 | 71 | 79 | 83 | 89 |
| 90 | 97 | 97 | 97 | 97 | 96 | 98 | 97 | 98 | 97 | 97 | 100 | 87 |
| 89 | 88 | 88 | 85 | 84 | 77 | 78 | 78 | 84 | 81 | 78 | 84 | 87 |
| 92 | 92 | 95 | 96 | 95 | 95 | — | — | — | — | — | — | 87 |
| — | — | — | — | — | — | 80 | 91 | 91 | 90 | 91 | 95 | 83 |
| 76 | 79 | 80 | 86 | 91 | 89 | 88 | 91 | 93 | 92 | 92 | 96 | 84 |
| 63 | 69 | 85 | 87 | 92 | 89 | 92 | 92 | 93 | 88 | 88 | 94 | 60 |
| 37 | 40 | 52 | 52 | 57 | 60 | 62 | 61 | 72 | 76 | 83 | 92 | 77 |
| 75 | 73 | 78 | 85 | 79 | 84 | 82 | 70 | 73 | 77 | 84 | 88 | 78 |
| 76 | 80 | 79 | 72 | 71 | 67 | 74 | 78 | 80 | 81 | 82 | 86 | 74 |
| 58 | 57 | 83 | 70 | 66 | 61 | — | — | — | — | — | — | 79 |
| — | — | — | — | — | — | 78 | 84 | 85 | 88 | 91 | 87 | 80 |
| 64 | 71 | 79 | 87 | 88 | 86 | 90 | 93 | 94 | 92 | 95 | 95 | 80 |
| 66 | 72 | 73 | 75 | 80 | 88 | 94 | 94 | 93 | 92 | 95 | 97 | 80 |
| 61 | 62 | 71 | 75 | 80 | 88 | 70 | 91 | 92 | 94 | 94 | 96 | 78 |
| 59 | 62 | 65 | 68 | 77 | 83 | 88 | 90 | 92 | 95 | 93 | 95 | 83 |
| 63 | 66 | 74 | 82 | 85 | 88 | 92 | 93 | 90 | 90 | 88 | 93 | 83 |
| 45 | 52 | 71 | 81 | 84 | 88 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | 91 | 93 | 92 | 97 | 96 | 94 | 83 |
| 55 | 66 | 71 | 84 | 86 | 87 | 88 | 89 | 88 | 94 | 95 | 97 | 82 |
| 67 | 76 | 80 | 85 | 86 | 71 | 94 | 93 | 91 | 94 | 95 | 95 | 89 |
| 81 | 86 | 85 | 91 | 94 | 94 | 95 | 96 | 96 | 95 | 95 | 96 | 88 |
| 75 | 77 | 87 | 98 | 92 | 91 | 95 | 90 | 93 | 95 | 96 | 97 | 86 |
| 75 | 86 | 86 | 92 | 92 | 91 | 94 | 96 | 95 | 97 | 98 | 97 | 81 |
| 71 | 75 | 79 | 83 | 85 | 85 | 87 | 88 | 89 | 90 | 91 | 94 | 81 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .262 | .231 | .180 | .181 | .172 | .169 | .159 | .153 | .148 | .149 | .143 | .159 | .168 |
| .226 | .227 | .229 | .238 | .239 | .241 | .244 | .248 | .254 | .260 | .267 | .271 | .237 |
| .283 | .292 | .307 | .308 | .308 | .284 | — | — | — | — | — | — | .304 |
| — | — | — | — | — | — | .352 | .335 | .321 | .311 | .314 | .307 | .299 |
| .306 | .297 | .285 | .295 | .280 | .265 | .253 | .258 | .252 | .256 | .259 | .258 | .275 |
| .322 | .296 | .281 | .283 | .266 | .263 | .249 | .243 | .235 | .217 | .201 | .212 | .277 |
| .321 | .311 | .263 | .282 | .290 | .256 | .254 | .222 | .222 | .219 | .230 | .249 | .366 |
| .412 | .412 | .390 | .379 | .352 | .355 | .406 | .459 | .468 | .442 | .415 | .492 | .509 |
| .646 | .599 | .519 | .425 | .409 | .341 | .339 | .334 | .302 | .282 | .254 | .268 | .305 |
| .347 | .335 | .333 | .329 | .319 | .309 | — | — | — | — | — | — | .383 |
| — | — | — | — | — | — | .307 | .305 | .298 | .298 | .283 | .277 | .406 |
| .408 | .358 | .332 | .339 | .331 | .317 | .320 | .334 | .331 | .324 | .316 | .320 | .277 |
| .451 | .436 | .434 | .431 | .418 | .402 | .386 | .378 | .364 | .351 | .341 | .356 | .303 |
| .266 | .251 | .268 | .255 | .223 | .211 | .205 | .199 | .214 | .225 | .216 | .226 | .355 |
| .328 | .305 | .298 | .307 | .286 | .308 | .306 | .259 | .271 | .282 | .302 | .311 | .341 |
| .449 | .404 | .367 | .320 | .309 | .266 | .283 | .290 | .289 | .287 | .287 | .303 | .256 |
| .404 | .363 | .371 | .296 | .264 | .242 | — | — | — | — | — | — | .381 |
| — | — | — | — | — | — | .259 | .275 | .268 | .266 | .265 | .256 | .491 |
| .431 | .414 | .407 | .392 | .379 | .354 | .349 | .339 | .336 | .321 | .322 | .331 | .553 |
| .495 | .499 | .465 | .477 | .496 | .477 | .479 | .462 | .462 | .463 | .466 | .458 | .544 |
| .587 | .530 | .503 | .520 | .513 | .521 | .508 | .477 | .455 | .451 | .421 | .426 | .547 |
| .561 | .521 | .502 | .507 | .481 | .482 | .480 | .494 | .484 | .481 | .478 | .505 | .489 |
| .572 | .524 | .511 | .489 | .490 | .485 | .472 | .465 | .491 | .487 | .499 | .502 | .545 |
| .470 | .469 | .457 | .433 | .420 | .409 | — | — | — | — | — | — | .611 |
| — | — | — | — | — | — | .372 | .373 | .361 | .362 | .388 | .396 | .603 |
| .574 | .562 | .515 | .490 | .509 | .508 | .502 | .495 | .502 | .474 | .472 | .475 | .588 |
| .554 | .615 | .615 | .596 | .587 | .434 | .600 | .598 | .579 | .576 | .566 | .548 | .623 |
| .552 | .577 | .547 | .540 | .545 | .544 | .539 | .531 | .518 | .500 | .506 | .516 | .447 |
| .646 | .637 | .598 | .607 | .564 | .514 | .492 | .437 | .449 | .424 | .411 | .427 | .429 |
| .747 | .684 | .658 | .643 | .597 | .563 | .569 | .579 | .560 | .566 | .563 | .559 | .409 |
| .447 | .429 | .409 | .398 | .386 | .365 | .372 | .367 | .363 | .357 | .353 | .362 | .415 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | JULY. | 1 | 94 | 92 | 91 | 88 | 87 | 87 | 86 | 83 | 72 | 77 | 71 | 68 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | 81 | 73 | 82 | 77 | 72 | 69 | 68 | 67 | 70 | 69 | 67 | 65 |
| | | 4 | 87 | 86 | 79 | 76 | 77 | 66 | 69 | 63 | 67 | 63 | 75 | 63 |
| | | 5 | 87 | 80 | 72 | 64 | 74 | 76 | 78 | 73 | 65 | 57 | 54 | 48 |
| | | 6 | 68 | 65 | 53 | 59 | 72 | 68 | 56 | 52 | 48 | 49 | 49 | 47 |
| | | 7 | 89 | 92 | 92 | 87 | 89 | 69 | 61 | 57 | 51 | 51 | 46 | 44 |
| | | 8 | 75 | 72 | 64 | 56 | 50 | 44 | 41 | 37 | 31 | 32 | 34 | 41 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | 92 | 86 | 80 | 77 | 79 | 79 | 75 | 68 | 43 | 56 | 56 | 54 |
| | | 11 | 94 | 89 | 64 | 65 | 62 | 60 | 60 | 56 | 58 | 64 | 60 | 62 |
| | | 12 | 93 | 83 | 80 | 75 | 67 | 60 | 55 | 53 | 49 | 49 | 47 | 44 |
| | | 13 | 79 | 69 | 70 | 72 | 67 | 65 | 67 | 65 | 65 | 59 | 59 | 62 |
| | | 14 | 93 | 86 | 79 | 76 | 73 | 73 | 65 | 60 | 61 | 60 | 70 | 74 |
| | | 15 | 96 | 97 | 98 | 98 | 97 | 94 | 91 | 87 | 85 | 88 | 89 | 83 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | 96 | 98 | 97 | 97 | 99 | 99 | 91 | 86 | 86 | 89 | 91 | 91 |
| | | 18 | 100 | 94 | 94 | 91 | 91 | 86 | 81 | 76 | 57 | 50 | 50 | 46 |
| | | 19 | 88 | 84 | 84 | 61 | 62 | 59 | 53 | 50 | 40 | 39 | 38 | 38 |
| | | 20 | 84 | 73 | 63 | 55 | 52 | 58 | 66 | 70 | 65 | 59 | 55 | 58 |
| | | 21 | 73 | 72 | 68 | 73 | 64 | 62 | 55 | 50 | 51 | 53 | 54 | 56 |
| | | 22 | 83 | 71 | 73 | 71 | 67 | 68 | 64 | 60 | 57 | 54 | 59 | 60 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | 98 | 98 | 94 | 89 | 80 | 76 | 73 | 68 | 66 | 61 | 60 | 58 |
| | | 25 | 81 | 83 | 84 | 79 | 76 | 74 | 67 | 63 | 63 | 61 | 58 | 57 |
| | | 26 | 91 | 90 | 84 | 85 | 87 | 77 | 75 | 80 | 69 | 74 | 75 | 83 |
| | | 27 | 91 | 89 | 86 | 76 | 76 | 75 | 76 | 76 | 76 | 76 | 76 | 71 |
| | | 28 | 95 | 97 | 88 | 87 | 86 | 85 | 79 | 65 | 67 | 66 | 77 | 89 |
| | | 29 | 80 | 81 | 82 | 77 | 74 | 72 | 73 | 69 | 69 | 67 | 66 | 64 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 31 | 87 | 75 | 68 | 59 | 61 | 67 | 75 | 74 | 73 | 72 | 72 | 65 |
| | | Hourly Means | | 88 | 84 | 80 | 76 | 75 | 72 | 69 | 66 | 62 | 61 | 62 |
| Tension of the Vapour. | JULY. | 1 | In. .612 | In. .673 | In. .703 | In. .741 | In. .756 | In. .796 | In. .867 | In. .893 | In. .872 | In. .864 | In. .856 | In. .785 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | .294 | .300 | .362 | .351 | .334 | .350 | .372 | .407 | .385 | .425 | .450 | .453 |
| | | 4 | .337 | .382 | .401 | .457 | .466 | .414 | .458 | .438 | .457 | .441 | .468 | .455 |
| | | 5 | .407 | .397 | .375 | .354 | .407 | .427 | .476 | .468 | .412 | .390 | .405 | .393 |
| | | 6 | .298 | .328 | .311 | .388 | .458 | .437 | .376 | .374 | .395 | .436 | .444 | .460 |
| | | 7 | .396 | .421 | .448 | .450 | .578 | .490 | .422 | .421 | .399 | .426 | .402 | .413 |
| | | 8 | .386 | .435 | .455 | .440 | .438 | .409 | .383 | .358 | .327 | .336 | .357 | .412 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | .476 | .503 | .498 | .505 | .558 | .566 | .548 | .575 | .371 | .440 | .440 | .362 |
| | | 11 | .460 | .482 | .287 | .311 | .331 | .331 | .346 | .337 | .374 | .407 | .412 | .402 |
| | | 12 | .408 | .350 | .369 | .383 | .399 | .389 | .388 | .407 | .400 | .387 | .389 | .397 |
| | | 13 | .290 | .331 | .360 | .411 | .428 | .441 | .477 | .488 | .508 | .504 | .481 | .502 |
| | | 14 | .424 | .459 | .469 | .509 | .564 | .605 | .612 | .621 | .667 | .602 | .606 | .615 |
| | | 15 | .535 | .547 | .568 | .587 | .602 | .616 | .671 | .715 | .655 | .643 | .636 | .657 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | .542 | .556 | .574 | .551 | .591 | .690 | .727 | .731 | .807 | .799 | .682 | .675 |
| | | 18 | .629 | .665 | .707 | .676 | .694 | .708 | .732 | .773 | .636 | .552 | .558 | .509 |
| | | 19 | .477 | .461 | .443 | .323 | .350 | .352 | .321 | .324 | .270 | .264 | .273 | .269 |
| | | 20 | .289 | .294 | .295 | .276 | .277 | .325 | .376 | .402 | .398 | .391 | .402 | .479 |
| | | 21 | .242 | .315 | .345 | .377 | .373 | .397 | .402 | .378 | .412 | .439 | .468 | .467 |
| | | 22 | .384 | .391 | .427 | .443 | .454 | .502 | .536 | .566 | .570 | .532 | .586 | .553 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | .578 | .602 | .648 | .625 | .580 | .593 | .578 | .578 | .582 | .544 | .546 | .526 |
| | | 25 | .400 | .448 | .473 | .486 | .493 | .517 | .496 | .494 | .525 | .533 | .529 | .482 |
| | | 26 | .436 | .516 | .573 | .611 | .667 | .680 | .706 | .708 | .770 | .718 | .692 | .654 |
| | | 27 | .519 | .538 | .548 | .524 | .540 | .550 | .545 | .583 | .573 | .573 | .575 | .591 |
| | | 28 | .490 | .528 | .536 | .570 | .621 | .685 | .734 | .648 | .672 | .565 | .640 | .718 |
| | | 29 | .461 | .451 | .454 | .442 | .439 | .420 | .433 | .406 | .402 | .406 | .407 | .416 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 31 | .280 | .349 | .367 | .346 | .393 | .429 | .480 | .472 | .486 | .503 | .522 | .500 |
| | | Hourly Means | | .425 | .451 | .458 | .467 | .492 | .505 | .518 | .522 | .513 | .505 | .509 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 67 | 72 | 76 | 82 | 87 | 87 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | 80 | 81 | 88 | 90 | 89 | 88 | 72 |
| 36 | 29 | 59 | 67 | 78 | 83 | 74 | 84 | 90 | 91 | 90 | 85 | 78 |
| 77 | 71 | 79 | 77 | 81 | 85 | 87 | 86 | 90 | 90 | 90 | 90 | 68 |
| 59 | 68 | 77 | 76 | 69 | 62 | 59 | 62 | 65 | 64 | 71 | 70 | 68 |
| 56 | 66 | 73 | 79 | 84 | 84 | 82 | 76 | 83 | 79 | 78 | 96 | 69 |
| 43 | 47 | 55 | 59 | 63 | 69 | 77 | 82 | 82 | 88 | 92 | 79 | 62 |
| 40 | 48 | 53 | 63 | 70 | 79 | — | — | — | — | — | — | 72 |
| — | — | — | — | — | — | 92 | 92 | 92 | 88 | 94 | 93 | 76 |
| 57 | 61 | 59 | 67 | 66 | 70 | 78 | 81 | 82 | 85 | 86 | 86 | 69 |
| 62 | 76 | 84 | 86 | 78 | 85 | 89 | 89 | 88 | 94 | 94 | 94 | 76 |
| 48 | 56 | 77 | 78 | 81 | 83 | 77 | 77 | 78 | 79 | 78 | 81 | 69 |
| 66 | 71 | 78 | 83 | 82 | 86 | 92 | 92 | 93 | 94 | 94 | 92 | 76 |
| 73 | 73 | 76 | 80 | 87 | 88 | 86 | 91 | 91 | 91 | 89 | 90 | 79 |
| 81 | 89 | 91 | 92 | 93 | 96 | — | — | — | — | — | — | 92 |
| — | — | — | — | — | — | 89 | 92 | 91 | 91 | 94 | 94 | 95 |
| 96 | 94 | 94 | 93 | 97 | 98 | 97 | 98 | 97 | 98 | 99 | 98 | 75 |
| 49 | 59 | 72 | 64 | 65 | 75 | 75 | 79 | 82 | 84 | 89 | 90 | 62 |
| 44 | 50 | 55 | 58 | 60 | 64 | 69 | 74 | 77 | 78 | 78 | 88 | 72 |
| 55 | 58 | 73 | 77 | 80 | 88 | 90 | 89 | 88 | 90 | 86 | 92 | 69 |
| 60 | 58 | 68 | 81 | 88 | 85 | 86 | 71 | 73 | 79 | 87 | 88 | 74 |
| 57 | 59 | 71 | 83 | 84 | 92 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 80 | 85 | 81 | 96 | 96 | 97 | 74 |
| 60 | 65 | 64 | 68 | 69 | 73 | 75 | 75 | 76 | 76 | 79 | 78 | 75 |
| 60 | 62 | 62 | 74 | 82 | 86 | 82 | 88 | 90 | 88 | 86 | 91 | 88 |
| 87 | 95 | 93 | 97 | 97 | 97 | 98 | 98 | 96 | 95 | 94 | 96 | 83 |
| 72 | 76 | 89 | 87 | 87 | 88 | 91 | 92 | 92 | 91 | 93 | 96 | 85 |
| 79 | 88 | 93 | 91 | 96 | 98 | 96 | 93 | 80 | 78 | 83 | 82 | 77 |
| 58 | 67 | 73 | 80 | 72 | 73 | — | — | — | — | — | — | 71 |
| — | — | — | — | — | — | 91 | 89 | 91 | 93 | 94 | 93 | 62 |
| 72 | 74 | 62 | 61 | 62 | 63 | 71 | 69 | 72 | 74 | 72 | 93 | 75 |
| 62 | 67 | 73 | 77 | 79 | 82 | 83 | 84 | 85 | 86 | 88 | 89 | 75 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .721 | .702 | .659 | .648 | .700 | .692 | — | — | — | — | — | — | .636 |
| — | — | — | — | — | — | .306 | .304 | .294 | .277 | .284 | .284 | .334 |
| .306 | .217 | .315 | .302 | .297 | .297 | .280 | .289 | .310 | .311 | .307 | .297 | .434 |
| .453 | .448 | .447 | .430 | .439 | .449 | .448 | .439 | .439 | .427 | .416 | .414 | .355 |
| .424 | .440 | .369 | .325 | .280 | .269 | .240 | .237 | .251 | .249 | .256 | .261 | .381 |
| .419 | .443 | .398 | .397 | .409 | .401 | .399 | .384 | .404 | .394 | .358 | .409 | .400 |
| .393 | .381 | .374 | .370 | .364 | .365 | .363 | .346 | .349 | .350 | .334 | .348 | — |
| .428 | .400 | .392 | .401 | .392 | .381 | — | — | — | — | — | — | .405 |
| — | — | — | — | — | — | .444 | .442 | .438 | .415 | .422 | .434 | .399 |
| .353 | .347 | .298 | .309 | .287 | .291 | .309 | .314 | .314 | .311 | .309 | .303 | .329 |
| .357 | .398 | .357 | .322 | .263 | .261 | .252 | .251 | .246 | .239 | .234 | .235 | .348 |
| .418 | .362 | .360 | .306 | .296 | .287 | .276 | .276 | .276 | .276 | .278 | .279 | .430 |
| .514 | .451 | .434 | .430 | .429 | .425 | .431 | .414 | .408 | .397 | .385 | .378 | .545 |
| .586 | .536 | .530 | .522 | .532 | .527 | .516 | .507 | .507 | .521 | .513 | .521 | — |
| .645 | .631 | .600 | .580 | .590 | .585 | — | — | — | — | — | — | .594 |
| — | — | — | — | — | — | .529 | .541 | .531 | .525 | .527 | .530 | .635 |
| .622 | .650 | .644 | .632 | .625 | .605 | .608 | .607 | .617 | .599 | .564 | .552 | .567 |
| .518 | .545 | .508 | .468 | .469 | .468 | .460 | .461 | .460 | .462 | .466 | .472 | .319 |
| .318 | .302 | .272 | .255 | .254 | .258 | .269 | .282 | .287 | .279 | .264 | .266 | .333 |
| .440 | .404 | .375 | .331 | .315 | .303 | .291 | .282 | .271 | .268 | .258 | .246 | .379 |
| .466 | .433 | .409 | .397 | .386 | .362 | .347 | .323 | .328 | .350 | .348 | .342 | — |
| .495 | .481 | .471 | .479 | .472 | .469 | — | — | — | — | — | — | .506 |
| — | — | — | — | — | — | .544 | .542 | .536 | .573 | .563 | .570 | .487 |
| .535 | .488 | .406 | .393 | .375 | .374 | .364 | .360 | .359 | .352 | .356 | .357 | .445 |
| .473 | .421 | .394 | .420 | .411 | .388 | .375 | .359 | .364 | .402 | .403 | .393 | .587 |
| .622 | .614 | .553 | .590 | .565 | .571 | .552 | .510 | .490 | .480 | .471 | .447 | .511 |
| .540 | .503 | .497 | .456 | .445 | .522 | .435 | .450 | .460 | .471 | .460 | .455 | .631 |
| .758 | .727 | .725 | .707 | .666 | .654 | .676 | .675 | .570 | .556 | .523 | 500 | — |
| .424 | .395 | .370 | .361 | .296 | .293 | — | — | — | — | — | — | .378 |
| — | — | — | — | — | — | .321 | .306 | .302 | .297 | .285 | .277 | .383 |
| .534 | .547 | .336 | .309 | .295 | .292 | .307 | .294 | .296 | .298 | .279 | .277 | — |
| .492 | .470 | .442 | .428 | .417 | .411 | .398 | .392 | .389 | .388 | .379 | .379 | .452 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 |
| Humidity of the Air. AUGUST. | 1 | 93 | 72 | 65 | 62 | 58 | 61 | 66 | 65 | 67 | 66 | 64 |
| | 2 | 93 | 74 | 73 | 72 | 70 | 66 | 67 | 64 | 65 | 59 | 53 |
| | 3 | 95 | 88 | 83 | 79 | 77 | 69 | 73 | 67 | 62 | 59 | 59 |
| | 4 | 87 | 81 | 77 | 67 | 65 | 63 | 60 | 56 | 53 | 53 | 54 |
| | 5 | 85 | 84 | 83 | 78 | 75 | 68 | 63 | 68 | 70 | 69 | 63 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 95 | 95 | 88 | 87 | 87 | 78 | 81 | 84 | 77 | 89 | 93 |
| | 8 | 95 | 97 | 95 | 90 | 81 | 78 | 83 | 81 | 80 | 74 | 78 |
| | 9 | 96 | 96 | 93 | 86 | 88 | 83 | 81 | 76 | 73 | 75 | 80 |
| | 10 | 95 | 85 | 81 | 79 | 80 | 78 | 74 | 70 | 69 | 68 | 75 |
| | 11 | 89 | 86 | 85 | 80 | 75 | 77 | 77 | 78 | 74 | 71 | 71 |
| | 12 | 81 | 79 | 66 | 60 | 53 | 56 | 62 | 58 | 58 | 57 | 54 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 91 | 92 | 96 | 98 | 98 | 98 | 91 | 88 | 75 | 74 | 57 |
| | 15 | 93 | 88 | 82 | 77 | 75 | 71 | 71 | 73 | 74 | 71 | 73 |
| | 16 | 98 | 96 | 90 | 89 | 87 | 83 | 78 | 75 | 69 | 70 | 68 |
| | 17 | 94 | 92 | 92 | 88 | 85 | 85 | 84 | 89 | 74 | 72 | 72 |
| | 18 | 76 | 75 | 71 | 70 | 65 | 67 | 71 | 72 | 70 | 65 | 49 |
| | 19 | 85 | 85 | 78 | 76 | 61 | 65 | 66 | 66 | 62 | 63 | 66 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 88 | 83 | 76 | 73 | 66 | 62 | 62 | 60 | 63 | 60 | 61 |
| | 22 | 93 | 92 | 84 | 73 | 65 | 70 | 70 | 73 | 66 | 68 | 70 |
| | 23 | 90 | 85 | 81 | 72 | 75 | 75 | 69 | 66 | 60 | 55 | 56 |
| | 24 | 89 | 87 | 70 | 72 | 67 | 60 | 59 | 59 | 52 | 60 | 58 |
| | 25 | 90 | 89 | 88 | 85 | 78 | 65 | 60 | 67 | 62 | 69 | 70 |
| | 26 | 97 | 96 | 87 | 81 | 81 | 80 | 75 | 65 | 65 | 68 | 68 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 99 | 95 | 94 | 92 | 89 | 88 | 85 | 84 | 82 | 79 | 78 |
| | 29 | 96 | 97 | 91 | 84 | 80 | 78 | 76 | 77 | 73 | 70 | 68 |
| | 30 | 88 | 91 | 91 | 89 | 82 | 82 | 80 | 77 | 75 | 68 | 64 |
| | 31 | 95 | 89 | 84 | 76 | 67 | 78 | 76 | 73 | 68 | 64 | 64 |
| Hourly Means | 91 | 88 | 83 | 79 | 75 | 73 | 73 | 72 | 68 | 67 | 66 | |
| Tension of the Vapour. AUGUST. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| | 1 | .356 | .325 | .324 | .338 | .353 | .361 | .404 | .404 | .444 | .472 | .440 |
| | 2 | .306 | .293 | .363 | .391 | .406 | .398 | .439 | .453 | .487 | .472 | .465 |
| | 3 | .369 | .421 | .458 | .476 | .505 | .511 | .578 | .561 | .570 | .552 | .575 |
| | 4 | .404 | .451 | .489 | .474 | .488 | .508 | .498 | .489 | .475 | .482 | .485 |
| | 5 | .505 | .519 | .547 | .580 | .631 | .608 | .566 | .628 | .598 | .610 | .561 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | .573 | .644 | .672 | .698 | .717 | .714 | .670 | .727 | .718 | .662 | .701 |
| | 8 | .540 | .601 | .622 | .642 | .608 | .618 | .650 | .654 | .655 | .625 | .672 |
| | 9 | .393 | .441 | .487 | .515 | .569 | .580 | .603 | .595 | .575 | .594 | .586 |
| | 10 | .479 | .494 | .527 | .555 | .600 | .624 | .631 | .635 | .581 | .591 | .674 |
| | 11 | .465 | .468 | .498 | .529 | .534 | .597 | .618 | .618 | .642 | .627 | .656 |
| | 12 | .428 | .442 | .463 | .474 | .465 | .534 | .576 | .555 | .569 | .564 | .574 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | .613 | .627 | .656 | .649 | .670 | .670 | .712 | .750 | .722 | .660 | .572 |
| | 15 | .457 | .486 | .503 | .524 | .517 | .506 | .510 | .565 | .538 | .637 | .567 |
| | 16 | .443 | .506 | .553 | .594 | .623 | .654 | .677 | .706 | .682 | .710 | .707 |
| | 17 | .569 | .580 | .595 | .635 | .644 | .691 | .653 | .715 | .637 | .632 | .657 |
| | 18 | .404 | .412 | .407 | .414 | .419 | .453 | .517 | .548 | .543 | .501 | .376 |
| | 19 | .335 | .377 | .385 | .422 | .376 | .433 | .465 | .453 | .450 | .437 | .447 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | .397 | .403 | .413 | .425 | .407 | .396 | .432 | .443 | .468 | .459 | .474 |
| | 22 | .398 | .423 | .433 | .435 | .423 | .489 | .489 | .530 | .512 | .517 | .542 |
| | 23 | .378 | .388 | .426 | .454 | .533 | .536 | .522 | .504 | .500 | .466 | .479 |
| | 24 | .306 | .364 | .376 | .433 | .448 | .427 | .447 | .461 | .436 | .507 | .510 |
| | 25 | .351 | .397 | .582 | .548 | .556 | .490 | .466 | .555 | .568 | .577 | .580 |
| | 26 | .421 | .501 | .541 | .571 | .622 | .647 | .673 | .667 | .669 | .704 | .704 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | .610 | .602 | .616 | .650 | .640 | .685 | .680 | .702 | .721 | .727 | .707 |
| | 29 | .527 | .569 | .609 | .621 | .625 | .644 | .655 | .686 | .679 | .636 | .588 |
| | 30 | .430 | .500 | .562 | .629 | .676 | .670 | .716 | .751 | .747 | .728 | .702 |
| 31 | .587 | .651 | .677 | .682 | .661 | .737 | .741 | .740 | .730 | .703 | .720 | |
| Hourly Means | .446 | .477 | .507 | .532 | .545 | .555 | .577 | .596 | .589 | .589 | .586 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 59 | 72 | 79 | 80 | 88 | 87 | 88 | 89 | 86 | 91 | 92 | 93 | 75 |
| 68 | 59 | 84 | 88 | 92 | 85 | 90 | 90 | 93 | 94 | 94 | 96 | 77 |
| 65 | 83 | 88 | 86 | 85 | 85 | 88 | 88 | 91 | 91 | 91 | 92 | 79 |
| 52 | 58 | 66 | 69 | 67 | 65 | 61 | 61 | 76 | 78 | 81 | 81 | 66 |
| 68 | 80 | 81 | 80 | 84 | 83 | — | — | — | — | — | — | 80 |
| — | — | — | — | — | — | 92 | 94 | 95 | 95 | 95 | 95 | — |
| 91 | 89 | 92 | 92 | 94 | 96 | 97 | 97 | 95 | 95 | 95 | 96 | 91 |
| 77 | 86 | 92 | 88 | 87 | 91 | 92 | 93 | 91 | 96 | 96 | 96 | 87 |
| 73 | 86 | 92 | 93 | 94 | 97 | 88 | 91 | 89 | 93 | 95 | 96 | 87 |
| 75 | 79 | 90 | 91 | 85 | 78 | 82 | 83 | 89 | 87 | 86 | 82 | 80 |
| 62 | 81 | 85 | 73 | 78 | 78 | 74 | 83 | 84 | 82 | 88 | 91 | 79 |
| 56 | 69 | 78 | 86 | 84 | 91 | — | — | — | — | — | — | 72 |
| — | — | — | — | — | — | 87 | 87 | 88 | 93 | 94 | 92 | — |
| 62 | 67 | 84 | 88 | 86 | 85 | 89 | 90 | 89 | 90 | 88 | 93 | 84 |
| 74 | 82 | 93 | 94 | 94 | 95 | 95 | 94 | 96 | 96 | 96 | 94 | 84 |
| 66 | 67 | 78 | 88 | 88 | 83 | 90 | 92 | 92 | 90 | 95 | 88 | 83 |
| 79 | 84 | 87 | 91 | 90 | 92 | 94 | 95 | 92 | 88 | 93 | 87 | 86 |
| 62 | 62 | 67 | 60 | 54 | 68 | 73 | 73 | 79 | 82 | 90 | 89 | 69 |
| 73 | 68 | 60 | 63 | 63 | 63 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 94 | 93 | 94 | 90 | 96 | 89 | 74 |
| 66 | 82 | 89 | 88 | 92 | 93 | 91 | 91 | 93 | 92 | 95 | 95 | 79 |
| 74 | 83 | 89 | 87 | 89 | 90 | 91 | 92 | 92 | 92 | 80 | 90 | 81 |
| 68 | 77 | 70 | 78 | 69 | 71 | 66 | 69 | 73 | 84 | 89 | 89 | 73 |
| 69 | 77 | 83 | 80 | 80 | 88 | 93 | 90 | 92 | 96 | 96 | 94 | 76 |
| 82 | 90 | 93 | 93 | 93 | 94 | 96 | 96 | 97 | 96 | 91 | 96 | 84 |
| 79 | 82 | 87 | 89 | 91 | 87 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 98 | 98 | 98 | 98 | 98 | 98 | 85 |
| 81 | 90 | 95 | 95 | 95 | 97 | 97 | 97 | 96 | 96 | 96 | 97 | 91 |
| 68 | 83 | 88 | 94 | 94 | 96 | 96 | 95 | 93 | 91 | 92 | 95 | 85 |
| 73 | 80 | 87 | 89 | 96 | 97 | 93 | 88 | 89 | 91 | 92 | 94 | 84 |
| 63 | 80 | 73 | 73 | 73 | 90 | 85 | 91 | 92 | 93 | 94 | 94 | 79 |
| 70 | 78 | 83 | 84 | 85 | 86 | 88 | 89 | 90 | 91 | 92 | 92 | 80 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .458 | .437 | .396 | .357 | .343 | .338 | .320 | .309 | .294 | .303 | .288 | .274 | .367 |
| .461 | .388 | .451 | .417 | .419 | .363 | .360 | .349 | .362 | .337 | .331 | .335 | .395 |
| .570 | .567 | .499 | .441 | .415 | .403 | .408 | .403 | .399 | .395 | .389 | .380 | .475 |
| .453 | .411 | .402 | .396 | .386 | .381 | .377 | .396 | .424 | .408 | .426 | .464 | .445 |
| .559 | .556 | .538 | .516 | .526 | .508 | — | — | — | — | — | — | .561 |
| — | — | — | — | — | — | .546 | .551 | .558 | .552 | .563 | .554 | — |
| .677 | .649 | .641 | .624 | .615 | .609 | .588 | .574 | .552 | .551 | .541 | .535 | .639 |
| .636 | .629 | .580 | .537 | .508 | .464 | .450 | .437 | .405 | .395 | .412 | .382 | .554 |
| .575 | .557 | .514 | .492 | .483 | .483 | .452 | .487 | .492 | .496 | .476 | .431 | .519 |
| .579 | .548 | .524 | .509 | .492 | .470 | .468 | .465 | .465 | .460 | .458 | .443 | .533 |
| .598 | .557 | .528 | .464 | .477 | .470 | .427 | .476 | .477 | .450 | .417 | .416 | .528 |
| .560 | .551 | .581 | .541 | .519 | .471 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .481 | .464 | .460 | .546 | .569 | .585 | .520 |
| .613 | .540 | .559 | .540 | .507 | .491 | .501 | .471 | .462 | .461 | .456 | .442 | .580 |
| .594 | .543 | .513 | .494 | .471 | .445 | .435 | .413 | .408 | .405 | .416 | .401 | .496 |
| .625 | .548 | .577 | .556 | .553 | .533 | .511 | .523 | .531 | .569 | .587 | .536 | .599 |
| .606 | .588 | .584 | .591 | .576 | .559 | .576 | .571 | .495 | .446 | .433 | .436 | .587 |
| .488 | .383 | .369 | .306 | .271 | .317 | .321 | .322 | .326 | .321 | .312 | .320 | .395 |
| .461 | .391 | .310 | .323 | .316 | .319 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .413 | .417 | .414 | .382 | .403 | .386 | .397 |
| .481 | .434 | .409 | .382 | .390 | .383 | .372 | .378 | .377 | .367 | .366 | .361 | .415 |
| .522 | .486 | .469 | .449 | .441 | .436 | .418 | .410 | .401 | .400 | .357 | .349 | .451 |
| .565 | .477 | .381 | .383 | .351 | .336 | .325 | .323 | .327 | .303 | .296 | .291 | .419 |
| .472 | .460 | .434 | .414 | .401 | .387 | .392 | .370 | .359 | .354 | .338 | .326 | .414 |
| .608 | .593 | .540 | .509 | .484 | .473 | .461 | .436 | .436 | .423 | .403 | .408 | .498 |
| .643 | .607 | .584 | .581 | .562 | .573 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .631 | .631 | .628 | .619 | .603 | .597 | .610 |
| .646 | .613 | .592 | .554 | .538 | .541 | .542 | .548 | .539 | .522 | .520 | .501 | .612 |
| .578 | .554 | .521 | .511 | .503 | .504 | .504 | .486 | .460 | .447 | .434 | .417 | .556 |
| .678 | .617 | .607 | .586 | .594 | .590 | .579 | .575 | .558 | .575 | .579 | .571 | .622 |
| .700 | .660 | .574 | .590 | .563 | .598 | .574 | .571 | .546 | .535 | .532 | .541 | .639 |
| .571 | .531 | .507 | .484 | .471 | .461 | .460 | .458 | .450 | .445 | .441 | .433 | .512 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | SEPTEMBER. | 1 | 93 | 91 | 92 | 86 | 83 | 81 | 81 | 79 | 77 | 86 | 75 | 77 | |
| | | 2 | 96 | 94 | 91 | 95 | 93 | 86 | 84 | 81 | 78 | 81 | 79 | 78 | |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 4 | 90 | 89 | 75 | 72 | 66 | 63 | 60 | 67 | 68 | 55 | 52 | 55 | |
| | | 5 | 65 | 71 | 69 | 71 | 71 | 71 | 70 | 70 | 68 | 68 | 68 | 71 | 74 |
| | | 6 | 83 | 81 | 80 | 71 | 71 | 72 | 75 | 81 | 72 | 74 | 74 | 78 | 80 |
| | | 7 | 94 | 95 | 99 | 87 | 85 | 84 | 78 | 78 | 76 | 76 | 76 | 77 | 74 |
| | | 8 | 94 | 92 | 89 | 85 | 85 | 86 | 78 | 86 | 86 | 73 | 73 | 73 | 61 |
| | | 9 | 72 | 69 | 58 | 54 | 46 | 49 | 49 | 46 | 45 | 42 | 42 | 40 | 38 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | 81 | 75 | 61 | 54 | 50 | 49 | 52 | 52 | 51 | 53 | 53 | 55 | 53 |
| | | 12 | 80 | 73 | 67 | 68 | 70 | 69 | 68 | 64 | 64 | 64 | 65 | 59 | 55 |
| | | 13 | 76 | 80 | 67 | 65 | 66 | 67 | 72 | 71 | 74 | 72 | 72 | 76 | 77 |
| | | 14 | 95 | 95 | 92 | 93 | 95 | 97 | 97 | 97 | 96 | 96 | 96 | 96 | 96 |
| | | 15 | 97 | 97 | 97 | 98 | 97 | 97 | 97 | 97 | 97 | 94 | 92 | 74 | 74 |
| | | 16 | 89 | 87 | 81 | 78 | 71 | 67 | 71 | 75 | 79 | 78 | 78 | 79 | 71 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | 94 | 94 | 75 | 69 | 65 | 68 | 68 | 59 | 58 | 62 | 63 | 63 | 68 |
| | | 19 | 93 | 87 | 85 | 79 | 77 | 78 | 76 | 74 | 77 | 79 | 77 | 77 | 77 |
| | | 20 | 97 | 86 | 85 | 87 | 91 | 94 | 94 | 92 | 87 | 84 | 85 | 85 | 89 |
| | | 21 | 100 | 99 | 99 | 82 | 71 | 68 | 60 | 57 | 55 | 57 | 76 | 76 | 84 |
| | | 22 | 83 | 76 | 74 | 71 | 71 | 70 | 71 | 69 | 66 | 72 | 70 | 76 | 76 |
| | | 23 | 95 | 96 | 94 | 90 | 85 | 87 | 86 | 84 | 81 | 81 | 79 | 79 | 79 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | 97 | 97 | 96 | 96 | 96 | 92 | 92 | 95 | 95 | 95 | 88 | 89 | 89 |
| | | 26 | 84 | 83 | 80 | 77 | 73 | 75 | 69 | 69 | 67 | 64 | 62 | 64 | 64 |
| | | 27 | 82 | 78 | 72 | 70 | 69 | 64 | 60 | 57 | 56 | 56 | 51 | 52 | 52 |
| | | 28 | 95 | 91 | 87 | 87 | 74 | 72 | 71 | 69 | 66 | 71 | 74 | 79 | 79 |
| | | 29 | 93 | 93 | 89 | 88 | 86 | 86 | 82 | 84 | 80 | 78 | 78 | 81 | 81 |
| | | 30 | 97 | 95 | 97 | 89 | 89 | 89 | 85 | 82 | 76 | 73 | 73 | 83 | 83 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | 89 | 87 | 83 | 79 | 77 | 76 | 75 | 74 | 72 | 72 | 72 | 72 | | |
| Tension of the Vapour. | SEPTEMBER. | 1 | .566 | .615 | .660 | .624 | .656 | .719 | .739 | .742 | .718 | .720 | .742 | .730 | |
| | | 2 | .590 | .627 | .656 | .666 | .713 | .761 | .793 | .855 | .815 | .839 | .777 | .783 | |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 4 | .576 | .590 | .526 | .552 | .534 | .552 | .560 | .662 | .692 | .544 | .501 | .501 | .512 |
| | | 5 | .352 | .424 | .369 | .407 | .424 | .465 | .489 | .504 | .497 | .513 | .541 | .501 | .501 |
| | | 6 | .427 | .427 | .444 | .431 | .445 | .513 | .518 | .564 | .531 | .517 | .543 | .544 | .544 |
| | | 7 | .569 | .580 | .594 | .590 | .583 | .595 | .581 | .606 | .596 | .578 | .596 | .538 | .538 |
| | | 8 | .511 | .512 | .506 | .540 | .569 | .614 | .604 | .621 | .622 | .609 | .607 | .460 | .460 |
| | | 9 | .236 | .240 | .220 | .229 | .211 | .233 | .243 | .245 | .252 | .244 | .225 | .211 | .211 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | .212 | .243 | .236 | .226 | .224 | .237 | .269 | .282 | .282 | .305 | .320 | .319 | .319 |
| | | 12 | .221 | .225 | .235 | .271 | .301 | .318 | .343 | .324 | .339 | .358 | .327 | .301 | .301 |
| | | 13 | .236 | .295 | .285 | .300 | .313 | .324 | .348 | .352 | .356 | .356 | .362 | .366 | .366 |
| | | 14 | .409 | .401 | .393 | .395 | .401 | .420 | .425 | .426 | .428 | .428 | .413 | .405 | .405 |
| | | 15 | .470 | .466 | .466 | .479 | .500 | .492 | .507 | .556 | .593 | .621 | .544 | .527 | .527 |
| | | 16 | .409 | .417 | .430 | .435 | .428 | .437 | .474 | .516 | .540 | .524 | .539 | .449 | .449 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | .530 | .655 | .535 | .491 | .485 | .526 | .554 | .504 | .489 | .486 | .484 | .482 | .482 |
| | | 19 | .330 | .358 | .394 | .406 | .424 | .444 | .457 | .460 | .452 | .460 | .450 | .433 | .433 |
| | | 20 | .432 | .422 | .440 | .471 | .485 | .500 | .498 | .562 | .586 | .557 | .568 | .536 | .536 |
| | | 21 | .530 | .594 | .636 | .734 | .724 | .731 | .676 | .672 | .673 | .660 | .700 | .695 | .695 |
| | | 22 | .263 | .267 | .297 | .300 | .309 | .315 | .330 | .338 | .305 | .325 | .315 | .339 | .339 |
| | | 23 | .428 | .441 | .480 | .495 | .505 | .518 | .571 | .647 | .641 | .649 | .681 | .675 | .675 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | .412 | .409 | .408 | .408 | .405 | .407 | .412 | .441 | .449 | .435 | .408 | .399 | .399 |
| | | 26 | .269 | .264 | .247 | .254 | .229 | .237 | .226 | .233 | .223 | .223 | .209 | .206 | .206 |
| | | 27 | .181 | .176 | .161 | .161 | .182 | .177 | .186 | .186 | .194 | .210 | .195 | .200 | .200 |
| | | 28 | .185 | .194 | .216 | .237 | .244 | .263 | .289 | .297 | .296 | .318 | .304 | .345 | .345 |
| | | 29 | .259 | .275 | .299 | .325 | .362 | .399 | .410 | .421 | .440 | .439 | .418 | .428 | .428 |
| | | 30 | .264 | .280 | .356 | .361 | .394 | .430 | .428 | .430 | .414 | .385 | .377 | .379 | .379 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | .380 | .399 | .404 | .415 | .425 | .447 | .459 | .479 | .475 | .473 | .467 | .452 | | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 77 | 80 | 88 | 89 | 93 | 92 | 93 | 93 | 93 | 93 | 89 | 92 | 86 |
| 92 | 93 | 96 | 96 | 99 | 98 | — | — | — | — | — | — | 89 |
| — | — | — | — | — | — | 87 | 87 | 84 | 87 | 79 | 90 | 89 |
| 61 | 68 | 69 | 78 | 80 | 87 | 83 | 83 | 83 | 76 | 70 | 57 | 72 |
| 78 | 87 | 91 | 92 | 94 | 92 | 92 | 88 | 88 | 80 | 85 | 83 | 79 |
| 84 | 86 | 87 | 87 | 88 | 92 | 75 | 80 | 82 | 87 | 96 | 94 | 82 |
| 78 | 84 | 85 | 85 | 85 | 85 | 85 | 88 | 93 | 95 | 95 | 95 | 85 |
| 61 | 65 | 65 | 63 | 62 | 60 | 60 | 65 | 67 | 67 | 68 | 69 | 73 |
| 53 | 57 | 61 | 64 | 72 | 76 | — | — | — | — | — | — | 60 |
| — | — | — | — | — | — | 69 | 72 | 72 | 75 | 78 | 85 | 68 |
| 65 | 80 | 76 | 79 | 87 | 85 | 85 | 82 | 82 | 82 | 75 | 79 | 71 |
| 62 | 72 | 82 | 88 | 84 | 84 | 84 | 80 | 71 | 66 | 66 | 68 | 76 |
| 77 | 81 | 74 | 72 | 71 | 73 | 75 | 80 | 82 | 88 | 96 | 94 | 96 |
| 96 | 97 | 96 | 96 | 96 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 91 |
| 82 | 86 | 89 | 89 | 91 | 89 | 91 | 92 | 90 | 90 | 84 | 88 | 83 |
| 79 | 82 | 88 | 89 | 91 | 93 | — | — | — | — | — | — | 77 |
| — | — | — | — | — | — | 87 | 90 | 90 | 91 | 97 | 95 | 83 |
| 67 | 66 | 72 | 70 | 79 | 90 | 94 | 94 | 89 | 94 | 95 | 90 | 77 |
| 80 | 83 | 87 | 90 | 89 | 95 | 84 | 84 | 82 | 81 | 81 | 94 | 83 |
| 94 | 96 | 97 | 96 | 91 | 97 | 97 | 97 | 97 | 97 | 97 | 97 | 93 |
| 81 | 74 | 76 | 73 | 86 | 82 | 69 | 69 | 81 | 82 | 74 | 81 | 77 |
| 64 | 69 | 65 | 67 | 68 | 74 | 80 | 86 | 87 | 83 | 85 | 92 | 75 |
| 84 | 89 | 89 | 88 | 87 | 86 | — | — | — | — | — | — | 89 |
| — | — | — | — | — | — | 96 | 95 | 95 | 93 | 96 | 97 | 90 |
| 85 | 87 | 87 | 87 | 87 | 88 | 91 | 83 | 85 | 83 | 85 | 85 | 73 |
| 65 | 73 | 78 | 76 | 68 | 71 | 74 | 72 | 78 | 72 | 74 | 82 | 76 |
| 71 | 83 | 90 | 81 | 82 | 85 | 87 | 90 | 94 | 94 | 95 | 93 | 85 |
| 89 | 92 | 94 | 95 | 95 | 95 | 95 | 97 | 94 | 95 | 97 | 92 | 88 |
| 86 | 86 | 81 | 85 | 93 | 93 | 94 | 94 | 96 | 95 | 95 | 95 | 85 |
| 78 | 80 | 80 | 92 | 95 | 97 | — | — | — | — | — | — | 85 |
| — | — | — | — | — | — | 74 | 81 | 78 | 88 | 89 | 88 | 81 |
| 77 | 81 | 82 | 83 | 85 | 87 | 85 | 85 | 86 | 86 | 86 | 88 | 81 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·670 | ·635 | ·678 | ·660 | ·622 | ·569 | ·665 | ·648 | ·640 | ·619 | ·584 | ·580 | ·659 |
| ·790 | ·773 | ·780 | ·762 | ·765 | ·724 | — | — | — | — | — | — | ·723 |
| — | — | — | — | — | — | ·704 | ·692 | ·674 | ·689 | ·560 | ·564 | ·511 |
| ·510 | ·483 | ·466 | ·490 | ·483 | ·486 | ·480 | ·470 | ·453 | ·418 | ·378 | ·356 | ·452 |
| ·507 | ·486 | ·462 | ·443 | ·434 | ·432 | ·437 | ·430 | ·423 | ·403 | ·431 | ·427 | ·485 |
| ·549 | ·556 | ·561 | ·562 | ·570 | ·564 | ·371 | ·384 | ·387 | ·400 | ·423 | ·418 | ·543 |
| ·541 | ·534 | ·516 | ·495 | ·494 | ·495 | ·495 | ·512 | ·474 | ·466 | ·502 | ·504 | ·425 |
| ·403 | ·387 | ·351 | ·300 | ·284 | ·260 | ·246 | ·252 | ·247 | ·237 | ·235 | ·232 | ·227 |
| ·228 | ·222 | ·214 | ·216 | ·230 | ·230 | — | — | — | — | — | — | ·252 |
| — | — | — | — | — | — | ·226 | ·226 | ·217 | ·216 | ·216 | ·212 | ·270 |
| ·299 | ·278 | ·249 | ·242 | ·242 | ·226 | ·224 | ·230 | ·230 | ·229 | ·219 | ·223 | ·369 |
| ·283 | ·247 | ·247 | ·259 | ·235 | ·231 | ·230 | ·229 | ·240 | ·233 | ·244 | ·245 | ·427 |
| ·376 | ·401 | ·374 | ·378 | ·375 | ·364 | ·371 | ·384 | ·387 | ·401 | ·423 | ·418 | ·484 |
| ·402 | ·409 | ·415 | ·419 | ·431 | ·445 | ·454 | ·459 | ·469 | ·472 | ·470 | ·470 | ·489 |
| ·497 | ·483 | ·486 | ·449 | ·450 | ·461 | ·458 | ·451 | ·425 | ·423 | ·399 | ·403 | ·433 |
| ·454 | ·447 | ·447 | ·409 | ·436 | ·442 | — | — | — | — | — | — | ·413 |
| — | — | — | — | — | — | ·572 | ·566 | ·584 | ·587 | ·629 | ·576 | ·488 |
| ·445 | ·396 | ·381 | ·347 | ·345 | ·344 | ·335 | ·323 | ·308 | ·308 | ·334 | ·303 | ·527 |
| ·418 | ·405 | ·398 | ·400 | ·390 | ·421 | ·405 | ·406 | ·403 | ·395 | ·387 | ·426 | ·316 |
| ·514 | ·503 | ·501 | ·478 | ·437 | ·453 | ·444 | ·449 | ·470 | ·470 | ·480 | ·465 | ·536 |
| ·604 | ·483 | ·463 | ·412 | ·437 | ·406 | ·328 | ·316 | ·314 | ·299 | ·267 | ·271 | ·368 |
| ·271 | ·286 | ·280 | ·284 | ·271 | ·282 | ·348 | ·349 | ·358 | ·362 | ·388 | ·412 | ·211 |
| ·601 | ·590 | ·609 | ·637 | ·621 | ·606 | — | — | — | — | — | — | ·188 |
| — | — | — | — | — | — | ·420 | ·415 | ·412 | ·398 | ·412 | ·413 | ·256 |
| ·360 | ·353 | ·349 | ·344 | ·336 | ·334 | ·333 | ·292 | ·290 | ·278 | ·280 | ·280 | ·339 |
| ·203 | ·210 | ·219 | ·210 | ·181 | ·178 | ·179 | ·171 | ·182 | ·168 | ·167 | ·182 | ·369 |
| ·212 | ·206 | ·201 | ·189 | ·191 | ·192 | ·189 | ·192 | ·183 | ·177 | ·178 | ·183 | — |
| ·294 | ·266 | ·250 | ·244 | ·245 | ·238 | ·228 | ·228 | ·227 | ·240 | ·247 | ·244 | — |
| ·403 | ·356 | ·333 | ·334 | ·317 | ·286 | ·276 | ·292 | ·276 | ·273 | ·261 | ·257 | — |
| ·349 | ·360 | ·364 | ·416 | ·435 | ·440 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·328 | ·346 | ·327 | ·340 | ·334 | ·323 | — |
| ·430 | ·410 | ·407 | ·399 | ·394 | ·389 | ·375 | ·374 | ·369 | ·365 | ·360 | ·361 | ·413 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|----------|------------------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | OCTOBER. | 2 | 86 | 81 | 76 | 71 | 70 | 65 | 58 | 54 | 50 | 58 | 56 | 58 | |
| | | 3 | 92 | 83 | 78 | 72 | 68 | 64 | 60 | 67 | 69 | 63 | 64 | 78 | |
| | | 4 | 80 | 76 | 71 | 62 | 62 | 59 | 77 | 77 | 73 | 76 | 56 | 53 | |
| | | 5 | 93 | 93 | 85 | 83 | 81 | 84 | 80 | 78 | 73 | 71 | 71 | 71 | 78 |
| | | 6 | 93 | 96 | 97 | 92 | 83 | 86 | 84 | 82 | 79 | 84 | 84 | 86 | 87 |
| | | 7 | 99 | 92 | 96 | 97 | 97 | 99 | 97 | 97 | 98 | 98 | 97 | 99 | 97 |
| | | 8 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 9 | 96 | 96 | 97 | 87 | 85 | 84 | 81 | 79 | 83 | 84 | 84 | 84 | 84 |
| | | 10 | 98 | 90 | 84 | 78 | 87 | 86 | 88 | 85 | 82 | 81 | 81 | 81 | 83 |
| | | 11 | 93 | 94 | 92 | 91 | 91 | 95 | 96 | 96 | 97 | 96 | 96 | 96 | 97 |
| | | 12 | 95 | 90 | 87 | 81 | 73 | 68 | 65 | 77 | 66 | 70 | 72 | 72 | 71 |
| | | 13 | 91 | 87 | 82 | 80 | 74 | 71 | 67 | 59 | 58 | 55 | 59 | 59 | 70 |
| | | 14 | 93 | 91 | 87 | 87 | 80 | 68 | 73 | 79 | 80 | 84 | 74 | 74 | 73 |
| | | 15 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 16 | 93 | 95 | 92 | 88 | 84 | 79 | 84 | 74 | 72 | 74 | 78 | 78 | 90 |
| | | 17 | 84 | 91 | 92 | 82 | 72 | 61 | 60 | 59 | 59 | 59 | 59 | 71 | 69 |
| | | 18 | 82 | 82 | 82 | 77 | 73 | 61 | 52 | 56 | 66 | 63 | 70 | 70 | 68 |
| | | 19 | 92 | 91 | 93 | 73 | 69 | 71 | 61 | 58 | 59 | 69 | 70 | 70 | 70 |
| | | 20 | 93 | 93 | 89 | 88 | 82 | 79 | 78 | 76 | 79 | 73 | 73 | 73 | 77 |
| | | 21 | 93 | 93 | 89 | 86 | 84 | 81 | 76 | 73 | 69 | 68 | 64 | 64 | 68 |
| | | 22 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 23 | 93 | 94 | 83 | 74 | 70 | 63 | 79 | 73 | 75 | 71 | 72 | 72 | 78 |
| | | 24 | 92 | 96 | 95 | 69 | 50 | 82 | 82 | 78 | 70 | 69 | 73 | 73 | 83 |
| | | 25 | 98 | 96 | 97 | 94 | 93 | 73 | 64 | 63 | 55 | 56 | 70 | 70 | 69 |
| | | 26 | 96 | 96 | 95 | 87 | 73 | 62 | 48 | 68 | 60 | 70 | 73 | 73 | 78 |
| | | 27 | 95 | 92 | 95 | 95 | 93 | 98 | 87 | 87 | 87 | 87 | 87 | 87 | 89 |
| | | 28 | 88 | 92 | 89 | 87 | 68 | 56 | 65 | 70 | 73 | 72 | 71 | 71 | 79 |
| | | 29 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 30 | 80 | 80 | 89 | 79 | 70 | 62 | 56 | 78 | 73 | 78 | 75 | 75 | 70 |
| | | 31 | 87 | 91 | 88 | 80 | 69 | 65 | 61 | 56 | 89 | 67 | 71 | 71 | 91 |
| | | Hourly Means | | 91 | 90 | 87 | 82 | 77 | 74 | 72 | 73 | 73 | 73 | 74 | 77 |
| | | Tension of the Vapour. | OCTOBER. | 2 | .323 | .317 | .311 | .312 | .314 | .303 | .294 | .281 | .258 | .288 | .283 |
| 3 | .262 | | | .260 | .253 | .256 | .259 | .253 | .239 | .260 | .264 | .249 | .252 | .273 | |
| 4 | .222 | | | .218 | .218 | .210 | .224 | .228 | .263 | .294 | .272 | .270 | .213 | .202 | |
| 5 | .202 | | | .229 | .253 | .269 | .293 | .310 | .325 | .344 | .339 | .349 | .340 | .338 | |
| 6 | .255 | | | .312 | .353 | .397 | .403 | .431 | .456 | .457 | .450 | .448 | .423 | .431 | |
| 7 | .433 | | | .410 | .403 | .406 | .412 | .421 | .419 | .424 | .433 | .432 | .428 | .400 | |
| 8 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 9 | .204 | | | .221 | .254 | .263 | .277 | .279 | .288 | .302 | .285 | .279 | .276 | .274 | |
| 10 | .223 | | | .219 | .236 | .249 | .270 | .280 | .293 | .291 | .304 | .285 | .276 | .266 | |
| 11 | .326 | | | .335 | .330 | .338 | .343 | .356 | .368 | .370 | .380 | .374 | .371 | .372 | |
| 12 | .286 | | | .228 | .275 | .285 | .278 | .266 | .258 | .279 | .249 | .254 | .247 | .240 | |
| 13 | .186 | | | .185 | .191 | .206 | .205 | .203 | .203 | .184 | .179 | .171 | .180 | .189 | |
| 14 | .162 | | | .166 | .174 | .190 | .189 | .176 | .187 | .210 | .213 | .218 | .194 | .184 | |
| 15 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 16 | .217 | | | .222 | .223 | .225 | .236 | .234 | .269 | .235 | .226 | .224 | .233 | .241 | |
| 17 | .191 | | | .202 | .210 | .202 | .178 | .164 | .160 | .159 | .160 | .158 | .182 | .167 | |
| 18 | .188 | | | .190 | .198 | .201 | .217 | .195 | .178 | .184 | .216 | .212 | .218 | .201 | |
| 19 | .165 | | | .171 | .195 | .182 | .196 | .199 | .183 | .182 | .198 | .235 | .223 | .206 | |
| 20 | .243 | | | .252 | .263 | .285 | .290 | .302 | .308 | .319 | .350 | .330 | .345 | .331 | |
| 21 | .356 | | | .336 | .314 | .307 | .294 | .271 | .244 | .226 | .207 | .197 | .169 | .170 | |
| 22 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 23 | .128 | | | .136 | .144 | .143 | .147 | .138 | .185 | .175 | .188 | .180 | .184 | .182 | |
| 24 | .144 | | | .148 | .164 | .146 | .119 | .204 | .219 | .217 | .210 | .206 | .209 | .204 | |
| 25 | .219 | | | .222 | .231 | .247 | .277 | .242 | 208 | .186 | .166 | .167 | .171 | .157 | |
| 26 | .146 | | | .142 | .154 | .165 | .153 | .136 | .114 | .157 | .154 | .164 | .156 | .158 | |
| 27 | .150 | | | .142 | .148 | .154 | .159 | .177 | .156 | .156 | .156 | .160 | .162 | .162 | |
| 28 | .142 | | | .146 | .155 | .164 | .145 | .128 | .158 | .180 | .181 | .187 | .177 | .173 | |
| 29 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 30 | .161 | | | .159 | .177 | .164 | .151 | .142 | .129 | .158 | .151 | .153 | .143 | .131 | |
| 31 | .133 | | | .135 | .144 | .143 | .136 | .138 | .135 | .127 | .175 | .157 | .159 | .192 | |
| Hourly Means | | | | .218 | .219 | .230 | .235 | .237 | .238 | .240 | .244 | .245 | .244 | .239 | .235 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 72 | 77 | 90 | 77 | 77 | 87 | 85 | 71 | 83 | 87 | 91 | 89 | 74 |
| 78 | 78 | 77 | 79 | 83 | 87 | 89 | 92 | 94 | 91 | 88 | 88 | 78 |
| 62 | 75 | 77 | 83 | 87 | 90 | 89 | 90 | 92 | 92 | 93 | 97 | 77 |
| 89 | 81 | 85 | 92 | 93 | 92 | 92 | 88 | 91 | 95 | 94 | 95 | 86 |
| 91 | 91 | 88 | 91 | 96 | 97 | 98 | 98 | 98 | 99 | 99 | 99 | 91 |
| 97 | 97 | 97 | 98 | 88 | 90 | — | — | — | — | — | — | 96 |
| — | — | — | — | — | — | 87 | 94 | 98 | 97 | 98 | 98 | 98 |
| 87 | 88 | 88 | 93 | 94 | 97 | 94 | 94 | 96 | 95 | 93 | 98 | 89 |
| 86 | 91 | 88 | 89 | 89 | 90 | 93 | 93 | 92 | 93 | 94 | 93 | 88 |
| 96 | 96 | 96 | 97 | 92 | 96 | 89 | 93 | 92 | 91 | 95 | 95 | 94 |
| 74 | 81 | 85 | 91 | 92 | 93 | 95 | 96 | 96 | 95 | 94 | 93 | 83 |
| 79 | 80 | 83 | 89 | 96 | 95 | 93 | 91 | 92 | 93 | 94 | 93 | 80 |
| 74 | 86 | 81 | 79 | 80 | 79 | — | — | — | — | — | — | 84 |
| — | — | — | — | — | — | 95 | 95 | 93 | 95 | 95 | 95 | 86 |
| 95 | 95 | 94 | 90 | 87 | 88 | 87 | 88 | 85 | 85 | 86 | 86 | 86 |
| 72 | 72 | 72 | 78 | 74 | 73 | 79 | 82 | 81 | 81 | 92 | 82 | 75 |
| 74 | 80 | 76 | 78 | 93 | 86 | 93 | 91 | 90 | 91 | 94 | 93 | 78 |
| 84 | 85 | 88 | 93 | 94 | 96 | 95 | 97 | 96 | 96 | 96 | 95 | 83 |
| 78 | 81 | 80 | 81 | 82 | 84 | 86 | 83 | 84 | 84 | 85 | 86 | 82 |
| 71 | 79 | 73 | 78 | 81 | 82 | — | — | — | — | — | — | 79 |
| — | — | — | — | — | — | 81 | 84 | 70 | 77 | 92 | 94 | 84 |
| 90 | — | — | 92 | 91 | 95 | 87 | 96 | 95 | 95 | 96 | 93 | 86 |
| 89 | 91 | 95 | 95 | 95 | 97 | 95 | 95 | 98 | 96 | 79 | 98 | 82 |
| 73 | 73 | 78 | 81 | 90 | 92 | 92 | 95 | 92 | 86 | 87 | 96 | 79 |
| 75 | 78 | 74 | 74 | 75 | 72 | 76 | 94 | 94 | 93 | 96 | 96 | 92 |
| 93 | 93 | 92 | 93 | 92 | 93 | 96 | 97 | 93 | 92 | 94 | 88 | 80 |
| 88 | 90 | 88 | 88 | 84 | 85 | — | — | — | — | — | — | 80 |
| — | — | — | — | — | — | 79 | 78 | 79 | 87 | 87 | 82 | 77 |
| 77 | 82 | 80 | 80 | 77 | 77 | 80 | 77 | 79 | 82 | 85 | 85 | 80 |
| 99 | 96 | 86 | 85 | 81 | 91 | 94 | 84 | 85 | 78 | 70 | 69 | 83 |
| 82 | 85 | 84 | 86 | 87 | 89 | 89 | 90 | 90 | 90 | 91 | 91 | 83 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·288 | ·276 | ·274 | ·262 | ·258 | ·267 | ·251 | ·228 | ·267 | ·274 | ·273 | ·257 | ·281 |
| ·252 | ·242 | ·234 | ·229 | ·231 | ·236 | ·239 | ·242 | ·246 | ·237 | ·232 | ·232 | ·247 |
| ·209 | ·218 | ·219 | ·223 | ·237 | ·242 | ·238 | ·238 | ·237 | ·231 | ·214 | ·207 | ·231 |
| ·363 | ·329 | ·334 | ·320 | ·302 | ·295 | ·298 | ·308 | ·317 | ·311 | ·280 | ·267 | ·305 |
| ·413 | ·415 | ·408 | ·419 | ·432 | ·438 | ·442 | ·437 | ·430 | ·430 | ·433 | ·427 | ·414 |
| ·403 | ·416 | ·416 | ·416 | ·348 | ·342 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·211 | ·212 | ·202 | ·199 | ·188 | ·191 | ·357 |
| ·273 | ·270 | ·266 | ·276 | ·273 | ·260 | ·245 | ·237 | ·217 | ·212 | ·211 | ·221 | ·257 |
| ·275 | ·284 | ·278 | ·278 | ·273 | ·271 | ·277 | ·279 | ·287 | ·296 | ·305 | ·318 | ·275 |
| ·354 | ·348 | ·350 | ·337 | ·309 | ·311 | ·301 | ·303 | ·290 | ·285 | ·294 | ·284 | ·334 |
| ·221 | ·225 | ·219 | ·216 | ·209 | ·204 | ·192 | ·179 | ·184 | ·183 | ·182 | ·190 | ·231 |
| ·196 | ·190 | ·189 | ·190 | ·178 | ·175 | ·171 | ·163 | ·162 | ·160 | ·163 | ·160 | ·182 |
| ·177 | ·192 | ·182 | ·175 | ·170 | ·166 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·219 | ·215 | ·211 | ·221 | ·220 | ·219 | ·193 |
| ·238 | ·236 | ·234 | ·220 | ·204 | ·212 | ·209 | ·206 | ·199 | ·196 | ·195 | ·194 | ·222 |
| ·168 | ·168 | ·168 | ·195 | ·169 | ·170 | ·182 | ·188 | ·187 | ·189 | ·210 | ·188 | ·180 |
| ·209 | ·214 | ·200 | ·195 | ·210 | ·189 | ·183 | ·187 | ·179 | ·179 | ·172 | ·165 | ·195 |
| ·220 | ·217 | ·222 | ·223 | ·218 | ·206 | ·205 | ·208 | ·208 | ·212 | ·214 | ·217 | ·204 |
| ·340 | ·333 | ·342 | ·343 | ·340 | ·325 | ·341 | ·375 | ·356 | ·351 | ·359 | ·362 | ·324 |
| ·167 | ·176 | ·161 | ·168 | ·174 | ·175 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·142 | ·145 | ·115 | ·121 | ·135 | ·134 | ·204 |
| ·170 | — | — | ·148 | ·148 | ·150 | ·136 | ·154 | ·146 | ·149 | ·149 | ·144 | ·156 |
| ·188 | ·172 | ·175 | ·178 | ·174 | ·171 | ·171 | ·178 | ·179 | ·179 | ·161 | ·208 | ·180 |
| ·158 | ·152 | ·156 | ·161 | ·150 | ·146 | ·148 | ·154 | ·147 | ·146 | ·144 | ·148 | ·179 |
| ·156 | ·162 | ·158 | ·157 | ·160 | ·155 | ·163 | ·178 | ·176 | ·168 | ·175 | ·162 | ·157 |
| ·166 | ·168 | ·168 | ·173 | ·174 | ·173 | ·170 | ·171 | ·158 | ·156 | ·145 | ·142 | ·160 |
| ·168 | ·163 | ·176 | ·179 | ·199 | ·206 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·171 | ·161 | ·159 | ·164 | ·167 | ·163 | ·167 |
| ·133 | ·136 | ·130 | ·129 | ·126 | ·125 | ·127 | ·121 | ·125 | ·129 | ·135 | ·131 | ·140 |
| ·200 | ·173 | ·146 | ·151 | ·144 | ·140 | ·141 | ·134 | ·151 | ·157 | ·148 | ·147 | ·150 |
| ·235 | ·235 | ·232 | ·229 | ·223 | ·221 | ·214 | ·215 | ·213 | ·213 | ·212 | ·211 | ·228 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|-----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Hours of Mean Göttingen Time. } | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. } | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | NOVEMBER. | 1 | 68 | 76 | 74 | 72 | 87 | 92 | 97 | 96 | 95 | 97 | 95 | 95 | |
| | | 2 | 95 | 95 | 95 | 91 | 86 | 80 | 75 | 78 | 82 | 89 | 87 | 88 | |
| | | 3 | 74 | 79 | 81 | 77 | 71 | 67 | 68 | 68 | 60 | 66 | 68 | 71 | 82 |
| | | 4 | 92 | 87 | 79 | 72 | 68 | 68 | 68 | 72 | 75 | 73 | 72 | 74 | 76 |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 6 | 94 | 97 | 92 | 89 | 85 | 78 | 72 | 72 | 71 | 74 | 72 | 76 | 81 |
| | | 7 | 95 | 96 | 91 | 86 | 81 | 79 | 78 | 78 | 73 | 72 | 84 | 90 | 93 |
| | | 8 | 96 | 93 | 79 | 76 | 76 | 76 | 77 | 77 | 72 | 72 | 77 | 81 | 79 |
| | | 9 | 84 | 95 | 83 | 78 | 76 | 59 | 59 | 59 | 69 | 71 | 70 | 73 | 73 |
| | | 10 | 96 | 98 | 98 | 96 | 96 | 93 | 88 | 88 | 88 | 86 | 91 | 90 | 89 |
| | | 11 | 96 | 96 | 96 | 96 | 96 | 95 | 95 | 95 | 94 | 94 | 91 | 88 | 94 |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 13 | 82 | 84 | 82 | 81 | 78 | 72 | 72 | 72 | 96 | 78 | 81 | 80 | 76 |
| | | 14 | 78 | 77 | 81 | 79 | 76 | 76 | 78 | 78 | 75 | 75 | 76 | 78 | 82 |
| | | 15 | 80 | 82 | 81 | 76 | 78 | 76 | 73 | 94 | 94 | 94 | 86 | 93 | 89 |
| | | 16 | 98 | 98 | 98 | 98 | 98 | 98 | 96 | 96 | 95 | 93 | 93 | 95 | 95 |
| | | 17 | 96 | 98 | 96 | 78 | 93 | 90 | 93 | 93 | 93 | 96 | 97 | 97 | 97 |
| | | 18 | 97 | 85 | 82 | 79 | 73 | 77 | 71 | 68 | 68 | 67 | 66 | 67 | 78 |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 20 | 96 | 92 | 93 | 76 | 71 | 92 | 88 | 85 | 85 | 88 | 87 | 90 | 91 |
| | | 21 | 95 | 97 | 97 | 95 | 85 | 84 | 77 | 83 | 83 | 75 | 82 | 84 | 82 |
| | | 22 | 86 | 79 | 80 | 78 | 74 | 73 | 72 | 73 | 72 | 72 | 75 | 74 | 74 |
| | | 23 | 96 | 96 | 96 | 93 | 66 | 81 | 90 | 84 | 84 | 83 | 85 | 90 | 86 |
| | | 24 | 93 | 80 | 72 | 71 | 67 | 68 | 63 | 67 | 67 | 64 | 62 | 61 | 61 |
| | | 25 | 95 | 86 | 83 | 76 | 71 | 64 | 58 | 63 | 63 | 59 | 61 | 63 | 70 |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 27 | 87 | 79 | 81 | 76 | 74 | 73 | 69 | 69 | 69 | 67 | 66 | 68 | 78 |
| | | 28 | 93 | 93 | 94 | 88 | 87 | 83 | 77 | 85 | 85 | 80 | 78 | 74 | 80 |
| | | 29 | 84 | 81 | 81 | 82 | 79 | 73 | 73 | 75 | 75 | 74 | 75 | 75 | 79 |
| | | 30 | 77 | 78 | 81 | 79 | 68 | 70 | 66 | 76 | 76 | 76 | 76 | 80 | 82 |
| | | Hourly Means | | 89 | 88 | 86 | 82 | 79 | 78 | 77 | 79 | 78 | 79 | 81 | 83 |
| Tension of the Vapour. | NOVEMBER. | 1 | In. .149 | In. .158 | In. .157 | In. .160 | In. .184 | In. .190 | In. .188 | In. .188 | In. .182 | In. .192 | In. .197 | In. .205 | |
| | | 2 | .191 | .195 | .199 | .205 | .202 | .192 | .182 | .186 | .189 | .195 | .187 | .183 | |
| | | 3 | .130 | .140 | .145 | .140 | .135 | .133 | .140 | .131 | .138 | .139 | .139 | .150 | |
| | | 4 | .132 | .130 | .120 | .114 | .115 | .113 | .121 | .124 | .122 | .122 | .120 | .122 | .122 |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 6 | .104 | .105 | .119 | .133 | .140 | .139 | .139 | .139 | .139 | .148 | .147 | .145 | .150 |
| | | 7 | .160 | .163 | .161 | .153 | .157 | .159 | .158 | .153 | .153 | .151 | .182 | .187 | .183 |
| | | 8 | .177 | .170 | .149 | .145 | .152 | .154 | .155 | .151 | .150 | .150 | .156 | .161 | .155 |
| | | 9 | .149 | .161 | .147 | .155 | .155 | .132 | .133 | .157 | .157 | .157 | .161 | .154 | .154 |
| | | 10 | .184 | .189 | .195 | .195 | .204 | .217 | .216 | .216 | .216 | .213 | .219 | .214 | .209 |
| | | 11 | .199 | .206 | .208 | .210 | .213 | .212 | .210 | .211 | .211 | .211 | .202 | .219 | .198 |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 13 | .140 | .139 | .140 | .142 | .148 | .147 | .150 | .170 | .170 | .155 | .158 | .135 | .123 |
| | | 14 | .090 | .089 | .093 | .096 | .096 | .100 | .110 | .119 | .119 | .118 | .116 | .111 | .107 |
| | | 15 | .136 | .142 | .147 | .144 | .150 | .155 | .150 | .176 | .177 | .177 | .170 | .185 | .189 |
| | | 16 | .235 | .237 | .244 | .247 | .258 | .269 | .279 | .317 | .317 | .316 | .292 | .280 | .262 |
| | | 17 | .164 | .171 | .177 | .158 | .213 | .237 | .247 | .244 | .244 | .244 | .247 | .247 | .246 |
| | | 18 | .254 | .229 | .224 | .224 | .217 | .215 | .200 | .199 | .199 | .190 | .181 | .175 | .190 |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 20 | .150 | .156 | .171 | .155 | .160 | .226 | .234 | .238 | .238 | .228 | .234 | .222 | .207 |
| | | 21 | .231 | .235 | .242 | .252 | .246 | .243 | .218 | .230 | .230 | .213 | .219 | .217 | .209 |
| | | 22 | .148 | .138 | .144 | .153 | .153 | .151 | .150 | .154 | .148 | .148 | .155 | .154 | .153 |
| | | 23 | .135 | .145 | .166 | .175 | .143 | .177 | .210 | .200 | .193 | .193 | .199 | .209 | .202 |
| | | 24 | .292 | .303 | .248 | .219 | .198 | .196 | .190 | .192 | .189 | .189 | .175 | .165 | .148 |
| | | 25 | .161 | .146 | .146 | .146 | .147 | .138 | .130 | .150 | .147 | .147 | .152 | .155 | .152 |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 27 | .107 | .096 | .098 | .092 | .090 | .091 | .090 | .093 | .093 | .095 | .098 | .100 | .101 |
| | | 28 | .087 | .088 | .095 | .105 | .114 | .117 | .121 | .135 | .135 | .131 | .132 | .128 | .129 |
| | | 29 | .131 | .128 | .131 | .136 | .141 | .138 | .141 | .144 | .144 | .143 | .148 | .146 | .149 |
| | | 30 | .105 | .104 | .106 | .109 | .100 | .106 | .103 | .119 | .119 | .116 | .116 | .121 | .123 |
| | | Hourly Means | | .159 | .160 | .160 | .160 | .162 | .167 | .167 | .174 | .171 | .173 | .171 | .169 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 95 | 95 | 95 | 95 | 95 | 93 | 94 | 95 | 95 | 95 | 97 | 98 | 91 |
| 87 | 91 | 90 | 85 | 79 | 80 | 80 | 82 | 79 | 82 | 81 | 78 | 86 |
| 87 | 88 | 90 | 88 | 88 | 88 | 86 | 93 | 90 | 90 | 94 | 96 | 81 |
| 78 | 77 | 79 | 77 | 76 | 74 | — | — | — | — | — | — | 80 |
| — | — | — | — | — | — | 95 | 91 | 93 | 94 | 94 | 95 | 87 |
| 91 | 89 | 89 | 88 | 90 | 90 | 91 | 93 | 94 | 93 | 96 | 96 | 87 |
| 93 | 91 | 89 | 94 | 89 | 88 | 86 | 85 | 90 | 90 | 86 | 93 | 87 |
| 78 | 78 | 82 | 95 | 89 | 92 | 89 | 89 | 89 | 88 | 82 | 81 | 83 |
| 75 | 74 | 78 | 82 | 82 | 84 | 89 | 96 | 97 | 99 | 98 | 98 | 81 |
| 92 | 91 | 93 | 93 | 95 | 95 | 96 | 96 | 97 | 98 | 98 | 96 | 94 |
| 96 | 94 | 84 | 97 | 95 | 86 | — | — | — | — | — | — | 91 |
| — | — | — | — | — | — | 87 | 84 | 85 | 81 | 84 | 80 | 80 |
| 76 | 79 | 79 | 80 | 76 | 77 | 82 | 82 | 75 | 86 | 87 | 82 | 80 |
| 84 | 88 | 86 | 79 | 81 | 94 | 88 | 88 | 89 | 90 | 89 | 85 | 82 |
| 98 | 99 | 99 | 99 | 99 | 98 | 97 | 89 | 89 | 92 | 94 | 98 | 90 |
| 93 | 87 | 88 | 90 | 96 | 98 | 96 | 93 | 94 | 95 | 98 | 95 | 95 |
| 97 | 97 | 97 | 98 | 97 | 97 | 97 | 97 | 95 | 90 | 89 | 90 | 94 |
| 82 | 86 | 85 | 84 | 87 | 89 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | 92 | 93 | 95 | 96 | 96 | 96 | 90 |
| 90 | 88 | 82 | 84 | 93 | 93 | 93 | 95 | 97 | 97 | 94 | 93 | 85 |
| 82 | 82 | 83 | 85 | 86 | 79 | 79 | 78 | 74 | 87 | 87 | 91 | 84 |
| 75 | 76 | 81 | 86 | 88 | 93 | 89 | 94 | 94 | 94 | 98 | 98 | 90 |
| 83 | 88 | 92 | 97 | 97 | 97 | 96 | 93 | 93 | 90 | 88 | 89 | 72 |
| 66 | 69 | 62 | 70 | 73 | 74 | 74 | 78 | 74 | 78 | 81 | 88 | 80 |
| 78 | 82 | 95 | 100 | 89 | 90 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | 92 | 91 | 91 | 92 | 82 | 86 | 83 |
| 89 | 89 | 89 | 92 | 92 | 94 | 92 | 92 | 91 | 92 | 92 | 93 | 81 |
| 78 | 78 | 78 | 73 | 76 | 77 | 77 | 79 | 79 | 80 | 81 | 81 | 80 |
| 79 | 80 | 81 | 82 | 86 | 89 | 89 | 82 | 76 | 79 | 77 | 77 | 81 |
| 80 | 84 | 87 | 89 | 64 | 87 | 95 | 95 | 93 | 82 | 89 | 91 | 81 |
| 85 | 85 | 86 | 88 | 87 | 88 | 89 | 89 | 89 | 90 | 90 | 90 | 85 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·207 | ·208 | ·208 | ·217 | ·219 | ·214 | ·209 | ·207 | ·199 | ·199 | ·200 | ·197 | ·193 |
| ·174 | ·177 | ·171 | ·160 | ·151 | ·147 | ·146 | ·150 | ·148 | ·151 | ·150 | ·139 | ·173 |
| ·154 | ·149 | ·152 | ·150 | ·148 | ·148 | ·137 | ·138 | ·131 | ·131 | ·134 | ·135 | ·140 |
| ·122 | ·118 | ·120 | ·117 | ·114 | ·111 | — | — | — | — | — | — | ·115 |
| — | — | — | — | — | — | ·118 | ·109 | ·110 | ·111 | ·102 | ·109 | ·145 |
| ·158 | ·151 | ·154 | ·153 | ·156 | ·155 | ·156 | ·158 | ·159 | ·157 | ·162 | ·161 | ·168 |
| ·182 | ·181 | ·177 | ·178 | ·175 | ·175 | ·167 | ·165 | ·172 | ·172 | ·167 | ·173 | ·156 |
| ·150 | ·151 | ·155 | ·177 | ·161 | ·164 | ·160 | ·162 | ·158 | ·157 | ·148 | ·144 | ·165 |
| ·162 | ·161 | ·169 | ·173 | ·179 | ·184 | ·186 | ·188 | ·187 | ·189 | ·187 | ·186 | ·204 |
| ·214 | ·212 | ·213 | ·213 | ·206 | ·200 | ·199 | ·193 | ·194 | ·200 | ·197 | ·199 | ·180 |
| ·197 | ·178 | ·162 | ·180 | ·167 | ·151 | — | — | — | — | — | — | ·126 |
| — | — | — | — | — | — | ·144 | ·140 | ·140 | ·134 | ·140 | ·134 | ·108 |
| ·118 | ·119 | ·117 | ·121 | ·108 | ·104 | ·106 | ·103 | ·089 | ·101 | ·101 | ·097 | ·188 |
| ·106 | ·115 | ·127 | ·120 | ·122 | ·141 | ·133 | ·135 | ·138 | ·143 | ·142 | ·144 | ·229 |
| ·205 | ·215 | ·220 | ·225 | ·225 | ·221 | ·216 | ·203 | ·208 | ·217 | ·226 | ·231 | ·232 |
| ·267 | ·236 | ·220 | ·203 | ·183 | ·177 | ·167 | ·157 | ·158 | ·160 | ·169 | ·166 | ·193 |
| ·251 | ·253 | ·261 | ·271 | ·260 | ·254 | ·255 | ·241 | ·236 | ·236 | ·236 | ·237 | ·208 |
| ·188 | ·189 | ·190 | ·192 | ·194 | ·191 | — | — | — | — | — | — | ·200 |
| — | — | — | — | — | — | ·176 | ·170 | ·169 | ·169 | ·169 | ·154 | ·146 |
| ·213 | ·209 | ·200 | ·207 | ·220 | ·217 | ·218 | ·220 | ·227 | ·233 | ·235 | ·230 | ·220 |
| ·201 | ·195 | ·197 | ·192 | ·194 | ·165 | ·163 | ·149 | ·141 | ·156 | ·153 | ·158 | ·229 |
| ·154 | ·150 | ·147 | ·151 | ·146 | ·144 | ·141 | ·141 | ·138 | ·133 | ·137 | ·137 | ·178 |
| ·203 | ·218 | ·231 | ·252 | ·256 | ·267 | ·286 | ·284 | ·286 | ·278 | ·291 | ·294 | ·142 |
| ·151 | ·151 | ·136 | ·147 | ·144 | ·150 | ·150 | ·153 | ·146 | ·151 | ·150 | ·146 | ·096 |
| ·164 | ·163 | ·173 | ·168 | ·146 | ·145 | — | — | — | — | — | — | ·118 |
| — | — | — | — | — | — | ·119 | ·117 | ·118 | ·119 | ·103 | ·108 | ·134 |
| ·101 | ·097 | ·096 | ·097 | ·096 | ·097 | ·096 | ·099 | ·095 | ·095 | ·090 | ·090 | ·121 |
| ·123 | ·121 | ·119 | ·113 | ·116 | ·118 | ·121 | ·125 | ·125 | ·126 | ·128 | ·127 | ·134 |
| ·148 | ·144 | ·139 | ·138 | ·141 | ·141 | ·139 | ·127 | ·116 | ·114 | ·108 | ·107 | ·165 |
| ·121 | ·127 | ·134 | ·133 | ·096 | ·130 | ·148 | ·148 | ·144 | ·134 | ·140 | ·142 | |
| ·170 | ·169 | ·169 | ·171 | ·166 | ·165 | ·163 | ·160 | ·158 | ·160 | ·160 | ·159 | |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | DECEMBER. | 1 | 92 | 95 | 92 | 92 | 83 | 78 | 74 | 73 | 74 | 74 | 80 | 82 |
| | | 2 | 77 | 77 | 77 | 75 | 72 | 69 | 66 | 63 | 62 | 68 | 69 | 71 |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 4 | 86 | 86 | 81 | 70 | 78 | 73 | 71 | 79 | 70 | 75 | 86 | 91 |
| | | 5 | 89 | 92 | 83 | 83 | 74 | 81 | 81 | 78 | 77 | 78 | 82 | 83 |
| | | 6 | 87 | 88 | 82 | 83 | 84 | 80 | 82 | 80 | 78 | 77 | 76 | 77 |
| | | 7 | 89 | 89 | 91 | 89 | 86 | 82 | 86 | 94 | 95 | 95 | 96 | 96 |
| | | 8 | 84 | 86 | 77 | 77 | 77 | 78 | 83 | 86 | 83 | 86 | 88 | 89 |
| | | 9 | 81 | 78 | 77 | 82 | 79 | 79 | 83 | 76 | 76 | 76 | 78 | 80 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | 82 | 89 | 79 | 79 | 73 | 64 | 65 | 67 | 69 | 62 | 67 | 81 |
| | | 12 | 81 | 80 | 78 | 79 | 80 | 75 | 73 | 73 | 69 | 71 | 67 | 72 |
| | | 13 | 95 | 92 | 91 | 91 | 86 | 85 | 82 | 76 | 76 | 77 | 75 | 76 |
| | | 14 | 79 | 78 | 78 | 79 | 74 | 70 | 63 | 57 | 57 | 67 | 68 | 68 |
| | | 15 | 82 | 81 | 85 | 85 | 82 | 79 | 82 | 86 | 88 | 93 | 97 | 97 |
| | | 16 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 96 | 96 | 97 | 97 | 97 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | 96 | 96 | 98 | 96 | 91 | 86 | 81 | 79 | 83 | 83 | 91 | 89 |
| | | 19 | 92 | 92 | 92 | 92 | 86 | 83 | 83 | 85 | 86 | 89 | 95 | 93 |
| | | 20 | 87 | 86 | 82 | 80 | 73 | 71 | 79 | 79 | 78 | 78 | 79 | 82 |
| | | 21 | 91 | 93 | 93 | 95 | 93 | 91 | 88 | 89 | 88 | 87 | 85 | 89 |
| | | 22 | 96 | 96 | 95 | 95 | 89 | 64 | 82 | 93 | 87 | 91 | 89 | 91 |
| | | 23 | 83 | 86 | 86 | 85 | 86 | 85 | 89 | 90 | 91 | 95 | 95 | 95 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | 95 | 95 | 95 | 95 | 93 | 95 | 95 | 94 | 93 | 93 | 94 | 91 |
| | | 27 | 98 | 96 | 95 | 87 | 87 | 82 | 75 | 73 | 70 | 82 | 85 | 79 |
| | | 28 | 93 | 95 | 96 | 96 | 91 | 86 | 87 | 82 | 92 | 91 | 89 | 94 |
| | | 29 | 80 | 80 | 80 | 77 | 77 | 76 | 79 | 78 | 77 | 77 | 77 | 79 |
| | | 30 | 79 | 80 | 84 | 77 | 72 | 68 | 67 | 60 | 64 | 68 | 71 | 74 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | 84 | 85 | 83 | 82 | 79 | 76 | 77 | 76 | 76 | 78 | 80 | 81 | |
| Tension of the Vapour. | DECEMBER. | 1 | .144 | .148 | .146 | .154 | .147 | .144 | .142 | .141 | .143 | .142 | .146 | .148 |
| | | 2 | .124 | .126 | .127 | .129 | .130 | .133 | .134 | .133 | .131 | .138 | .132 | .126 |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 4 | .167 | .167 | .163 | .149 | .172 | .179 | .185 | .192 | .175 | .179 | .191 | .194 |
| | | 5 | .135 | .133 | .117 | .115 | .102 | .105 | .102 | .098 | .101 | .103 | .097 | .091 |
| | | 6 | .101 | .105 | .117 | .124 | .133 | .132 | .138 | .137 | .134 | .131 | .125 | .128 |
| | | 7 | .136 | .135 | .141 | .148 | .151 | .140 | .152 | .164 | .167 | .161 | .162 | .159 |
| | | 8 | .145 | .146 | .124 | .117 | .123 | .128 | .146 | .148 | .147 | .156 | .159 | .164 |
| | | 9 | .130 | .127 | .124 | .136 | .138 | .140 | .152 | .141 | .141 | .137 | .135 | .133 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | .173 | .190 | .177 | .175 | .161 | .143 | .144 | .146 | .151 | .133 | .138 | .162 |
| | | 12 | .089 | .077 | .071 | .074 | .078 | .076 | .075 | .076 | .069 | .069 | .062 | .064 |
| | | 13 | .056 | .060 | .071 | .079 | .093 | .112 | .114 | .115 | .120 | .127 | .119 | .116 |
| | | 14 | .123 | .127 | .133 | .141 | .145 | .144 | .139 | .128 | .129 | .147 | .148 | .146 |
| | | 15 | .163 | .164 | .169 | .172 | .176 | .179 | .186 | .187 | .191 | .187 | .187 | .185 |
| | | 16 | .187 | .187 | .187 | .187 | .187 | .187 | .189 | .191 | .193 | .194 | .183 | .181 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | .162 | .162 | .166 | .167 | .166 | .161 | .150 | .151 | .158 | .156 | .169 | .159 |
| | | 19 | .146 | .145 | .147 | .152 | .155 | .159 | .163 | .166 | .168 | .171 | .177 | .170 |
| | | 20 | .167 | .166 | .161 | .161 | .154 | .151 | .179 | .180 | .176 | .177 | .179 | .179 |
| | | 21 | .175 | .178 | .180 | .184 | .189 | .194 | .195 | .198 | .199 | .202 | .192 | .187 |
| | | 22 | .163 | .156 | .162 | .166 | .168 | .140 | .183 | .210 | .189 | .194 | .186 | .186 |
| | | 23 | .159 | .166 | .167 | .166 | .168 | .167 | .173 | .176 | .176 | .183 | .184 | .187 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | .194 | .194 | .195 | .191 | .190 | .199 | .205 | .207 | .209 | .211 | .220 | .214 |
| | | 27 | .223 | .214 | .204 | .202 | .208 | .205 | .182 | .176 | .173 | .198 | .200 | .182 |
| | | 28 | .170 | .172 | .177 | .180 | .173 | .178 | .189 | .182 | .189 | .189 | .172 | .169 |
| | | 29 | .120 | .117 | .116 | .107 | .107 | .113 | .116 | .119 | .118 | .120 | .120 | .123 |
| | | 30 | .118 | .121 | .125 | .118 | .113 | .108 | .109 | .098 | .104 | .104 | .107 | .108 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | .147 | .147 | .147 | .148 | .149 | .149 | .154 | .154 | .154 | .156 | .156 | .154 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 75 | 71 | 67 | 73 | 73 | 75 | 77 | 78 | 78 | 77 | 78 | 81 | 79 |
| 77 | 80 | 80 | 79 | 79 | 84 | — | — | — | — | — | — | 77 |
| — | — | — | — | — | — | 95 | 86 | 86 | 86 | 83 | 86 | 83 |
| 89 | 90 | 89 | 87 | 86 | 72 | 82 | 96 | 89 | 91 | 92 | 85 | 85 |
| 81 | 83 | 85 | 87 | 91 | 88 | 90 | 92 | 89 | 89 | 86 | 87 | 80 |
| 77 | 75 | 77 | 77 | 78 | 78 | 79 | 81 | 82 | 81 | 84 | 87 | 91 |
| 95 | 95 | 94 | 89 | 89 | 88 | 88 | 91 | 91 | 89 | 86 | 92 | 86 |
| 89 | 89 | 89 | 88 | 86 | 92 | 97 | 94 | 91 | 86 | 79 | 78 | 79 |
| 77 | 79 | 85 | 84 | 84 | 85 | — | — | — | — | — | — | 76 |
| — | — | — | — | — | — | 79 | 76 | 78 | 74 | 59 | 79 | 80 |
| 82 | 86 | 81 | 87 | 83 | 86 | 81 | 67 | 64 | 79 | 79 | 76 | 79 |
| 80 | 81 | 80 | 80 | 83 | 83 | 85 | 85 | 92 | 95 | 90 | 95 | 71 |
| 76 | 76 | 77 | 76 | 74 | 76 | 72 | 75 | 73 | 74 | 77 | 77 | 92 |
| 64 | 63 | 63 | 67 | 65 | 69 | 72 | 73 | 76 | 81 | 80 | 82 | 96 |
| 98 | 97 | 98 | 98 | 98 | 98 | 97 | 98 | 97 | 96 | 95 | 95 | 90 |
| 97 | 96 | 95 | 98 | 98 | 92 | — | — | — | — | — | — | 89 |
| — | — | — | — | — | — | 94 | 94 | 94 | 95 | 96 | 96 | 84 |
| 90 | 91 | 90 | 91 | 92 | 91 | 90 | 95 | 94 | 90 | 89 | 90 | 91 |
| 82 | 86 | 88 | 86 | 88 | 89 | 89 | 92 | 91 | 91 | 88 | 91 | 87 |
| 83 | 87 | 86 | 87 | 89 | 90 | 90 | 91 | 90 | 92 | 92 | 93 | 93 |
| 89 | 89 | 91 | 94 | 91 | 94 | 92 | 88 | 94 | 92 | 95 | 93 | 87 |
| 96 | 87 | 87 | 88 | 81 | 81 | 82 | 80 | 91 | 82 | 83 | 83 | 93 |
| 96 | 96 | 97 | 98 | 98 | 98 | — | — | — | — | — | — | 96 |
| — | — | — | — | — | — | — | — | — | — | — | — | 96 |
| — | — | — | — | — | — | 93 | 96 | 98 | 97 | 98 | 98 | 85 |
| 95 | 98 | 96 | 98 | 98 | 98 | 98 | 99 | 99 | 98 | 98 | 98 | 86 |
| 79 | 83 | 80 | 81 | 81 | 83 | 88 | 95 | 91 | 90 | 94 | 91 | 79 |
| 78 | 78 | 78 | 77 | 78 | 81 | 85 | 85 | 80 | 76 | 84 | 80 | 78 |
| 76 | 79 | 77 | 91 | 85 | 77 | 76 | 78 | 78 | 80 | 79 | 84 | — |
| 76 | 74 | 80 | 77 | 77 | 77 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 86 | 85 | 86 | 88 | 90 | 92 | — |
| 81 | 81 | 81 | 82 | 82 | 82 | 83 | 83 | 84 | 83 | 83 | 84 | 81 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·133 | ·126 | ·117 | ·125 | ·124 | ·125 | ·127 | ·131 | ·131 | ·130 | ·127 | ·131 | ·136 |
| ·127 | ·126 | ·122 | ·119 | ·120 | ·124 | — | — | — | — | — | — | ·138 |
| — | — | — | — | — | — | ·181 | ·165 | ·164 | ·164 | ·161 | ·164 | ·171 |
| ·185 | ·184 | ·183 | ·185 | ·176 | ·144 | ·160 | ·169 | ·154 | ·155 | ·152 | ·133 | ·098 |
| ·091 | ·087 | ·084 | ·077 | ·087 | ·076 | ·086 | ·092 | ·093 | ·095 | ·097 | ·099 | ·129 |
| ·130 | ·130 | ·130 | ·131 | ·135 | ·137 | ·138 | ·138 | ·136 | ·131 | ·130 | ·134 | ·151 |
| ·155 | ·154 | ·150 | ·144 | ·145 | ·146 | ·148 | ·158 | ·156 | ·155 | ·152 | ·154 | ·145 |
| ·166 | ·162 | ·156 | ·155 | ·152 | ·145 | ·140 | ·134 | ·153 | ·146 | ·137 | ·128 | ·133 |
| ·118 | ·117 | ·115 | ·107 | ·107 | ·102 | — | — | — | — | — | — | ·143 |
| — | — | — | — | — | — | ·149 | ·147 | ·154 | ·153 | ·131 | ·164 | ·166 |
| ·162 | ·152 | ·140 | ·154 | ·146 | ·146 | ·131 | ·105 | ·097 | ·113 | ·105 | ·092 | ·109 |
| ·068 | ·068 | ·066 | ·062 | ·061 | ·058 | ·060 | ·053 | ·055 | ·155 | ·052 | ·055 | ·144 |
| ·117 | ·120 | ·122 | ·122 | ·122 | ·125 | ·118 | ·120 | ·116 | ·118 | ·117 | ·120 | ·182 |
| ·140 | ·136 | ·137 | ·143 | ·140 | ·147 | ·152 | ·153 | ·158 | ·163 | ·162 | ·163 | ·178 |
| ·186 | ·183 | ·185 | ·184 | ·184 | ·187 | ·183 | ·187 | ·185 | ·185 | ·184 | ·187 | ·155 |
| ·178 | ·174 | ·169 | ·169 | ·184 | ·152 | — | — | — | — | — | — | ·157 |
| — | — | — | — | — | — | ·167 | ·163 | ·162 | ·163 | ·163 | ·164 | ·174 |
| ·157 | ·156 | ·154 | ·152 | ·154 | ·151 | ·144 | ·149 | ·146 | ·144 | ·142 | ·143 | ·182 |
| ·146 | ·148 | ·148 | ·150 | ·149 | ·155 | ·154 | ·148 | ·156 | ·164 | ·164 | ·166 | ·174 |
| ·178 | ·184 | ·181 | ·182 | ·182 | ·177 | ·176 | ·176 | ·174 | ·177 | ·177 | ·178 | ·182 |
| ·185 | ·181 | ·180 | ·176 | ·176 | ·177 | ·174 | ·164 | ·166 | ·177 | ·175 | ·165 | ·174 |
| ·194 | ·181 | ·182 | ·183 | ·168 | ·164 | ·165 | ·161 | ·178 | ·163 | ·162 | ·163 | ·183 |
| ·194 | ·197 | ·196 | ·201 | ·200 | ·197 | — | — | — | — | — | — | ·214 |
| — | — | — | — | — | — | ·177 | ·182 | ·189 | ·196 | ·199 | ·199 | ·184 |
| ·225 | ·229 | ·223 | ·226 | ·128 | ·230 | ·230 | ·229 | ·224 | ·224 | ·224 | ·223 | ·152 |
| ·177 | ·178 | ·169 | ·166 | ·164 | ·163 | ·168 | ·177 | ·171 | ·167 | ·172 | ·168 | ·120 |
| ·134 | ·129 | ·128 | ·126 | ·124 | ·125 | ·129 | ·130 | ·123 | ·117 | ·124 | ·120 | ·119 |
| ·120 | ·124 | ·122 | ·142 | ·128 | ·122 | ·120 | ·122 | ·118 | ·120 | ·116 | ·124 | — |
| ·110 | ·108 | ·116 | ·113 | ·114 | ·115 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·126 | ·125 | ·125 | ·122 | ·119 | ·119 | — |
| ·151 | ·149 | ·147 | ·148 | ·147 | ·144 | ·148 | ·147 | ·147 | ·148 | ·146 | ·146 | ·149 |



TORONTO, 1843.

DIRECTION AND FORCE OF THE WIND.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| JANUARY. | 1 | — | lbs. | — | — | — | N. | 0.2 | — | lbs. | — | — | |
| | 2 | S. by E. | 2.0 | — | — | S. E. | 2.0 | — | S. E. | 2.0 | S. E. | 2.0 | |
| | 3 | N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 |
| | 4 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 2.0 |
| | 5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 6 | — | 0.0 | N. E. | 0.5 | — | 0.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 |
| | 7 | S. | 0.5 | — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.5 |
| | 8 | — | — | — | — | — | — | E. by N. | 2.0 | — | — | — | — |
| | 9 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 10 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.2 |
| | 11 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | N. N. W. | 0.2 | N. E. | 0.2 | N. E. | 0.2 |
| | 12 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. N. E. | 0.2 | N. E. | 0.5 | N. E. by E. | 0.5 |
| | 13 | — | 0.0 | E. by N. | 0.2 | E. by N. | 0.2 | W. | 0.2 | W. | 0.2 | S. W. | 0.2 |
| | 14 | W. by S. | 0.5 | W. S. W. | 1.0 | W. S. W. | 2.0 | W. S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 1.0 |
| | 15 | — | — | — | — | — | — | S. W. by W. | 1.0 | — | — | — | — |
| | 16 | E. by S. | 0.5 | E. by S. | 0.5 | S. E. by E. | 0.5 | E. by S. | 2.0 | E. by S. | 1.0 | E. by S. | 1.0 |
| | 17 | E. | 0.5 | E. | 0.5 | E. by N. | 0.5 | — | 0.0 | — | 0.0 | E. by N. | 0.5 |
| | 18 | E. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 19 | — | 0.0 | — | 0.0 | — | 0.0 | S. by W. | 0.2 | — | 0.0 | — | 0.0 |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 21 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.5 |
| | 22 | — | — | — | — | — | — | W. | 0.5 | — | — | — | — |
| | 23 | — | 0.0 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.5 |
| | 24 | N. W. | 2.0 | N. W. | 2.0 | N. by W. | 10.0 | N. by W. | 2.0 | N. by W. | 1.0 | N. by W. | 2.0 |
| | 25 | W. N. W. | 0.5 | W. N. W. | 0.5 | N. N. W. | 2.0 | N. N. W. | 2.0 | N. by W. | 2.0 | N. by W. | 2.0 |
| | 26 | — | 0.0 | — | 0.0 | N. by E. | 0.5 | N. by E. | 0.5 | — | 0.0 | — | 0.0 |
| | 27 | E. by N. | 0.5 | E. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 | E. N. E. | 0.5 | N. E. by N. | 0.5 |
| | 28 | N. | 0.5 | N. | 0.5 | N. by E. | 0.5 | N. by E. | 0.5 | N. by E. | 0.5 | — | 0.0 |
| | 29 | — | — | — | — | — | — | — | 0.0 | — | — | — | — |
| | 30 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. by N. | 0.2 |
| | 31 | E. | 0.5 | E. by N. | 2.0 | E. by N. | 2.0 | E. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 |
| JANUARY. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 1.0 |
| | 3 | W. by S. | 2.0 | W. by S. | 2.0 | W. by S. | 2.0 | W. | 1.0 | W. | 1.0 | W. | 2.0 |
| | 4 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | — | 0.0 | — | 0.0 |
| | 5 | — | 0.0 | — | 0.0 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.5 |
| | 6 | E. | 0.5 | E. | 0.5 | E. | 1.0 | E. | 0.5 | E. | 0.5 | — | 0.0 |
| | 7 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | — | 0.0 | — | 0.0 | S. E. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | S. E. | 0.2 |
| | 10 | N. by E. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. W. | 0.2 | — | 0.0 | — | 0.0 |
| | 11 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 12 | E. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 | E. by N. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 |
| | 13 | N. N. W. | 2.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 |
| | 14 | W. S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 2.0 | S. W. by W. | 2.0 | S. W. by W. | 2.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. by S. | 1.0 | E. by S. | 1.0 | E. by S. | 1.0 |
| | 17 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | — | 0.0 | — | 0.0 |
| | 18 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 19 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.2 | — | 0.0 | — | 0.0 |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 21 | S. W. by W. | 0.5 | W. S. W. | 0.5 | W. | 0.5 | W. | 0.5 | W. | 0.5 | W. | 0.5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | W. by S. | 2.0 | W. by S. | 1.0 | W. by S. | 0.5 | W. by S. | 0.2 | — | 0.0 | W. by S. | 0.5 |
| | 24 | N. W. | 1.0 | N. W. | 0.2 | N. W. | 0.5 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 1.0 |
| | 25 | N. by W. | 1.0 | N. by W. | 1.0 | N. | 2.0 | N. by E. | 1.0 | N. by E. | 1.0 | N. by E. | 0.5 |
| | 26 | N. E. by E. | 0.2 | N. E. by E. | 0.5 | E. by N. | 0.5 | E. | 0.5 | E. by S. | 1.0 | E. by S. | 1.0 |
| | 27 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | — | 0.0 | — | 0.0 | E. by N. | 0.2 |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| 31 | — | 0.0 | S. by W. | 0.5 | S. by W. | 1.0 | S. by W. | 2.0 | S. E. by E. | 10.0 | S. E. by E. | 10.0 | |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | lbs. | — | lbs. | — | lbs. | — | lbs. | — | lbs. | — | lbs. | 1 |
| S. by W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | 2 |
| N. W. | 0.5 | N. W. | 0.5 | W. by N. | 1.0 | W. | 1.0 | W. by S. | 2.0 | W. by S. | 2.0 | 3 |
| S. W. | 0.5 | S. W. | 0.5 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 0.5 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| E. | 2.0 | E. by N. | 0.5 | E. by N. | 0.5 | E. | 1.0 | E. | 1.0 | E. | 1.0 | 6 |
| S. | 0.5 | S. | 0.5 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | — | — | — | — | — | S. W. by S. | 10.0 | — | — | — | — | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | S. E. | 0.2 | S. E. | 0.5 | — | 0.0 | 9 |
| E. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| N. E. | 0.2 | N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| N. E. by E. | 0.5 | N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 1.0 | E. N. E. | 1.0 | 12 |
| S. W. | 0.2 | S. | 0.2 | N. | 0.2 | N. by W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | 13 |
| W. by S. | 1.0 | W. by S. | 1.0 | W. S. W. | 1.0 | W. S. W. | 1.0 | S. W. by W. | 1.0 | W. S. W. | 1.0 | 14 |
| — | — | — | — | — | — | S. W. by W. | 0.5 | — | — | — | — | 15 |
| E. by S. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | 16 |
| E. by S. | 0.5 | E. by N. | 0.5 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | 17 |
| — | 0.0 | S. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | — | 0.0 | 18 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. | 0.5 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | 21 |
| — | — | — | — | — | — | W. by N. | 2.2 | — | — | — | — | 22 |
| W. S. W. | 0.5 | W. S. W. | 0.5 | S. W. by W. | 1.0 | S. W. | 10.0 | S. W. by W. | 2.0 | W. S. W. | 2.0 | 23 |
| N. N. W. | 10.0 | N. W. by N. | 10.0 | N. N. W. | 10.0 | N. by W. | 2.0 | N. N. W. | 2.0 | N. N. W. | 2.0 | 24 |
| N. N. W. | 2.0 | N. by W. | 2.0 | N. N. W. | 2.0 | N. N. W. | 0.0 | N. | 2.0 | N. by W. | 2.0 | 25 |
| — | 0.0 | — | 0.0 | N. E. by N. | 0.5 | E. N. E. | 0.5 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | 26 |
| N. E. by N. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.2 | N. E. | 0.2 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | 28 |
| — | — | — | — | — | — | — | 0.0 | — | — | — | — | 29 |
| — | 0.0 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | E. by S. | 0.2 | 30 |
| E. by N. | 1.0 | E. by N. | 1.0 | E. N. E. | 0.5 | E. N. E. | 0.2 | — | 0.0 | — | 0.0 | 31 |

JANUARY.

JANUARY.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| MARCH. | 1 | W. | 0.2 | W. | 0.2 | W. | 0.0 | W. by N. | 0.5 | W. | 0.5 | W. | 1.0 |
| | 2 | W. by S. | 0.2 | — | 0.0 | — | 0.0 | S. W. by W. | 0.5 | W. S. W. | 0.5 | W. by S. | 1.0 |
| | 3 | — | 0.0 | W. S. W. | 0.2 | — | 0.0 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 |
| | 4 | W. by S. | 0.5 | — | 0.0 | — | 0.0 | N. | 0.2 | N. | 0.2 | W. by S. | 0.2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 |
| | 7 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 8 | S. E. by E. | 0.2 | E. S. E. | 1.0 | — | 0.0 | E. | 0.5 | E. by N. | 1.0 | E. by N. | 0.5 |
| | 9 | — | 0.0 | — | 0.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | — | 0.5 |
| | 10 | E. | 7.0 | E. S. E. | 7.0 | E. S. E. | 7.0 | E. by S. | 3.0 | E. by S. | 3.0 | E by S. | 3.0 |
| | 11 | S. W. | 0.5 | S. W. | 0.5 | W. by N. | 2.0 | W. | 2.0 | W. | 2.0 | W. by N. | 2.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | E. | 0.2 | E. | 0.2 | E. S. E. | 0.5 | S. E. | 0.2 | S. E. | 0.2 | — | 0.0 |
| | 14 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | W. | 1.0 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | S. W. | 1.0 |
| | 15 | W. N. W. | 7.0 | W. | 2.0 | S. W. by W. | 2.0 | S. W. by W. | 1.0 | W. by N. | 2.0 | W. N. W. | 7.0 |
| | 16 | — | 0.0 | W. by S. | 0.2 | W. by S. | 0.2 | N. | 0.2 | N. | 0.2 | N. E. | 0.5 |
| | 17 | N. N. W. | 2.0 | N. N. W. | 2.0 | N. N. W. | 2.0 | W. N. W. | 1.0 | W. by N. | 0.5 | W. by N. | 1.0 |
| | 18 | W. | 1.0 | W. by S. | 0.5 | W. S. W. | 1.0 | W. S. W. | 1.0 | S. W. by W. | 1.0 | S. W. by W. | 1.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | W. by S. | 0.2 | W. by S. | 0.5 | W. by S. | 0.5 |
| | 21 | — | 0.0 | W. by S. | 0.2 | W. S. W. | 0.5 | S. W. | 1.0 | S. S. W. | 2.0 | S. S. W. | 2.0 |
| | 22 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. E. | 0.2 |
| | 23 | N. N. W. | 2.0 | N. N. W. | 2.0 | N. W. | 2.0 | N. W. | 2.0 | N. W. | 2.0 | N. W. | 10.0 |
| | 24 | W. by N. | 0.2 | W. by N. | 0.2 | — | 0.0 | W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 1.0 |
| | 25 | — | 0.0 | S. E. by S. | 0.5 | S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.2 | S. S. E. | 0.2 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | E. S. E. | 1.0 | E. S. E. | 1.0 | E. S. E. | 1.0 | E. S. E. | 2.0 | E. by S. | 2.0 | E. by S. | 2.0 |
| | 28 | E. N. E. | 7.0 | N. E. by E. | 2.0 | N. E. by E. | 2.0 | E. N. E. | 2.0 | E. by N. | 1.0 | N. E. | 0.5 |
| | 29 | W. by S. | 0.2 | W. S. W. | 0.2 | S. W. | 0.5 | W. S. W. | 1.0 | S. W. | 0.5 | S. W. | 0.5 |
| | 30 | N. N. W. | 0.2 | N. by W. | 0.2 | N. N. W. | 0.2 | N. by W. | 0.5 | N. by W. | 0.5 | S. E. | 0.5 |
| | 31 | E. | 7.0 | E. by N. | 7.0 | N. E. by E. | 7.0 | N. E. by E. | 10.0 | E. by N. | 10.0 | E. by N. | 10.0 |
| MARCH. | 1 | W. by S. | 0.5 | W. by S. | 0.5 | W. by S. | 0.5 | W. | 0.2 | W. | 0.2 | W. | 0.5 |
| | 2 | W. S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 0.5 | W. S. W. | 0.2 | — | 0.0 | W. S. W. | 0.2 |
| | 3 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 4 | N. by W. | 1.0 | N. by W. | 1.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | — | 0.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | N. W. by N. | 1.0 | N. W. by N. | 1.0 | N. W. by N. | 1.0 | N. W. by N. | 0.5 | — | 0.0 | — | 0.0 |
| | 7 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. | 0.2 |
| | 8 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 9 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 10 | E. by N. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 | E. | 0.5 | N. W. by W. | 0.2 | — | 0.0 |
| | 11 | W. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | W. N. W. | 2.0 | W. N. W. | 2.0 | N. W. by W. | 2.0 | W. N. W. | 2.0 | W. N. W. | 3.0 | W. N. W. | 2.0 |
| | 14 | S. W. | 1.0 | S. W. | 0.5 | S. W. | 0.2 | — | 0.0 | — | 0.0 | S. W. | 0.5 |
| | 15 | W. | 0.5 | W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 16 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 1.0 | N. W. by N. | 1.0 | N. W. by N. | 1.0 |
| | 17 | W. by S. | 2.0 | W. by S. | 2.0 | W. | 2.0 | W. | 2.0 | W. | 2.0 | W. | 2.0 |
| | 18 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | W. S. W. | 0.2 | W. S. W. | 1.0 | W. by S. | 1.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 21 | S. W. | 1.0 | S. W. | 0.5 | S. W. | 2.0 | S. W. | 1.0 | S. S. W. | 0.2 | — | 0.0 |
| | 22 | W. by S. | 0.5 | W. by S. | 0.5 | W. | 2.0 | N. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 |
| | 23 | W. by N. | 7.0 | W. by N. | 7.0 | W. by N. | 7.0 | W. N. W. | 3.0 | W. N. W. | 2.0 | W. N. W. | 2.0 |
| | 24 | S. S. W. | 1.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | S. W. | 1.0 | — | 0.0 |
| | 25 | W. by S. | 0.5 | W. by S. | 1.0 | W. | 1.0 | W. | 1.0 | W. | 0.5 | — | 0.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | E. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 |
| | 28 | N. W. by W. | 2.0 | N. W. by W. | 2.0 | N. W. by W. | 1.0 | N. W. by W. | 7.0 | N. W. by W. | 7.0 | W. | 7.0 |
| | 29 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.2 | — | 0.0 | — | 0.0 |
| | 30 | E. by N. | 0.2 | — | 0.0 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. | 1.0 | E. | 1.0 |
| | 31 | N. E. | 7.0 | N. E. | 2.0 | N. E. | 2.0 | N. E. | 0.0 | N. E. | 2.0 | N. E. by E. | 1.0 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| W. | 1.0 | W. by S. | 1.0 | W. by S. | 1.0 | W. by S. | 1.0 | W. by S. | 0.5 | W. by S. | 0.5 | 1 |
| W. by S. | 1.0 | W. by S. | 1.0 | W. by S. | 1.0 | W. S. W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 1.0 | 2 |
| W. S. W. | 0.2 | W. S. W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.5 | — | 0.0 | 3 |
| N. N. W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.5 | N. by W. | 0.5 | 4 |
| — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| N. W. | 1.0 | N. by W. | 2.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. W. by N. | 1.0 | 6 |
| N. by W. | 0.2 | N. N. W. | 0.5 | N. N. W. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | — | 0.0 | 7 |
| E. by N. | 1.0 | E. | 1.0 | E. | 1.0 | E. by N. | 1.0 | E. | 0.5 | E. by N. | 0.2 | 8 |
| — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 9 |
| E. by N. | 3.0 | E. N. E. | 3.0 | E. N. E. | 3.0 | E. by N. | 1.0 | E. | 0.5 | E. | 0.5 | 10 |
| W. by S. | 2.0 | W. | 2.0 | N. N. W. | 2.0 | W. | 2.0 | W. | 1.0 | W. by S. | 0.5 | 11 |
| — | — | — | — | — | — | — | — | — | — | — | — | 12 |
| — | 0.0 | — | 0.0 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| S. W. by S. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. W. | 1.0 | S. W. | 2.0 | 14 |
| W. by S. | 7.0 | W. by S. | 3.0 | W. by S. | 3.0 | W. | 3.0 | W. | 3.0 | W. by N. | 0.5 | 15 |
| N. E. by E. | 0.5 | — | 0.0 | N. E. by E. | 0.0 | — | 0.0 | E. | 0.5 | — | 0.0 | 16 |
| W. N. W. | 2.0 | W. | 2.0 | W. | 2.0 | W. | 2.0 | W. | 1.0 | W. | 2.0 | 17 |
| S. W. by W. | 1.0 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | S. W. by W. | 0.5 | 18 |
| — | — | — | — | — | — | — | — | — | — | — | — | 19 |
| W. S. W. | 0.5 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | 20 |
| S. S. W. | 2.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | 21 |
| S. E. | 1.0 | S. | 1.0 | S. | 1.0 | S. by W. | 1.0 | S. by W. | 1.0 | W. by S. | 1.0 | 22 |
| N. N. W. | 5.0 | N. N. W. | 5.0 | W. | 2.0 | W. | 5.0 | N. W. by W. | 7.0 | W. by N. | 7.0 | 23 |
| S. W. by W. | 1.0 | S. W. | 0.5 | S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | 24 |
| S. by E. | 0.5 | S. | 0.5 | S. | 0.5 | S. E. | 0.5 | S. W. by S. | 0.5 | S. W. | 0.5 | 25 |
| — | — | — | — | — | — | — | — | — | — | — | — | 26 |
| E. by N. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | 27 |
| N. | 0.2 | N. | 0.2 | N. E. | 0.2 | N. W. by N. | 1.0 | N. W. | 2.0 | N. by W. | 1.0 | 28 |
| S. W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | 29 |
| S. E. by E. | 0.5 | E. | 0.2 | E. S. E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | 30 |
| E. by N. | 7.0 | E. by N. | 10.0 | E. N. E. | 10.0 | N. E. by E. | 7.0 | E. N. E. | 7.0 | N. E. | 2.0 | 31 |

MARCH.

MARCH.

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|----------|------------------|----------|------------------|----------|------------------|----------|-------------------|----------|-------------------|----------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| N. N. W. | lbs. 0.5 | W. by N. | lbs. 0.5 | W. | lbs. 0.5 | W. | lbs. 0.5 | W. | lbs. 0.5 | N. N. W. | lbs. 0.5 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| S. | 0.2 | S. E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | 3 |
| E. by N. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 | E. N. E. | 0.5 | E. N. E. | 0.2 | E. by N. | 0.5 | 4 |
| — | 0.0 | E. S. E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.5 | E. by S. | 0.5 | 5 |
| N. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | W. | 0.5 | W. by N. | 1.0 | 6 |
| S. W. | 0.5 | S. | 0.5 | S. by E. | 1.0 | S. | 2.0 | S. | 0.5 | S. | 0.5 | 7 |
| S. W. by W. | 0.5 | S. W. by W. | 2.0 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 1.0 | N. W. by W. | 2.0 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.5 | N. N. W. | 0.5 | 10 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. by W. | 0.2 | 11 |
| — | 0.0 | S. | 0.2 | — | 0.0 | S. | 0.2 | S. E. by S. | 0.2 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. N. E. | 0.5 | E. | 0.5 | 17 |
| E. N. E. | 1.0 | N. E. | 2.0 | E. N. E. | 2.0 | E. N. E. | 2.0 | E. N. E. | 1.0 | — | 0.0 | 18 |
| E. N. E. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 | E. N. E. | 0.2 | E. N. E. | 0.5 | E. N. E. | 0.5 | 19 |
| S. | 0.5 | S. | 0.5 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 20 |
| — | 0.0 | — | 0.0 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | 21 |
| E. N. E. | 1.0 | N. E. by N. | 2.0 | N. E. by E. | 1.0 | N. E. by E. | 2.0 | E. N. E. | 1.0 | E. N. E. | 1.0 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.2 | W. | 0.2 | W. | 0.2 | W. | 0.2 | 24 |
| E. | 1.0 | E. | 1.0 | E. | 1.0 | E. S. E. | 1.0 | E. S. E. | 0.5 | E. by S. | 0.5 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 | 26 |
| N. by W. | 1.0 | N. N. W. | 0.5 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 2.0 | N. N. W. | 0.5 | 27 |
| S. W. by W. | 1.0 | S. W. by W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | W. | 1.0 | N. W. | 0.5 | 28 |
| E. | 1.0 | E. by S. | 1.0 | E. S. E. | 1.0 | E. by S. | 1.0 | E. by S. | 1.0 | E. by S. | 1.0 | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 |

APRIL.

APRIL.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. |
| MAY. | 1 | — | lbs. | S. W. | lbs. | S. W. by S. | lbs. | S. W. by S. | lbs. | S. W. by S. | lbs. | S. W. |
| | 2 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 | S. S. W. | 0·5 | S. W. |
| | 3 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. |
| | 4 | — | 0·0 | — | 0·0 | — | 0·0 | N. W. by N. | 1·0 | N. N. W. | 1·0 | N. by W. |
| | 5 | E. N. E. | 0·5 | E. N. E. | 0·5 | E. N. E. | 2·0 | E. by N. | 2·0 | E. N. E. | 2·0 | E. |
| | 6 | N. N. E. | 7·0 | E. N. E. | 2·0 | E. N. E. | 2·0 | N. E. | 2·0 | E. N. E. | 1·0 | N. by E. |
| | 7 | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | — | 0·0 | — | 0·0 | W. | 0·5 | W. | 0·5 | W. | 0·5 | W. |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | S. E. | 0·2 | S. E. |
| | 10 | E. N. E. | 2·0 | E. N. E. | 2·0 | E. N. E. | 7·0 | E. N. E. | 7·0 | E. N. E. | 7·0 | E. by N. |
| | 11 | N. E. | 0·2 | N. E. | 0·2 | — | 0·0 | E. N. E. | 0·2 | E. | 0·2 | S. E. |
| | 12 | — | 0·0 | N. E. by N. | 0·2 | N. E. by N. | 0·2 | S. by E. | 0·2 | S. | 0·2 | S. |
| | 13 | — | 0·0 | — | 0·0 | S. | 0·5 | S. | 0·5 | — | 0·0 | S. |
| | 14 | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | S. by W. |
| | 16 | W. by S. | 0·5 | W. by S. | 1·0 | W. by S. | 2·0 | W. by S. | 2·0 | W. by S. | 2·0 | W. by S. |
| | 17 | N. W. by N. | 0·5 | N. W. by N. | 0·5 | N. W. | 0·5 | N. W. | 0·5 | W. S. W. | 0·5 | S. W. |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·5 | E. S. E. |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. E. |
| | 21 | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. |
| | 24 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 | N. W. by W. | 1·0 | N. W. by W. |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | E. S. E. | 0·5 | S. E. | 0·5 | S. E. |
| | 26 | E. by N. | 0·5 | E. by N. | 0·5 | E. by N. | 0·5 | E. by S. | 1·0 | E. | 1·0 | E. by S. |
| | 27 | S. W. | 1·0 | S. W. | 1·0 | S. W. | 0·5 | W. S. W. | 1·0 | W. S. W. | 0·5 | W. S. W. |
| | 28 | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | 0·0 | — | 0·0 | E. | 0·5 | E. by S. | 0·5 | S. E. | 0·5 | S. E. |
| | 30 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·5 | S. E. | 0·5 | S. E. |
| | 31 | N. | 0·0 | N. | 1·0 | N. N. E. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 | N. N. W. |
| MAY. | 1 | S. W. by S. | 0·5 | S. W. by S. | 1·0 | S. W. by S. | 2·0 | S. W. by S. | 1·0 | S. W. | 0·5 | W. by S. |
| | 2 | S. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 3 | E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 4 | N. by W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 | — | 0·0 | N. |
| | 5 | E. | 0·5 | E. | 0·5 | E. | 0·5 | E. | 0·5 | E. | 0·5 | E. |
| | 6 | E. by N. | 1·0 | E. | 0·5 | E. | 0·5 | E. | 0·2 | E. | 0·5 | E. |
| | 7 | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | N. N. W. | 0·2 | N. N. W. | 0·5 | N. | 0·2 | N. | 0·2 | — | 0·0 | — |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | N. W. | 0·2 | N. | 0·2 | N. E. |
| | 10 | S. E. | 0·5 | S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 12 | S. S. E. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 13 | S. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 14 | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | W. S. W. | 7·0 | W. N. W. | 2·0 | W. by N. | 2·0 | W. by N. | 2·0 | W. by N. | 2·0 | W. by N. |
| | 16 | N. N. W. | 2·0 | N. N. W. | 2·0 | N. | 2·0 | N. | 2·0 | N. by W. | 2·0 | N. by W. |
| | 17 | N. N. E. | 0·2 | N. | 0·2 | N. | 0·2 | — | 0·0 | — | 0·0 | — |
| | 18 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 21 | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 23 | N. W. | 2·0 | N. W. | 0·5 | N. W. | 0·2 | — | 0·0 | — | 0·0 | — |
| | 24 | N. N. E. | 0·5 | N. by E. | 0·5 | N. by E. | 0·5 | N. | 0·2 | N. | 0·2 | N. |
| | 25 | E. by S. | 0·2 | E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | E. by S. |
| | 26 | E. | 0·5 | E. | 0·2 | E. | 0·2 | — | 0·0 | — | 0·0 | — |
| | 27 | W. N. W. | 0·5 | W. N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·2 | N. W. | 0·2 | — |
| | 28 | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — |
| | 30 | N. N. E. | 1·0 | N. W. | 0·2 | N. W. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·5 | N. |
| | 31 | N. | 0·5 | N. | 0·5 | N. | 0·5 | N. | 0·5 | N. N. W. | 0·5 | N. N. W. |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. W. | 0.5 | S. W. | 2.0 | W. by S. | 0.5 | W. by S. | 1.0 | S. W. | 1.0 | S. W. by S. | 0.5 | 1 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | 2 |
| E. by S. | 0.5 | E. by S. | 0.5 | E. by S. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.2 | 3 |
| N. by E. | 2.0 | N. by W. | 2.0 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | 4 |
| E. by N. | 2.0 | E. | 1.0 | E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. | 0.5 | 5 |
| E. N. E. | 1.0 | E. N. E. | 1.0 | N. E. by E. | 0.5 | N. E. by E. | 0.5 | N. E. by E. | 0.5 | E. | 1.0 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| W. S. W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.2 | S. W. | 0.2 | W. N. W. | 0.2 | N. N. W. | 0.2 | 8 |
| S. E. by E. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 9 |
| E. by N. | 2.0 | E. by N. | 2.0 | E. N. E. | 1.0 | E. N. E. | 1.0 | E. N. E. | 1.0 | E. N. E. | 1.0 | 10 |
| S. E. | 0.2 | S. E. | 0.2 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.2 | — | 0.0 | 11 |
| S. | 0.2 | S. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. S. E. | 0.5 | 12 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. E. | 0.2 | — | 0.0 | S. | 0.5 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| S. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | W. S. W. | 2.0 | W. S. W. | 7.0 | 15 |
| W. S. W. | 2.0 | W. by S. | 2.0 | W. | 2.0 | W. N. W. | 2.0 | W. by N. | 2.0 | W. N. W. | 2.0 | 16 |
| N. by W. | 0.5 | S. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. | 0.5 | S. | 0.2 | 17 |
| S. by E. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.5 | 18 |
| E. by S. | 0.5 | S. E. | 0.5 | S. E. | 0.5 | S. E. by E. | 0.5 | S. E. by E. | 0.5 | — | 0.0 | 19 |
| S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| S. by E. | 0.5 | S. by E. | 0.5 | S. W. | 1.0 | W. by N. | 1.0 | W. N. W. | 2.0 | W. N. W. | 2.0 | 23 |
| S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | W. by S. | 1.0 | N. E. by N. | 0.5 | 24 |
| S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 25 |
| E. | 1.0 | N. E. | 0.5 | — | 0.0 | E. by N. | 0.5 | E. | 0.5 | E. | 0.5 | 26 |
| W. S. W. | 0.5 | S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 1.0 | W. | 1.0 | W. | 0.5 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.2 | S. E. | 0.2 | — | 0.0 | 29 |
| N. E. | 0.5 | N. by E. | 0.5 | N. N. E. | 1.0 | N. N. E. | 1.0 | N. N. E. | 1.0 | N. N. E. | 1.0 | 30 |
| N. N. W. | 0.5 | N. | 0.5 | N. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.5 | N. | 0.5 | 31 |

MAY.

MAY.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| JUNE. | 1 | N. by W. | 0.5 | N. by W. | 1.0 | N. by W. | 1.0 | N. N. W. | 1.0 | N. by W. | 1.0 | N. W. | 1.0 |
| | 2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 3 | — | 0.0 | — | 0.0 | N. by E. | 1.0 | N. by E. | 2.0 | N. | 2.0 | N. by W. | 2.0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | N. N. E. | 0.2 | E. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. E. | 0.2 |
| | 6 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 7 | — | 0.0 | — | 0.0 | — | 0.0 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.5 |
| | 8 | — | 0.0 | E. by N. | 0.5 | E. by N. | 0.5 | E. | 1.0 | E. | 0.2 | E. by N. | 0.2 |
| | 9 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. by W. | 0.2 | S. W. | 0.2 |
| | 10 | N. by W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 13 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. by E. | 0.5 |
| | 14 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 1.0 |
| | 15 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 |
| | 16 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 17 | N. by W. | 0.5 | N. by W. | 0.5 | N. | 0.5 | N. N. E. | 1.0 | E. | 0.2 | S. E. by S. | 0.2 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. S. E. | 0.2 | E. S. E. | 0.2 |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. S. E. | 0.2 | S. E. | 0.2 |
| | 21 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 |
| | 22 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.5 | S. | 0.5 | S. | 0.5 |
| | 23 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 1.0 | S. | 1.0 | S. | 1.0 |
| | 24 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | S. | 1.0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | — | 0.0 | — | 0.0 |
| | 27 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. by E. | 0.2 | S. by E. | 0.2 |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 29 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. S. E. | 0.2 |
| | 30 | — | 0.0 | N. N. W. | 0.2 | — | 0.0 | W. by S. | 0.2 | S. W. | 0.2 | W. S. W. | 0.2 |
| JUNE. | 1 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 2 | E. | 1.0 | E. | 1.0 | E. | 1.0 | E. | 1.0 | E. | 1.0 | E. | 1.0 |
| | 3 | N. | 0.5 | N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | N. E. | 0.5 | N. E. | 0.2 | N. E. | 0.5 | N. N. E. | 0.5 | N. N. E. | 0.5 | N. N. E. | 0.5 |
| | 6 | S. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 7 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 8 | E. | 1.0 | E. | 0.5 | E. | 0.5 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.5 |
| | 9 | N. | 1.0 | N. | 0.5 | N. | 0.5 | N. | 1.0 | N. | 1.0 | N. by W. | 0.5 |
| | 10 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | E. S. E. | 0.2 | E. S. E. | 0.5 | E. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 |
| | 13 | S. S. W. | 0.5 | — | 0.0 | W. S. W. | 2.0 | W. S. W. | 0.5 | — | 0.0 | — | 0.0 |
| | 14 | W. N. W. | 1.0 | W. by N. | 0.5 | W. by N. | 0.5 | W. N. W. | 1.0 | W. N. W. | 1.0 | W. N. W. | 1.0 |
| | 15 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 16 | S. S. W. | 0.2 | N. N. W. | 0.5 | — | 0.0 | N. N. W. | 0.5 | N. | 1.0 | N. | 1.0 |
| | 17 | S. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N | 0.2 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 20 | S. | 1.0 | S. | 0.2 | S. | 0.2 | S. E. | 0.2 | S. | 0.2 | — | 0.0 |
| | 21 | S. | 0.5 | S. | 0.5 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 22 | S. | 0.5 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 |
| | 23 | S. by E. | 0.2 | S. by E. | 1.0 | S. by E. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 24 | W. N. W. | 0.5 | W. N. W. | 0.2 | — | 0.0 | — | 0.0 | N. W. | 0.2 | — | 0.0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 27 | S. by W. | 1.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 29 | N. N. W. | 1.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 30 | S. S. W. | 0.5 | — | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| N. W. | 0.5 | N. W. | 1.0 | N. W. | 1.0 | W. N. W. | 0.5 | W. | 0.5 | W. | 0.2 | 1 |
| S. E. by S. | 0.5 | E. by S. | 0.5 | E. S. E. | 1.0 | E. N. E. | 1.0 | E. | 1.0 | E. | 1.0 | 2 |
| N. N. W. | 2.0 | N. | 1.0 | N. | 1.0 | N. | 1.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | 3 |
| — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| E. by N. | 0.2 | E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | N. E. | 0.5 | N. E. | 0.5 | 5 |
| S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.2 | S. | 0.2 | 6 |
| S. by E. | 0.5 | S. | 0.5 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 7 |
| E. | 0.2 | E. | 0.2 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. by N. | 0.5 | 8 |
| S. W. | 0.2 | S. S. W. | 0.5 | W. by S. | 1.0 | S. by W. | 0.5 | — | 0.0 | N. W. | 0.5 | 9 |
| — | 0.0 | S. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | 10 |
| — | — | — | — | — | — | — | — | — | — | — | — | 11 |
| — | 0.0 | S. W. | 0.5 | S. | 0.2 | S. | 1.2 | S. S. E. | 0.2 | E. S. E. | 0.2 | 12 |
| S | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | — | 0.0 | 13 |
| W. S. W. | 1.0 | W. S. W. | 1.0 | W. N. W. | 1.0 | W. by N. | 1.0 | W. N. W. | 1.0 | W. N. W. | 2.0 | 14 |
| S. W. by S. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. | 0.2 | 15 |
| — | 0.0 | S. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.2 | — | 0.0 | — | 0.0 | 16 |
| S. S. E. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.2 | 17 |
| — | — | — | — | — | — | — | — | — | — | — | — | 18 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.5 | 19 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 1.0 | 20 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.5 | S. | 0.5 | 21 |
| S. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.5 | 22 |
| S. S. E. | 1.0 | S. S. E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | 23 |
| S. | 0.5 | W. | 1.0 | W. | 0.5 | S. W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 | 24 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | 26 |
| S. by E. | 0.2 | S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.5 | S. by W. | 0.5 | S. by W. | 1.0 | 27 |
| — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | E. S. E. | 0.5 | E. S. E. | 0.5 | 28 |
| E. S. E. | 0.2 | S. | 0.2 | S. E. | 0.2 | W. S. W. | 0.5 | W. by S. | 2.0 | N. N. W. | 2.0 | 29 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 1.0 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | 30 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| E. | 0.5 | E. | 0.5 | E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | 4 |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| — | 0.0 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | 7 |
| S. E. | 0.5 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 8 |
| N. N. W. | 0.5 | — | 0.0 | — | 0.0 | N. by W. | 2.0 | N. by W. | 0.5 | — | 0.0 | 9 |
| — | — | — | — | — | — | — | — | — | — | — | — | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | — | 0.0 | 13 |
| N. W. | 1.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| N. | 0.5 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | 16 |
| — | — | — | — | — | — | — | — | — | — | — | — | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| S. | 0.5 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| — | — | — | — | — | — | — | — | — | — | — | — | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 29 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |

JUNE.

JUNE.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|----------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| JULY. | 1 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | S. | 0·2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | N. W. | 0·2 | — | 0·0 | W. | 0·5 | S. W. | 0·5 | S. W. | 0·5 | S. S. W. | 0·5 |
| | 4 | — | 0·0 | — | 0·0 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 0·5 | S. W. by S. | 2·0 |
| | 5 | N. N. W. | 0·5 | N. by E. | 0·5 | N. by E. | 0·5 | N. | 0·5 | E. S. E. | 0·5 | S. S. E. | 1·0 |
| | 6 | — | 0·0 | — | 0·0 | S. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 1·0 |
| | 7 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | S. by W. | 0·5 | W. N. W. | 2·0 |
| | 8 | — | 0·0 | N. W. | 0·5 | W. N. W. | 0·5 | W. | 1·0 | W. | 2·0 | W. | 2·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | — | 0·0 | — | 0·0 | N. E. | 0·2 | N. E. | 0·2 | S. W. | 0·2 | S. W. | 0·2 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | E. by S. | 0·2 | — | 0·0 | S. | 0·5 |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. | 0·2 | E. by S. | 0·2 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | S. E. | 0·2 |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 18 | — | 0·0 | W. N. W. | 0·5 | W. N. W. | 0·5 | W. N. W. | 0·5 | S. W. by W. | 0·5 | S. W. | 1·0 |
| | 19 | N. | 0·5 | N. | 1·0 | N. | 2·0 | N. | 1·0 | N. | 1·0 | N. by W. | 1·0 |
| | 20 | — | 0·0 | N. by E. | 0·2 | N. | 0·2 | N. | 0·2 | N. | 0·2 | S. E. | 0·5 |
| | 21 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·5 |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·5 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | — | 0·0 | — | 0·0 | W. | 0·5 | S. by W. | 0·5 | N. W. | 0·5 | N. N. W. | 0·5 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 | S. W. | 0·5 | S. W. | 0·5 |
| | 26 | — | 0·0 | — | 0·0 | S. S. W. | 0·5 | S. S. W. | 0·5 | S. S. W. | 0·5 | S. S. W. | 0·2 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | E. S. E. | 0·2 | E. S. E. | 0·2 |
| | 28 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 | S. E. by E. | 0·2 | S. E. by E. | 0·2 |
| | 29 | W. N. W. | 0·5 | N. W. | 0·5 | N. W. | 1·0 | N. W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | W. | 0·2 | S. W. | 0·5 |
| JULY. | 1 | S. S. W. | 0·5 | S. S. W. | 1·0 | S. S. W. | 1·0 | S. S. W. | 0·5 | — | 0·0 | — | 0·0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | S. W. by W. | 0·5 | S. W. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 4 | — | 0·0 | N. | 1·0 | N. | 0·5 | N. | 1·0 | N. N. W. | 1·0 | N. N. W. | 1·0 |
| | 5 | S. by E. | 0·5 | S. by E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | S. S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 7 | N. W. | 3·0 | N. W. | 1·0 | N. W. by W. | 0·5 | N. W. | 2·0 | N. W. by W. | 0·5 | — | 0·0 |
| | 8 | N. W. | 3·0 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | N. | 1·0 | N. W. | 1·0 | N. W. | 1·0 | N. W. | 1·0 | N. | 0·5 | N. | 0·5 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | S. E. | 0·5 | E. S. E. | 0·2 | E. | 0·2 | E. | 0·5 | E. | 0·2 | — | 0·0 |
| | 14 | E. | 0·2 | N. N. E. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | S. | 0·2 | S. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | W. N. W. | 1·0 | — | 0·0 | W. N. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 18 | W. | 2·0 | — | 0·0 | N. W. | 0·2 | W. | 0·2 | W. | 0·2 | — | 0·0 |
| | 19 | N. by E. | 0·5 | N. | 0·2 | N. | 0·5 | N. | 0·5 | N. | 0·5 | N. | 1·0 |
| | 20 | S. | 0·2 | S. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 21 | S. | 1·0 | S. | 1·0 | S. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 |
| | 22 | S. by E. | 1·0 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | N. N. W. | 0·5 | N. N. W. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·5 | N. N. W. | 0·2 | N. N. W. | 0·5 |
| | 25 | S. W. | 0·5 | S. W. | 0·2 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | N. | 2·0 | N. W. | 0·5 | S. W. | 1·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 |
| | 28 | W. S. W. | 2·0 | S. W. | 0·2 | S. W. | 0·2 | S. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 29 | N. by W. | 0·2 | N. by W. | 0·2 | N. by W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | — | 0·0 | — | 0·0 | S. W. | 0·2 | S. W. | 0·2 | — | 0·0 | — | 0·0 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.5 | S. | 1.0 | S. S. W. | 1.0 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| S. W. | 0.5 | S. S. W. | 0.5 | S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | 3 |
| S. W. by S. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 0.5 | S. W. | 0.5 | 4 |
| S. S. E. | 1.0 | S. S. E. | 1.0 | S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.5 | 5 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 0.5 | 6 |
| W. N. W. | 10.0 | W. N. W. | 7.0 | W. N. W. | 7.0 | W. N. W. | 3.0 | W. N. W. | 3.0 | W. N. W. | 3.0 | 7 |
| W. N. W. | 10.0 | N. W. | 2.0 | N. W. by W. | 2.0 | W. by N. | 2.0 | W. N. W. | 3.0 | N. W. | 3.0 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 2.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | N. | 2.0 | 10 |
| S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | — | 0.0 | 11 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | S. E. | 0.2 | S. E. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 12 |
| S. E. | 0.2 | S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.5 | 13 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. E. | 0.2 | E. | 0.2 | E. | 0.2 | 14 |
| N. N. E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | — | 0.0 | S. W. | 2.0 | S. W. | 0.5 | 17 |
| S. W. | 1.0 | S. W. | 1.0 | S. W. by W. | 2.0 | S. W. by W. | 2.0 | S. W. by W. | 2.0 | W. | 2.0 | 18 |
| N. | 1.0 | N. | 1.0 | N. | 1.0 | N. | 0.5 | N. by E. | 1.0 | N. N. E. | 0.5 | 19 |
| S. E. | 1.0 | S. | 2.0 | S. | 1.0 | S. | 1.0 | S. | 0.5 | S. | 0.5 | 20 |
| S. | 0.5 | S. | 2.0 | S. | 2.0 | S. | 2.0 | S. | 1.0 | S. | 1.0 | 21 |
| S. | 0.5 | S. | 1.0 | S. | 1.0 | S. | 1.0 | S by E. | 1.0 | S. by E. | 1.0 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | 24 |
| S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. S. W. | 0.5 | S. W. | 0.2 | 25 |
| S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.5 | S. | 1.0 | S. by W. | 2.0 | S. by W. | 2.0 | 26 |
| E. | 0.2 | E. by S. | 0.5 | E. | 1.0 | E. by S. | 1.0 | E. by N. | 0.5 | E. | 0.5 | 27 |
| S. E. | 0.5 | S. S. W. | 1.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | S. W. | 2.0 | S. W. | 2.0 | 28 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.5 | N. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 |
| S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | 31 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| N. N. W. | 0.5 | N. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. by N. | 0.5 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | — | 0.0 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. S. W. | 0.5 | — | 0.0 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| N. | 0.5 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.2 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | — | 0.0 | — | 0.0 | 14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| — | 0.0 | N. E. | 0.2 | N. | 0.5 | N. | 0.5 | — | 0.0 | E. | 0.5 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.5 | 18 |
| N. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | W. | 0.2 | — | 0.0 | — | 0.0 | 23 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.5 | — | 0.0 | — | 0.0 | N. | 0.2 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| E. N. E. | 0.2 | E. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | W. by N. | 0.5 | 28 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | 30 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. E. | 0.2 | — | 0.0 | 31 |

JULY.

JULY.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| AUGUST. | 1 | — | lbs. 0·0 | — | lbs. 0·0 | — | 0·0 | S. S. E. | 0·5 | E. S. E. | 0·5 | E. S. E. | 0·2 |
| | 2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·5 | S. E. by S. | 0·2 |
| | 3 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. E. | 0·2 |
| | 4 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 | E. S. E. | 0·2 | E. by S. | 0·2 |
| | 5 | — | 0·0 | — | 0·0 | — | 0·0 | E. by N. | 0·2 | — | 0·0 | — | 0·0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | N. N. E. | 0·5 | N. N. E. | 0·5 | N. N. E. | 0·5 | N. by E. | 0·5 | N. by E. | 0·2 | S. E. | 0·2 |
| | 12 | — | 0·0 | S. E. by S. | 0·2 | N. by W. | 0·2 | N. by W. | 0·2 | N. by W. | 0·2 | N. N. W. | 0·2 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | — | 0·0 | — | 0·0 | N. W. | 0·2 | W. by N. | 0·2 | W. by N. | 0·2 | — | 0·0 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | S. | 0·2 | S. | 0·2 |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. by S. | 0·2 | — | 0·0 |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | W. by S. | 0·2 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | — | 0·0 | E. | 0·2 | E. | 0·2 | E. | 0·2 | E. | 0·5 | E. by S. | 0·5 |
| | 22 | — | 0·0 | E. by N. | 0·2 | E. by N. | 0·2 | N. E. by E. | 0·2 | N. E. by E. | 0·2 | E. S. E. | 0·2 |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | E. N. E. | 0·2 | N. E. by N. | 0·2 | S. E. | 0·2 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. E. | 0·2 | S. S. E. | 0·2 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. E. | 0·2 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. by W. | 0·2 | N. E. | 0·2 |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·2 |
| | 30 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 31 | — | 0·0 | — | 0·0 | — | 0·0 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. S. W. | 0·5 |
| AUGUST. | 1 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 2 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 3 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | S. by E. | 0·2 | S. S. E. | 0·2 |
| | 4 | E. by N. | 0·5 | — | 0·0 | E. by N. | 0·2 | E. by N. | 0·2 | E. by N. | 0·2 | — | 0·0 |
| | 5 | E. N. E. | 0·2 | E. N. E. | 0·2 | E. by N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | S. | 0·2 | — | 0·0 |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | — | 0·0 | S. | 0·2 |
| | 10 | E. N. E. | 0·2 | — | 0·0 | E. N. E. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·2 |
| | 11 | — | 0·0 | — | 0·0 | N. E. | 0·2 | N. E. | 0·2 | — | 0·0 | — | 0·0 |
| | 12 | — | 0·0 | — | 0·0 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | N. W. by N. | 0·5 | N. W. by N. | 0·2 | W. by N. | 0·2 | — | 0·0 | W. by N. | 0·2 | W. by N. | 0·5 |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | S. S. E. | 0·5 | S. by E. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | S. W. by S. | 0·2 | S. W. by S. | 0·2 | S. W. by S. | 0·2 | S. W. by S. | 0·2 | — | 0·0 | — | 0·0 |
| | 18 | — | 0·0 | N. by W. | 0·5 | N. N. W. | 1·0 | N. N. W. | 0·5 | N. N. W. | 1·0 | N. N. W. | 1·0 |
| | 19 | — | 0·0 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | W. N. W. | 0·2 | N. N. W. | 0·2 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 23 | E. | 0·2 | — | 0·0 | S. E. | 0·2 | — | 0·0 | S. S. E. | 0·5 | S. S. E. | 0·5 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | — | 0·0 | — | 0·0 |
| | 25 | E. by S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 29 | E. S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 30 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 31 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. E. by E. | 0.2 | S. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | 1 |
| S. | 0.2 | S. S. E. | 0.5 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. | 0.2 | S. | 0.2 | 2 |
| S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | 3 |
| E. | 0.2 | E. by S. | 0.5 | E. S. E. | 0.5 | E. by S. | 0.5 | E. | 0.2 | E. by N. | 0.5 | 4 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. | 0.2 | E. | 0.5 | E. | 0.5 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| S. S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| S. | 0.2 | S. | 0.5 | S. | 0.5 | S. | 0.2 | S. | 0.2 | — | 0.0 | 8 |
| S. | 0.2 | S. | 0.5 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 9 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. S. E. | 0.5 | E. by N. | 0.2 | 10 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. by S. | 0.5 | S. E. by S. | 0.5 | S. E. by S. | 0.2 | S. | 0.2 | 11 |
| N. N. W. | 0.2 | S. W. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| — | 0.0 | W. S. W. | 0.2 | W. S. W. | 0.5 | N. N. W. | 0.5 | N. W. by N. | 0.5 | N. W. by N. | 1.0 | 14 |
| W. N. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | S. W. by W. | 0.2 | S. W. by S. | 0.2 | — | 0.0 | 15 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.2 | 16 |
| S. | 0.2 | S. | 0.2 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.2 | 17 |
| S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | — | 0.0 | 18 |
| S. by W. | 0.2 | — | 0.0 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 21 |
| E. S. E. | 0.2 | S. by E. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. E. | 0.2 | — | 0.0 | 22 |
| S. E. by S. | 0.2 | S. E. by S. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.5 | S. S. E. | 0.2 | S. | 0.2 | 23 |
| S. S. E. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. by E. | 0.2 | 24 |
| — | 0.0 | S. S. E. | 0.2 | — | 0.0 | E. S. E. | 0.2 | E. by S. | 0.5 | E. by S. | 0.5 | 25 |
| S. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | — | 0.0 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| E. | 0.2 | E. by S. | 0.2 | E. S. E. | 0.2 | S. E. by E. | 0.2 | — | 0.0 | — | 0.0 | 28 |
| E. by N. | 0.2 | E. | 0.5 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. S. E. | 0.2 | 29 |
| — | 0.0 | E. S. E. | 0.0 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |
| W. S. W. | 0.5 | W. S. W. | 0.5 | S. by W. | 1.0 | S. by W. | 1.0 | S. by W. | 0.5 | S. by W. | 0.2 | 31 |

AUGUST.

AUGUST.

DIRECTION AND FORCE OF THE WIND

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. | |
|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|------------------------------|----|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | | |
| S. | lbs. 0.2 | S. | lbs. 0.2 | S. | lbs. 0.2 | S. | lbs. 0.2 | — | lbs. 0.0 | S. E. | lbs. 0.2 | 1 | |
| S. | 0.2 | S. by W. | 0.5 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 2 | |
| — | — | — | — | — | — | — | — | — | — | — | — | 3 | |
| W. by S. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | W. | 0.2 | N. W. | 0.2 | N. by W. | 0.5 | 4 | |
| E. S. E. | 1.0 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. by S. | 0.5 | E. by S. | 0.5 | E. by S. | 0.2 | 5 | |
| E. N. E. | 0.2 | E. by N. | 0.2 | E. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 | — | 0.0 | 6 | |
| E. by S. | 1.0 | E. | 1.0 | E. | 2.0 | E. | 1.0 | E. | 1.0 | E. by N. | 0.5 | 7 | |
| S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. W. by S. | 0.5 | W. | 0.5 | N. W. | 2.0 | 8 | |
| W. N. W. | 1.0 | N. W. by W. | 1.0 | W. | 1.0 | W. by N. | 1.0 | W. by N. | 1.0 | W. by N. | 0.5 | 9 | |
| — | — | — | — | — | — | — | — | — | — | — | — | 10 | |
| E. S. E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | 11 | |
| E. | 0.2 | E. | 0.2 | E. by S. | 0.5 | E. by S. | 0.5 | E. S. E. | 0.2 | E. S. E. | 0.2 | 12 | |
| E. | 7.0 | E. by S. | 7.0 | E. | 6.0 | E. by S. | 5.0 | E. | 3.0 | E. | 3.0 | 13 | |
| E. S. E. | 3.0 | E. S. E. | 3.0 | E. S. E. | 3.0 | E. by S. | 2.0 | E. | 2.0 | E. by N. | 2.0 | 14 | |
| E. S. E. | 0.5 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. by E. | 0.5 | S. by W. | 1.0 | S. S. W. | 1.0 | 15 | |
| S. W. | 2.0 | S. W. | 2.0 | S. S. W. | 3.0 | S. S. W. | 3.0 | S. S. W. | 3.0 | S. S. W. | 3.0 | 16 | |
| — | — | — | — | — | — | — | — | — | — | — | — | 17 | |
| N. N. E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | 18 | |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.5 | E. S. E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | 19 | |
| — | 0.0 | — | 0.0 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | 20 | |
| S. W. | 2.0 | W. by S. | 5.0 | W. | 5.0 | W. | 5.0 | W. by N. | 5.0 | N. N. W. | 2.0 | 21 | |
| E. by N. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | E. N. E. | 0.2 | 22 | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 | |
| — | — | — | — | — | — | — | — | — | — | — | — | 24 | |
| N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. N. E. | 0.2 | N. | 0.2 | 25 | |
| N. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | 26 | |
| N. N. W. | 0.2 | N. W. by N. | 0.2 | N. | 0.2 | N. W. by N. | 0.2 | N. W. by N. | 0.2 | N. N. W. | 0.2 | 27 | |
| — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | 28 | |
| S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | 29 | |
| S. by E. | 0.2 | E. | 0.5 | E. by N. | 0.5 | E. N. E. | 0.5 | E. | 0.5 | N. E. by E. | 0.2 | 30 | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 October. | |
| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | SEPTEMBER. 1 October. | |
| S. by W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 2 |
| W. S. W. | 0.5 | W. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 3 |
| N. | 0.5 | — | 0.0 | — | 0.0 | N. | 0.2 | N. | 0.5 | — | 0.0 | | 4 |
| — | 0.0 | — | 0.0 | E. | 0.2 | E. by N. | 0.5 | E. by N. | 0.5 | — | 0.0 | | 5 |
| E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.2 | | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. by S. | 0.2 | — | 0.0 | | 7 |
| N. W. | 1.0 | N. W. | 1.0 | N. W. | 1.0 | N. W. | 1.0 | N. W. | 1.0 | N. W. | 1.0 | | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 9 |
| N. E. by E. | 0.5 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | — | 0.0 | | 10 |
| N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | — | 0.0 | | 11 |
| — | 0.0 | — | 0.0 | E. S. E. | 0.2 | E. by S. | 0.5 | E. by S. | 0.2 | E. by S. | 0.2 | | 12 |
| E. S. E. | 1.0 | E. S. E. | 0.5 | E. by S. | 0.5 | E. by S. | 0.2 | — | 0.0 | — | 0.0 | | 13 |
| E. by S. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | E. | 2.0 | | 14 |
| S. by W. | 2.0 | S. by W. | 2.0 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.2 | S. W. by S. | 0.2 | | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 16 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 18 |
| E. by N. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.5 | — | 0.0 | | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 20 |
| N. | 0.2 | — | 0.0 | — | 0.0 | N. | 0.2 | N. | 0.2 | — | 0.0 | | 21 |
| E. N. E. | 0.2 | E. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 23 |
| N. E. by E. | 0.5 | N. E. by E. | 0.2 | — | 0.0 | — | 0.0 | N. E. by E. | 0.2 | — | 0.0 | | 24 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | | 25 |
| N. by E. | 0.5 | N. by E. | 0.5 | N. by E. | 0.2 | N. by E. | 0.2 | N. | 0.2 | N. by E. | 0.2 | | 26 |
| N. | 0.2 | N. W. by N. | 0.2 | N. W. by N. | 0.2 | — | 0.0 | N. W. by N. | 0.2 | — | 0.0 | | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 28 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 | |
| S. by W. | 2.0 | S. S. W. | 5.0 | S. S. W. | 1.0 | S. W. by S. | 0.5 | S. W. | 0.2 | S. W. | 0.0 | 1 October. | |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| | | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | |
| OCTOBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | S. W. | 0·2 | S. W. | 0·5 | S. W. | 0·5 | S. W. | 2·0 | S. W. | 2·0 | S. W. | 2·0 |
| | 3 | — | 0·0 | — | 0·0 | S. W. | 0·5 | S. W. by S. | 2·0 | S. W. | 3·0 | S. W. by S. | 5·0 |
| | 4 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. by N. | 0·5 | W. N. W. | 0·5 | W. by N. | 0·5 |
| | 5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 |
| | 7 | — | 0·0 | — | 0·0 | — | 0·0 | E. by N. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·5 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | — | 0·0 | — | 0·0 |
| | 12 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | N. W. | 0·5 | W. N. W. | 0·5 | W. N. W. | 1·0 |
| | 13 | — | 0·0 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·2 |
| | 14 | — | 0·0 | — | 0·0 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. | 0·2 |
| | 17 | S. W. by S. | 0·5 | S. W. by S. | 0·5 | S. W. by S. | 0·5 | S. W. by S. | 1·0 | S. W. by S. | 2·0 | S. W. | 5·0 |
| | 18 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | S. W. by W. | 0·5 |
| | 19 | — | 0·0 | — | 0·0 | S. W. by S. | 0·2 | S. W. by W. | 0·5 | W. | 0·5 | W. | 0·5 |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 | S. W. | 0·5 |
| | 21 | N. by E. | 5·0 | N. | 2·0 | N. | 2·0 | N. | 2·0 | N. by W. | 1·0 | N. by W. | 1·0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by W. | 0·2 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. W. | 2·0 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | N. E. by E. | 2·0 | N. E. by E. | 2·0 | N. E. by N. | 5·0 | N. E. by N. | 5·0 | N. E. by N. | 2·0 | N. E. by N. | 1·0 |
| | 28 | — | 0·0 | N. W. by W. | 0·2 | N. W. by W. | 0·2 | N. W. by W. | 0·2 | — | 0·0 | — | 0·0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | S. W. | 1·0 | S. W. | 1·0 | S. W. | 0·2 | — | 0·0 | S. W. | 0·2 | S. W. | 0·5 |
| | 31 | — | 0·0 | — | 0·0 | — | 0·0 | W. | 0·2 | W. | 0·2 | W. | 0·2 |
| OCTOBER. | | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | |
| | | | | | | | | | | | | | |
| | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | S. W. | 0·2 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 3 | W. S. W. | 0·5 | W. S. W. | 0·2 | W. S. W. | 0·2 | W. by S. | 0·2 | W. by S. | 0·2 | W. by S. | 0·2 |
| | 4 | W. by N. | 2·0 | W. by N. | 1·0 | W. N. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 7 | E. N. E. | 0·5 | E. N. E. | 0·5 | E. N. E. | 0·5 | W. by N. | 0·5 | W. by N. | 0·5 | W. by N. | 0·2 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | — | 0·0 | — | 0·0 |
| | 12 | N. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. by S. | 0·2 |
| | 17 | S. W. by W. | 1·0 | S. W. by W. | 2·0 | S. W. by W. | 2·0 | S. W. by W. | 2·0 | S. W. by W. | 1·0 | S. W. by W. | 1·0 |
| | 18 | W. S. W. | 0·2 | — | 0·0 | — | 0·0 | S. W. by W. | 0·2 | — | 0·0 | — | 0·0 |
| | 19 | — | 0·0 | W. S. W. | 0·2 | W. S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 20 | S. W. by S. | 2·0 | S. W. by S. | 0·5 | S. W. by S. | 2·0 | S. W. by S. | 1·0 | S. W. by S. | 2·0 | S. W. by S. | 3·0 |
| | 21 | N. by W. | 2·0 | N. by W. | 0·5 | N. by W. | 0·5 | N. N. W. | 0·2 | N. N. W. | 0·2 | — | 0·0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | W. N. W. | 2·0 | W. N. W. | 1·0 | W. N. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | — | 0·0 | S. E. by S. | 0·5 | S. E. by E. | 1·0 | S. E. by E. | 1·0 | S. E. by E. | 1·0 | S. E. by E. | 1·0 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 28 | S. S. E. | 0·2 | S. S. E. | 0·2 | S. S. E. | 0·2 | S. S. E. | 0·5 | S. S. E. | 1·0 | S. S. E. | 1·0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| 30 | W. by N. | 0·5 | W. by N. | 0·2 | W. by N. | 0·5 | W. by N. | 0·5 | W. | 0·5 | W. by S. | 0·5 | |
| 31 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | lbs. | — | lbs. | — | lbs. | — | bs. | — | lbs. | — | lbs. | 1 |
| S. W. | 2.0 | S. W. | 3.0 | S. W. | 3.0 | S. W. | 3.0 | S. W. | 3.0 | S. W. | 0.2 | 2 |
| W. S. W. | 7.0 | W. S. W. | 7.0 | W. | 10.0 | W. S. W. | 7.0 | W. S. W. | 7.0 | W. S. W. | 5.0 | 3 |
| W. S. W. | 2.0 | W. S. W. | 2.0 | W. S. W. | 1.0 | W. | 2.0 | W. | 2.0 | W. by N. | 2.0 | 4 |
| W. S. W. | 0.2 | S. W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. | 0.2 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| E. N. E. | 0.5 | N. E. by E. | 1.0 | E. N. E. | 0.5 | E. N. E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| S. W. by W. | 1.0 | W. by S. | 1.0 | W. N. W. | 2.0 | N. W. | 2.0 | N. W. | 1.0 | N. W. | 1.0 | 12 |
| N. E. by N. | 0.2 | N. E. by N. | 0.2 | N. N. E. | 0.5 | N. by W. | 0.2 | N. by W. | 0.2 | N. W. | 0.2 | 13 |
| N. W. | 0.2 | S. W. by W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | — | 0.0 | — | 0.0 | 14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 1.0 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | — | 0.0 | 16 |
| W. S. W. | 5.0 | W. S. W. | 2.0 | W. S. W. | 2.0 | S. W. | 3.0 | S. W. | 2.0 | S. W. by W. | 2.0 | 17 |
| S. W. | 2.0 | S. W. | 1.0 | S. W. | 0.2 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | W. S. W. | 0.5 | 18 |
| W. S. W. | 0.5 | S. W. by S. | 0.2 | W. by S. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | W. S. W. | 0.2 | 19 |
| S. W. | 2.0 | S. S. W. | 2.0 | S. W. by S. | 2.0 | S. W. by S. | 2.0 | S. W. by S. | 2.0 | S. W. by S. | 2.0 | 20 |
| N. by W. | 1.0 | N. by W. | 3.0 | N. by W. | 3.0 | N. | 2.0 | N. by W. | 1.0 | N. by W. | 1.0 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| S. by W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.5 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| W. by N. | 5.0 | W. by N. | 7.0 | W. N. W. | 7.0 | W. N. W. | 5.0 | W. N. W. | 3.0 | W. N. W. | 3.0 | 25 |
| S. by E. | 0.2 | S. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | 26 |
| N. E. by N. | 0.2 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | S by E. | 0.2 | S. S. E. | 0.2 | 28 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| W. S. W. | 0.5 | W. | 2.0 | W. by S. | 1.0 | W. N. W. | 1.0 | W. N. W. | 1.0 | W. N. W. | 0.5 | 30 |
| S. W. | 0.2 | W. | 0.2 | W. | 0.2 | S. W. by W. | 0.2 | S. W. by W. | 0.2 | S. W. by W. | 0.2 | 31 |

OCTOBER.

OCTOBER.

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| W. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| W. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| S. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | — | 0.0 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| E. by N. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | — | 0.0 | 15 |
| S. W. by S. | 0.5 | S. W. by S. | 0.2 | S. W. by S. | 1.0 | S. W. by S. | 1.0 | S. W. by S. | 1.0 | S. W. by S. | 1.0 | 16 |
| S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | 17 |
| — | 0.0 | S. W. by W. | 0.2 | S. W. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| S. W. by S. | 2.0 | S. W. by S. | 2.0 | S. W. by S. | 2.0 | S. W. by S. | 2.0 | S. W. by S. | 2.0 | S. W. by S. | 2.0 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| E. S. E. | 1.0 | E. by S. | 1.0 | E. | 1.0 | E. | 1.0 | E. | 1.0 | E. by N. | 1.0 | 26 |
| — | 0.0 | — | 0.0 | N. E. by N. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.2 | S. W. | 1.0 | 29 |
| W. | 1.0 | W. | 1.0 | W. | 1.0 | W. | 0.5 | W. | 0.2 | W. | 0.2 | 30 |
| — | 0.0 | — | 0.0 | S. S. E. | 0.5 | S. S. E. | 2.0 | S. S. E. | 2.0 | S. S. E. | 2.0 | 31 |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| NOVEMBER. | 1 | S. S. E. | 2·0 | S. by E. | 2·0 | S. by E. | 2·0 | S. by E. | 5·0 | S. by E. | 5·0 | S. by E. | 3·0 |
| | 2 | — | 0·0 | — | 0·0 | — | 0·0 | W. by S. | 0·2 | S. by W. | 1·0 | S. S. W. | 0·5 |
| | 3 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 |
| | 4 | — | 0·0 | — | 0·0 | N. by E. | 0·2 | N. E. by N. | 0·2 | — | 0·0 | — | 0·0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. | 0·2 | N. | 0·2 |
| | 7 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | — | 0·0 | N. W. | 0·5 | N. N. W. | 2·0 | N. N. W. | 2·0 | N. | 0·5 | N. | 0·5 |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. | 0·2 | E. N. E. | 0·2 | E. S. E. | 0·5 |
| | 10 | E. S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | W. | 0·5 | W. | 0·5 | W. | 0·5 | W. | 0·2 | W. | 0·2 | W. | 2·0 |
| | 14 | N. W. by W. | 0·2 | N. W. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | S. E. by E. | 0·5 | S. E. by E. | 0·5 | S. E. by E. | 0·2 | S. E. by E. | 0·2 | S. E. by E. | 0·2 | S. E. by E. | 0·2 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. | 0·2 | E. N. E. | 0·5 |
| | 18 | S. W. | 5·0 | S. W. | 5·0 | S. W. | 3·0 | W. S. W. | 5·0 | W. | 7·0 | W. | 5·0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 | — | 0·0 |
| | 21 | S. | 5·0 | S. | 2·0 | S. | 0·5 | S. | 0·5 | S. W. | 0·5 | S. W. | 0·5 |
| | 22 | W. S. W. | 0·2 | W. S. W. | 0·2 | W. S. W. | 1·0 | W. S. W. | 2·0 | W. S. W. | 2·0 | W. S. W. | 2·0 |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. by S. | 0·2 |
| | 24 | S. S. W. | 1·0 | S. W. | 2·0 | W. by S. | 5·0 | W. | 5·0 | W. | 2·0 | W. | 2·0 |
| | 25 | — | 0·0 | W. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 0·5 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 |
| | 28 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 30 | N. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| NOVEMBER. | 1 | S. by W. | 1·0 | S. by W. | 1·0 | S. by W. | 1·0 | S. by W. | 0·5 | S. by W. | 1·0 | S. by W. | 1·0 |
| | 2 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 | W. | 0·5 | W. N. W. | 0·5 | W. N. W. | 0·5 |
| | 3 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | — | 0·0 | N. W. | 0·2 | N. W. | 0·2 |
| | 4 | N. E. | 0·5 | N. E. | 0·5 | N. E. | 0·5 | N. E. | 0·2 | N. E. | 0·2 | N. E. | 1·0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 7 | — | 0·0 | N. N. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | N. by W. | 0·2 | N. by W. | 0·2 | N. by W. | 0·2 | N. by W. | 0·2 | — | 0·0 | — | 0·0 |
| | 9 | E. by S. | 1·0 | E. S. E. | 1·0 | E. S. E. | 1·0 | E. S. E. | 1·0 | E. S. E. | 0·5 | E. S. E. | 1·0 |
| | 10 | — | 0·0 | S. W. | 0·2 | — | 0·0 | S. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 11 | W. N. W. | 1·0 | — | 0·0 | — | 0·0 | N. W. | 0·2 | N. W. | 0·2 | N. W. by N. | 0·2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | N. W. | 0·2 | N. W. | 0·5 | W. N. W. | 0·5 | N. W. | 1·0 | N. W. | 1·0 | N. W. by W. | 1·0 |
| | 14 | S. | 0·2 | — | 0·0 | S. E. by S. | 0·2 | S. E. | 0·5 | S. E. | 1·0 | S. E. | 0·5 |
| | 15 | E. S. E. | 0·2 | E. S. E. | 0·2 | S. E. by E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | N. | 0·2 | N. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | E. | 7·0 | E. | 10·0 | E. | 5·0 | E. | 2·0 | E. | 2·0 | E. | 2·0 |
| | 18 | W. by S. | 0·5 | W. by S. | 0·5 | W. by S. | 0·2 | W. by S. | 0·2 | W. by S. | 0·5 | W. by S. | 0·2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | E. | 1·0 | E. | 1·0 | E. | 2·0 | E. | 2·0 | E. by S. | 2·0 | S. E. | 1·0 |
| | 21 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 1·0 | W. by S. | 2·0 |
| | 22 | W. | 0·5 | W. | 1·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 23 | E. by N. | 0·2 | E. by N. | 0·5 | E. by N. | 0·2 | E. | 0·2 | E. | 0·2 | — | 0·0 |
| | 24 | W. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 0·2 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 28 | S. W. | 0·2 | S. W. | 0·2 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | — | 0·0 |
| | 29 | W. N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 |
| | 30 | — | 0·0 | — | 0·0 | E. by S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |

DIRECTION AND FORCE OF THE WIND.


| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|----------|------------------|----------|------------------|----------|------------------|----------|-------------------|----------|-------------------|----------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | S. | lbs. 0·2 | — | lbs. 0·0 | 1 |
| W. by N. | 0·2 | W. by N. | 0·2 | W. by N. | 0·2 | W. S. W. | 0·2 | W. S. W. | 0·2 | W. S. W. | 0·2 | 2 |
| — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| S. W. | 1·0 | S. W. | 0·2 | S. W. | 0·5 | S. W. | 1·0 | W. S. W. | 1·0 | W. S. W. | 0·5 | 4 |
| N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | — | 0·0 | N. by E. | 0·2 | 5 |
| S. | 0·2 | S. | 0·5 | S. by W. | 0·5 | S. by W. | 1·0 | S. by W. | 1·0 | S. by W. | 1·0 | 6 |
| — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | 7 |
| S. S. W. | 0·2 | S. by W. | 2·0 | S. | 1·0 | S. | 1·0 | S. | 1·0 | S. | 0·2 | 8 |
| S. W. | 0·5 | S. W. | 0·5 | S. W. | 0·5 | S. W. | 1·0 | S. W. | 1·0 | W. S. W. | 1·0 | 9 |
| — | — | — | — | — | — | — | — | — | — | — | — | 10 |
| W. | 0·5 | W. by N. | 0·5 | W. by N. | 0·5 | W. | 0·5 | W. | 0·2 | W. by S. | 0·2 | 11 |
| N. W. by N. | 5·5 | N. W. by N. | 5·0 | N. W. by N. | 5·5 | N. W. by N. | 5·5 | N. W. by N. | 5·5 | N. W. by N. | 3·0 | 12 |
| S. S. W. | 0·5 | S. S. W. | 0·5 | S. S. W. | 0·5 | S. by W. | 0·5 | S. S. W. | 1·0 | S. by W. | 1·0 | 13 |
| S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·5 | S. by W. | 0·5 | S. by W. | 0·5 | 14 |
| — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | 15 |
| N. | 0·2 | N. | 0·2 | N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | 16 |
| — | — | — | — | — | — | — | — | — | — | — | — | 17 |
| — | 0·0 | — | 0·0 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | 18 |
| — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | 19 |
| W. S. W. | 0·2 | W. S. W. | 0·2 | W. S. W. | 0·2 | W. S. W. | 0·5 | W. S. W. | 0·2 | W. S. W. | 0·2 | 20 |
| W. S. W. | 0·2 | W. S. W. | 0·2 | W. S. W. | 0·2 | — | 0·0 | — | 0·0 | W. S. W. | 0·2 | 21 |
| N. E. | 0·5 | N. E. by N. | 0·5 | N. E. | 0·5 | E. N. E. | 0·5 | E. N. E. | 0·2 | E. N. E. | 0·2 | 22 |
| E. N. E. | 1·0 | E. | 1·0 | N. E. by E. | 0·5 | E. N. E. | 1·0 | N. E. | 1·0 | N. E. | 0·5 | 23 |
| — | — | — | — | — | — | — | — | — | — | — | — | 24 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| E. by S. | 3·0 | E. S. E. | 2·0 | E. by S. | 1·0 | E. | 0·5 | E. by S. | 0·2 | E. by S. | 0·5 | 26 |
| W. by N. | 0·2 | W. by N. | 0·2 | W. by N. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 0·2 | 27 |
| — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | W. by N. | 0·2 | W. by N. | 0·5 | 28 |
| N. W. | 0·2 | N. W. | 0·2 | W. N. W. | 0·5 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 | 29 |
| N. W. | 1·0 | N. W. by W. | 3·0 | N. W. | 3·0 | N. W. | 2·0 | W. | 3·0 | W. | 3·0 | 30 |
| — | — | — | — | — | — | — | — | — | — | — | — | 31 |

DECEMBER.

DECEMBER.

TORONTO, 1842-43.

OBSERVATIONS OF THE AURORA.

| OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED. | | | | | |
|---|---|--------------------------|--|--|--------------------------|
| Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. | Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. |
| APRIL. | | | APRIL. | | |
| D. H. M. | | D. | D. H. M. | | D. |
| 14 10 24 | Partially clouded; strong light in N. but no remarkable feature | 3.8 | 15 08 00 | Very sudden burst of auroral light in the N. in patches, banks, and streamers, which disappeared in a few minutes - - - | 4.8 |
| 36 | Clouded round N. horizon; streamers appearing above the clouds - - - - - | — | 35 | A few faint streamers visible in N.; one very large streamer extending from E. to zenith remaining steady - - - | — |
| 11 00 | Faint light in N.; a few pulsations in N.W.; some scattered clouds - - - - - | — | 45 | Light in N. fainter; streamer still in the E. but not so near the zenith - - - - - | — |
| 12 | Faint light; clouding rapidly from N.W. - - - - - | — | 55 | Light in N. the same as the last remark; streamer in E. very bright, longer, and branching like a Y in the zenith - - | — |
| 30 | Calm; faint light in N. almost entirely clouded over with light cir. and cir.-strat. - - - - - | — | 09 00 | Streamer in E. extending across the zenith nearly to W. forming a bright belt across the sky; broader in zenith than at either end - - - - - | — |
| 36 | Faint light only - - - - - | — | 05 | Streamer in E. diminished considerably, and moving towards the S. - - - - - | — |
| 54 | Clear in N., light stronger; pulsations very rapid and distinct | — | 10 | Wind springing up from N.W.; streamer in E. disappeared; Aurora brightening up in N.; sky perfectly clear - - - | — |
| 12 00 | Luminous band of patches and pulsations extending across the zenith from E. to W.; strong steady light in the N. - - - | — | 25 | Light in N. very faint, in form of an arch; streamer disappeared | — |
| 06 | Band appearing to have moved about 15° to S. of zenith - - | — | 40 | Aurora brightening; appearing in form of two arches thus  extending from N.W. to N.E., altitude of the exterior arch about 20°, of interior one about 12°; a few streamers at the Eastern extremity - - - - - | — |
| 12 | Pulsations converging from every part of the horizon except the S.W. to zenith, and covering the whole sky; light steady in N.; clear except a few cir. in the N.W. - - - - - | — | 45 | Features of the Aurora changing very rapidly from banks to patches and streamers; dying away and suddenly brightening again - - - - - | — |
| 18 | Light air sprung up from N.; low range of strat. appearing in N. horizon; remainder of the sky perfectly clear; pulsations apparently proceeding from N.E. and crossing the zenith to W. in three distinct bands - - - - - | — | 57 | Remarkably bright bank in N.E. from which a great number of streamers issue; nothing visible to W. of N. - - - | — |
| 36 | Arch of patches varying their form every moment in N., general altitude about 25°, beneath which light cir.-strat. rests upon the horizon; splendid belt of luminous pulsations across the zenith from E. to W. - - - - - | — | 10 00 | Bright light only in N. - - - - - | — |
| 54 | Extremely bright and steady light in the N., pulsations converging to zenith from every direction, and forming a most splendid crown or circle of light of a reddish colour - - | — | 10 | Aurora entirely disappeared; sky perfectly clear - - - | — |
| 13 00 | Wind N., very light; low bank of strat. in N., remainder of the sky perfectly clear; very vivid pulsation, as before - - | — | 20 | A streamer in S.E. extending to zenith, but neither so bright nor so well defined as that before-mentioned; a few patches in N. | — |
| 12 | Wind N., almost calm; range of dense cum.-strat. rising in N., streamers appearing to rise from behind the clouds; pulsations as before - - - - - | — | 25 | Streamer very bright and extending from S.E. to N.W. inclining to S. of zenith (like a bow); a few bright patches and pulsations in the N. - - - - - | — |
| 24 | Calm; very dense mass of clouds rising in N.; pulsations as before - - - - - | — | 35 | A number of banks appearing and disappearing very rapidly in the N.E. and N.W. - - - - - | — |
| 42 | Calm, a few detached clouds in N.; streamers very brilliant in N. and N.E.; pulsations remaining as before - - - | — | 15 10 45 | Large streamer again invisible; a few patches occasionally in N. | — |
| 14 15 | Pulsations rather diminished in extent and brightness; numberless streamers covering the sky between the W.N.W. and E.N.E. rising to an average altitude of 50°; patches of light extending 20° to the S. of zenith - - - - - | — | 50 | Bright banks in N. and N.E., with slight pulsations - - | — |
| 25 | Features unaltered; pulsations more bright - - - - - | — | 11 00 | Two faint arches only in N. - - - - - | — |
| 30 | Luminous haze covering .4 of the sky to N.; pulsations as before; streamers disappeared; clouds rising in, and passing over from N.W. - - - - - | — | 05 | One broad bright arch extending from N.E. to N.W. - - - | — |
| 35 | Range of dense strat. in the N., above which a bright light appears and extends over .4 of the sky; pulsation as before | — | 15 | No auroral light, except a very faint arch in N. altitude, about 15° - - - - - | — |
| 40 | Pulsations undiminished in extent, and remarkably bright - | — | 20 | The same as at 11 ^h 15 ^m - - - - - | — |
| 50 | Aurora appearing over about .6 of the sky; a few streamers visible - - - - - | — | 30 | A number of bright patches and streamers in the N., enclosed in an arch of luminous haze; altitude about 20° - - - | — |
| 55 | Features unaltered but larger in extent; streamers disappeared | — | 40 | A number of bright banks; patches and streamers forming, disappearing, and reforming again very quickly; luminous haze surrounding the whole to an altitude of 25° - - - | — |
| 15 10 | Pulsations almost disappeared; faint luminous haze over .5 of the sky - - - - - | — | 45 | Streamers, patches, and banks becoming fainter, but retaining the same features as before - - - - - | — |
| 20 | Pulsations brighter; faint streamers and patches in the N. - | — | 50 | Aurora still the same, but brighter - - - - - | — |
| 35 | The same as 15 ^h 20 ^m - - - - - | — | 55 | Nothing remaining but a faint luminous haze, and a few very faint streamers - - - - - | — |
| 45 | Faint sheet of light in N., a few pulsations in N.W. - - - | — | 12 00 | Faint arch of light, and a number of pulsations beginning to vibrate upwards, and disappearing at an altitude of 45° - - | — |
| 55 | Bank of light, brighter; a number of streamers; pulsations continuing - - - - - | — | 05 | The same appearance as last recorded - - - - - | — |
| 16 15 | Bank of light fainter; pulsations gone; light cir.-cum. dispersed over zenith; clouds passing from N.W. - - - - - | — | 10 | Light wind sprung up from the N. by W.; sky perfectly clear; bank of light and faint arch above it in the N.; pulsations proceeding from the N. towards the zenith - - | — |
| 25 | Wind N. by E.; nearly calm; light indistinct - - - - - | — | 30 | Patches and streamers moving backwards and forwards with great rapidity; vivid pulsations - - - - - | — |
| 35 | .5 clouded generally over the sky with cir.-cum. and cir.-strat.; daylight breaking; auroral light just perceptible in the N.N.W. - - - - - | — | 35 | The same appearance as last recorded - - - - - | — |
| 45 | No traces of Aurora - - - - - | — | 40 | The same as last recorded, but pulsations rather extended - | — |
| 17 00 | Wind N., almost calm; about .4 clouded, principally to the E. with cir.-cum. and cir.-strat.; fair - - - - - | — | 45 | Range of streamers suddenly appeared between N.E. and N.W.; pulsations as before - - - - - | — |
| | | | 50 | Streamers disappeared; pulsations remarkably bright - - | — |
| | | | 55 | Pulsations very vivid and extending from E. to N.W. by N.; bright streamers appearing and disappearing in quick succession | — |

OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED.

| Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. | Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. |
|--|--|--------------------------|--|--|--------------------------|
| APRIL. | | | JUNE. | | |
| D. H. M. | | D. | D. H. M. | | D. |
| 15 13 00 | The same appearance as last recorded - - - - - | — | 4 09 22 | Bow of light disappeared; luminous haze in N., and a few faint streaks of light in zenith alone visible - - - - - | — |
| 05 | Pulsations still very vivid, reaching from S.E. round the N. as far as W. by S. - - - - - | — | 27 | Luminous haze, with very faint patches and streamers in N. - - - - - | — |
| 10 | Pulsations the same; several bright streamers in N.E. - - - - - | — | 32 | Appearance nearly the same - - - - - | — |
| 15 | Pulsations fainter and not so extended; bright streamers in E. and N.E. - - - - - | — | 37 | The same appearance as last recorded, with faint streamers moving from E. to W. - - - - - | — |
| 20 | The same appearance as last recorded - - - - - | — | 42 | The same appearance; streamers becoming brighter - - - - - | — |
| 25 | Pulsations fainter, ranging from E. to N.W. - - - - - | — | 47 | Light much brighter; innumerable streamers extending from E. to W. by N., and rising to an altitude of 50° - - - - - | — |
| 30 | Considerably fainter; streamers in N.E. - - - - - | — | 52 | Light fainter; scarcely perceptible; low clouds in N. horizon | — |
| 35 | The same as last recorded, but streamers in N. and N.E. fainter | — | 57 | Patches rather brighter; faint streamers rising above them; a small streamer in the S.E. - - - - - | — |
| 40 | A few faint patches of light, altitude about 15°; pulsations as before reaching to an altitude of 55° - - - - - | — | 10 02 | A faint luminous haze with a few very faint streamers at either end of the light alone visible - - - - - | — |
| 45 | Nearly the same as last recorded; a few faint streamers at intervals - - - - - | — | 07 | Bright light in N.N.E., with bright patches visible behind a low range of clouds in the N.; faint streamers in N.W. - - - - - | — |
| 55 | Bank of luminous haze, altitude about 20°, with a few faint patches; pulsations considerably fainter - - - - - | — | 12 | Clouds rising in the N.; faint light and streamers above them | — |
| 14 00 | Bank rather brighter; pulsations the same; a few faint streamers in N.E. - - - - - | — | 17 | Clouds rising in the N.; faint light and streamers above them; occasional sheet lightning in N.W. - - - - - | — |
| 05 | Very nearly the same as last recorded - - - - - | — | 22 | Calm; bright streamers and pulsations extending from E. to N.W.; patches of light visible behind the clouds - - - - - | — |
| 10 | Calm; clear and unclouded; arch of light, altitude 25°, with a few faint streamers and pulsations - - - - - | — | 27 | Appearance nearly the same; pulsations reaching to an altitude of about 45° - - - - - | — |
| 20 | Arch of light rather brighter, altitude about 30°; very faint pulsations just above it - - - - - | — | 32 | Range of bright streamers extending from E. to N.W.; faint pulsations - - - - - | — |
| 30 | Light and pulsations the same; a few very faint streamers in N.W. - - - - - | — | 37 | About 1 overcast with light cir.-cum. and cir.-strat. in N.; bright streamers in the E. and N.W.; sheet lightning in N.W. - - - - - | — |
| 40 | Bright arch of light from N.E. to N.W., throwing out a few streamers at its N.W. extremity; pulsations just perceptible above the arch - - - - - | — | 42 | A faint light seen behind the clouds; Aurora otherwise disappeared - - - - - | — |
| 50 | Very nearly the same as last recorded - - - - - | — | 47 | Bright streamers and pulsations again breaking out; bright patches of light in N.E. - - - - - | — |
| 15 00 | Arch fainter; faint streamers shooting from it; faint pulsations | — | 52 | Steady patch of light in N.E. and N.N.W.; faint pulsations reaching to an altitude of 50°; sheet lightning in W.N.W. | — |
| 10 | Arch of light brighter; streamers and pulsations entirely gone | — | 57 | Light brighter in N.W. and fainter in N.E.; pulsations as before - - - - - | — |
| 20 | Arch of light the same; a few very faint pulsations - - - - - | — | 11 02 | Very bright patches of light, principally in the N.W., and very vivid pulsations over the whole northern portion of the sky; calm; 1 overcast with cir.-cum. and cir.-strat. - - - - - | — |
| 30 | The same as last recorded - - - - - | — | 07 | Patches of light fainter; pulsations continuing - - - - - | — |
| 40 | Arch of light the same; pulsations gone - - - - - | — | 12 | Pulsations remarkably vivid; clouds becoming more dense - - - - - | — |
| 16 00 | Light very faint; calm, clear, and unclouded; Aurora not perceptible - - - - - | — | 15 | Patches of light very faint; pulsations over the whole north portion of the sky - - - - - | — |
| JUNE. | | | | | |
| 4 07 42 | Calm; clear and unclouded, except a few light cir.-strat. in N. horizon; no auroral light visible - - - - - | 25.2 | 17 | Pulsations from all quarters converging to a point in zenith; several splendid streamers rising from behind the clouds in N. - - - - - | — |
| 08 27 | A few patches of light beginning to appear in N.N.W. horizon; the evening not sufficiently advanced to observe their features with accuracy - - - - - | — | 22 | Pulsations fainter; streamers disappeared - - - - - | — |
| 47 | All auroral light disappeared - - - - - | — | 27 | Bright streamers and patches appearing and disappearing with great rapidity; pulsations as before - - - - - | — |
| 52 | Bright waves of light drifting from E. across the zenith, in appearance like light cir. clouds; faint light in N. horizon; sky clear - - - - - | — | 32 | The same appearance as last recorded - - - - - | — |
| 54 | A large stream of light rose in E. horizon, and after passing through zenith sunk in N.W.; the bow remained perfect and appeared to continue its onward motion - - - - - | — | 37 | Streamers, patches and pulsations much fainter - - - - - | — |
| 57 | An innumerable number of faint streamers extending from E. to W., and covering the whole of the N. sky; the bow of light as before; the centre of it passing through a point 10° S. of zenith - - - - - | — | 42 | A few faint streamers and pulsations - - - - - | — |
| 09 02 | A number of small bright streamers in S.E., rising to an altitude of from 10° to 20°; streamers in N. disappeared, except a few in N.E.; strip of light becoming fainter at the western, and brighter in the eastern extremity; the whole gradually moving to the S. - - - - - | — | 47 | Pulsations and light very faint - - - - - | — |
| 09 | A number of remarkably bright patches of light in zenith, having gradually approached from E.; bright patches of light in N. horizon - - - - - | — | 52 | Pulsations and light very faint - - - - - | — |
| 12 | The bow of light still remaining, and appearing to act as a conductor to a constant and steady stream of patches of light which rising in E., and moving its course to zenith, where they disappear; patches of light in N. - - - - - | — | 57 | Aurora disappeared except a faint light in N., with a few very faint streamers; calm; light cir.-cum. and cir.-strat. dispersed round the N. horizon - - - - - | — |
| | | | 12 02 | Faint bank of light, altitude about 20°; sheet lightning in N.W. horizon - - - - - | — |
| | | | 07 | Faint auroral light alone remaining - - - - - | — |
| | | | 12 | Very faint auroral light alone remaining; sheet lightning in the W. and N.W. horizon - - - - - | — |
| | | | 17 | The same appearance as before - - - - - | — |
| | | | 27 | Nearly the same appearance - - - - - | — |
| | | | 37 | Bank of light rather brighter; very faint pulsations just above it - - - - - | — |

| OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED. | | | | | |
|---|---|--------------------------|--|---|--------------------------|
| Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. | Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. |
| JUNE. | | | JULY. | | |
| D. H. M. | | D. | D. H. M. | | D. |
| 4 12 47 | Very faint light; no pulsations - - - - - | — | 12 14 48 | A few clouds in S.E. and S.; streamers and pulsations much diminished, but still ascending to zenith, and there disappearing - - - - - | — |
| 57 | Nearly the same appearance; calm; zenith clear; cir.-strat. and haze round horizon - - - - - | — | 54 | A few pulsations alone visible - - - - - | — |
| 13 08 | Calm; thin haze in zenith; cir.-strat. and haze round horizon; bright patches of light in N.E. moving backwards and forwards behind the clouds - - - - - | — | 15 00 | Aurora disappeared except a few faint streamers to E. of N. - - - - - | — |
| 15 | A very faint light alone visible through the clouds - - - - - | — | 06 | A few pulsations still seen although nearly obscured by the advance of day - - - - - | — |
| 22 | Aurora entirely disappeared; clouds becoming more dense - - - - - | — | 12 | Day rapidly breaking; the auroral light could not any longer be seen; calm; clear and unclouded - - - - - | — |
| 14 02 | Aurora entirely disappeared; calm; overcast with cir.-strat. and thin haze; almost incessant sheet lightning in W. and N.W. - - - - - | — | 1843 | | — |
| 32 | Calm; clouded with cir.-cum. and haze; clouds from N.W. - - - - - | — | MARCH. | | |
| 57 | Calm; clouded with cir.-cum. and haze; clouds from N.W. - - - - - | — | 6 11 00 | Clear and unclouded; faint auroral light in N. - - - - - | 5.4 |
| JULY. | | | 12 00 | Clear and unclouded; auroral light in N.; streamers and patches - - - - - | — |
| 3 12 12 | Steady strong light in N., very bright streamers in N.W. and E., in each of which directions pulsations rise and meet in a circle extending to the S. of zenith - - - - - | 24.8 | 13 00 | Bank of auroral light in N.; faint patches and streamers - - - - - | — |
| 18 | The streamers before mentioned remarkably brilliant, more extended, and meeting together in zenith; the whole north one sheet of light with vivid pulsations; clear except a few cir.-cum. scattered - - - - - | — | 14 00 | Clear; appearance of auroral light the same as at last observation - - - - - | — |
| 24 | Bank of clouds in N.W.; haze in N., behind which pulsations are seen; streamers in N.W. undiminished in brightness, shooting forth broad flashes across the zenith; very bright light in the E. near horizon; streamers as before circling or entwining in every shape - - - - - | — | 15 00 | Clear bank of auroral light extending from N.W. to N.E., altitude about 5° - - - - - | — |
| 12 12 30 | Vivid and very broad pulsations and streamers covering the whole northern sky - - - - - | 4.4 | 16 00 | Perfectly clear; light almost disappeared - - - - - | — |
| 33 | Slight pulsations in N.W., eastern streamers and flashes considerably diminished; light in N. increased and throwing up streamers and pulsations which meet in zenith - - - - - | — | 17 00 | Perfectly clear; light almost disappeared - - - - - | — |
| 42 | Calm, a few cir.-cum. scattered over the N. horizon; pulsations and streamers still rising in N.W. and forming a semicircle across the zenith to N.E.; light very bright from N.E. to N.W. from which a constant succession of pulsations follow each other as waves of the sea, disappearing in the N.E. - - - - - | — | 18 00 | Clear and unclouded - - - - - | — |
| 48 | The whole very much lessened in brilliancy; pulsations and streamers from N.W. very faint, in N.E. entirely disappeared; waves of light from N. very faint, but still joining those from the W. in zenith - - - - - | — | 19 00 | Clear and unclouded - - - - - | — |
| 54 | Calm; a few cir.-cum. scattered; light in E. nearly gone; pulsations and flashes from N.W. hardly reaching the zenith; arch of light extending from N.W. to N.E., altitude at centre about 20°; occasional slight pulsations - - - - - | — | 20 00 | Clear and unclouded - - - - - | — |
| 13 00 | Streamers in N.W. and light in N. increased, throwing out very bright flashes or waves illuminating all the N.; the whole appearance very brilliant - - - - - | — | APRIL. | | |
| 12 | The whole of the N. very brilliantly lighted up with banks, patches, arches, and streamers; the features in constant change; pulsations very rapid - - - - - | — | 5 04 00 | Partially overcast with light flexuous cir.-strat. and haze; fair; .4 clear - - - - - | 5.7 |
| 18 | The same appearance as last recorded - - - - - | — | 05 00 | Dense bank of cum. and cum.-strat. in N. and N.W.; dense masses of vapour rolling up from the lake; .3 clear - - - - - | — |
| 24 | The same appearance as recorded at 18 ^m - - - - - | — | 06 00 | .5 clouded with dense masses of cum.-strat.; remainder clear; fair - - - - - | — |
| 30 | Pulsations rather diminished in extent, and motion not so rapid; the other features as before - - - - - | — | 07 00 | .6 overcast with dense cum.-strat.; clear spaces generally - - - - - | — |
| 36 | The same as last recorded - - - - - | — | 08 00 | Overcast with cir.-cum.; cum.-strat. and haze - - - - - | — |
| 42 | Rather diminished, but still much the same - - - - - | — | 09 00 | Detached cir.-cum. passing across the zenith; haze round horizon; .5 clear - - - - - | — |
| 48 | Diminishing; general features the same - - - - - | — | 10 00 | Clear except haze round horizon; faint bank of auroral light in the N.; altitude at the centre about 18° - - - - - | — |
| 14 00 | Still more faint; pulsations much slower - - - - - | — | 11 00 | .4 clear in zenith and to the S., remainder overcast with cir.-cum. and haze - - - - - | — |
| 12 | The whole nearly disappeared; a few flashes, and those at considerable intervals from each other - - - - - | — | 12 00 | Partially overcast with cir.-strat.; cir.-cum. and haze - - - - - | — |
| 24 | The same appearance as last recorded - - - - - | — | 13 00 | Partially clouded with cir.-strat., cir.-cum. and haze - - - - - | — |
| 36 | Again brightening; pulsations and streamers - - - - - | — | 14 00 | Partially clouded with light cir.; strong auroral light in the N. - - - - - | — |
| 42 | Brilliant streamers and flashes from N.W. as at first, but not nearly so bright and vivid; streamers and banks extending from N.W. to N.E.; a few pulsations - - - - - | — | 15 00 | .4 clear to S., remainder overcast with light cir. and haze - - - - - | — |
| | | | 16 00 | Quite clear; bright arch of auroral light with streamers issuing therefrom - - - - - | — |
| | | | 17 00 | Clear and unclouded; faint auroral light in the N. - - - - - | — |
| | | | 18 00 | Clear except a bank of strat. along the S. horizon; fair - - - - - | — |
| | | | 19 00 | Clear except a range of strat. on S. and W. horizon; fair - - - - - | — |
| | | | 20 00 | Haze and strat. round horizon; zenith clear; fair - - - - - | — |
| | | | 21 00 | Partially clouded round horizon with cir.-cum.; .8 clear; fair - - - - - | — |
| | | | 22 00 | Partially clouded with cir.-cum. and cir.-strat.; .8 clear; fair - - - - - | — |
| | | | 6 08 00 | Clear; double arch of auroral light in the N., altitude of upper edge of the highest one about 48°; of lower 23°; faint streamers at the W. end of the upper arch - - - - - | 6.7 |
| | | | 09 00 | Clear and unclouded; faint auroral light in N. - - - - - | — |
| | | | 10 00 | Clear and unclouded; faint auroral light in N. - - - - - | — |
| | | | 11 00 | Clear and unclouded; faint auroral light in N. - - - - - | — |
| | | | 12 00 | Clear and unclouded - - - - - | — |
| | | | JULY. | | |
| | | | 25 09 00 | Clear and unclouded; faint auroral light in N. - - - - - | 27.9 |
| | | | 10 00 | Clear and unclouded; faint auroral light in N. - - - - - | — |
| | | | 11 00 | Clear and unclouded; faint auroral light in N. - - - - - | — |
| | | | 12 00 | Cloudless; auroral light almost gone - - - - - | — |

* The Aurora above recorded first appeared on the 3rd, at 10 h. (Sunday), and continued with various changes till 12 h., when the observations were commenced.

TORONTO, 1843.

METEOROLOGICAL JOURNAL.

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|------------------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| JANUARY. | | | | | | | | | |
| 1 | Densely clouded all day, with brisk wind from 12 ^h to 17 ^h ; snow from 18 ^h | 0·3 | — | 1·0 | — | 24·0 | 3·2 | — | 30·9 |
| 2 | Densely clouded; continued snowing to 3 ^h , and again from 10 ^h 20 ^m to 12 ^h ; quite clear at 15 ^h ; brisk wind all day | 1·0 | 1·0 | 0·9 | 0·3 | 27·2 | 1·8 | — | 40·7 |
| 3 | Generally clouded; with brisk wind | 0·3 | 0·4 | 1·0 | 1·0 | 31·7 | 9·4 | — | 31·5 |
| 4 | Clouded; light snow from 10 ^h 50 ^m to 21 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 15·8 | 9·3 | — | 24·7 |
| 5 | Cleared up at 14 ^h and remained so to 18 ^h | 1·0 | 0·1 | 0·8 | 1·0 | 27·5 | 11·7 | — | 32·7 |
| 6 | Densely clouded; brisk wind; rain from 4 ^h 20 ^m to 9 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 34·5 | 22·7 | 0·115 | 46·3 |
| 7 | Clouded all day; occasional light rain | 1·0 | 1·0 | — | 1·0 | 42·7 | 32·3 | — | 41·9 |
| 8 | Densely overcast; brisk wind and rain | 1·0 | — | 0·7 | 1·0 | 44·3 | 35·3 | 0·410 | 45·9 |
| 9 | Partially clouded to 3 ^h ; remainder of day densely clouded | 0·7 | 1·0 | 1·0 | 1·0 | 44·9 | 20·5 | 0·230 | 50·7 |
| 10 | Overcast; snow and rain to 6 ^h 30 ^m | 1·0 | 1·0 | 0·6 | 1·0 | 33·6 | 24·0 | 0·940 | 50·8 |
| 11 | Clouded; cir., cir.-cum. and haze | 1·0 | 1·0 | 1·0 | 1·0 | 37·0 | 25·2 | — | 39·0 |
| 12 | Densely clouded; slight rain and snow from 6 ^h to 14 ^h ; slight snow continued from 20 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 33·1 | 27·9 | 0·100 | 36·9 |
| 13 | Densely clouded; slight snow continued to 10 ^h ; slight snow from 19 ^h 30 ^m to 23 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 33·7 | 30·3 | — | 34·1 |
| 14 | Densely clouded | 1·0 | 1·0 | — | 1·0 | 33·6 | 21·2 | — | 33·7 |
| 15 | Clouded | 0·9 | — | 1·0 | 1·0 | 29·9 | 23·7 | — | 30·0 |
| 16 | Overcast; dense haze | 1·0 | 1·0 | 1·0 | 1·0 | 33·7 | 18·2 | — | 35·1 |
| 17 | Overcast; dense haze | 1·0 | 1·0 | 1·0 | 0·8 | 26·2 | 20·1 | — | 25·3 |
| 18 | Partially clouded; a shock of an earthquake was felt this day on Lake St. Peters in Lower Canada | 0·7 | 0·5 | — | 1·0 | 31·5 | 26·4 | — | 32·3 |
| 19 | Densely clouded | 1·0 | 1·0 | 1·0 | 1·0 | 44·2 | 32·7 | — | 58·5 |
| 20 | Thick fog | 1·0 | 1·0 | 1·0 | 0·2 | 44·2 | 32·0 | — | 47·5 |
| 21 | Clear from 3 ^h to 8 ^h ; remainder of the day clouded | 0·0 | 0·1 | — | 1·0 | 41·9 | 34·4 | — | 50·7 |
| 22 | Clouded | 0·6 | — | 0·1 | 1·0 | 55·4 | 32·5 | — | 63·9 |
| 23 | Occasionally clouded and clear; snow from 21 ^h 45 ^m to 22 ^h 20 ^m | 0·7 | 0·4 | 0·4 | 1·0 | 40·7 | 34·1 | — | 49·4 |
| 24 | Clouded; high wind | 0·1 | 1·0 | 0·0 | 0·7 | 36·1 | 30·7 | — | 50·0 |
| 25 | Partially clouded to 7 ^h , when it became quite clear | 0·4 | 0·0 | 0·0 | 0·1 | 36·1 | 28·1 | — | 45·1 |
| 26 | Generally clouded; showers of hail from 9 ^h to 13 ^h | 0·5 | 1·0 | 1·0 | 1·0 | 29·5 | 2·4 | — | 33·3 |
| 27 | Densely clouded; snowing from 10 ^h 30 ^m | 1·0 | 1·0 | 1·0 | 1·0 | 25·5 | 18·4 | — | 33·2 |
| 28 | Snow continued to 3 ^h ; quite clear at 10 ^h ; continued so | 1·0 | 0·1 | — | 0·1 | 30·9 | 24·2 ^a | — | 35·0 |
| 29 | Generally clear to 15 ^h , when it clouded over | 0·0 | — | 1·0 | 1·0 | 30·1 | 6·7 | — | 36·3 |
| 30 | Clouded all day; began to snow at 14 ^h , and turned to rain at 20 ^h | 0·5 | 0·3 | 1·0 | 1·0 | 31·4 | 11·1 | — | 53·0 |
| 31 | Continued raining to 10 ^h , when it ceased | 1·0 | 1·0 | 1·0 | 1·0 | 35·5 | 27·7 | 2·500 | 51·0 |
| FEBRUARY. | | | | | | | | | |
| 1 | Generally clouded; brisk wind and snow from 5 ^h to 8 ^h | 0·4 | 1·0 | 1·0 | 0·1 | 37·1 | 15·4 | — | 35·0 |
| 2 | Partially clouded and calm to 8 ^h ; afterwards clouded and brisk wind | 0·8 | 0·6 | 1·0 | 1·0 | 19·7 | -2·7 | — | 36·0 |
| 3 | Densely clouded; light winds; a few particles of snow occasionally | 1·0 | 1·0 | 1·0 | 1·0 | 24·7 | 5·1 | — | 34·6 |
| 4 | Clouded nearly all day; calm, and light wind with slight snow; high wind from 21 ^h | 0·7 | 1·0 | — | 1·0 | 27·5 | 15·7 | — | 29·5 |
| 5 | Clouded; constant snow; high wind continued to 14 ^h | 1·0 | — | 1·0 | 1·0 | 32·3 | 23·8 | — | 59·9 |
| 6 | Clouded; high wind; heavy drift of snow all day | 1·0 | 1·0 | 0·5 | 0·8 | 28·1 | 11·7 | — | 43·1 |
| 7 | Clouded; moderate and light winds | 1·0 | 1·0 | 1·0 | 1·0 | 17·2 | 3·1 | — | — |
| 8 | Overcast to 3 ^h ; partially clear from 4 ^h to 14 ^h ; halo round the moon at 11 ^h | 1·0 | 0·1 | 1·0 | 1·0 | 18·4 | 9·2 | — | 47·5 |
| 9 | Clouded all day; chiefly cir.-strat., cir., and cum.-strat.; light winds | 1·0 | 1·0 | 1·0 | 1·0 | 18·9 | 2·1 | — | 26·0 |
| 10 | Overcast; wind brisk and squally; rain and sleet | 1·0 | 1·0 | 0·9 | 0·9 | 21·9 | 10·3 | 0·475 | 35·7 |
| 11 | Partially clear; snow showers at intervals; brisk wind | 0·4 | 0·3 | — | 0·2 | 38·5 | 21·3 | — | 36·3 |
| 12 | Densely clouded from 12 ^h to 17 ^h ; halo round the moon at 12 ^h ; light wind; parhelia at 23 ^h | 0·5 | — | 1·0 | 0·5 | 24·0 | 11·8 | — | 36·4 |
| 13 | Generally clouded; cir., cir.-strat., and cum.-strat.; halo round moon at 10 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 16·6 | 12·4 | — | 29·7 |
| 14 | Overcast; cir. and haze; snowing most of the day; brisk wind; ceased snowing at 12 ^h | 1·0 | 1·0 | 1·0 | 0·8 | 21·5 | 12·3 | — | 49·9 |
| 15 | Mostly clouded; cum., cir.-cum., and haze; slight snow and sleet occasionally; brisk wind from 18 ^h | 1·0 | 0·5 | 1·0 | 0·1 | 11·9 | 5·1 | — | — |
| 16 | Generally clear; brisk wind continued to 4 ^h ; subsequently light winds | 1·0 | 0·1 | 0·1 | 0·7 | 19·3 | 5·5 | — | 29·4 |
| 17 | Partially clouded, with moderate and light winds | 0·8 | 0·9 | 0·1 | 0·4 | 15·2 | -9·4 | — | 26·8 |
| 18 | Partially clear to 6 ^h ; remainder of day clouded; light wind; began to snow at 21 ^h | 0·8 | 1·0 | — | 1·0 | 15·2 | -8·0 | — | 33·3 |
| 19 | Clouded to 12 ^h ; constant snow continued to 10 ^h 30 ^m , when it ceased | 1·0 | — | 0·5 | 0·2 | 18·3 | 5·7 | — | 38·7 |
| 20 | Partially clear to 3 ^h , slight snow at 16 ^h 30 ^m | 0·9 | 1·0 | 1·0 | 1·0 | 22·5 | -0·3 | — | 26·9 |
| 21 | Generally clouded; light snow | 1·0 | 0·2 | 1·0 | 1·0 | 26·9 | 9·1 | — | 52·4 |
| 22 | Partially clouded to 7 ^h ; clear to 12 ^h ; subsequently overcast with haze; slight snow occasionally | 0·4 | 0·0 | 1·0 | 0·1 | 29·9 | 11·6 | — | 37·5 |
| 23 | Mostly clear to 8 ^h ; subsequently overcast with cir.-strat. and haze | 0·2 | 1·0 | 1·0 | 1·0 | 23·4 | 1·9 | — | 38·5 |

^a Taken from the lowest reading of the Standard Thermometer.

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|-----------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| FEBRUARY. | | | | | | | | | |
| 24 | Clouded and calm - - - - - | 1.0 | 1.0 | 1.0 | 0.8 | 19.9 | 5.5 | — | 33.9 |
| 25 | Mostly clouded with cir.-cum. and cir.-strat.; a few flakes of snow - - | 1.0 | 1.0 | — | 1.0 | 28.5 | 14.7 | — | 50.5 |
| 26 | Clouded all day; snow from 3 ^h to 13 ^h - - - - - | 1.0 | — | 1.0 | 1.0 | 34.7 | 24.1 | — | 47.0 |
| 27 | Clouded and snowing to 19 ^h ; partially clear to 23 ^h , when the day became clouded - - - - - | 1.0 | 1.0 | 1.0 | 0.3 | 31.6 | 19.7 | — | 42.7 |
| 28 | Clouded all day - - - - - | 1.0 | 1.0 | 1.0 | 1.0 | 29.1 | 19.5 | — | 43.5 |
| MARCH. | | | | | | | | | |
| 1 | Clouded to 8 ^h and occasional slight snow; clear and clouded alternately from 8 ^h , with haze round horizon - - - - - | 1.0 | 0.5 | 0.1 | 0.1 | 29.9 | 12.4 | — | 43.2 |
| 2 | Clouded and clear alternately; cir.-cum. and cir.-strat. till 2 ^h ; totally clouded from 2 ^h - - - - - | 1.0 | 0.1 | 1.0 | 1.0 | 21.9 | 7.3 | — | 29.0 |
| 3 | Clouded and dull to 13 ^h , when it cleared up - - - - - | 1.0 | 1.0 | 1.0 | 0.1 | 20.9 | 1.9 | — | 33.7 |
| 4 | Partially clouded to 6 ^h with cir.-cum. detached - - - - - | 0.3 | 0.0 | — | 0.1 | 23.1 | 2.5 | — | 35.5 |
| 5 | Clear and calm; faint auroral light from 14 ^h - - - - - | 0.0 | — | 0.0 | 0.0 | 26.7 | -2.5 | — | 51.9 |
| 6 | Clear all day; Aurora from 7 ^h to 14 ^h ; slight appearance of a comet - | 0.0 | 0.0 | 0.0 | 0.0 | 24.5 | 5.7 | — | 40.5 |
| 7 | Clear to 15 ^h ; remainder partially clouded with light cir. and haze; slight appearance of comet at 7 ^h - - - - - | 0.0 | 0.0 | 0.7 | 0.9 | 26.5 | -2.4 | — | 42.2 |
| 8 | Dull and clouded with cir.-cum., cum.-strat. and haze to 13 ^h ; clearing gradually to 17 ^h ; partially clouded to 23 ^h ; halo round the sun from 21 ^h to 23 ^h - - - - - | 1.0 | 1.0 | 0.2 | 0.6 | 27.1 | 7.1 | — | 49.2 |
| 9 | Overcast at night; halo round the moon; clouded - - - - - | 1.0 | 0.2 | 1.0 | 1.0 | 30.2 | 14.7 | — | 41.0 |
| 10 | Clouded all day; snow and sleet; wind fresh and gusty; partially clouded with cir.-cum. and cum.-strat. from 20 ^h - - - - - | 1.0 | 1.0 | 1.0 | 0.8 | 31.3 | 16.3 | 0.250 | 52.3 |
| 11 | Partially clouded with cir.-cum., and cum.-strat. to 3 ^h ; wind brisk and gusty; clear and calm from 4 ^h to 11 ^h ; partially clouded from 21 ^h - | 0.2 | 0.0 | — | 0.0 | 34.7 | 28.2 | — | 36.7 |
| 12 | Partially clouded to 3 ^h ; snow fell continuously from 11 ^h 50 ^m - - - | 0.7 | — | 1.0 | 1.0 | 31.7 | 3.9 | — | 44.7 |
| 13 | Snow continued falling to 7 ^h ; halo round the moon at 9 ^h ; remainder clouded with cir.-cum. and cum.-strat. - - - - - | 1.0 | 1.0 | 1.0 | 0.2 | 32.7 | 24.7 | — | 44.2 |
| 14 | Partially clouded to 3 ^h ; halo and parhelia round the sun at 4 ^h ; halo round the moon at night - - - - - | 0.5 | 1.0 | 1.0 | 1.0 | 38.1 | 12.3 | — | 46.1 |
| 15 | Clouded with cir.-cum. and haze to 8 ^h ; high wind; remainder light cir. and haze: halo round the moon at 14 ^h and 15 ^h - - - - - | 1.0 | 0.1 | 1.0 | 1.0 | 31.1 | 17.7 | — | 39.4 |
| 16 | Overcast with cir.-strat., cir.-cum. and haze; constant snow from 8 ^h to 20 ^h - - - - - | 1.0 | 1.0 | 1.0 | 1.0 | 32.1 | 6.9 | — | 43.3 |
| 17 | Densely overcast with haze to 10 ^h - - - - - | 1.0 | 1.0 | 0.4 | 1.0 | 29.8 | 19.1 | — | 44.7 |
| 18 | Generally clouded; a few flakes of snow occasionally during the day; halo round the sun at 21 ^h , diameter 30° - - - - - | 1.0 | 0.6 | — | 0.2 | 33.4 | 17.3 | — | 39.7 |
| 19 | Nearly clear in the morning; halo round the moon at 14 ^h - - - - - | 1.0 | — | 0.4 | 1.0 | 29.7 | 19.1 | — | 42.3 |
| 20 | Generally clouded; a few flakes of snow between 4 ^h and 5 ^h - - - - - | 1.0 | 1.0 | 1.0 | 0.4 | 31.7 | 15.3 | — | 45.7 |
| 21 | Partially clouded; cir.-cum. dispersed and light cir.-strat. and haze; halo round the moon at 16 ^h and 17 ^h - - - - - | 0.3 | 0.9 | 1.0 | 1.0 | 30.2 | 17.9 | — | 37.5 |
| 22 | Overcast with light cir. and haze; occasional slight snow till 2 ^h ; remainder of the day dense haze - - - - - | 0.6 | 1.0 | 1.0 | 1.0 | 29.7 | 11.1 | — | 41.9 |
| 23 | High wind; snow and drift to 13 ^h , when snow ceased and wind moderated - | 1.0 | 0.7 | 0.1 | 0.1 | 33.6 | 11.9 | — | 49.7 |
| 24 | Generally clear; halo round the sun at 3 ^h , 4 ^h , and 5 ^h ; clouded over at 12 ^h ; almost clear to 22 ^h ; clouded from 22 ^h - - - - - | 0.2 | 0.2 | 1.0 | 0.1 | 18.7 | 10.7 | — | 29.5 |
| 25 | Continued clouded to 8 ^h ; slight snow occasionally; quite clear at 11 ^h - | 1.0 | 0.8 | — | 0.0 | 26.7 | 14.4 | — | 46.7 |
| 26 | Nearly clear during the day; overcast with haze from 12 ^h ; constant snow and heavy drift from 20 ^h - - - - - | 0.3 | — | 1.0 | 1.0 | 30.7 | 5.9 | — | 40.3 |
| 27 | Snow and heavy drift continued to 14 ^h , when it turned to rain; very high wind - - - - - | 1.0 | 1.0 | 1.0 | 1.0 | 35.9 | 18.9 | 0.375 | 60.0 |
| 28 | Constant rain and high wind to 6 ^h 30 ^m , when it became almost calm, and the rain ceased; cleared rapidly from 11 ^h to 12 ^h ; clear from 12 ^h to 17 ^h ; partially clouded from 15 ^h to 19 ^h - - - - - | 1.0 | 1.0 | 0.2 | 1.0 | 34.5 | 25.9 | — | 37.9 |
| 29 | Generally clouded all day with cir.-cum. and cum., with clear spaces - - | 0.9 | 0.5 | 0.9 | 0.6 | 39.9 | 19.3 | — | 54.6 |
| 30 | Partially clouded with cir., cir.-strat., and cir.-cum. to 2 ^h ; remainder of the day densely clouded; snow from 10 ^h to 17 ^h - - - - - | 1.0 | 1.0 | 1.0 | 1.0 | 35.9 | 18.5 | — | 53.2 |
| 31 | Densely overcast; constant snow and much drift to 13 ^h ; remainder clouded - - - - - | 1.0 | 1.0 | 1.0 | 0.8 | 30.9 | 22.2 | — | 51.7 |
| APRIL. | | | | | | | | | |
| 1 | Generally clouded with cir.-cum. and cum.-strat.; clear at 10 ^h ; some slight snow - - - - - | 0.6 | 0.8 | — | 0.1 | 30.6 | 21.1 | — | 37.9 |
| 2 | Clear to 18 ^h ; light cir.-cum. to 20 ^h ; clear from 26 ^h - - - - - | 0.0 | — | 0.0 | 0.1 | 34.9 | 14.7 | — | 50.2 |
| 3 | The day and night clear; morning generally clouded - - - - - | 0.0 | 0.0 | 0.1 | 1.0 | 39.1 | 15.3 | — | — |
| 4 | Generally clouded; snow from 1 ^h 40 ^m to 9 ^h 50 ^m ; remainder of day hazy - | 1.0 | 1.0 | 0.5 | 1.0 | 39.4 | 23.1 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|--------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| APRIL. | | | | | | | | | |
| 5 | Hazy and partially clouded with cir.-cum.; auroral light in N. from 10 ^h to 17 ^h | 0·7 | 0·5 | 0·6 | 0·2 | 38·3 | 26·2 | — | — |
| 6 | Generally clouded to 7 ^h ; occasional showers of hail; aurora from 8 ^h to 14 ^h , and clear; partially clouded from 18 ^h to 0 ^h | 0·9 | 1·0 | 0·0 | 0·7 | 41·6 | 28·4 | — | — |
| 7 | Partially clouded with light cir. and haze; halo round the moon from 8 ^h to 10 ^h | 1·0 | 1·0 | 1·0 | 0·8 | 42·9 | 25·2 | — | — |
| 8 | Generally clouded with cir.-cum., cir.-strat. and haze; very slight rain from 6 ^h to 9 ^h | 0·8 | 1·0 | — | 1·0 | 44·9 | 33·5 | — | — |
| 9 | Clouded generally with cir.-cum. and cum.-strat.; brisk wind | 0·5 | — | 1·0 | 0·2 | 49·9 | 30·2 | — | — |
| 10 | Clear all day except a few light cir. and cir.-strat.; clouds on horizon | 0·0 | 0·0 | 0·1 | 0·1 | 43·8 | 31·3 | — | — |
| 11 | Clear, except a few cir.-cum. and cir.-strat. occasionally appearing | 0·1 | 0·0 | 0·0 | 0·0 | 44·4 | 29·5 | — | — |
| 12 | Quite clear to 19 ^h ; densely clouded with cir.-cum. and haze from 19 ^h | 0·0 | 0·0 | 0·0 | 1·0 | 49·8 | 27·4 | — | — |
| 13 | Densely clouded with cir.-cum. and haze | 1·0 | 1·0 | — | 1·0 | 53·8 | 32·7 | — | — |
| 14 | Generally clouded with cir.-cum. and haze; foggy | 1·0 | — | 1·0 | 1·0 | 50·2 | 37·4 | — | — |
| 15 | Generally clouded with cir.-cum. and haze | 1·0 | 0·6 | — | 0·4 | 54·6 | 35·5 | — | — |
| 16 | Partially clouded with cir.-cum. and cir.-strat.; halo round the sun from 19 ^h to 23 ^h , diameter about 30° | 1·0 | — | 0·1 | 1·0 | 56·0 | 37·7 | — | — |
| 17 | Overcast; light cir. and haze; heavy snow from 19 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 53·3 | 36·2 | — | — |
| 18 | Clouded all day with cir.-cum. and haze; heavy snow continued to 2 ^h 20 ^m ; turned to rain; ceased at 8 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 47·4 | 34·2 | 0·680 | — |
| 19 | Clouded with cir.-cum., cum.-strat. and haze to 22 ^h ; partially clouded from 22 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 37·4 | 33·7 | — | — |
| 20 | Partially clouded to 8 ^h ; remainder clear, save light haze; halo round the moon at 1 ^h and 15 ^h , diameter 30° | 0·5 | 0·1 | 0·0 | 0·0 | 43·5 | 35·6 | — | — |
| 21 | Clear to 8 ^h ; remainder of day partially clouded with light cir.-cum., cir.-strat. and haze | 0·1 | 0·7 | 1·0 | 0·5 | 50·3 | 31·2 | — | — |
| 22 | Clouded to 4 ^h with cir.-cum., when it began to rain and continued to 12 ^h | 1·0 | 1·0 | — | 1·0 | 59·8 | 43·2 | 0·550 | — |
| 23 | Cloudy; cir.-cum., cum.-strat. and haze; rain at 16 ^h | 0·7 | — | 1·0 | 1·0 | 56·3 | 42·5 | 0·300 | — |
| 24 | Densely clouded all day with cum.-strat.; cir.-strat. and haze | 1·0 | 1·0 | 1·0 | 1·0 | 64·7 | 48·2 | — | — |
| 25 | Partially clouded to 12 ^h , sheet lightning and densely clouded to 17 ^h ; showers of rain at 18 ^h , 19 ^h , and 20 ^h | 0·2 | 0·2 | 1·0 | 1·0 | 58·8 | 43·7 | — | — |
| 26 | Clouded; lightning and thunder at 8 ^h ; rain from 14 ^h to 21 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 53·8 | 41·7 | 0·055 | — |
| 27 | Clear and calm | 0·8 | 0·1 | 0·1 | 0·1 | 62·5 | 40·7 | 0·800 | — |
| 28 | Generally clear, except detached cir.-cum. dispersed about | 0·8 | 0·1 | 1·0 | 1·0 | 59·5 | 37·7 | 0·050 | — |
| 29 | Clouded to 1 ^h ; remainder partially clouded with cir.-strat.; commenced to rain at 20 ^h ; and became constant from 21 ^h | 0·6 | 0·3 | — | 1·0 | 71·6 | 38·2 | — | — |
| 30 | Constant rain continued to 7 ^h ; clouded densely with cir.-cum. and cum.-strat. | 1·0 | — | 0·7 | 1·0 | 43·1 | 37·2 | 0·750 | — |
| MAY. | | | | | | | | | |
| 1 | Densely clouded all day with cir.-cum. and cum.-strat.; halo round the sun from 15 ^h , diameter 40° to 35°; parhelia at 19 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 47·9 | 35·7 | — | — |
| 2 | Halo continued round the sun to 3 ^h ; clear from 7 ^h | 1·0 | 0·0 | 0·0 | 0·1 | 44·8 | 32·1 | — | — |
| 3 | Partially clouded with cir., cir.-strat. and haze; clear at 5 ^h | 0·5 | 0·3 | 0·7 | 1·0 | 51·8 | 29·2 | — | — |
| 4 | Generally clouded; cir. and haze; very slight rain from 1 ^h to 2 ^h , 5 ^h to 7 ^h , and 10 ^h to 12 ^h | 1·0 | 1·0 | 0·6 | 1·0 | 53·8 | 37·7 | — | — |
| 5 | Densely clouded all day with cir.-cum. and cum.-strat.; brisk wind from N.E. and E.; slight shower of rain at 21 ^h 45 ^m | 1·0 | 1·0 | 1·0 | 1·0 | 47·4 | 36·7 | — | — |
| 6 | Densely clouded; cir., cir.-cum. and haze; halo and lightning at 9 ^h | 1·0 | 1·0 | — | 0·1 | 47·9 | 38·0 | — | — |
| 7 | Partially clear to 3 ^h ; remainder clouded with cir.-cum. and haze | 0·7 | — | 1·0 | 1·0 | 58·0 | 40·7 | — | — |
| 8 | Clouded with cum.-strat. and cir.-cum. to 9 ^h ; remainder of day quite clear | 1·0 | 0·2 | 0·0 | 0·7 | 64·0 | 44·7 | — | — |
| 9 | Generally clouded with cum. and cir.-cum.; occasionally a few clear spaces | 1·0 | 1·0 | 1·0 | 1·0 | 57·0 | 31·9 | — | — |
| 10 | Uniformly clouded all day; rain from 7 ^h to 12 ^h | 1·0 | 1·0 | 1·0 | 0·3 | 58·3 | 46·0 | 0·190 | — |
| 11 | Generally clear, except light cir. and haze; double halo from 8 ^h to 10 ^h , single halo from 10 ^h to 13 ^h | 0·0 | 0·1 | 0·2 | 0·0 | 57·8 | 46·5 | — | — |
| 12 | Mostly clear to 6 ^h ; remainder clouded with cir., cir.-cum. and haze | 0·3 | 1·0 | 1·0 | 0·8 | 65·5 | 42·7 | — | — |
| 13 | Partially clear most of the day; occasionally entirely clouded with cir.-cum. and cum.-strat. | 0·2 | 1·0 | — | 0·6 | 70·0 | 48·5 | — | — |
| 14 | Partially clouded with cum.-strat. and cir.-cum.; lightning and thunder from 12 ^h to 14 ^h ; rain at 23 ^h 30 ^m | 0·4 | — | 0·8 | 0·4 | 72·8 | 51·0 | — | — |
| 15 | Loud peal of thunder at 0 ^h ; partially clouded all day with cum. and cum.-strat. | 0·6 | 0·7 | 1·0 | 0·0 | 71·3 | 51·0 | — | — |
| 16 | Generally clear; a few clouds appeared occasionally; detached cir.-cum. | 0·1 | 0·0 | 0·0 | 0·1 | 79·8 | 49·2 | — | — |
| 17 | Generally clear; a few cir.-cum. and cir.-strat. appeared; wind shifted at 6 ^h from S. to N.N.E. | 0·6 | 0·1 | 0·4 | 0·2 | 67·3 | 35·7 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|--------------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| 18 | Generally clear to 12 ^h ; remainder of day clouded with cir.-strat. and haze | 0·0 | 0·5 | 1·0 | 1·0 | 61·9 | 30·2 | — | — |
| 19 | Overcast with cir. and haze till 2 ^h ; remainder quite clear, except haze round horizon | 0·4 | 0·1 | 0·0 | 0·0 | 66·5 | 40·7 | — | — |
| 20 | Clear all day; haze round horizon from 6 ^h to 11 ^h | 0·0 | 0·1 | — | 0·0 | 62·5 | 33·7 | — | — |
| 21 | Generally clear to 13 ^h ; remainder overcast with dense cir. and haze; slight rain from 23 ^h | 0·3 | — | 1·0 | 1·0 | 69·0 | 35·2 | — | — |
| 22 | Overcast with dense haze; rain continued slightly to 7 ^h , and again at 9 ^h ; heavy showers of rain and hail, also lightning and thunder from 23 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 70·8 | 45·7 | 0·120 | — |
| 23 | Rain, hail, thunder, and lightning continued to 2 ^h ; clouded to 7 ^h ; quite clear from 8 ^h to 17 ^h ; halo round the sun at 22 ^h , diameter 30° | 0·3 | 0·0 | 0·0 | 1·0 | 59·3 | 46·7 | 0·350 | — |
| 24 | Mostly clear; sheet lightning in S.W. at 11 ^h and 12 ^h ; clouded from 18 ^h to 23 ^h | 0·0 | 0·0 | 0·2 | 1·0 | 62·5 | 40·7 | — | — |
| 25 | Partially clear to 10 ^h ; remainder of day clouded; sheet lightning and thunder in S.W. from 10 ^h to 14 ^h ; light rain between 12 ^h and 13 ^h | 0·3 | 0·8 | 1·0 | 1·0 | 71·2 | 40·9 | — | — |
| 26 | Clouded all day with cir., cir.-cum. and haze; lightning and thunder with showers of rain from 1 ^h to 3 ^h ; heavy shower of rain at 6 ^h with loud thunder, sheet lightning, and distant thunder from 9 ^h to 12 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 62·5 | 49·2 | 0·170 | — |
| 27 | Generally clouded cum.-strat., cir.-cum. and haze | 1·0 | 0·6 | — | 0·0 | 59·5 | 47·7 | — | — |
| 28 | Mostly clear; halo round the sun at 3 ^h 40 ^m , diameter about 30° | 0·3 | — | 0·3 | 0·5 | 57·3 | 44·2 | — | — |
| 29 | Partially clouded to 8 ^h with cum. and cum.-strat.; remainder quite clear | 0·3 | 0·0 | 0·0 | 0·5 | 62·7 | 47·7 | — | — |
| 30 | Clouded and raining from 0 ^h to 5 ^h 15 ^m ; clear from 10 ^h to 14 ^h ; remainder partially clouded | 1·0 | 0·2 | 0·3 | 1·0 | 67·5 | 38·2 | 0·740 | — |
| 31 | Generally clouded cir.-cum. and cum.-strat.; a few clear spaces occasionally | 1·0 | 0·8 | 0·8 | 1·0 | 55·8 | 36·2 | — | — |
| JUNE. | | | | | | | | | |
| 1 | Clouded to 8 ^h with cum.-strat. and cir.-cum.; remainder of day light cir. occasionally; frost at night | 0·9 | 0·3 | 0·1 | 1·0 | 46·9 | 35·6 | — | — |
| 2 | Densely clouded all day; rain from 5 ^h to 10 ^h 40 ^m and 13 ^h to 17 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 51·6 | 28·2 | 0·600 | — |
| 3 | Clouded; a few clear spaces occasionally; rain from 18 ^h to 22 ^h 30 ^m | 1·0 | 1·0 | — | 1·0 | 53·8 | 40·7 | — | — |
| 4 | Clouded; slight rain from 12 ^h to 17 ^h | 1·0 | — | 1·0 | 1·0 | 54·8 | 43·7 | 0·765 | — |
| 5 | Clouded; slight drizzling rain all day, except at 0 ^h , 1 ^h , 8 ^h , 11 ^h and 17 ^h | 1·0 | 1·0 | 1·0 | 0·8 | 54·8 | 43·7 | 0·330 | — |
| 6 | Clouded to 9 ^h ; cir.-strat., cum.-strat. and cir.-cum.; slight rain at 4 ^h and 6 ^h ; quite clear from 10 ^h to 17 ^h ; clear at 21 ^h and 22 ^h ; halo round the sun at 18 ^h , 19 ^h , 20 ^h , and 23 ^h , diameter 40°—25° | 1·0 | 0·6 | 0·0 | 0·0 | 53·3 | 43·9 | 0·055 | — |
| 7 | Halo round the sun at 0 ^h ; generally overcast with cir. and haze; halo round the sun at 18 ^h and 19 ^h ; slight rain from 22 ^h | 1·0 | 1·0 | 0·2 | 1·0 | 57·8 | 35·2 | — | — |
| 8 | Clouded; slight rain continued to 1 ^h ; remainder showery; sheet lightning in the west at 17 ^h ; halo round the sun at 21 ^h , diameter 30° and 35°; thunder storms and vivid lightning at intervals | 1·0 | 1·0 | 1·0 | 1·0 | 63·0 | 44·2 | 0·160 | — |
| 9 | Clouded with cir.-cum. and cum.; halo round the moon at 9 ^h , diameter 30° and 35°; thunder storms and vivid lightning during the day; heavy showers of rain; rainbow at 5 ^h , lightning and thunder at night | 1·0 | 1·0 | 1·0 | 1·0 | 71·8 | 48·1 | 1·220 | — |
| 10 | Clouded with cir.-strat. and haze; light and moderate rain during the day, except from 0 ^h to 1 ^h ; clouded with cir. and haze from 18 ^h to 21 ^h | 1·0 | 1·0 | — | 1·0 | 77·8 | 47·2 | 0·600 | — |
| 11 | Partially clouded; quite clear at 17 ^h | 0·6 | — | 0·4 | 0·0 | 55·3 | 45·7 | — | — |
| 12 | Generally clear except light cir. and haze occasionally; halo round the sun at 5 ^h and 6 ^h , diameter 30°; clouded from 18 ^h | 0·1 | 0·3 | 0·4 | 1·0 | 61·5 | 44·7 | — | — |
| 13 | Clouded at 0 ^h ; remainder of day partially clouded with nim., cir.-cum. and cum.; thunder storms and showers of rain during the day; rainbow at 5 ^h 30 ^m | 0·4 | 0·6 | 0·1 | 0·5 | 73·8 | 48·2 | 0·270 | — |
| 14 | Partially clouded to 5 ^h ; remainder of day quite clear | 0·3 | 0·0 | 0·0 | 0·0 | 70·3 | 50·5 | — | — |
| 15 | Clear to 1 ^h ; remainder of day clouded with cir.-cum. and cir.-strat.; slight rain at 12 ^h , 16 ^h , and 17 ^h | 0·7 | 1·0 | 1·0 | 1·0 | 70·1 | 39·2 | 0·030 | — |
| 16 | Generally clouded with cum.-strat., cum. and nim.; rain from 7 ^h to 8 ^h ; wind shifted at 7 ^h from S.S.W. to N.N.W.; double rainbow at 7 ^h 30 ^m | 0·6 | 1·0 | 0·7 | 0·1 | 61·5 | 49·9 | 0·165 | — |
| 17 | Clear, except a few detached cir.-cum. generally dispersed | 0·3 | 0·0 | — | 0·0 | 67·0 | 49·2 | — | — |
| 18 | Generally clear | 0·2 | — | 0·0 | 0·0 | 68·0 | 42·2 | — | — |
| 19 | Clear, except a few cir. occasionally dispersed; partially clouded from 21 ^h | 0·2 | 0·0 | 0·0 | 1·0 | 69·8 | 43·2 | — | — |
| 20 | Partially clouded to 9 ^h ; remainder of day quite clear; halo round the sun at 0 ^h , diameter 30° | 0·6 | 0·7 | 0·1 | 1·0 | 71·8 | 48·5 | — | — |
| 21 | Partially clouded from 0 ^h to 4 ^h ; remainder quite clear | 0·2 | 0·1 | 0·0 | — | 77·8 | 58·0 | — | — |
| 22 | Clouded with cir. and haze at 3 ^h and 4 ^h ; remainder partially clouded; sheet lightning in N.E. and S.W. at 13 ^h and 14 ^h | 1·0 | 0·7 | 0·2 | 1·0 | 80·8 | 55·0 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|--------------|---|-----------------------|-----|------|------|-------------|-------------|------------------|------------|
| | | 3h. | 9h. | 15h. | 21h. | | | | |
| JUNE. | | | | | | | | | |
| 23 | Mostly clouded with cum. and cir.-cum.; thunder in N. and N.W. at 0 ^h and 1 ^h ; sheet lightning from 9 ^h to 13 ^h in N.W., E. and S.E.; rain from 18 ^h to 23 ^h | 0.7 | 0.7 | 1.0 | 1.0 | 81.8 | 60.0 | — | — |
| 24 | Mostly clouded to 9 ^h , remainder clear; clouded at 21 ^h | 0.6 | 0.0 | — | 1.0 | 79.8 | 59.5 | 0.350 | — |
| 25 | Clear | 0.2 | — | 0.0 | 0.5 | 80.8 | 57.5 | — | — |
| 26 | Partially clouded to 5 ^h with cir.-cum. and haze; remainder quite clear | 0.5 | 0.0 | 0.0 | 0.0 | 73.8 | 52.0 | — | — |
| 27 | Clear to 1 ^h ; partially clouded from 2 ^h to 11 ^h ; remainder clouded with cum.-strat., cir.-strat. and cir.-cum.; clouded to 23 ^h ; rain from 18 ^h to 19 ^h | 0.5 | 0.4 | 1.0 | 1.0 | 81.8 | 59.0 | Not appreciable. | — |
| 28 | Partially clouded from 0 ^h to 13 ^h ; remainder clouded with cum.-strat., cir.-cum. and cum.; rain from 15 ^h to 16 ^h ; sheet lightning in S.W. at 16 ^h ; clouded till 23 ^h | 0.2 | 0.6 | 1.0 | 1.0 | 83.3 | 62.5 | 0.050 | — |
| 29 | Partially clouded from 0 ^h to 9 ^h ; remainder clear; thunder in N. at 4 ^h ; clouded from 18 ^h to 20 ^h | 0.9 | 0.4 | 0.1 | 0.7 | 79.3 | 60.5 | — | — |
| 30 | Mostly clear; auroral light in N. at 12 ^h and 13 ^h | 0.6 | 0.3 | 0.0 | 0.4 | 80.8 | 54.5 | — | — |
| JULY. | | | | | | | | | |
| 1 | Generally clear; a few light cum.-strat. and haze occasionally round horizon; clouded at 21 ^h ; partially clouded from 22 ^h | 0.1 | 0.0 | — | 1.0 | 82.3 | 62.5 | — | — |
| 2 | Partially clouded to 11 ^h ; quite clear from 12 ^h to 17 ^h ; faint auroral light at 14 ^h ; clouded from 23 ^h | 0.6 | — | 0.0 | 0.1 | 86.8 | 66.5 | — | — |
| 3 | Clouded to 6 ^h ; remainder of the day quite clear | 1.0 | 0.0 | 0.0 | 0.6 | 75.8 | 44.7 | — | — |
| 4 | Generally clouded with cir.-cum. and cir.-strat.; slight rain between 7 ^h and 8 ^h , and from 12 ^h to 17 ^h ; detached cum. occasionally from 18 ^h | 0.8 | 1.0 | 1.0 | 0.2 | 72.5 | 47.9 | 0.100 | — |
| 5 | Mostly clear; detached cum. occasionally to 6 ^h ; remainder quite clear | 0.2 | 0.1 | 0.0 | 0.0 | 72.2 | 57.0 | — | — |
| 6 | Partially clear from 0 ^h to 8 ^h ; remainder clouded; rain from 15 ^h to 19 ^h 45 ^m | 0.2 | 1.0 | 1.0 | 1.0 | 74.8 | 50.5 | 0.310 | — |
| 7 | Mostly clear from 0 ^h to 9 ^h ; remainder quite clear; auroral light in N. at 13 ^h and 14 ^h ; partially clouded from 18 ^h with cum. and cir.-cum. dispersed | 0.2 | 0.2 | 0.0 | 0.1 | 76.6 | 53.7 | — | — |
| 8 | Partially clouded with cum. and cir.-cum. widely dispersed to 21 ^h ; clear from 21 ^h | 0.5 | 0.1 | — | 0.0 | 78.2 | 50.7 | — | — |
| 9 | Partially clouded with cir. and cir.-cum. | 1.0 | — | 0.6 | 0.7 | 82.8 | 54.0 | — | — |
| 10 | Generally clouded with cir.-cum. and cir.-strat.; a few clear spaces; halo round the moon at 10 ^h , 12 ^h , and 13 ^h , diameter 35° to 40°; halo round the sun from 20 ^h , diameter from 40° to 35° | 0.8 | 1.0 | 1.0 | 0.8 | 80.0 | 55.5 | — | — |
| 11 | Halo continued round the sun to 5 ^h ; generally overcast with light cir. and haze; clear from 14 ^h ; white frost at 17 ^h | 1.0 | 0.7 | 0.0 | 0.0 | 77.2 | 49.5 | — | — |
| 12 | Unclouded, but hazy all day | 0.0 | 0.1 | 0.0 | 0.0 | 67.5 | 38.7 | — | — |
| 13 | Unclouded, but hazy to 6 ^h ; remainder of the day light cir.-cum. and cir.; hazy from 18 ^h to 22 ^h | 0.0 | 1.0 | 0.7 | 0.0 | 77.8 | 46.9 | — | — |
| 14 | Clouded with cir.-cum. and haze; rain from 17 ^h to 20 ^h 30 ^m | 1.0 | 1.0 | 1.0 | 1.0 | 75.8 | 53.0 | 0.150 | — |
| 15 | Clouded with cir.-cum. and cir.-strat.; sheet lightning in W. and N. at 11 ^h | 1.0 | 1.0 | — | 0.6 | 84.3 | 62.2 | 1.000 | — |
| 16 | Mostly clouded with cir.-cum. and cir.-strat.; incessant sheet lightning in E. and S. horizon from 12 ^h to 15 ^h ; rain at 17 ^h | 0.9 | — | 1.0 | 1.0 | 75.5 | 61.6 | 0.100 | — |
| 17 | Generally clouded, with occasional clear intervals; heavy thunder-storms with rain during the day, and vivid forked and sheet lightning | 1.0 | 0.3 | 0.2 | 0.6 | 77.3 | 63.5 | 1.690 | — |
| 18 | Mostly clear; detached cum. and cir.-cum. occasionally dispersed over the sky | 0.5 | 0.1 | 0.0 | 0.1 | 81.0 | 62.5 | — | — |
| 19 | Clear all day except occasional cir.-cum. and cum.-strat. in S. and W. horizon | 0.1 | 0.0 | 0.0 | 0.0 | 84.4 | 60.2 | — | — |
| 20 | Quite clear all day | 0.0 | 0.0 | 0.0 | 0.0 | 71.5 | 45.2 | — | — |
| 21 | Quite clear all day | 0.0 | 0.0 | 0.0 | 0.0 | 75.3 | 42.2 | — | — |
| 22 | In general clear; a few light cir. and cir.-cum. to 7 ^h ; clear at 21 ^h ; partially clouded from 22 ^h | 0.4 | 0.0 | — | 0.0 | 75.8 | 52.0 | — | — |
| 23 | Partially clouded to 13 ^h ; remainder of the day densely clouded; lightning and thunder from 12 ^h to 14 ^h ; rain from 15 ^h to 17 ^h 45 ^m | 0.4 | — | 1.0 | 1.0 | 81.8 | 55.5 | 0.550 | — |
| 24 | Partially clouded from 0 ^h to 6 ^h ; remainder of day quite clear | 0.6 | 0.0 | 0.0 | 0.0 | 82.8 | 63.5 | — | — |
| 25 | Partially clouded from 1 ^h to 5 ^h with cir. and cir.-strat.; remainder of day quite clear; auroral light in N. from 9 ^h to 10 ^h | 0.7 | 0.0 | 0.0 | 0.4 | 77.6 | 56.7 | — | — |
| 26 | Partially clouded at intervals; thunder and lightning at 0 ^h and 1 ^h with drops of rain; very heavy storm of lightning and rain at 6 ^h ; lightning continued to 14 ^h ; auroral light in N. at 13 ^h , 14 ^h , and 15 ^h | 0.7 | 0.1 | 0.0 | 0.0 | 77.3 | 52.5 | 0.525 | — |
| 27 | Generally clear to 17 ^h , when it clouded over with cir.-strat., cir. and haze | 0.1 | 0.1 | 0.5 | 0.0 | 83.8 | 57.5 | — | — |
| 28 | Clouded and clear alternately with cir.-cum. and cir.-strat.; lightning, thunder and rain from 3 ^h to 5 ^h ; lightning in S. at 19 ^h and 11 ^h | 0.9 | 0.1 | 0.8 | 1.0 | 75.8 | 58.0 | 0.180 | — |
| 29 | Partially clear | 0.7 | 0.2 | — | 0.0 | 82.2 | 61.8 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|------------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| JULY. | | | | | | | | | |
| 30 | Clear except at 3 ^h ; cir.-cum. and cir. dispersed; clear at intervals | 0.5 | — | 0.0 | 0.0 | 70.8 | 50.5 | In. | — |
| 31 | Partially clouded with cum. and cir.-cum.; generally clear from 18 ^h to 22 ^h | 0.7 | 0.6 | 0.3 | 0.0 | 71.8 | 44.7 | — | — |
| AUGUST. | | | | | | | | | |
| 1 | Clear from 14 ^h to 17 ^h ; remainder of day mostly clouded with detached cir.-cum. | 0.8 | 0.8 | 1.0 | 0.0 | 73.8 | 51.5 | — | — |
| 2 | Clear from 12 ^h to 17 ^h ; remainder of day partially clouded with light cir.-cum. | 0.2 | 0.3 | 0.0 | 0.0 | 72.8 | 44.0 | — | — |
| 3 | Generally clear; light haze; auroral light from 9 ^h 30 ^m to 10 ^h 15 ^m | 0.1 | 0.0 | 0.0 | 0.0 | 75.8 | 49.2 | — | — |
| 4 | Unclouded and light haze to 2 ^h ; remainder of day clouded with cir.-cum. and cum.-strat.; a few clear spaces | 0.3 | 0.7 | 0.9 | 1.0 | 80.8 | 53.5 | — | — |
| 5 | Clouded with cir.-cum. and haze to 6 ^h , some clear spaces during the remainder of the day | 1.0 | 0.4 | — | 1.0 | 78.8 | 60.0 | — | — |
| 6 | Generally clouded with cir., cir.-strat. and haze | 0.9 | — | 1.0 | 1.0 | 79.2 | 58.5 | — | — |
| 7 | Clouded all day with cir.-cum. and cir.-strat.; thunder and rain between 0 ^h and 3 ^h ; halo round the moon at 12 ^h and 13 ^h , diameter about 40° | 1.0 | 1.0 | 1.0 | 1.0 | 77.3 | 63.0 | 0.205 | — |
| 8 | Clouded all day with cum., cir.-cum. and haze; halo round the moon at 12 ^h , 13 ^h , and 14 ^h ; imperfect | 1.0 | 1.0 | 1.0 | 1.0 | 81.8 | 61.5 | — | — |
| 9 | Clouded all day with cir.-cum. and haze; light cir. and cir.-strat. from 18 ^h to 23 ^h | 1.0 | 1.0 | 0.9 | 0.0 | 76.8 | 52.5 | — | — |
| 10 | Unclouded but hazy; light cir. and cir.-strat. to 14 ^h | 1.0 | 0.9 | 0.0 | 0.0 | 74.3 | 56.5 | — | — |
| 11 | Generally unclouded; hazy; light cir.-cum. and cum. occasionally from 0 ^h to 10 ^h | 0.5 | 0.2 | 0.0 | 0.8 | 77.8 | 60.0 | — | — |
| 12 | Clouded generally with cir. and haze to 8 ^h ; remainder of day clear | 0.7 | 0.0 | — | 0.0 | 79.5 | 55.5 | — | — |
| 13 | Mostly clouded with cir.-cum. and cir.; rain from 19 ^h to 21 ^h 30 ^m | 0.6 | — | 0.9 | 1.0 | 82.3 | 53.5 | 1.270 | — |
| 14 | Partially clouded from 0 ^h to 9 ^h with cir.-cum. and cum.-strat.; remainder of the day clear | 0.3 | 0.3 | 0.0 | 0.6 | 82.8 | 60.0 | — | — |
| 15 | Clear from 9 ^h to 14 ^h ; remainder of day partially clouded with cir.-cum. and cum.-strat. | 0.4 | 0.0 | 0.5 | 0.0 | 80.8 | 57.5 | — | — |
| 16 | Clear to 12 ^h ; remainder of the day clouded with cir.-cum. and cum.-strat.; lightning in N.W. at 9 ^h ; thunder and lightning from 14 ^h to 18 ^h , accompanied with rain; halo round the moon at 12 ^h | 0.0 | 0.0 | 1.0 | 1.0 | 77.0 | 54.0 | 0.125 | — |
| 17 | Clouded with cir.-cum. and cum.-strat. all day | 1.0 | 1.0 | 1.0 | 1.0 | 81.9 | 62.0 | — | — |
| 18 | Clear from 8 ^h to 11 ^h ; remainder of day mostly clouded; halo round the sun from 20 ^h | 0.8 | 0.0 | 0.5 | 0.5 | 78.0 | 56.9 | — | — |
| 19 | Halo continued round the sun to 2 ^h , diameter about 39°; mostly clouded with light cir. and haze | 1.0 | 1.0 | — | 1.0 | 73.3 | 47.7 | — | — |
| 20 | Clouded most of the day with cir.-strat. and cir.-cum.; clear at 12 ^h and 17 ^h | 1.0 | — | 0.8 | 0.0 | 72.3 | 57.5 | — | — |
| 21 | Clear, except a few scattered cum. in N. horizon; hazy to 21 ^h | 0.1 | 0.2 | 0.0 | 0.0 | 72.6 | 55.0 | — | — |
| 22 | Partially clouded to 6 ^h ; remainder of the day clouded with cir.-cum. and cir.-strat. | 0.3 | 1.0 | 0.6 | 0.0 | 74.8 | 51.5 | — | — |
| 23 | Generally clear; a few cum. and cir.-cum. occasionally | 0.2 | 0.1 | 0.0 | 0.0 | 72.8 | 51.5 | — | — |
| 24 | Mostly clear; overcast from 5 ^h to 9 ^h with light cir. and cir.-strat. | 0.2 | 0.4 | 0.0 | 0.0 | 75.6 | 46.7 | — | — |
| 25 | Clouded with light cir. and haze from 4 ^h to 8 ^h ; remainder of day clear | 0.3 | 0.0 | 0.0 | 0.0 | 75.8 | 48.7 | — | — |
| 26 | Partially clouded with cir.-cum. and haze | 0.5 | 0.7 | — | 1.0 | 77.3 | 55.0 | — | — |
| 27 | Generally clouded; heavy rain from 5 ^h to 11 ^h 30 ^m with lightning and thunder; slight rain and sheet lightning continued to 15 ^h ; clouded to 23 ^h , when the weather began to clear | 0.9 | — | 0.8 | 1.0 | 83.1 | 61.0 | 3.250 | — |
| 28 | Cleared gradually to 7 ^h ; remainder of day quite clear | 0.4 | 0.0 | 0.0 | 0.0 | 79.3 | 65.0 | — | — |
| 29 | Clear all day, except light haze round horizon | 0.0 | 0.0 | 0.0 | 0.0 | 77.8 | 60.0 | — | — |
| 30 | Unclouded, but light haze to 5 ^h ; remainder of day partially clouded with cir.-cum. and cir.-strat. | 0.1 | 0.4 | 0.8 | 0.5 | 77.8 | 55.5 | — | — |
| 31 | Partially clouded all day with cir.-cum.; clear spaces | 0.4 | 0.6 | 0.1 | 1.0 | 83.0 | 64.5 | — | — |
| SEPTEMBER. | | | | | | | | | |
| 1 | Clouded all day with cir.-cum. and haze; a few drops of rain at 21 ^h | 1.0 | 1.0 | 0.8 | 1.0 | 85.8 | 62.3 | — | — |
| 2 | Clouded all day with cir.-cum. and haze; a few drops of rain at 4 ^h and 5 ^h ; fog at 11 ^h | 0.8 | 1.0 | — | 1.0 | 80.0 | 64.5 | — | — |
| 3 | Dense mist; partially clear from 7 ^h ; sheet lightning in horizon at 12 ^h and 13 ^h ; partially clouded from 16 ^h | 0.6 | — | 0.8 | 0.2 | 83.3 | 70.0 | — | — |
| 4 | Partially clouded from 0 ^h to 12 ^h ; totally clouded with cum.-strat. and cir.-cum. to 23 ^h | 0.3 | 0.3 | 1.0 | 1.0 | 80.0 | 65.0 | — | — |
| 5 | Partially clouded from 0 ^h to 9 ^h ; remainder of day clouded with cir.-cum. and cir.-strat. | 0.3 | 0.5 | 1.0 | 1.0 | 80.8 | 60.0 | — | — |
| 6 | Clouded all day with cir.-cum. and haze; rain from 19 ^h to 20 ^h 15 ^m | 1.0 | 1.0 | 1.0 | 1.0 | 72.3 | 57.5 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|------------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| SEPTEMBER. | | | | | | | | | |
| 7 | Partially clear from 0 ^h to 11 ^h ; remainder of day clouded with cir.-cum. and cum.-strat. | 0.6 | 0.0 | 1.0 | 1.0 | 71.8 | 64.5 | 0.470 | — |
| 8 | Partially clouded to 12 ^h ; remainder of day quite clear | 0.7 | 0.2 | 0.0 | 0.0 | 72.8 | 60.0 | — | — |
| 9 | Partially clouded from 0 ^h to 8 ^h ; remainder clouded; halo round the moon at 8 ^h , 9 ^h , and 10 ^h , diameter about 35° to 40° | 0.2 | 0.8 | — | 1.0 | 75.8 | 47.2 | — | — |
| 10 | Clouded to 11 ^h , remainder nearly clear; frost at 18 ^h | 0.9 | — | 0.1 | 0.1 | 63.4 | 43.2 | — | — |
| 11 | Clear all day except a few light cir.-cum. in S. horizon | 0.0 | 0.0 | 0.0 | 0.0 | 62.0 | 39.7 | — | — |
| 12 | Unclothed but hazy; clouded with cir.-cum. and haze from 19 ^h | 0.0 | 0.0 | 0.0 | 1.0 | 65.5 | 41.7 | — | — |
| 13 | Clouded with cir.-cum. and haze; rain from 12 ^h to 17 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 62.5 | 42.2 | 0.200 | — |
| 14 | Continued raining from 0 ^h to 22 ^h 30 ^m ; clouded | 1.0 | 1.0 | 1.0 | 1.0 | 62.0 | 54.5 | 3.455 | — |
| 15 | Clouded to 1 ^h ; remainder partially clear and clouded alternately; rain at intervals from 8 ^h to 13 ^h | 0.7 | 0.1 | 0.4 | 0.1 | 59.3 | 54.5 | 1.720 | — |
| 16 | Partially clouded to 6 ^h ; remainder of day quite clear | 0.6 | 0.0 | — | 0.0 | 71.1 | 56.0 | — | — |
| 17 | Clear to 13 ^h ; remainder partially clouded; sheet lightning round horizon from 12 ^h to 14 ^h | 0.0 | — | 0.8 | 0.4 | 69.8 | 57.0 | — | — |
| 18 | Partially clear to 7 ^h ; remainder of day quite clear; faint auroral light in the N. at 10 ^h and 14 ^h | 0.8 | 0.0 | 0.0 | 0.0 | 75.8 | 60.8 | — | — |
| 19 | Cloudy from 0 ^h to 6 ^h , and at 8 ^h and 9 ^h ; clear at 17 ^h ; remainder partially clear; rain between 21 ^h and 23 ^h | 1.0 | 0.3 | 1.0 | 0.8 | 76.8 | 47.2 | — | — |
| 20 | Slight showers; generally clear | 0.2 | 0.0 | 0.0 | 0.0 | 65.7 | 54.5 | 0.400 | — |
| 21 | Clouded from 1 ^h to 6 ^h ; cir.-cum. and cum.-strat.; remainder mostly clear; heavy shower of rain at 4 ^h 30 ^m ; sheet lightning from 6 ^h to 10 ^h in S.S.E., N.W. and N.; auroral light in N. at 12 ^h ; halo round the sun at 22 ^h , diameter 35° | 0.9 | 0.2 | 0.1 | 0.3 | 78.1 | 57.0 | 0.080 | — |
| 22 | Densely clouded all day; heavy shower of rain at 16 ^h 30 ^m ; hazy from 18 ^h to 22 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 86.6 | 46.7 | — | — |
| 23 | Generally clear; very heavy rain at 23 ^h | 0.6 | 0.7 | — | 1.0 | 63.5 | 53.7 | 0.140 | — |
| 24 | Mostly clouded; very heavy rain from 6 ^h to 22 ^h 40 ^m ; lightning and thunder | 0.7 | — | 1.0 | 1.0 | 75.8 | 62.2 | 2.250 | — |
| 25 | Clouded all day with cir.-cum., cum.-strat. and haze | 1.0 | 1.0 | 1.0 | 0.8 | 78.3 | 54.0 | 0.045 | — |
| 26 | Generally clouded all day; a few clear spaces; cir.-strat. and haze generally | 0.8 | 0.6 | 1.0 | 0.3 | 59.0 | 46.2 | — | — |
| 27 | Clear all day; auroral light in the N. from 9 ^h to 14 ^h ; frost; halo round the sun at 22 ^h , diameter about 35° | 0.0 | 0.0 | 0.0 | 1.0 | 49.8 | 36.7 | — | — |
| 28 | Clouded to 5 ^h with cir. and haze; clear from 6 ^h to 12; remainder of day mostly clouded | 0.8 | 0.0 | 0.9 | 1.0 | 51.8 | 32.2 | — | — |
| 29 | Partially clouded to 5 ^h , remainder clear; faint auroral light in N. at 10 ^h ; clouded from 18 ^h to 20 ^h ; clear at 21 ^h ; partially clear from 22 ^h | 0.5 | 0.0 | 0.0 | 0.0 | 56.8 | 38.2 | — | — |
| 30 | Partially clear from 0 ^h to 4 ^h ; remainder of day clouded; rain from 9 ^h | 0.3 | 1.0 | — | 1.0 | 63.0 | 41.7 | 1.000 | — |
| OCTOBER. | | | | | | | | | |
| 1 | Generally clouded with cir. and cir.-strat.; clear from 15 ^h to 17 ^h | 0.6 | — | 0.0 | 0.8 | 64.5 | 55.5 | 0.180 | — |
| 2 | Partially clouded with cir.-cum. generally dispersed | 0.5 | 0.0 | 0.3 | 0.4 | 68.0 | 49.7 | — | — |
| 3 | Generally clouded with cum. and cum.-strat.; squally; light showers of rain occasionally | 1.0 | 0.9 | 1.0 | 0.3 | 61.3 | 43.5 | 0.060 | — |
| 4 | Partially clouded with cir.-cum. and cir.; a few showers of rain; quite clear at 10 ^h , 11 ^h , and from 17 ^h to 23 ^h | 0.4 | 0.1 | 0.2 | 0.0 | 54.8 | 41.2 | 0.055 | — |
| 5 | Partially clouded with light cir. and cir.-strat.; clear from 18 ^h to 20 ^h | 0.1 | 0.8 | 0.1 | 0.8 | 54.3 | 35.2 | — | — |
| 6 | Clouded with cir.-cum., cir.-strat. and haze; slight rain from 10 ^h to 17 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 59.6 | 42.7 | 0.130 | — |
| 7 | Constant rain to 12 ^h | 1.0 | 1.0 | — | 0.3 | 64.7 | 54.0 | 1.685 | — |
| 8 | Clouded at 3 ^h ; quite clear from 12 ^h | 1.0 | — | 0.0 | 1.0 | 56.8 | 46.7 | 0.040 | — |
| 9 | Clouded to 10 ^h ; a few drops of rain at 8 ^h and 9 ^h ; remainder of day clear; halo round the sun at 21 ^h , diameter about 40°; imperfect | 1.0 | 1.0 | 0.1 | 1.0 | 53.8 | 32.7 | 0.010 | — |
| 10 | Clouded with cir.-strat., cir.-cum. and haze | 1.0 | 1.0 | 1.0 | 1.0 | 52.6 | 34.5 | — | — |
| 11 | Densely clouded with cir.-strat. and haze; moderate drizzling rain at intervals | 1.0 | 1.0 | 1.0 | 0.5 | 51.8 | 45.2 | 0.220 | — |
| 12 | Partially clear to 6 ^h ; slight rain at 1 ^h ; quite clear from 7 ^h to 13 ^h | 0.8 | 0.0 | 0.2 | 0.7 | 52.8 | 38.7 | 0.045 | — |
| 13 | Partially clear to 7 ^h ; remainder of day quite clear | 1.0 | 0.0 | 0.0 | 1.0 | 54.3 | 32.1 | — | — |
| 14 | Generally clouded with cir.-cum. and cum.-strat.; a few drops of rain at 4 ^h | 1.0 | 1.0 | — | 1.0 | 47.9 | 29.7 | — | — |
| 15 | Clouded with cir.-strat. and cir.-cum.; drizzling rain from 12 ^h to 17 ^h ; slight rain from 18 ^h to 19 ^h | 1.0 | — | 1.0 | 1.0 | 44.1 | 28.9 | 0.290 | — |
| 16 | Clouded with cir.-strat. and haze; slight rain from 18 ^h to 20 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 46.4 | 37.7 | 0.030 | — |
| 17 | Clouded with cum.-strat., cir.-cum. and haze; a few flakes of snow at 3 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 49.0 | 36.7 | 0.015 | — |
| 18 | Clouded to 9 ^h ; remainder of the day generally clear | 1.0 | 1.0 | 0.1 | 0.6 | 44.1 | 37.4 | — | — |
| 19 | Mostly clouded with cir.-cum. and cum.-strat.; clear from 7 ^h to 10 ^h | 0.6 | 0.0 | 0.7 | 1.0 | 50.3 | 30.9 | — | — |
| 20 | Generally clear; sheet lightning in W. horizon from 14 ^h to 17 ^h ; heavy rain from 18 ^h to 19 ^h 30 ^m | 0.3 | 0.0 | 0.6 | 1.0 | 48.9 | 35.2 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|-----------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| OCTOBER. | | | | | | | | | |
| 21 | Mostly clouded with cir.-cum. and haze; clear at 21 ^h - - - | 0.3 | 1.0 | — | 0.0 | 57.8 | 48.7 | 0.580 | — |
| 22 | Clouded at 3 ^h ; quite clear from 12 ^h to 17 ^h - - - | 1.0 | — | 0.0 | 0.0 | 51.8 | 32.7 | — | — |
| 23 | Quite clear to 14 ^h ; remainder of the day partially clear - - - | 0.0 | 0.0 | 0.6 | 0.5 | 41.9 | 24.2 | — | — |
| 24 | Generally clear to 15 ^h ; remainder clouded; rain from 16 ^h 30 ^m to 19 ^h 15 ^m - - - | 0.8 | 0.0 | 0.3 | 0.5 | 40.4 | 27.2 | — | — |
| 25 | Partially clear from 0 ^h to 12 ^h ; remainder clouded with cir.-cum. and cum.-strat. - - - | 0.8 | 0.3 | 1.0 | 0.5 | 45.9 | 31.1 | 0.460 | — |
| 26 | Generally clouded with cir.-cum. and cum.-strat.; snow from 13 ^h to 23 ^h - - - | 0.3 | 1.0 | 1.0 | 1.0 | 48.4 | 26.2 | — | — |
| 27 | Clouded to 11 ^h ; remainder of the day quite clear - - - | 1.0 | 1.0 | 0.0 | 0.0 | 41.9 | 27.5 | — | — |
| 28 | Partially clouded to 9 ^h ; remainder of the day clouded with cir. and haze; halo round the moon at 8 ^h and 9 ^h , diameter about 35°, imperfect - - - | 0.4 | 0.6 | — | 1.0 | 33.4 | 25.2 | — | — |
| 29 | Clouded to 11 ^h ; cir.-strat. and haze; occasional showers of rain, hail, and snow; clear from 12 ^h to 17 ^h , clouded from 18 ^h to 23 ^h - - - | 1.0 | — | 0.1 | 1.0 | 42.9 | 31.7 | — | — |
| 30 | Partially clear from 0 ^h to 9 ^h ; cum., cir.-cum. and haze; clear from 11 ^h to 14 ^h remainder partially clear; slight showers of snow occasionally - - - | 0.5 | 0.7 | 0.9 | 0.2 | 45.9 | 32.2 | — | — |
| 31 | Generally clouded with cir.-cum. and haze; a few clear spaces occasionally; slight snow from 22 ^h - - - | 0.9 | 0.2 | 1.0 | 1.0 | 38.4 | 25.7 | — | — |
| NOVEMBER. | | | | | | | | | |
| 1 | Clouded all day with cir.-strat. and haze; slight snow continued to 2 ^h , and turned to rain, which continued all day - - - | 1.0 | 1.0 | 1.0 | 1.0 | 40.5 | 27.2 | 0.975 | — |
| 2 | Generally clouded; slight rain at 2 ^h , 3 ^h , and 7 ^h - - - | 1.0 | 0.2 | 0.9 | 0.6 | 38.7 | 33.3 | — | — |
| 3 | Clouded and partially clear alternately; cum., cir.-cum. and haze - - - | 0.9 | 1.0 | 0.3 | 0.4 | 39.9 | 30.7 | — | — |
| 4 | Densely clouded all day with cum.-strat. and cum. - - - | 1.0 | 1.0 | — | 1.0 | 37.1 | 23.7 | — | — |
| 5 | Clear throughout the day - - - | 0.0 | — | 0.0 | 1.0 | 30.7 | 24.7 | — | — |
| 6 | Generally clouded; cum., cir.-strat. and cir.-cum.; slight snow from 17 ^h to 22 ^h - - - | 0.5 | 1.0 | 1.0 | 1.0 | 30.2 | 18.4 | — | — |
| 7 | Generally clouded; cir.-cum., cum.-strat., cir.-strat. and haze; partially clear from 18 ^h to 21 ^h - - - | 1.0 | 1.0 | 0.3 | 0.7 | 35.6 | 27.2 | — | — |
| 8 | Densely clouded all day with cir.-cum., cum.-strat., and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 36.9 | 31.7 | — | — |
| 9 | Overcast all day with cir.-strat. and haze; imperfect halo round the sun at 0 ^h , diameter about 30°; slight sleet and drizzling rain from 11 ^h to 22 ^h - - - | 1.0 | 1.0 | 1.0 | 1.0 | 37.7 | 30.2 | 0.250 | — |
| 10 | Densely clouded with cir.-cum. and haze; slight rain commenced at 21 ^h 30 ^m - - - | 1.0 | 0.6 | 1.0 | 1.0 | 39.4 | 33.2 | 0.240 | — |
| 11 | Rain continued to 5 ^h ; clouded to 6 ^h ; remainder of the day nearly clear - - - | 1.0 | 0.1 | — | — | 40.4 | 33.7 | 0.250 | — |
| 12 | Clouded with cir.-strat., cum. and cum.-strat.; halo round the moon from 14 ^h to 16 ^h , diameter about 22°, perfect - - - | 1.0 | — | 1.0 | 1.0 | 37.9 | 25.7 | — | — |
| 13 | Clouded to 4 ^h with cir.-cum. and haze; squalls of wind and showers of snow from 0 ^h to 4 ^h ; remainder of the day partially clear - - - | 1.0 | 0.2 | 0.7 | 0.5 | 33.9 | 27.7 | — | — |
| 14 | Partially clear to 14 ^h ; remainder of the day clouded with cir.-cum., cir.-strat. and haze; halo round the moon at 13 ^h 30 ^m , diameter about 35° - - - | 0.5 | 0.8 | 1.0 | 1.0 | 36.9 | 19.9 | — | — |
| 15 | Overcast all day with cir.-strat. and haze; snow from 0 ^h to 2 ^h 15 ^m , when it turned to rain and continued to 23 ^h - - - | 1.0 | 1.0 | 1.0 | 1.0 | 33.1 | 22.2 | 0.175 | — |
| 16 | Clouded to 7 ^h with cir.-cum. and haze; remainder of the day clear - - - | 1.0 | 0.0 | 0.5 | 1.0 | 41.4 | 32.7 | — | — |
| 17 | Clouded to 12 ^h with cir.-cum. and haze; remainder of the day nearly clear; rain from 1 ^h to 12 ^h 20 ^m ; high wind with occasional violent gusts - - - | 1.0 | 1.0 | 0.1 | 1.0 | 49.2 | 29.2 | 2.020 | — |
| 18 | Clouded to 4 ^h with cum.-strat. and cum.; remainder of the day partially clear - - - | 1.0 | 1.0 | — | 1.0 | 43.9 | 34.7 | — | — |
| 19 | Clouded from 0 ^h to 3 ^h with cir.-cum. and cum.-strat.; remainder of the day quite clear - - - | 1.0 | — | 0.0 | 0.0 | 45.9 | 30.7 | — | — |
| 20 | Clouded and clear alternately to 5 ^h ; remainder of the day clouded with cir.-strat. and cir.-cum.; slight rain from 9 ^h to 19 ^h 30 ^m - - - | 0.7 | 1.0 | 1.0 | 1.0 | 42.4 | 27.2 | 0.400 | — |
| 21 | Clouded to 5 ^h with cir.-cum., cum.-strat. and haze; remainder of day partially clear - - - | 1.0 | 0.5 | 0.0 | 1.0 | 43.4 | 35.2 | — | — |
| 22 | Clouded to 7 ^h with cir.-cum. and cum.-strat.; remainder of day quite clear; slight rain from 21 ^h to 23 ^h - - - | 1.0 | 0.0 | 0.0 | 1.0 | 45.4 | 30.2 | 0.070 | — |
| 23 | Clouded all day with cir.-strat. and haze; slight rain from 6 ^h 20 ^m to 10 ^h 40 ^m - - - | 1.0 | 1.0 | 0.9 | 0.9 | 36.7 | 24.5 | 0.210 | — |
| 24 | Partially clouded from 0 ^h to 10 ^h ; clouded from 11 ^h to 15 ^h with cir.-cum. and cir.-strat.; remainder clear - - - | 0.3 | 0.4 | 1.0 | 0.1 | 52.6 | 33.7 | — | — |
| 25 | Generally clear; a few light cir. occasionally - - - | 0.2 | 0.0 | — | 1.0 | 46.4 | 27.9 | — | — |
| 26 | Clouded all day with cir.-cum., cum.-strat. and haze - - - | 1.0 | — | 1.0 | 1.0 | 40.9 | 27.2 | — | — |
| 27 | Clouded to 1 ^h with cir.-cum., cum.-strat. and cum.; clear to 21 ^h ; from 21 ^h clouded with cir.-cum. - - - | 0.0 | 0.0 | 0.0 | 0.2 | 37.1 | 20.7 | — | — |
| 28 | Clouded all day with cir.-cum. and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 26.7 | 14.1 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Solar Rad. |
|-----------|--|-----------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| NOVEMBER. | | | | | | | | | |
| 29 | Clouded to 18 ^h with cir.-cum. and cum.-strat.; a few light showers of snow; faint auroral light in the N. at 7 ^h ; partially clear from 18 ^h to 22 ^h ; clouded with cir.-cum. and haze from 22 ^h - - - | 1.0 | 1.0 | 1.0 | 0.3 | 30.9 | 21.5 | — | — |
| 30 | Clouded all day with cir.-cum. and haze - - - - - | 1.0 | 1.0 | 1.0 | 1.0 | 34.3 | 22.7 | — | — |
| DECEMBER. | | | | | | | | | |
| 1 | Clouded all day with cir.-cum., cum.-strat. and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 30.7 | 24.7 | — | — |
| 2 | Clouded to 2 ^h ; remainder of the day mostly clear - - - | 0.6 | 0.1 | — | 0.0 | 33.9 | 27.7 | — | — |
| 3 | Generally clear; from 21 ^h clouded with cir.-cum., cir.-strat. and haze - - - | 0.2 | — | 0.0 | 0.0 | 36.9 | 22.2 | — | — |
| 4 | Clouded all day with cir.-cum., cir.-strat. and haze; slight rain at 4 ^h , and constant snow from 12 ^h to 19 ^h 20 ^m - - - | 1.0 | 1.0 | 1.0 | 1.0 | 37.3 | 29.2 | — | — |
| 5 | Generally clouded all day with cir.-cum. and cum.-strat. - - - | 0.7 | 1.0 | 1.0 | 1.0 | 42.4 | 24.1 | — | — |
| 6 | Clouded all day with cir.-cum. and haze; snowing from 0 ^h to 8 ^h - - - | 1.0 | 1.0 | 1.0 | 1.0 | 27.7 | 12.4 | — | — |
| 7 | Clouded all day with cir.-cum. and haze; snowing from 0 ^h to 8 ^h - - - | 1.0 | 1.0 | 1.0 | 1.0 | 31.9 | 25.7 | — | — |
| 8 | Clouded all day with cir.-cum., cir.-strat. and haze; halo round the moon from 10 ^h to 11 ^h , diameter about 40°; began to snow at 23 ^h 30 ^m - - - | 1.0 | 1.0 | 1.0 | 1.0 | 31.9 | 27.2 | — | — |
| 9 | Snow ceased at 2 ^h 46 ^m ; clouded till 5 ^h with cir.-cum. and haze; remainder of the day nearly clear - - - | 1.0 | 0.1 | — | 1.0 | 32.9 | 25.2 | — | — |
| 10 | Clouded all day with cir.-cum., cir.-strat., and haze; halo round the moon at 14 ^h , diameter about 40°, imperfect - - - | 1.0 | — | 1.0 | 1.0 | 33.1 | 17.3 | — | — |
| 11 | Generally clouded to 10 ^h with cir.-cum. and cum.-strat.; partially clouded to 21 ^h ; faint auroral light in N. at 7 ^h and 8 ^h ; squalls of wind with sleet between 6 ^h and 7 ^h ; clear from 21 ^h - - - | 0.4 | 0.8 | 0.3 | 1.0 | 37.5 | 25.3 | — | — |
| 12 | Clear to 18 ^h ; high wind; clouded with cir.-cum. and haze from 18 ^h to 21 ^h ; remainder of day partially clear - - - | 0.1 | 0.0 | 0.0 | 1.0 | 38.1 | 13.9 | — | — |
| 13 | Partially clear and clouded alternately throughout the day; halo round the sun at 0 ^h , and round the moon at 12 ^h , both imperfect; diameters respectively about 30° and 35° - - - | 0.1 | 1.0 | 0.2 | 0.8 | 18.7 | 3.1 | — | — |
| 14 | Clouded all day with cir.-cum., cir.-strat. and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 31.9 | 14.4 | — | — |
| 15 | Clouded all day with cir. and haze; constant rain and snow from 2 ^h - - - | 1.0 | 1.0 | 1.0 | 1.0 | 38.4 | 31.7 | 0.450 | — |
| 16 | Rain continued to 6 ^h ; clouded all day with dense haze - - - | 1.0 | 1.0 | — | 1.0 | 38.1 | 33.2 | 0.400 | — |
| 17 | Clouded all day with cir.-cum. and haze; slight rain from 12 ^h to 14 ^h ; snow from 14 ^h to 21 ^h 15 ^m - - - | 1.0 | — | 1.0 | 1.0 | 35.1 | 28.7 | — | — |
| 18 | Clouded all day with cir.-cum. and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 38.7 | 29.7 | — | — |
| 19 | Clouded all day with cir.-cum. and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 33.9 | 27.7 | — | — |
| 20 | Clouded all day with cir.-cum., cir.-strat. and haze - - - | 0.9 | 1.0 | 1.0 | 1.0 | 34.6 | 28.7 | — | — |
| 21 | Partially clear from 1 ^h to 8 ^h ; remainder of day densely clouded - - - | 0.9 | 1.0 | 1.0 | 1.0 | 48.5 | 33.2 | — | — |
| 22 | Clouded all day with cir., cir.-cum. and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 38.9 | 28.7 | — | — |
| 23 | Clouded all day with cir.-cum. and haze; raining from 1 ^h to 11 ^h - - - | 1.0 | 1.0 | — | 1.0 | 38.4 | 31.5 | 0.090 | — |
| 24 | Clouded all day with cir.-cum. and haze - - - | 1.0 | — | — | 1.0 | 35.3 | 33.2 | — | — |
| 25 | Clouded all day with cir.-cum., cir.-strat. and haze - - - | 0.9 | — | 1.0 | 1.0 | 39.8 | 32.7 | — | — |
| 26 | Clouded all day with cir.-cum. and haze; high wind; slight rain from 3 ^h to 14 ^h - - - | 1.0 | 1.0 | 1.0 | 0.7 | 38.7 | 28.7 | 0.100 | — |
| 27 | Clouded all day with cir.-cum. and haze - - - | 1.0 | 1.0 | 1.0 | 1.0 | 39.7 | 34.7 | — | — |
| 28 | Clouded all day with cir.-cum. and haze; slight snow from 0 ^h to 4 ^h - - - | 1.0 | 1.0 | 1.0 | 1.0 | 40.8 | 31.7 | — | — |
| 29 | Generally clouded with cir.-cum. and cum.-strat.; a few clear spaces at intervals - - - | 1.0 | 0.9 | 0.6 | 0.6 | 37.7 | 24.7 | — | — |
| 30 | Generally clear all day - - - | 0.1 | 0.0 | — | 0.5 | 28.5 ^a | 25.2 ^a | — | — |
| 31 | Partially clouded with light cir.-strat. - - - | 0.2 | — | 0.0 | 1.0 | 30.7 | 25.7 | — | — |

^a Taken from the highest and lowest readings of the Standard Thermometer.

TORONTO, 1844.

MAGNETICAL OBSERVATIONS.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|-------------------|-------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JANUARY. | 1 | 127.0 | 125.8 | 129.0 | 130.4 | 128.8 | 125.0 | 122.0 | 123.0 | 123.4 | 122.8 | 123.2 | 125.5 |
| | 2 | 127.3 | 126.6 | 122.5 | 126.7 | 126.2 | 125.2 | 121.1 | 122.6 | 120.4 | 120.3 | 120.5 | 123.3 |
| | 3 | 125.2 | 126.1 | 128.0 | 129.2 | 128.0 | 126.1 | 124.2 | 122.8 | 123.0 | 123.2 | 125.0 | 126.0 |
| | 4 | 126.2 | 127.0 | 128.8 | 131.0 | 128.8 | 125.5 | 123.3 | 123.9 | 124.1 | 124.2 | 122.6 | 122.5 |
| | 5 | 128.8 | 129.0 | 128.0 | 131.6 | 130.2 | 127.1 | 123.5 | 121.4 | 118.9 | 121.0 | 116.7 | 124.1 |
| | 6 | 125.0 | 127.0 | 129.5 | 128.8 | 125.7 | 127.4 | 126.3 | 122.4 | 123.2 | 120.1 | 125.8 | 124.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 124.0 | 128.0 | 127.4 | 127.6 | 125.5 | 126.0 | 123.2 | 122.8 | 124.0 | 123.8 | 121.5 | 128.2 |
| | 9 | 127.0 | 128.0 | 129.8 | 129.2 | 128.3 | 127.6 | 124.9 | 125.0 | 121.8 | 124.6 | 122.9 | 123.3 |
| | 10 | 123.9 | 128.4 | 129.4 | 130.0 | 131.3 | 130.2 | 125.8 | 121.1 | 119.7 | 119.2 | 120.0 | 125.3 |
| | 11 | 127.0 | 127.1 | 130.0 | 134.3 | 132.8 | 128.8 | 125.0 | 121.4 | 120.0 | 121.5 | 124.8 | 125.3 |
| | 12 | 126.3 | 127.2 | 129.2 | 130.0 | 128.3 | 125.9 | 121.5 | 119.0 | 119.1 | 121.2 | 124.0 | 124.9 |
| | 13 | 127.2 | 127.3 | 129.8 | 131.1 | 128.5 | 124.6 | 121.4 | 120.3 | 120.7 | 123.1 | 125.0 | 126.5 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 127.3 | 127.0 | 129.3 | 130.0 | 129.2 | 126.9 | 122.5 | 121.5 | 123.1 | 123.4 | 124.1 | 125.5 |
| | 16 | 126.0 | 129.0 | 130.0 | 131.2 | 128.1 | 124.7 | 121.9 | 121.2 | 121.8 | 123.4 | 125.3 | 126.2 |
| | 17 | 128.4 | 127.0 | 130.0 | 129.8 | 128.2 | 124.8 | 121.5 | 120.0 | 120.0 | 120.0 | 123.1 | 124.9 |
| | 18 | 127.5 | 128.0 | 129.1 | 131.0 | 126.0 | 123.6 | 121.2 | 123.5 | 124.1 | 125.1 | 125.0 | 125.9 |
| | 19 | 127.0 | 128.2 | 128.8 | 128.1 | 128.0 | 126.8 | 125.0 | 124.0 | 123.9 | 124.0 | 124.9 | 125.2 |
| | 20 | 130.0 | 129.5 | 129.3 | 129.0 | 128.0 | 126.8 | 125.2 | 125.0 | 125.0 | 125.8 | 125.4 | 125.9 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 127.0 | 127.2 | 126.5 | 119.7 | 121.0 | 121.0 | 120.2 | 118.2 | 121.2 | 125.1 | 125.8 | 126.4 |
| | 23 | 131.0 | 129.0 | 130.1 | 127.0 | 125.0 | 123.2 | 122.2 | 120.8 | 123.3 | 126.0 | 126.8 | 126.7 |
| | 24 | 128.0 | 129.0 | 129.8 | 129.0 | 126.8 | 123.1 | 121.1 | 120.2 | 121.4 | 124.3 | 125.6 | 126.5 |
| | 25 | 128.2 | 124.9 | 125.2 | 121.3 | 119.5 | 124.0 | 123.8 | 123.0 | 125.1 | 126.4 | 127.7 | 127.2 |
| | 26 | 127.6 | 128.6 | 130.0 | 129.0 | 127.2 | 125.2 | 123.5 | 122.4 | 123.5 | 125.8 | 125.2 | 125.1 |
| | 27 | 128.0 | 128.3 | 130.0 | 128.8 | 127.4 | 125.5 | 126.0 | 124.2 | 122.8 | 126.0 | 125.7 | 126.0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 125.0 | 126.7 | 128.3 | 129.8 | 128.4 | 127.0 | 124.9 | 122.0 | 122.0 | 122.3 | 123.4 | 125.4 |
| | 30 | 127.4 | 125.7 | 127.9 | 128.0 | 126.8 | 125.2 | 123.2 | 123.0 | 123.9 | 124.7 | 125.8 | 125.4 |
| | 31 | 127.6 | 128.1 | 129.0 | 127.8 | 127.4 | 126.3 | 126.5 | 124.3 | 122.7 | 121.9 | 123.2 | 127.1 |
| Hourly Means | 127.07 | 127.54 | 128.69 | 128.87 | 127.39 | 125.69 | 123.37 | 122.19 | 122.30 | 123.30 | 124.04 | 125.49 | |
| FEBRUARY. | 1 | 125.0 | 124.2 | 125.0 | 127.6 | 126.2 | 120.5 | 118.6 | 118.5 | 120.7 | 118.1 | 128.7 | 124.5 |
| | 2 | 129.3 | 127.0 | 127.8 | 128.5 | 128.0 | 123.4 ^b | 113.9 | 114.6 | 121.9 | 125.1 | 127.2 | 126.0 |
| | 3 | 127.0 | 130.0 | 129.2 | 127.0 | 126.4 | 124.1 | 123.7 | 121.2 | 122.1 | 126.7 | 123.5 | 124.0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 127.2 | 126.5 | 134.1 | 131.8 | 126.9 | 120.9 | 117.4 | 118.1 | 120.6 | 115.1 | 119.7 | 125.4 |
| | 6 | 127.3 | 127.9 | 129.9 | 129.3 | 126.3 | 123.5 | 120.2 | 121.2 | 122.6 | 122.5 | 126.7 | 127.0 |
| | 7 | 128.0 | 128.2 | 127.8 | 128.2 | 124.6 | 121.0 | 120.0 ^b | 121.2 | 118.1 | 122.6 | 126.5 | 121.8 |
| | 8 | 131.0 | 135.4 | 137.1 | 129.0 | 126.0 ^c | 112.1 | 115.0 | 118.4 | 120.8 | 123.2 | 125.2 | 127.2 |
| | 9 | 128.0 | 129.0 | 128.2 | 128.0 | 126.6 | 125.0 | 123.0 | 122.0 | 123.8 ^a | 125.2 | 126.9 | 126.6 |
| | 10 | 129.5 | 129.0 | 128.2 | 128.0 | 127.1 | 126.0 | 124.4 | 124.1 | 122.8 | 122.0 | 123.3 | 124.1 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 125.8 | 127.6 | 128.0 | 127.3 | 126.8 | 125.2 | 123.1 ^a | 123.0 | 123.5 | 125.7 | 126.1 | 125.8 |
| | 13 | 128.0 | 129.0 | 128.3 | 128.6 | 128.0 | 125.0 | 124.0 | 122.5 | 124.0 | 125.6 | 126.5 | 124.9 |
| | 14 | 127.3 | 127.6 | 127.4 | 128.9 | 126.7 | 125.0 | 124.1 | 124.2 | 124.9 | 127.3 | 127.1 | 126.0 |
| | 15 | 128.1 | 130.0 | 129.0 | 128.2 | 125.0 | 122.0 | 120.1 | 121.5 | 123.6 | 124.1 ^d | 123.2 | 123.2 |
| | 16 | 128.8 | 128.3 | 128.0 | 127.6 | 124.8 | 123.8 | 123.0 | 123.6 | 125.0 | 126.2 | 126.0 | 124.8 |
| | 17 | 129.0 | 129.0 | 129.7 | 129.0 | 125.1 | 123.0 | 120.0 | 119.0 | 121.0 | 123.8 | 125.9 | 127.7 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 129.0 | 129.7 | 131.0 | 128.0 | 124.8 | 121.9 | 121.4 | 121.2 | 121.6 | 123.0 | 125.4 | 126.3 |
| | 20 | 130.5 | 129.5 | 129.9 | 129.0 | 126.7 | 125.0 | 123.0 | 122.1 | 122.2 | 124.0 | 125.2 | 125.7 |
| | 21 | 127.8 | 129.0 | 129.2 | 129.2 | 127.2 | 125.0 | 122.4 | 121.6 | 122.8 | 123.7 | 125.0 | 126.3 |
| | 22 | 130.0 | 132.0 | 132.1 | 130.4 | 127.5 | 125.2 ^a | 122.2 | 120.3 | 120.0 | 119.4 | 122.8 | 126.2 |
| | 23 | 128.2 | 129.2 | 130.7 | 128.8 | 125.8 | 124.8 | 122.4 | 122.2 | 123.2 | 124.4 | 124.8 | 124.7 |
| | 24 | 129.0 | 129.9 | 130.2 | 129.1 | 127.0 | 122.2 | 122.0 | 123.0 | 124.6 | 126.1 | 126.1 | 126.0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 129.2 | 129.0 | 129.6 | 129.0 | 127.0 | 126.7 | 124.6 | 124.6 | 123.9 | 124.1 | 126.1 | 125.9 |
| | 27 | 128.4 | 131.0 | 129.1 | 129.5 | 128.0 | 124.3 | 123.0 | 121.9 | 122.8 | 124.8 | 126.0 | 126.2 |
| | 28 | 129.0 | 130.5 | 130.0 | 130.4 | 127.2 | 128.2 | 124.0 | 124.6 | 120.0 | 120.8 | 120.8 | 112.0 |
| | 29 | 124.0 | 127.0 | 128.8 | 129.8 | 127.6 | 125.1 | 122.7 | 118.8 | 122.1 | 123.6 | 124.4 | 125.8 |
| Hourly Means | 128.18 | 129.02 | 129.53 | 128.81 | 126.53 | 123.56 | 121.53 | 121.34 | 122.34 | 123.48 | 125.16 | 124.96 | |

^a Five minutes late.

^b Two minutes late.

^c Four minutes late.

^d Three minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = $0^{\circ}.721$. Increasing numbers denote decreasing Westerly Declinations.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Sc. Div. 126.5 | Sc. Div. 127.4 | Sc. Div. 127.5 | Sc. Div. 127.5 | Sc. Div. 127.3 | Sc. Div. 126.4 | Sc. Div. 126.0 | Sc. Div. 125.8 | Sc. Div. 125.5 | Sc. Div. 126.5 | Sc. Div. 127.1 | Sc. Div. 128.0 | Sc. Div. 126.14 |
| 125.5 | 126.7 | 128.9 | 127.2 | 127.0 | 125.8 | 125.8 | 125.5 | 125.2 | 125.4 | 125.5 | 125.0 | 124.86 |
| 126.0 | 126.4 | 126.4 | 126.5 | 126.8 | 127.5 | 126.2 | 125.6 | 126.0 | 125.4 | 125.8 | 125.0 | 125.85 |
| 121.2 | 126.6 | 127.0 | 126.8 | 149.0 | 133.9 | 130.9 | 127.2 | 125.8 | 125.2 | 129.2 | 124.5 | 127.30 |
| 126.1 | 127.4 | 127.0 | 131.2 | 128.5 | 125.0 | 128.0 | 128.5 | 128.0 | 127.5 | 127.2 | 120.0 | 126.03 |
| 127.5 | 127.8 | 128.3 | 129.8 | 128.5 | 127.6 | — | — | — | — | — | — | 126.44 |
| — | — | — | — | — | — | 126.3 | 127.0 | 128.0 | 127.2 | 125.4 | 126.0 | 126.29 |
| 128.0 | 133.5 | 127.7 | 131.1 | 135.0 | 127.3 | 128.6 | 126.5 | 127.2 | 125.0 | 122.9 | 123.0 | 126.58 |
| 125.0 | 128.1 | 127.9 | 129.4 | 132.2 | 128.5 | 127.5 | 129.4 | 126.3 | 124.3 | 126.0 | 124.2 | 126.72 |
| 125.0 | 124.0 | 126.1 | 128.0 | 128.8 | 127.0 | 126.9 | 127.8 | 128.3 | 127.0 | 127.0 | 128.0 | 126.17 |
| 125.1 | 129.8 | 125.4 | 128.1 | 128.2 | 127.7 | 127.2 | 127.9 | 126.4 | 125.0 | 125.2 | 125.2 | 126.63 |
| 125.6 | 128.3 | 129.8 | 128.8 | 127.8 | 128.0 | 128.0 | 127.5 | 128.4 | 130.9 | 127.4 | 127.1 | 126.42 |
| 127.4 | 127.2 | 128.0 | 128.8 | 128.2 | 127.3 | — | — | — | — | — | — | 126.33 |
| — | — | — | — | — | — | 126.8 | 127.2 | 127.0 | 126.5 | 125.8 | 126.2 | 126.02 |
| 125.0 | 125.6 | 125.8 | 129.0 | 127.6 | 126.5 | 125.4 | 125.4 | 125.8 | 126.1 | 126.0 | 126.6 | 126.42 |
| 127.4 | 128.3 | 128.5 | 127.2 | 127.5 | 125.6 | 127.0 | 126.2 | 126.6 | 127.0 | 126.9 | 127.0 | 125.80 |
| 126.2 | 127.1 | 128.5 | 127.9 | 127.2 | 126.6 | 125.0 | 125.4 | 126.0 | 127.8 | 127.0 | 126.9 | 126.42 |
| 128.0 | 128.9 | 127.1 | 127.2 | 127.2 | 126.8 | 125.0 | 125.4 | 127.5 | 127.1 | 127.0 | 126.8 | 126.88 |
| 126.0 | 125.5 | 128.4 | 128.4 | 128.1 | 126.7 | 124.0 | 126.7 | 127.3 | 128.8 | 131.9 | 129.5 | 126.78 |
| 126.2 | 127.2 | 127.0 | 127.2 | 128.3 | 125.1 | — | — | — | — | — | — | 126.34 |
| — | — | — | — | — | — | 125.8 | 125.2 | 125.5 | 126.2 | 128.1 | 126.0 | 125.30 |
| 126.5 | 126.2 | 128.1 | 126.9 | 127.0 | 126.4 | 123.6 | 126.7 | 126.9 | 129.6 | 129.9 | 130.0 | 126.30 |
| 127.4 | 127.4 | 127.2 | 126.8 | 126.8 | 126.2 | 125.9 | 126.0 | 126.0 | 126.0 | 126.8 | 127.6 | 128.27 |
| 128.0 | 127.8 | 127.1 | 126.2 | 134.7 | 131.0 | 138.1 | 135.6 | 129.5 | 134.2 | 131.3 | 130.1 | 125.27 |
| 127.0 | 127.6 | 127.0 | 127.2 | 126.8 | 125.2 | 124.0 | 122.8 | 123.0 | 126.7 | 126.8 | 126.2 | 126.39 |
| 126.1 | 125.7 | 128.5 | 128.0 | 127.4 | 124.4 | 127.4 | 125.2 | 126.0 | 127.4 | 127.8 | 126.3 | 126.27 |
| 126.6 | 126.0 | 126.5 | 126.2 | 125.9 | 126.5 | — | 126.2 ^a | 125.2 | 125.0 | 126.8 | 124.5 | 126.17 |
| — | — | — | — | — | — | — | — | — | — | — | — | 126.39 |
| 126.1 | 128.7 | 126.4 | 126.7 | 127.1 | 128.1 | 127.0 | 127.5 | 127.2 | 127.0 | 127.0 | 124.0 | 127.49 |
| 124.8 | 125.1 | 126.2 | 126.5 | 129.0 | 130.4 | 128.2 | 125.6 | 123.9 | 127.8 | 128.5 | 128.1 | — |
| 127.8 | 127.0 | 127.5 | 127.6 | 126.1 | 128.0 | 129.8 | 129.0 | 127.0 | 131.4 | 132.3 | 134.4 | — |
| 126.22 | 127.31 | 127.40 | 127.86 | 129.04 | 127.24 | 127.09 | 125.84 | 126.50 | 127.19 | 127.35 | 126.54 | 126.35 |
| 125.4 | 127.5 | 128.0 | 127.0 | 128.7 | 128.9 | 129.0 | 127.2 | 128.0 | 128.0 | 128.9 | 126.2 | 125.43 |
| 135.8 | 126.0 | 129.2 | 128.7 | 130.5 | 100.6 | 137.0 | 128.8 | 124.4 | 129.5 | 126.2 | 127.0 | 125.68 |
| 128.0 | 126.2 | 128.0 | 131.7 | 128.2 | 125.5 | — | — | — | — | — | — | 126.00 |
| — | — | — | — | — | — | 124.5 | 123.5 | 123.8 | 124.2 | 127.5 | 128.1 | 125.58 |
| 122.3 | 128.1 | 129.3 | 130.8 | 133.1 | 131.7 | 134.3 | 125.7 | 122.4 | 120.7 | 120.6 | 131.3 | 126.10 |
| 127.2 | 126.8 | 130.0 | 128.2 | 126.4 | 127.0 | 127.3 | 123.6 | 120.2 | 129.5 | 127.2 | 128.6 | 125.18 |
| 121.9 | 124.8 | 124.5 | 127.5 | 127.0 | 126.0 | 125.0 | 126.0 | 125.8 | 124.5 | 129.2 | 134.0 | 126.28 |
| 127.5 | 127.4 | 132.8 | 131.5 | 126.7 | 125.4 | 126.0 | 125.5 | 126.2 | 127.4 | 127.0 | 127.0 | 126.88 |
| 126.5 | 127.0 | 127.5 | 128.2 | 131.3 | 127.4 | 125.0 | 127.2 | 124.8 | 129.1 | 127.6 | 131.2 | 126.63 |
| 142.3 | 123.7 | 128.7 | 127.2 | 127.0 | 126.5 | — | — | — | — | — | — | 126.33 |
| — | — | — | — | — | — | 125.4 | 127.1 | 126.8 | 124.0 | 125.1 | 126.8 | 126.53 |
| 126.0 | 126.0 | 126.0 | 127.3 | 129.2 | 126.0 | 127.2 | 127.0 | 126.1 | 128.0 | 127.0 | 128.1 | 127.57 |
| 127.8 | 125.9 | 126.1 | 126.1 | 126.7 | 126.2 | 126.8 | 128.0 | 127.1 | 127.0 | 127.5 | 127.0 | 125.77 |
| 126.0 | 126.2 | 127.1 | 127.1 | 128.0 | 126.5 | 127.0 | 129.1 | 130.3 | 130.7 | 133.3 | 133.8 | 126.09 |
| 125.0 | 126.2 | 127.0 | 127.0 | 127.0 | 126.4 | 126.4 | 125.2 | 127.2 | 127.5 | 127.6 | 128.0 | 126.51 |
| 124.3 | 125.0 | 125.2 | 126.8 | 125.4 | 125.0 | 125.0 | 126.2 | 127.5 | 127.5 | 127.5 | 130.8 | 126.03 |
| 126.5 | 130.7 | 129.9 | 131.0 | 128.5 | 125.6 | — | — | — | — | — | — | 126.45 |
| — | — | — | — | — | — | 126.0 | 126.2 | 126.5 | 127.2 | 127.0 | 129.0 | 126.45 |
| 126.7 | 127.0 | 127.0 | 125.5 | 128.0 | 127.0 | 125.8 | 125.5 | 127.2 | 127.0 | 126.5 | 128.4 | 126.65 |
| 126.3 | 126.9 | 127.0 | 128.6 | 128.0 | 128.0 | 126.2 | 125.9 | 125.0 | 127.3 | 127.8 | 125.0 | 126.52 |
| 126.1 | 126.0 | 125.8 | 126.6 | 127.4 | 127.5 | 127.4 | 125.6 | 128.2 | 129.1 | 130.2 | 130.5 | 126.27 |
| 126.2 | 126.6 | 127.4 | 127.0 ^d | 127.2 | 127.0 | 126.8 | 127.6 | 128.0 | 127.5 | 129.1 | 128.0 | 126.68 |
| 125.2 | 125.5 | 126.2 | 125.5 | 126.2 | 127.0 | 126.8 | 127.0 | 127.0 | 128.0 | 128.8 | 128.1 | 126.89 |
| 125.5 | 126.0 | 127.0 | 127.2 | 127.0 | 130.6 | — | — | — | — | — | — | 126.48 |
| — | — | — | — | — | — | 127.0 | 125.6 | 126.0 | 128.2 | 127.0 | 128.0 | 127.74 |
| 125.5 | 125.2 | 126.5 | 126.3 | 126.2 | 128.0 | 128.2 | 128.6 | 128.5 | 127.8 | 129.4 | 125.5 | 125.56 |
| 126.0 | 126.0 | 126.2 | 126.4 | 126.8 | 126.8 | 127.0 | 127.0 | 127.2 | 128.1 | 125.0 | 128.0 | — |
| 124.6 | 125.3 | 126.7 | 125.6 | 164.0 | 131.0 | 134.0 | 128.0 | 127.1 | 127.0 | 126.0 | 129.0 | — |
| 125.2 | 126.0 | 126.0 | 126.2 | 124.0 | 127.2 | 126.0 | 126.0 | 126.4 | 126.2 | 127.0 | 127.6 | — |
| 126.79 | 126.32 | 127.40 | 127.64 | 129.14 | 126.19 | 127.48 | 126.52 | 126.31 | 127.24 | 127.44 | 128.60 | 126.31 |

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 128.2 | 129.0 | 129.8 | 128.7 | 125.6 | 122.7 | 119.9 | 120.0 | 121.1 | 123.1 | 124.0 | 124.0 |
| | 2 | 133.5 | 130.2 | 131.5 | 126.1 | 126.8 | 121.9 | 119.0 | 118.0 | 118.0 | 115.8 | 120.0 | 118.5 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 131.6 | 125.5 | 131.0 | 129.3 | 125.7 | 126.3 | 120.4 | 119.1 | 120.1 | 122.8 | 121.5 | 126.0 |
| | 5 | 131.0 | 129.0 | 129.1 | 127.0 | 127.0 ^a | 124.5 | 120.5 | 119.2 | 122.0 | 122.9 | 118.2 | 128.4 |
| | 6 | 113.5 | 125.0 | 122.3 | 120.0 | 115.3 | 121.3 | 118.1 | 118.7 | 121.6 | 124.8 | 125.4 | 125.2 |
| | 7 | 127.0 | 131.3 | 128.1 | 124.5 | 120.6 | 122.4 | 119.7 | 120.0 | 114.9 | 120.8 | 125.4 | 135.2 |
| | 8 | 130.2 | 131.1 | 132.5 | 131.4 | 130.8 | 124.6 | 121.0 | 116.5 | 120.9 | 121.8 | 133.0 | 125.7 |
| | 9 | 126.4 | 130.0 | 130.0 | 130.0 | 127.6 | 123.0 | 121.1 | 121.9 | 121.1 | 119.8 | 121.9 | 125.4 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 129.0 | 131.0 | 131.3 | 131.7 | 131.0 | 127.5 | 124.5 | 122.3 | 122.6 | 122.0 | 121.0 | 122.1 |
| | 12 | 127.0 | 126.1 | 126.0 | 129.9 | 126.6 | 122.0 ^b | 118.0 | 119.8 | 121.0 | 121.9 | 122.8 | 122.1 |
| | 13 | 128.0 | 129.0 | 129.4 | 130.4 | 128.1 | 123.5 | 121.0 | 121.0 | 120.6 | 122.1 | 122.5 | 124.0 |
| | 14 | 128.0 | 130.2 | 131.3 | 131.3 | 127.8 | 125.0 | 123.2 | 123.2 | 123.8 | 122.9 | 123.0 | 124.2 |
| | 15 | 128.4 | 126.6 | 125.9 | 127.8 | 125.5 | 122.1 | 119.7 | 119.5 | 121.8 | 123.0 | 124.0 | 124.5 |
| | 16 | 128.8 | 129.0 | 121.4 | 130.2 | 126.5 | 122.8 | 119.2 | 119.1 | 120.4 | 122.0 | 124.4 | 125.8 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 129.2 | 130.3 | 133.0 | 135.1 | 132.0 | 127.5 | 122.2 | 118.5 | 117.4 | 118.7 | 119.9 | 118.2 ^d |
| | 19 | 132.0 | 132.5 | 133.9 | 133.0 | 129.8 | 125.0 | 120.5 | 119.2 | 118.8 | 119.5 | 121.6 | 123.8 |
| | 20 | 129.2 | 131.2 | 131.0 | 130.0 | 128.0 | 124.0 | 120.0 | 118.6 | 118.0 | 118.8 | 120.3 | 123.8 |
| | 21 | 130.0 | 131.0 | 132.7 | 132.2 | 129.5 | 124.6 | 121.2 | 118.5 | 118.0 | 119.1 | 120.7 | 123.8 |
| | 22 | 123.0 | 131.8 | 133.7 | 133.3 | 128.2 | 124.0 | 119.8 | 117.9 | 116.6 | 117.7 | 120.4 | 121.5 |
| | 23 | 130.0 | 131.2 | 132.4 | 131.9 | 130.0 | 125.8 | 122.1 | 120.1 | 118.8 | 120.2 | 121.8 | 123.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 130.0 | 131.0 | 132.0 | 134.0 | 130.0 | 124.0 | 121.0 | 120.1 | 118.0 | 117.2 | 119.4 | 122.2 |
| | 26 | 129.0 | 131.0 | 131.7 | 130.8 | 127.0 | 123.5 | 121.5 | 120.8 | 120.8 | 121.0 | 121.2 | 122.9 ^f |
| | 27 | 128.0 | 129.5 | 131.0 | 130.2 | 129.5 | 124.2 | 121.0 | 114.1 | 114.6 | 115.1 | 118.1 | 121.0 |
| | 28 | 129.6 | 132.0 | 131.2 | 128.8 | 126.0 | 125.2 | 120.3 | 116.3 | 115.9 | 120.1 | 122.0 | 123.8 |
| | 29 | 131.9 | 133.5 | 130.7 | 132.5 | 125.9 | 124.0 | 122.0 | 121.0 | 121.8 | 119.0 | 114.0 | 114.3 |
| | 30 | 114.0 | 126.6 | 134.2 | 127.4 | 128.4 | 123.0 | 116.6 | 124.2 | 119.5 | 129.7 | 121.4 | 130.8 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 127.94 | 129.79 | 130.27 | 129.90 | 127.28 | 124.02 | 120.52 | 119.52 | 119.54 | 120.84 | 121.84 | 123.88 | |
| APRIL. | 1 | 125.4 | 122.2 | 125.9 | 126.6 | 123.1 | 120.6 | 116.6 | 114.1 | 119.8 | 118.8 | 121.7 ^d | 120.3 |
| | 2 | 131.0 | 132.8 | 133.5 | 133.9 | 130.6 | 124.0 | 119.3 | 119.7 | 117.1 | 119.8 | 119.7 | 122.3 |
| | 3 | 133.4 | 132.2 | 134.1 | 133.9 | 122.8 | 116.3 | 113.1 | 118.9 | 119.0 | 120.1 | 123.4 | 124.0 |
| | 4 | 125.2 | 127.5 | 132.9 | 133.0 | 130.6 | 128.8 | 124.8 | 120.4 | 119.5 | 118.2 | 119.2 | 121.2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 129.2 | 130.0 | 131.6 | 131.8 | 129.4 | 127.0 | 123.6 | 120.8 | 118.1 | 118.9 | 125.4 | 123.8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 128.1 | 129.0 | 130.6 | 128.1 | 127.0 | 124.2 | 122.4 | 120.7 | 118.6 | 118.0 | 118.4 | 120.1 |
| | 9 | 128.7 | 130.8 | 130.0 | 129.0 | 126.0 ^a | 123.6 | 122.6 | 120.2 | 118.9 | 118.4 ^a | 119.4 | 121.4 |
| | 10 | 132.2 | 130.8 | 133.0 | 127.8 | 128.3 | 124.0 | 121.0 | 118.2 | 118.0 | 120.6 | 121.9 | 123.7 |
| | 11 | 130.5 | 131.1 | 130.7 | 128.7 | 124.0 | 120.0 | 118.0 | 116.4 | 118.2 | 121.6 | 121.8 | 123.7 |
| | 12 | 132.1 | 133.0 | 131.0 | 127.0 | 122.0 | 117.0 | 115.2 | 115.6 | 117.4 | 119.8 | 121.3 | 123.7 |
| | 13 | 130.1 | 132.0 | 133.0 | 130.4 | 126.2 | 120.8 ^c | 118.8 | 118.0 | 116.8 | 118.9 | 121.5 | 124.0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 130.3 | 128.0 | 125.0 | 125.0 | 124.3 | 121.5 | 119.2 | 118.0 | 118.3 | 118.9 | 121.9 | 122.0 |
| | 16 | 129.2 | 129.8 | 130.3 | 129.5 | 124.0 | 117.0 | 114.0 | 115.6 | 118.1 | 121.2 | 123.4 | 125.6 |
| | 17 | 111.8 | 93.1 | 108.2 | 126.7 | 118.5 | 114.4 | 111.1 | 109.0 | 107.3 | 111.4 | 116.6 | 112.5 |
| | 18 | 135.0 | 136.0 | 134.5 | 133.4 | 128.6 | 125.0 | 123.2 | 119.9 | 119.3 | 119.7 | 118.1 | 123.8 |
| | 19 | 129.9 | 131.2 | 131.0 | 129.2 | 128.0 | 123.1 | 117.7 | 116.8 | 117.2 | 118.6 | 120.7 | 122.8 |
| | 20 | 127.0 | 130.1 | 133.1 | 130.4 | 128.0 | 125.5 | 121.1 | 119.0 | 118.1 | 119.6 | 121.8 | 123.0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 127.0 | 129.0 | 130.7 | 129.3 | 124.2 | 120.4 | 118.3 | 116.2 | 117.0 | 117.4 | 119.4 | 122.0 |
| | 23 | 126.0 | 128.5 | 130.9 | 126.6 | 125.0 | 121.9 | 120.1 | 117.6 | 117.3 | 118.3 | 118.8 | 120.0 |
| | 24 | 130.0 | 131.0 | 131.9 | 132.0 | 127.9 | 121.8 | 119.2 | 116.8 | 117.7 | 118.8 | 121.2 | 122.3 |
| | 25 | 127.0 | 129.1 | 122.8 | 117.0 | 117.7 | 121.0 | 118.7 | 117.1 | 115.2 | 117.7 | 119.0 | 120.6 |
| | 26 | 119.0 | 123.0 | 133.0 | 131.9 | 130.2 | 117.6 | 113.9 | 119.1 | 117.2 | 121.6 | 122.4 | 123.0 |
| | 27 | 124.0 | 127.3 | 128.6 | 126.2 | 123.8 | 120.9 | 121.5 | 119.3 | 121.2 | 122.4 | 119.9 | 132.4 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 133.0 | 129.0 | 125.8 | 125.7 | 122.1 | 118.0 | 117.0 | 117.8 | 116.9 | 119.4 | 120.8 | 122.6 |
| | 30 | 124.0 | 122.8 | 128.2 | 127.3 | 123.8 | 120.0 | 118.0 | 116.2 | 117.7 | 117.1 | 119.8 | 121.1 |
| Hourly Means | 127.99 | 127.97 | 129.61 | 128.82 | 125.44 | 121.38 | 118.74 | 117.66 | 117.60 | 119.01 | 120.70 | 122.48 | |

^a Two minutes late.

^b Thirty-eight minutes late.

^c Three minutes late.

^d Five minutes late.

^e Ten minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer. = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|--------------------|----------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 124.0 | 122.5 | 125.0 | 124.4 | 127.5 | 126.6 | 125.5 | 126.2 | 129.3 | 120.5 | 132.7 | 129.6 | 125.41 |
| 121.3 | 130.5 | 126.0 | 125.9 | 133.4 | 125.0 | — | — | — | — | — | — | 124.56 |
| — | — | — | — | — | — | 129.2 | 123.5 | 122.2 | 119.2 | 126.0 | 128.0 | 126.42 |
| 125.1 | 125.5 | 131.7 | 138.6 | 144.6 | 130.9 | 119.4 | 128.2 | 129.8 | 124.3 | 134.0 | 130.0 | 127.56 |
| 126.4 | 136.7 | 139.6 | 134.0 | 133.8 | 135.9 | 128.8 | 127.5 | 127.8 | 126.5 | 128.0 | 116.1 | 127.50 |
| 123.0 | 128.1 | 126.8 | 125.9 | 128.0 | 133.4 | 134.0 | 141.2 | 130.2 | 123.1 | 127.7 | 127.9 | 125.02 |
| 129.5 | 130.4 | 129.5 | 147.0 | 148.1 | 129.5 | 118.5 | 126.5 | 128.0 | 129.0 | 132.2 | 130.5 | 127.86 |
| 126.9 | 126.2 | 143.2 | 132.1 | 125.1 | 123.8 | 120.2 | 126.0 | 126.0 | 125.2 | 124.0 | 127.0 | 126.88 |
| 124.0 | 128.1 | 126.1 | 125.6 | 127.0 | 132.7 | — | — | — | — | — | — | 126.00 |
| — | — | — | — | — | — | 128.0 ^b | 125.0 | 126.7 | 129.5 | 126.8 | 126.2 | 126.00 |
| 123.0 | 124.4 | 125.5 | 126.1 | 125.2 | 125.4 | 125.8 | 126.0 | 126.0 | 127.1 | 126.2 | 126.2 | 125.95 |
| 128.5 | 124.0 | 125.6 | 125.0 | 125.8 | 125.8 | 128.0 | 125.2 | 126.3 | 127.4 | 127.5 | 128.1 | 125.02 |
| 123.6 | 124.5 | 125.0 | 125.4 | 125.4 | 125.6 | 126.0 | 126.0 | 126.4 | 127.2 | 125.6 | 127.0 | 125.30 |
| 124.4 | 123.9 | 124.6 | 125.8 | 125.4 | 126.3 | 126.1 | 126.2 | 125.8 | 129.9 | 128.0 | 128.1 | 126.18 |
| 124.2 | 125.3 | 125.3 | 126.0 | 125.6 | 126.0 | 126.5 | 126.4 | 127.2 | 127.0 | 127.8 | 127.0 | 125.13 |
| 125.0 | 125.6 | 125.8 | 125.4 | 124.8 | 125.6 | — | — | — | — | — | — | 125.02 |
| — | — | — | — | — | — | 124.9 | 125.4 | 124.7 | 127.2 | 127.6 | 129.0 | 126.07 |
| 122.8 | 124.4 | 126.1 | 127.1 | 131.0 | 128.5 | 126.0 | 130.2 | 132.4 | 121.3 | 124.0 | 130.0 ^c | 126.52 |
| 124.5 | 125.0 | 126.1 | 126.5 | 127.4 | 139.1 | 123.2 | 125.2 | 128.0 | 127.3 | 126.7 | 128.0 | 125.87 |
| 126.1 | 127.2 | 126.8 | 126.0 | 126.1 | 126.4 | 133.4 | 130.9 | 126.2 | 125.6 | 125.3 | 128.0 | 125.71 |
| 124.2 | 125.2 | 125.8 | 125.9 | 126.8 | 127.6 | 126.4 | 128.0 | 122.3 | 125.6 | 131.0 | 127.0 | 125.57 |
| 124.1 | 124.8 | 125.2 | 125.0 | 127.8 | 128.5 | 128.1 | 128.0 | 129.2 | 127.3 | 129.0 | 128.7 | 126.02 |
| 124.2 | 125.6 | 124.9 | 126.0 | 125.8 | 125.8 | — | — | — | — | — | — | 125.61 |
| — | — | — | — | — | — | 126.4 | 127.6 | 127.8 | 127.4 | 127.0 | 127.8 | 125.41 |
| 124.5 | 126.0 | 125.4 | 126.0 | 126.8 | 126.1 | 126.0 | 126.7 | 126.8 | 127.0 | 127.0 | 127.5 | 124.81 |
| 124.3 | 123.8 | 124.1 | 124.9 | 125.2 | 125.2 | 126.3 | 126.0 | 127.0 | 127.5 | 127.4 | 127.0 | 126.11 |
| 122.0 | 132.2 | 125.6 | 125.0 | 125.6 | 126.0 | 125.2 | 127.8 | 126.7 | 130.0 | 129.6 | 123.5 | 129.49 |
| 125.0 | 125.0 | 125.5 | 124.8 | 124.1 | 126.6 | 129.9 | 130.3 | 133.5 | 132.2 | 125.1 | 133.5 | 126.53 |
| 110.3 | 126.3 | 172.1 | 140.2 | 144.5 | 132.3 | 89.2 | 156.7 | 146.4 | 111.4 | 141.2 | 146.5 | 126.04 |
| 125.8 | 125.0 | 129.7 | 140.0 | 128.3 | 128.7 | — | — | — | — | — | — | 126.07 |
| — | — | — | — | — | — | 132.0 | 130.2 | 124.8 | 124.0 | 125.2 | 127.2 | 126.04 |
| 124.10 | 126.39 | 129.12 | 128.64 | 129.20 | 128.20 | 125.12 | 128.73 | 127.98 | 125.76 | 128.18 | 128.28 | 126.07 |
| 121.7 | 125.3 | 128.7 | 145.2 | 125.0 | 123.0 | 133.5 | 131.4 | 129.2 | 126.0 | 120.2 | 126.1 | 124.66 |
| 124.1 | 122.7 | 124.7 | 125.0 | 137.2 | 134.0 | 125.5 | 128.1 | 129.4 | 126.1 | 128.0 | 124.0 | 126.35 |
| 127.6 | 125.0 | 124.9 | 134.1 | 141.6 | 131.2 | 129.0 | 131.0 | 127.6 | 120.6 | 121.6 | 125.0 | 126.27 |
| 129.7 | 125.1 | 127.9 | 130.3 | 127.9 | 131.1 | — ^h | — | — | — | — | — | 126.45 |
| — | — | — | — | — | — | 118.6 | 127.7 | 130.1 | 129.4 | 128.6 | 127.0 | 126.64 |
| 122.4 | 126.2 | 129.0 | 128.2 | 132.4 | 133.2 | — | — | — | — | — | — | 125.00 |
| — | — | — | — | — | — | 125.0 | 125.0 | 126.4 | 128.0 | 126.8 | 127.2 | 125.12 |
| 122.0 | 122.5 | 132.0 | 124.0 | 127.5 | 126.8 | 126.0 | 126.2 | 126.6 | 127.0 | 127.0 | 127.3 | 125.08 |
| 122.5 | 123.5 | 124.8 | 124.1 | 124.8 | 125.5 | 125.8 | 125.7 | 126.0 | 129.4 | 130.9 | 130.8 | 125.23 |
| 125.8 | 120.9 | 124.0 | 124.8 | 127.2 | 127.0 | 126.3 | 121.3 | 124.0 | 126.0 | 125.6 | 129.4 | 124.22 |
| 125.0 | 124.6 | 124.4 | 124.2 | 124.5 | 133.4 | 129.9 | 125.1 | 127.0 | 125.5 | 128.0 | 129.2 | 125.41 |
| 125.0 | 124.4 | 124.2 | 124.8 | 124.1 | 124.7 | 125.2 | 125.9 | 126.1 ^a | 126.3 | 127.6 | 127.8 | 123.75 |
| 125.2 | 124.2 | 124.4 | 125.0 | 124.0 | 125.1 | — | — | — | — | — | — | 130.19 |
| — | — | — | — | — | — | 129.5 | 127.8 | 129.2 | 127.8 | 128.2 | 129.0 | 117.91 |
| 122.5 | 122.0 | 124.8 | 124.7 | 124.7 | 124.0 | 124.7 | 125.0 | 125.5 | 126.0 | 126.8 | 127.0 | 125.47 |
| 125.8 | 124.2 | 129.7 | 130.1 | 126.3 | 132.4 | 138.0 | 140.0 | 160.1 | 170.9 | 161.0 | 108.4 | 124.42 |
| 113.1 | 120.0 | 114.8 | 122.0 | 126.0 | 124.0 | 124.0 | 125.6 | 124.8 | 128.1 | 133.0 | 133.9 | 124.98 |
| 121.4 | 122.0 | 124.0 | 123.7 | 124.0 | 124.5 | 125.3 | 125.9 | 125.7 | 125.8 | 125.4 | 127.0 | 123.62 |
| 124.0 | 123.8 | 124.7 | 125.0 | 124.1 | 125.5 | 124.9 | 125.0 | 124.5 | 126.4 | 127.4 | 124.6 | 123.82 |
| 124.4 | 124.8 | 124.5 | 124.8 | 125.0 | 125.0 | — | — | — | — | — | — | 124.78 |
| — | — | — | — | — | — | 125.8 | 123.6 | 127.0 | 126.1 | 125.8 | 126.0 | 125.08 |
| 123.0 | 123.8 | 123.8 | 124.5 | 124.2 | 124.5 | 124.7 | 124.5 | 125.0 | 125.0 | 126.0 | 126.0 | 126.07 |
| 121.5 | 121.6 | 123.0 | 123.0 | 128.2 | 124.8 | 129.0 | 124.6 | 124.2 | 125.0 | 126.8 | 129.0 | 123.75 |
| 123.0 | 123.0 | 123.3 | 123.0 | 123.5 | 130.9 | 120.1 | 127.9 | 125.5 | 126.3 | 128.2 | 129.5 | 124.14 |
| 118.1 | 121.3 | 122.0 | 124.6 | 127.0 | 135.8 | 126.1 | 128.9 | 127.6 | 125.8 | 128.5 | 131.0 | 124.87 |
| 123.3 | 139.9 | 128.0 | 126.9 | 134.1 | 130.8 | 125.7 | 116.0 | 124.7 | 127.6 | 127.0 | 126.0 | 123.32 |
| 122.8 | 122.5 | 135.6 | 126.2 | 129.3 | 135.4 | — | — | — | — | — | — | 125.08 |
| — | — | — | — | — | — | 126.5 | 124.2 | 127.0 | 131.6 | 126.4 | 130.0 | 126.07 |
| 122.4 | 123.7 | 123.3 | 125.2 | 129.0 | 127.2 | 124.9 | 124.1 | 123.8 | 125.0 | 125.9 | 127.5 | 123.75 |
| 129.6 | 127.5 | 132.0 | 133.0 | 130.5 | 125.6 | 125.0 | 124.4 | 127.0 | 119.2 | 120.5 | 129.0 | 124.14 |
| 123.44 | 124.18 | 125.70 | 126.66 | 127.68 | 128.22 | 126.36 | 126.20 | 127.76 | 128.04 | 128.09 | 127.11 | 124.87 |

^f Six minutes late.

^g Five minutes late.

^h Good Friday.

ⁱ (To be late.)

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|-------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | 1 | 131.0 | 131.9 | 133.9 | 131.0 | 125.4 | 122.4 | 120.6 | 118.0 | 118.2 | 118.6 | 117.3 | 117.8 |
| | 2 | 127.0 | 131.2 | 130.0 | 128.2 | 125.0 | 122.8 | 116.9 | 114.8 | 114.5 | 116.0 | 118.1 | 122.7 |
| | 3 | 131.0 | 133.7 | 135.0 | 132.0 | 126.6 | 118.6 | 116.9 | 114.2 | 113.0 | 115.4 | 119.2 | 122.0 |
| | 4 | 130.2 | 131.2 | 132.8 | 132.0 | 128.4 | 124.0 | 120.6 | 117.4 | 116.0 | 117.2 | 119.7 | 121.3 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 131.0 | 130.0 | 130.1 | 131.8 | 125.0 | 123.1 | 118.0 | 112.6 | 115.3 | 116.1 | 118.8 | 121.5 |
| | 7 | 128.0 | 129.0 | 130.0 | 127.9 | 123.3 | 120.2 | 119.0 | 117.0 | 116.2 | 116.8 | 119.3 | 123.4 |
| | 8 | 133.8 | 132.3 | 125.8 | 125.9 | 123.6 ^a | 121.5 | 115.3 | 116.2 | 114.8 | 114.0 | 115.0 | 120.4 |
| | 9 | 131.7 | 132.1 | 135.2 | 131.6 | 128.9 | 125.6 ^b | 122.9 | 121.2 | 120.9 | 121.6 | 122.1 | 122.5 |
| | 10 | 128.0 | 130.0 | 129.2 | 130.4 | 125.2 | 119.2 | 118.3 | 118.9 | 117.5 | 118.5 | 120.4 | 122.1 |
| | 11 | 127.0 | 129.0 | 127.0 | 124.1 | 120.3 | 119.0 | 117.4 | 117.4 | 118.8 | 120.8 | 121.9 | 123.1 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 132.0 | 132.2 | 132.1 | 130.0 | 127.9 | 120.6 | 117.0 | 122.8 | 117.8 | 119.4 | 121.5 | 122.8 |
| | 14 | 129.5 | 135.5 | 135.8 | 133.5 | 124.8 | 122.2 | 119.5 | 115.8 | 116.6 | 118.8 | 121.6 | 123.0 |
| | 15 | 132.0 | 133.5 | 132.0 | 130.4 | 125.0 | 123.0 | 116.0 | 113.8 | 114.3 | 117.8 | 122.0 | 127.5 |
| | 16 | 132.9 | 133.4 | 132.0 | 129.0 | 123.2 | 119.0 | 117.0 | 116.0 | 117.8 | 119.3 | 123.0 | 123.8 |
| | 17 | 136.8 | 133.0 | 132.6 | 130.7 | 126.7 | 121.1 | 117.0 | 115.2 | 114.9 | 117.2 ^d | 119.7 | 123.0 |
| | 18 | 128.9 | 130.0 | 130.0 | 128.2 | 126.6 | 124.0 | 121.6 | 121.1 | 117.9 | 119.8 | 121.8 | 123.4 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 131.0 | 132.0 | 132.1 | 131.0 | 127.9 | 124.0 | 119.1 | 118.8 | 118.4 | 119.8 | 120.6 | 121.8 |
| | 21 | 129.0 | 132.0 | 134.4 | 131.6 | 129.0 | 124.0 | 120.0 | 116.3 | 115.1 | 114.6 | 118.4 | 123.6 |
| | 22 | 135.0 | 128.8 | 130.0 | 134.5 | 129.0 | 131.1 | 122.0 | 116.9 | 114.8 | 112.9 | 110.0 | 118.3 |
| | 23 | 128.6 | 130.0 | 131.2 | 129.8 | 127.8 | 123.1 | 119.1 | 119.0 | 121.3 | 120.0 | 121.0 | 122.7 |
| | 24 | 133.0 | 131.3 | 128.8 | 127.2 | 124.5 | 120.1 | 120.3 | 112.0 | 112.8 | 114.9 | 122.0 | 119.4 |
| | 25 | 128.4 | 130.4 | 129.9 | 127.2 | 123.6 | 121.1 | 115.4 | 115.9 | 118.5 | 118.0 | 120.3 | 121.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 130.5 | 131.2 | 128.3 | 125.8 | 120.0 | 116.0 | 115.1 | 115.7 | — | — | 117.1 ^d | 119.0 |
| | 28 | 130.0 | 131.5 | 131.3 | 129.4 | 124.6 | 119.0 | 115.0 | 113.7 | 113.1 | 115.3 | 119.2 | 122.8 |
| | 29 | 129.5 | 131.0 | 131.5 | 128.3 | 125.0 | 120.9 | 115.8 | 112.9 | 112.5 | 115.0 | 118.2 | 120.0 |
| | 30 | 131.7 | 131.5 | 130.8 | 129.2 | 124.7 | 122.1 | 117.5 | 116.0 | 116.2 | 117.5 | 120.1 | 121.6 |
| | 31 | 129.1 | 131.0 | 130.5 | 128.8 | 125.5 | 121.4 | 117.0 | 114.5 | 113.0 | 113.7 | 116.5 | 119.2 |
| Hourly Means | 130.39 | 131.43 | 131.20 | 129.61 | 125.46 | 121.82 | 118.16 | 116.45 | 116.16 | 117.27 | 119.44 | 121.84 | |
| JUNE. | 1 | 132.0 | 135.4 | 130.7 | 128.0 | 124.1 | 119.4 | 115.5 | 110.9 | 112.0 | 114.8 | 117.9 | 118.0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 129.0 | 128.0 | 132.0 | 129.1 | 125.9 | 121.1 | 119.8 | 115.5 | 115.0 | 115.0 | 117.2 | 120.3 |
| | 4 | 129.3 | 131.0 | 133.7 | 130.1 | 127.0 | 122.8 | 118.6 | 117.8 | 116.8 | 117.4 | 117.0 | 121.2 |
| | 5 | 126.0 | 129.2 | 126.4 | 130.0 | 125.0 | 120.7 | 116.1 | 115.0 ^h | 118.2 | 119.4 | 117.0 | 121.0 |
| | 6 | 128.8 | 131.0 | 131.2 | 128.3 | 124.9 | 121.1 | 119.3 | 117.4 | 116.8 | 117.0 | 118.1 | 119.9 |
| | 7 | 127.4 | 130.4 | 129.5 | 127.0 | 122.0 | 117.6 | 115.4 | 116.0 | 118.1 | 119.0 | 119.6 | 121.0 |
| | 8 | 129.7 | 130.1 | 128.1 | 127.1 | 125.1 | 119.2 | 115.0 | 114.1 | 115.4 | 118.3 | 119.2 | 119.8 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 123.4 | 129.8 | 131.4 | 128.0 | 123.1 | 117.1 ^a | 116.4 | 113.0 | 114.0 | 116.1 | 119.3 | 121.7 |
| | 11 | 132.1 | 133.9 | 132.8 | 130.4 | 127.1 | 123.8 ^d | 117.2 | 115.9 | 117.2 | 120.8 | 121.7 ^d | 123.7 |
| | 12 | 132.4 | 132.8 | 132.0 | 129.6 | 124.1 | 121.6 | 119.3 | 114.9 | 116.1 | 118.1 | 121.0 | 122.3 |
| | 13 | 135.5 | 137.8 | 136.8 | 131.3 | 124.2 | 119.1 | 115.7 | 112.5 | 114.0 | 115.2 | 119.6 | 121.3 |
| | 14 | 128.8 | 133.5 | 135.5 | 131.2 | 126.0 | 120.2 | 114.9 | 113.1 | 114.2 | 117.1 | 120.9 | 123.3 |
| | 15 | 129.9 | 130.0 | 129.2 | 129.0 | 124.5 | 121.5 | 119.1 | 117.8 | 116.1 | 118.4 | 120.8 | 124.8 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 135.0 | 127.6 | 132.3 | 126.9 | 122.3 | 113.9 | 113.2 | 112.1 | 116.0 | 114.1 | 118.0 | 120.8 |
| | 18 | 136.2 | 130.5 | 133.0 | 128.9 | 135.2 | 121.5 | 115.3 | 113.5 | 114.5 | 115.8 | 116.4 | 119.2 |
| | 19 | 128.5 | 129.0 | 129.9 | 128.0 | 123.1 | 119.0 | 114.9 | 113.8 | 115.0 | 115.2 | 116.9 | 120.1 |
| | 20 | 130.0 | 130.5 | 131.0 | 129.2 | 125.4 | 121.5 | 116.7 | 115.8 | 112.3 | 115.1 | 118.9 | 123.1 |
| | 21 | 133.8 | 134.7 | 130.9 | 130.3 | 125.2 | 119.8 | 115.0 | 113.2 | 113.2 ^k | 111.4 | 116.2 | 117.5 |
| | 22 | 131.0 | 132.6 | 131.5 | 129.6 | 126.2 | 121.6 | 117.2 | 117.0 | 115.8 | 118.0 | 118.0 | 119.5 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 130.8 | 130.5 | 129.7 | 128.0 | 122.0 | 115.5 | 113.0 | 113.8 | 114.9 | 115.0 | 117.7 | 120.0 |
| | 25 | 129.4 | 129.6 | 130.0 | 127.4 | 123.0 | 119.2 | 115.0 | 115.2 | 117.0 | 118.2 | 118.9 | 120.0 |
| | 26 | 129.2 | 129.8 | 127.3 | 125.6 | 123.6 | 117.0 | 114.4 | 114.3 | 113.2 | 115.3 | 116.5 | 120.1 |
| | 27 | 129.7 | 132.0 | 131.1 | 127.5 | 124.4 | 119.7 | 116.9 | 116.8 | 117.2 | 119.8 | 121.2 | 122.0 |
| | 28 | 131.2 | 134.1 | 133.6 | 131.2 | 123.8 | 119.2 | 115.2 | 112.9 | 111.9 | 113.1 | 118.0 | 120.2 |
| | 29 | 127.3 | 134.0 | 133.0 | 132.7 | 123.9 | 117.8 | 112.6 | 111.7 | 117.7 | 120.2 | 124.0 | 124.3 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 130.26 | 131.51 | 131.30 | 128.98 | 124.84 | 119.64 | 116.07 | 114.56 | 115.30 | 116.71 | 118.80 | 121.00 | |

^a Three minutes late. ^b Fifteen minutes late. ^c Seven minutes late. ^d Two minutes late. ^e Twenty minutes late. ^f Nine minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 121.2 | Sc. Div. 121.1 | Sc. Div. 123.4 | Sc. Div. 125.7 | Sc. Div. 126.0 | Sc. Div. 127.9 | Sc. Div. 122.8 | Sc. Div. 122.0 | Sc. Div. 123.2 | Sc. Div. 125.0 | Sc. Div. 127.2 | Sc. Div. 124.0 | Sc. Div. 123.98 |
| 127.8 | 126.3 | 124.8 | 123.0 | 125.9 | 128.4 | 133.7 | 131.4 | 131.2 | 128.5 | 126.4 | 126.7 | 125.05 |
| 124.0 | 125.0 | 125.2 | 125.7 | 125.4 | 125.2 | 128.4 | 127.9 | 124.2 | 125.0 | 126.1 | 127.2 | 124.45 |
| 123.3 | 123.8 | 124.0 | 125.0 | — | — | — | — | — | — | — | — | 124.64 |
| — | — | — | — | — | — | 126.2 | 125.3 | 128.9 | 125.2 | 122.8 | 126.8 | 124.14 |
| 123.0 | 126.0 | 124.0 | 125.2 | 130.7 | 125.4 | 125.0 | 126.2 | 122.5 | 124.7 | 125.4 | 128.0 | 124.72 |
| 124.8 | 124.6 | 124.5 | 123.2 | 142.0 | 126.0 | 133.6 | 145.4 | 128.2 | 124.9 | 125.0 | 130.0 | 125.94 |
| 125.1 | 133.8 | 120.0 | 130.4 | 133.3 | 128.0 | 125.2 | 129.0 | 128.2 | 129.4 | 129.5 | 128.1 | 125.97 |
| 123.8 | 122.7 | 123.2 | 126.6 | 128.2 | 126.0 | 125.9 | 126.1 | 125.3 | 125.9 | 126.2 | 127.0 | 124.59 |
| 123.2 | 123.3 ^e | 124.2 | 124.8 | 134.5 | 125.2 | 125.9 | 126.0 | 126.0 | 125.5 | 125.9 | 128.0 | 123.75 |
| 122.4 | 123.0 | 123.1 | 123.6 | 124.0 | 126.0 | — | — | — | — | — | — | 123.75 |
| — | — | — | — | — | — | 125.2 | 127.0 | 125.9 | 127.0 | 127.0 | 130.0 | 124.96 |
| 123.1 | 123.4 | 123.0 | 123.0 | 123.3 | 124.0 | 132.9 | 128.8 | 125.0 | 122.9 | 126.5 | 127.0 | 127.31 |
| 123.8 | 129.7 | 125.0 | 132.1 | 157.2 | 131.0 | 127.5 | 128.7 | 124.5 | 122.4 | 126.4 | 130.5 | 124.54 |
| 127.0 | 127.0 | 123.9 | 124.0 | 126.4 | 124.8 | 124.0 | 124.0 | 123.4 | 124.2 | 123.3 | 129.6 | 124.40 |
| 125.2 | 124.6 | 123.7 | 123.0 | 125.3 | 125.8 | 125.0 | 124.5 | 125.0 | 125.0 | 124.7 | 127.5 | 124.03 |
| 126.3 | 124.5 | 122.0 | 124.0 | 124.0 | 124.5 | 125.0 | 125.0 | 124.2 | 124.2 | 123.5 | 127.6 | 124.89 |
| 124.2 | 126.2 | 123.3 | 124.3 | 123.8 | 126.1 | — | — | — | — | — | — | 124.89 |
| — | — | — | — | — | — | 125.0 | 124.3 | 126.6 | 127.0 | 124.7 | 128.6 | 124.89 |
| 122.4 | 123.1 | 122.8 | 123.2 | 123.8 | 124.2 | 125.0 | 126.2 | 126.6 | 126.4 | 127.2 | 130.0 | 124.62 |
| 118.6 | 126.6 | 122.4 | 123.2 | 125.1 | 124.9 | 126.0 | 126.0 | 125.0 | 126.2 | 128.0 | 131.0 | 126.20 |
| 118.0 | 136.3 | 124.3 | 135.2 | 126.4 | 136.8 | 138.0 | 133.0 | 121.8 | 124.6 | 127.0 | 124.1 | 124.97 |
| 121.8 | 122.6 | 128.0 | 128.8 | 127.5 | 125.2 | 125.0 | 125.6 | 124.7 | 122.5 | 125.0 | 129.0 | 120.70 |
| 119.0 | 114.1 | 115.8 | 122.0 | 115.0 | 117.0 | 116.1 | 123.3 | 117.0 | 120.5 | 123.7 | 126.9 | 123.38 |
| 122.7 | 121.6 | 125.6 | 125.6 | 123.9 | 124.0 | — | — | — | — | — | — | 122.73 |
| — | — | — | — | — | — | 125.6 | 121.2 | 124.5 | 124.0 | 125.2 | 127.5 | 122.75 |
| 120.2 | 121.2 | 121.0 | 124.0 | 120.3 | 118.3 | 124.5 | 121.2 ^e | 124.6 | 127.7 | 127.7 | 130.7 | 123.57 |
| 123.0 | 123.4 | 122.2 | 122.0 | 125.0 | 126.0 | 122.5 | 121.8 | 122.0 | 122.0 | 123.5 | 127.8 | 123.23 |
| 123.0 | 123.0 | 121.5 | 121.2 | 120.8 | 121.4 | 122.8 | 129.2 | 129.7 | 132.3 | 128.8 | 131.5 | 122.64 |
| 122.5 | 122.8 | 123.0 | 121.8 | 122.0 | 122.2 | 122.3 | 122.8 | 124.0 | 122.8 | 125.3 | 127.2 | 124.34 |
| 120.0 | 121.3 | 120.9 | 121.0 | 121.8 | 124.2 | 122.5 | 123.0 | 124.1 | 127.5 | 127.0 | 129.8 | 122.94 |
| 122.94 | 124.48 | 123.14 | 124.87 | 126.98 | 125.33 | 125.99 | 126.48 | 125.05 | 125.31 | 125.70 | 128.23 | 121.0 |
| 121.0 | 122.9 | 120.2 | 130.5 | 127.2 | 125.0 | — | — | — | — | — | — | 123.25 |
| — | — | — | — | — | — | 122.3 | 128.0 | 126.0 | 124.0 | 125.0 | 127.3 | 123.02 |
| 122.7 | 123.6 | 123.2 | 122.9 ^f | 122.5 | 122.5 ^g | 125.1 | 123.5 | 124.2 | 122.9 | 124.4 | 127.1 | 123.51 |
| 123.9 | 125.0 | 124.0 | 123.4 | 123.0 | 122.5 | 122.7 | 122.0 | 122.7 | 123.6 | 123.2 | 125.5 | 122.58 |
| 121.8 | 122.4 | 122.7 | 122.0 | 121.0 | 124.0 | 122.7 | 123.0 | 123.0 | 124.0 | 125.0 | 126.4 | 123.48 |
| 120.9 | 122.4 | 122.9 | 123.2 | 124.2 | 123.1 | 124.0 | 124.0 | 124.1 | 125.8 | 127.0 | 128.2 | 122.58 |
| 122.0 | 122.0 | 121.7 | 121.0 | 123.4 | 122.2 | 123.0 | 123.0 | 123.2 | 123.2 | 126.3 | 128.0 | 122.73 |
| 120.0 | 122.8 | 120.8 | 120.4 | 122.0 | 125.6 | — | — | — | — | — | — | 122.57 |
| — | — | — | — | — | — | 123.0 | 123.8 | 126.8 | 125.8 | 126.2 | 127.2 | 124.80 |
| 121.2 | 122.2 | 124.0 | 134.0 | 123.0 | 124.0 | 123.2 | 123.9 | 123.2 | 118.9 | 123.5 | 127.2 | 125.05 |
| 124.1 | 123.7 | 122.6 | 123.0 | 127.2 | 129.7 | 125.0 | 125.8 | 124.4 | 120.7 | 124.2 | 128.2 | 123.49 |
| 125.0 | 124.2 | 123.0 | 126.1 | 126.9 | 130.9 | 131.1 | 125.0 | 125.0 | 122.8 | 127.2 | 129.8 | 123.51 |
| 123.1 | 123.2 | 123.6 | 122.0 | 122.8 | 122.1 | 122.0 | 123.0 | 123.6 | 124.0 | 125.4 | 126.0 | 124.88 |
| 124.1 | 124.8 | 123.0 | 122.9 | 122.2 | 122.8 | 124.8 | 123.3 | 123.2 | 124.2 | 124.1 | 126.2 | 124.00 |
| 124.8 | 124.2 | 124.8 | 122.3 | 122.0 | 122.1 | — | — | — | — | — | — | 123.54 |
| — | — | — | — | — | — | 124.0 | 126.6 | 129.7 | 132.4 | 131.2 | 132.0 | 122.17 |
| 120.2 | 122.0 | 135.6 | 124.4 | 125.0 | 129.5 | 126.0 | 127.1 | 123.0 | 130.5 | 129.2 | 131.2 | 123.57 |
| 121.4 | 121.0 | 121.2 | 122.0 | 128.3 | 124.2 | 124.8 | 123.3 | 124.2 | 124.2 | 124.2 | 126.2 | 122.56 |
| 122.0 | 122.5 | 121.4 | 122.6 | 121.0 | 123.0 | 122.6 ⁱ | 121.3 | 123.3 | 124.8 | 125.5 | 128.7 | 123.52 |
| 122.2 | 121.8 | 122.2 | 127.2 | 123.9 | 132.5 | 120.4 | 126.8 | 125.8 | 121.8 | 124.5 | 127.2 | 123.00 |
| 118.5 | 120.5 | 122.5 | 120.8 | 121.0 | 124.3 | 124.7 | 124.0 | 124.4 | 124.8 | 125.7 | 129.1 | 121.78 |
| 121.0 | 122.1 | 122.0 | 121.6 | 122.0 | 123.4 | — | — | — | — | — | — | 123.44 |
| — | — | — | — | — | — | 122.5 | 124.7 | 125.3 | 125.9 | 126.7 | 129.2 | 123.24 |
| 121.0 | 120.2 | 120.1 | 121.2 | 121.0 | 122.2 | 123.1 | 123.1 | 127.0 | 127.1 | 130.5 | 129.8 | 123.72 |
| 122.0 | 122.2 | 121.4 | 118.0 | 121.0 | 121.0 | 122.6 | 125.6 | 127.8 | 127.4 | 131.2 | 130.0 | 123.29 |
| 120.4 | 120.2 | 122.1 | 122.0 | 122.0 | 122.6 | 124.0 | 123.8 | 124.0 | 123.2 | 125.0 | 127.0 | 123.72 |
| 122.2 | 121.6 | 121.0 | 123.4 | 124.1 | 122.9 | 122.2 | 123.2 | 123.8 | 124.9 | 126.2 | 128.8 | 123.24 |
| 120.6 | 123.8 | 124.5 | 121.5 | 124.0 ^l | 127.8 ⁿ | 125.9 | 121.4 | 126.4 | 123.4 | 127.1 | 127.0 | 123.72 |
| 126.0 | 124.6 | 129.3 | 125.1 | 125.4 | 128.7 | — | — | — | — | — | — | 123.72 |
| — | — | — | — | — | — | 121.3 | 122.1 | 122.2 | 115.6 | 121.9 | 128.0 | 123.29 |
| 122.08 | 122.64 | 123.19 | 123.34 | 123.40 | 124.74 | 123.72 | 124.05 | 124.65 | 124.24 | 126.02 | 128.05 | 123.29 |

^e Eighteen minutes late.

^f Ten minutes late.

^g Five minutes late.

^h Four minutes late.

ⁱ Two minutes early.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|--------------------|--------------------|-------|
| Angular Value of One Scale Division of the Declinometer = 0' · 721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| JULY. | 1 | 131·0 | 131·0 | 130·0 | 127·3 | 123·7 | 118·8 | 116·5 | 114·0 | 114·3 | 115·0 | 117·5 | 120·4 |
| | 2 | 125·4 | 132·7 | 134·6 | 133·5 | 133·5 | 128·8 | 122·5 | 117·7 | 113·7 | 112·2 | 114·8 | 117·6 |
| | 3 | 125·7 | 129·2 | 127·9 | 129·7 | 126·7 | 123·2 | 121·5 | 114·8 | 114·6 | 116·0 | 118·4 | 120·5 |
| | 4 | 130·6 | 132·0 | 132·1 | 129·0 | 124·2 | 121·9 | 116·4 | 112·2 | 113·0 | 112·0 | 115·2 | 120·0 |
| | 5 | 129·0 | 130·2 | 133·0 | 132·1 | 127·3 | 121·8 | 119·6 | 116·7 | 116·5 | 116·1 | 117·1 | 119·4 |
| | 6 | 127·7 | 130·5 | 131·0 | 129·9 | 125·3 | 121·3 | 119·4 | 115·0 | 114·0 | 114·9 | 119·5 | 122·8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 129·6 | 135·1 | 133·4 | 129·5 | 121·1 | 115·0 | 116·3 | 120·3 | 119·8 | 122·0 | 123·8 | 123·5 |
| | 9 | 125·3 | 129·4 | 129·0 | 125·5 | 121·0 | 119·1 | 118·8 | 119·0 | 122·3 | 122·0 | 123·4 | 123·0 |
| | 10 | 128·1 | 128·4 | 126·6 | 125·8 | 124·2 | 120·8 | 120·1 | 119·0 | 118·1 | 119·3 | 118·9 | 120·4 |
| | 11 | 123·0 | 131·0 | 131·9 | 130·0 | 125·8 | 122·0 | 119·0 | 115·5 | 116·8 | 118·6 | 119·1 | 121·8 |
| | 12 | 128·8 | 129·6 | 128·0 | 126·2 | 122·2 | 119·1 | 117·5 | 117·0 | 118·4 | 120·2 | 121·1 | 120·1 |
| | 13 | 137·0 | 134·7 | 134·0 | 127·0 | 115·5 | 116·8 | 114·5 | 114·7 | 116·6 | 115·8 | 117·6 | 120·2 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 132·0 | 134·4 | 136·3 | 133·4 | 128·3 | 123·2 | 118·6 | 118·3 | 114·0 | 112·9 | 116·4 | 120·0 |
| | 16 | 131·0 | 132·7 | 131·4 | 129·4 | 122·3 | 116·6 | 113·0 | 110·5 | 113·0 | 115·0 | 118·1 | 120·7 |
| | 17 | 130·0 | 132·1 | 132·9 | 129·3 | 124·0 | 117·5 ^a | 116·8 | 116·9 | 114·5 | 113·2 | 118·2 | 119·8 |
| | 18 | 134·8 | 135·2 | 137·2 | 127·0 | 125·0 | 121·2 | 115·3 | 111·0 | 111·9 | 114·4 | 119·8 | 122·4 |
| | 19 | 129·2 | 133·9 | 131·9 | 131·3 | 126·3 | 123·7 | 119·8 | 116·4 | 115·2 | 115·1 | 117·8 | 120·4 |
| | 20 | 127·0 | 130·0 | 131·6 | 130·0 | 126·2 | 122·0 | 116·4 | 113·8 | 114·0 | 115·8 | 117·2 | 119·5 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 132·0 | 131·5 | 131·0 | 130·0 | 127·5 | 122·0 | 117·8 | 115·6 | 118·0 | 121·6 | 123·0 | 125·0 |
| | 23 | 135·0 | 135·0 | 134·4 | 134·0 | 130·0 | 126·5 | 124·9 | 118·0 | 117·7 | 118·9 | 120·2 | 121·0 |
| | 24 | 129·0 | 131·3 | 133·0 | 131·0 | 125·9 | 123·7 | 119·3 | 117·7 | 118·8 | 119·7 | 119·9 | 120·2 |
| | 25 | 127·4 | 120·2 | 129·0 | 131·1 | 125·0 | 120·6 | 115·6 | 117·0 | 112·1 | 118·0 | 119·2 | 123·0 |
| | 26 | 129·8 | 134·0 | 133·0 | 132·0 | 129·1 | 122·5 | 120·0 | 118·0 | 116·2 | 118·0 | 120·1 | 123·6 |
| | 27 | 125·4 | 132·5 | 132·1 | 130·0 | 128·8 | 121·3 | 118·3 | 118·0 | 111·8 | 118·5 | 120·8 | 121·7 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 129·2 | 134·0 | 133·6 | 131·9 | 125·0 | 118·0 | 115·0 | 113·1 | 115·0 | 116·1 | 117·8 | 118·0 |
| | 30 | 129·8 | 136·6 | 135·2 | 132·4 | 122·6 | 112·9 | 109·0 | 108·8 | 110·2 | 116·0 ^c | 121·2 | 123·2 |
| | 31 | 132·5 | 134·2 | 134·2 | 127·3 | 124·8 | 121·6 | 117·2 | 116·0 | 113·4 | 115·4 | 117·1 | 117·0 |
| Hourly Means | 129·46 | 131·90 | 132·16 | 129·84 | 125·23 | 120·81 | 117·74 | 115·74 | 115·33 | 116·77 | 119·01 | 120·93 | |
| AUGUST. | 1 | 131·0 | 137·6 | 132·8 | 133·2 | 127·4 | 127·7 | 116·2 | 110·1 | 104·5 | 106·1 | 105·5 | 114·8 |
| | 2 | 132·8 | 131·0 | 132·8 | 127·6 | 124·3 | 120·8 | 118·8 | 117·3 | 118·5 | 118·9 | 118·3 | 119·0 |
| | 3 | 125·0 | 129·4 | 130·8 | 126·8 | 123·0 | 120·4 | 119·1 | 112·9 | 115·0 | 119·5 | 112·0 | 123·4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 131·0 | 126·0 | 130·2 | 125·3 | 120·9 | 116·8 | 117·6 | 117·0 | 116·4 | 115·8 | 117·7 | 121·0 |
| | 6 | 128·3 | 129·6 | 131·1 | 129·5 | 124·7 | 118·4 | 115·2 | 114·0 | 115·4 | 118·0 | 121·1 | 123·5 |
| | 7 | 127·2 | 129·1 | 129·3 | 127·4 | 122·4 | 118·8 | 115·2 | 113·0 | 114·5 | 117·0 | 119·8 | 121·8 |
| | 8 | 129·0 | 135·5 | 133·8 | 131·0 | 126·4 | 121·8 | 119·4 | 118·5 | 120·0 | 121·4 | 122·0 | 123·5 |
| | 9 | 129·0 | 125·4 | 129·0 | 127·2 | 122·9 | 108·9 | 113·7 | 106·8 | 102·7 | 109·2 | 116·0 | 113·8 |
| | 10 | 133·5 | 134·7 | 135·3 | 132·0 | 126·2 | 123·1 | 120·9 | 119·3 | 119·8 | 122·9 | 122·5 | 122·5 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 129·2 | 131·8 | 131·0 | 128·7 | 125·1 | 119·2 | 116·1 | 116·1 | 116·1 | 117·9 | 120·0 | 122·0 |
| | 13 | 127·9 | 133·1 | 132·4 | 128·0 | 123·9 | 126·9 ^d | 114·0 | 111·6 | 113·7 | 116·5 | 120·0 | 122·8 |
| | 14 | 131·2 | 134·2 | 133·9 | 130·2 | 122·8 | 116·1 | 113·1 | 112·0 | 112·9 | 115·6 | 118·8 | 120·9 |
| | 15 | 130·4 | 132·5 | 131·3 | 130·0 | 121·5 | 113·5 | 111·9 | 110·9 | 112·0 | 116·0 | 118·7 | 121·2 |
| | 16 | 131·7 | 133·0 | 132·9 | 128·8 | 123·2 | 116·8 | 114·0 ^e | 109·1 | 108·0 | 113·0 | 116·6 | 118·8 |
| | 17 | 130·2 | 132·0 | 132·9 | 130·2 | 124·0 | 117·7 | 115·1 | 112·0 | 112·2 | 115·2 | 117·6 | 121·2 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 130·2 | 133·5 | 133·4 | 131·4 | 124·2 | 117·9 | 112·5 | 111·6 | 112·8 | 113·0 | 117·2 ^f | 119·3 |
| | 20 | 128·8 | 130·2 | 130·8 | 127·8 | 123·5 | 116·6 | 113·8 | 107·9 | 109·4 | 113·0 | 116·1 | 118·8 |
| | 21 | 129·4 | 132·6 | 132·8 | 131·6 | 124·6 | 119·0 | 115·1 | 121·6 | 114·0 | 118·5 | 121·1 | 121·9 |
| | 22 | 134·5 | 134·6 | 133·8 | 122·3 | 112·8 | 107·8 | 112·5 | 107·2 | 117·9 | 118·7 | 121·3 | 125·9 |
| | 23 | 129·9 | 129·9 | 130·8 | 125·8 | 120·1 | 113·4 | 107·6 | 113·3 | 113·2 | 117·0 | 121·7 | 122·6 |
| | 24 | 131·0 | 132·0 | 129·3 | 126·5 | 120·6 | 118·7 | 118·7 | 117·8 | 117·6 | 119·0 | 123·8 | 124·7 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 134·0 | 130·8 | 129·8 | 125·9 | 119·9 | 115·9 | 112·5 | 113·1 | 116·4 | 120·0 | 121·9 | 125·5 |
| | 27 | 128·2 | 130·4 | 129·9 | 125·5 | 119·1 | 115·7 | 114·1 | 113·8 | 114·9 | 118·2 | 121·8 | 123·3 |
| | 28 | 130·5 | 132·6 | 132·0 | 124·8 | 119·0 ^e | 113·8 ^d | 109·8 | 109·7 | 121·6 | 121·2 | 120·5 | 122·8 |
| | 29 | 132·4 | 133·9 | 132·0 | 128·6 ^e | 120·0 | 113·6 | 111·7 | 111·6 | 113·4 | 115·9 | 117·8 | 118·6 |
| | 30 | 130·8 | 129·9 | 127·8 | 122·8 | 123·0 | 110·7 | 112·2 | 110·0 | 115·5 | 118·1 | 121·4 | 121·8 |
| | 31 | 126·3 | 125·2 | 123·5 | 125·1 | 121·6 | 116·1 | 115·3 | 115·4 | 117·0 | 119·5 | 121·2 | 121·7 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 130·13 | 131·50 | 131·31 | 127·93 | 122·49 | 117·26 | 114·67 | 113·10 | 114·26 | 116·86 | 118·98 | 121·37 | |

^a Seven minutes late.

^b Eight minutes late.

^c Four minutes late.

^d Three minutes late.

^e Two minutes late.

^f The wire of the

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 123.3 | Sc. Div. 124.7 | Sc. Div. 124.3 | Sc. Div. 123.0 | Sc. Div. 126.2 | Sc. Div. 125.6 | Sc. Div. 125.0 | Sc. Div. 124.7 | Sc. Div. 124.0 | Sc. Div. 122.4 | Sc. Div. 122.6 | Sc. Div. 126.0 | Sc. Div. 122.97 |
| 120.6 | 122.9 | 123.2 | 123.0 | 123.2 | 123.0 | 127.0 | 122.8 | 122.0 | 123.0 | 123.7 | 125.6 | 123.63 |
| 123.0 | 123.0 | 122.5 | 123.2 | 124.0 | 124.9 | 123.1 | 123.1 | 127.0 | 125.0 | 126.2 | 128.3 | 123.48 |
| 122.7 | 123.4 | 123.8 | 127.3 | 122.9 | 122.9 | 123.0 | 123.3 | 123.0 | 121.8 | 124.0 | 126.9 | 122.65 |
| 123.2 | 123.0 | 122.2 | 121.6 | 124.1 | 124.2 | 123.7 | 123.4 | 124.0 | 123.5 | 125.8 | 127.0 | 123.60 |
| 122.6 | 122.6 | 121.2 | 121.4 | 121.6 | 124.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 121.5 | 123.0 | 127.0 | 125.4 | 128.0 | 119.7 | 122.89 |
| 123.4 | 121.3 | 121.3 | 122.3 | 136.5 | 141.0 | 139.6 | 133.8 | 120.4 | 122.0 | 125.4 | 130.0 | 126.10 |
| 124.8 | 123.6 | 122.0 | 123.8 | 128.7 | 124.0 | 126.8 | 129.6 | 122.9 | 119.0 | 122.2 | 128.1 | 123.89 |
| 121.1 | 122.8 | 121.3 | 121.3 | 123.2 | 123.4 | 122.8 | 122.3 | 122.6 | 122.8 | 124.0 | 125.5 | 122.62 |
| 121.8 | 121.8 | 121.9 | 128.0 | 127.7 | 124.7 | 127.5 | 126.0 | 122.0 | 126.2 | 124.8 | 128.1 | 123.96 |
| 123.4 | 123.2 | 121.8 | 121.1 | 122.2 | 126.2 | 135.4 | 131.2 | 126.3 | 125.0 | 125.2 | 135.9 | 124.38 |
| 123.6 | 124.5 | 122.2 | 124.9 | 124.6 | 123.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 124.6 | 125.8 | 124.1 | 124.6 | 123.2 | 126.6 | 123.20 |
| 122.0 | 125.2 | 125.7 | 122.1 | 122.0 | 123.8 | 122.3 | 122.8 | 122.8 | 123.3 | 124.9 | 128.9 | 123.90 |
| 123.6 | 123.2 | 122.4 | 121.8 | 123.2 | 122.7 | 122.0 | 122.4 | 123.0 | 124.8 | 123.7 | 123.0 | 122.06 |
| 119.8 | 120.9 | 128.7 | 122.7 | 121.8 | 121.1 | 126.0 | 125.8 | 126.9 | 126.7 | 126.9 | 134.0 | 123.60 |
| 121.2 | 121.8 | 121.3 | 122.2 | 124.0 | 122.7 | 124.0 | 121.9 | 122.1 | 123.4 | 124.8 | 125.0 | 122.90 |
| 121.7 | 121.8 | 121.2 | 121.0 | 127.0 | 121.9 | 123.0 | 123.1 | 124.0 | 124.2 | 124.3 | 123.6 | 123.24 |
| 121.7 | 123.6 | 122.4 | 122.0 | 126.4 | 124.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 123.3 | 123.1 | 123.0 | 124.0 | 124.2 | 125.8 | 122.79 |
| 126.0 | 126.0 | 126.2 | 126.0 | 127.1 ^b | 129.4 | 129.3 | 129.5 | 129.8 | 131.4 | 134.0 | 130.0 | 126.65 |
| 121.0 | 121.1 | 121.3 | 122.5 | 122.6 | 126.0 | 123.2 | 122.4 | 124.9 | 125.9 | 127.0 | 128.0 | 125.06 |
| 121.1 | 121.5 | 121.4 | 120.9 | 121.0 | 124.3 | 127.0 | 128.2 | 125.6 | 129.8 | 139.1 | 132.1 | 125.06 |
| 126.0 | 126.2 | 122.6 | 123.0 | 127.0 | 131.3 | 127.7 | 127.0 | 133.6 | 122.3 | 130.8 | 127.3 | 124.29 |
| 125.0 | 124.0 | 124.7 | 123.1 | 123.2 | 124.4 | 126.5 | 125.8 | 121.1 | 114.0 | 119.1 | 129.0 | 124.01 |
| 121.1 | 130.9 | 136.3 | 126.1 | 125.9 | 127.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 126.6 | 123.6 | 123.2 | 123.9 | 125.8 | 127.2 | 124.87 |
| 122.2 | 123.8 | 123.0 | 123.1 | 125.8 | 123.7 | 123.2 | 123.8 | 122.0 | 124.3 | 125.2 | 121.2 | 122.83 |
| 124.4 | 124.2 | 123.1 | 124.3 | 122.0 | 122.8 | 125.2 | 134.6 | 125.1 | 126.6 | 126.6 | 128.3 | 123.55 |
| 118.8 | 118.2 | 118.3 | 121.0 | 122.0 | 124.0 | 127.4 | 129.2 | 125.9 | 125.9 | 127.1 | 128.9 | 123.23 |
| 122.56 | 123.30 | 123.20 | 123.06 | 124.64 | 125.07 | 125.80 | 125.79 | 124.38 | 124.12 | 125.87 | 127.41 | 123.76 |
| 118.3 | 120.0 | 117.5 | 125.2 | 134.0 | 129.0 | 127.3 | 130.7 | 128.0 | 115.4 | 110.1 | 121.4 | 121.82 |
| 130.6 | 124.5 | 127.4 | 117.0 | 128.9 | 117.9 | 126.1 | 128.0 | 122.0 | 120.0 | 119.0 | 128.9 | 123.77 |
| 122.6 | 128.2 | 122.2 | 124.5 | 131.1 | 136.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 126.1 | 133.0 | 120.8 | 116.0 | 121.7 | 128.2 | 123.67 |
| 125.0 | 123.2 | 123.0 | 122.8 | 122.2 | 122.0 | 123.2 | 124.6 | 122.8 | 121.5 | 119.8 | 120.8 | 121.94 |
| 124.8 | 123.8 | 123.3 | 126.2 | 122.5 | 123.8 | 123.6 | 123.9 | 122.0 | 120.5 | 121.0 | 123.7 | 122.83 |
| 123.5 | 123.4 | 123.6 | 122.3 | 122.3 | 124.0 | 122.8 | 123.4 | 125.2 | 125.9 | 126.9 | 130.0 | 122.87 |
| 124.9 | 123.0 | 123.0 | 122.0 | 122.0 | 122.0 | 127.6 | 123.0 | 125.8 | 124.8 | 124.0 | 119.6 | 124.33 |
| 124.4 | 120.0 | 120.1 | 122.3 | 129.5 | 123.0 | 123.0 | 121.2 | 122.2 | 118.0 | 122.5 | 132.1 | 120.12 |
| 127.2 | 120.8 | 121.7 | 128.0 | 121.7 | 121.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 124.2 | 123.0 | 123.3 | 124.3 | 124.6 | 126.6 | 124.96 |
| 123.0 | 122.4 | 122.0 | 127.0 | 123.1 | 126.1 | 123.4 | 127.4 | 128.5 | 124.2 | 123.2 | 129.2 | 123.86 |
| 123.0 | 121.4 | 121.4 | 122.0 | 121.9 | 122.2 | 122.8 | 123.8 | 124.6 | 125.2 | 126.4 | 122.7 | 122.84 |
| 121.9 | 122.0 | 121.4 | 121.8 | 122.0 | 122.3 | 122.6 | 124.5 | 124.5 | 125.0 | 126.8 | 126.0 | 122.60 |
| 122.1 | 121.2 | 121.2 | 120.5 | 121.0 | 121.8 | 122.8 | 123.0 | 123.5 | 124.8 | 126.0 | 128.7 | 121.94 |
| 123.0 | 122.5 | 122.8 | 121.4 | 121.9 | 125.4 | 122.2 | 122.7 | 124.0 | 124.7 | 124.7 | 127.6 | 122.03 |
| 120.8 | 121.0 | 121.4 | 122.7 | 122.8 | 124.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 123.9 | 123.7 | 125.1 | 122.9 | 120.6 | 124.6 | 122.25 |
| 120.5 | 123.5 | 125.9 | 121.5 | 122.6 | 122.6 | 121.2 | 123.6 | 122.6 | 122.0 | 124.0 | 125.5 | 122.19 |
| 121.5 | 121.6 | 123.1 | 116.8 | 123.4 | 124.0 | 123.6 | 125.0 | 124.8 | 125.8 | 125.8 | 127.8 | 121.66 |
| 122.6 | 122.8 | 120.8 | 122.3 | 125.7 | 126.8 | 124.2 | 124.6 | 123.8 | 124.0 | 125.8 | 123.8 | 123.72 |
| 125.3 | 129.7 | 142.7 | 131.6 | 128.8 | 123.2 | 123.3 | 123.8 | 131.5 | 134.0 | 134.7 | 120.5 | 124.93 |
| 123.2 | 125.3 | 132.0 | 136.6 | 130.1 | 114.2 | 127.8 | 131.6 | 123.4 | 129.9 | 129.0 | 124.0 | 123.85 |
| 124.6 | 128.8 | 135.7 | 121.5 | 122.8 | 122.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 139.3 | 120.4 | 120.2 | 122.7 | 126.8 | 128.5 | 124.73 |
| 124.1 | 124.0 | 125.7 | 125.5 | 121.6 | 122.0 | 122.0 | 124.8 | 124.0 | 124.8 | 127.9 | 127.8 | 123.33 |
| 123.0 | 124.7 | 123.8 | 123.1 | 126.8 | 122.2 | 122.5 | 121.8 | 120.9 | 123.2 | 126.8 | 127.8 | 122.56 |
| 123.8 | 122.7 | 122.1 | 122.6 | 122.6 | 122.8 | 123.3 | 123.6 | 124.3 | 124.8 | 127.8 | 130.7 | 122.89 |
| 125.8 | 122.3 | 129.5 | 124.8 | 120.8 | 129.9 | 129.8 | 121.9 | 115.5 | 107.5 | 127.9 | 128.9 | 122.25 |
| 122.6 | 127.2 | 128.8 | 122.2 | 123.6 | 129.8 | 133.0 | 123.6 | 121.3 | 120.3 | 120.4 | 117.6 | 122.27 |
| 123.9 | 124.1 | 123.6 | 128.8 | 123.9 | 128.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 127.5 | 123.8 | 119.7 | 124.4 | 123.8 | 125.8 | 122.73 |
| 123.56 | 123.49 | 124.66 | 123.81 | 124.43 | 124.05 | 125.15 | 124.61 | 123.49 | 122.84 | 124.37 | 125.88 | 122.92 |

Reading Telescope was found to have given way between the hours of 9 and 10; the connexion was continued by means of the auxiliary Declination Magnetometer.

| DECLINATION. | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|--------------------|-------------------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| SEPTEMBER.* | 1 | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | 124.0 | 119.9 | 120.6 | 121.0 | 116.0 | 112.1 | 108.7 | 107.8 | 109.8 | 113.8 | 116.8 |
| | 3 | 125.4 | 128.0 | 127.9 | 123.8 | 116.5 | 110.5 | 108.6 | 107.6 | 110.3 | 113.8 | 117.3 |
| | 4 | 128.2 | 129.2 | 127.1 | 124.2 | 117.7 | 117.9 | 117.2 | 116.8 | 110.1 | 113.9 | 122.1 |
| | 5 | 124.5 | 126.5 | 125.0 | 121.8 | 115.2 | 111.6 | 109.2 | 110.3 | 113.2 | 116.5 | 119.8 |
| | 6 | 120.7 | 122.9 | 120.8 | 120.2 | 115.0 | 109.2 | 105.1 | 108.2 | 109.8 | 112.1 | 116.5 |
| | 7 | 128.1 | 128.0 | 126.2 | 120.1 | 116.2 | 112.9 | 105.0 | 105.6 | 108.5 | 113.0 | 116.8 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 126.3 | 128.2 | 126.2 | 121.0 | 116.2 | 112.8 | 111.7 | 110.7 | 113.4 | 116.9 | 120.6 |
| | 10 | 125.0 | 125.8 | 123.1 | 119.8 | 115.5 | 111.7 | 109.8 | 110.4 | 114.0 | 118.0 | 120.0 |
| | 11 | 125.3 | 126.0 | 124.0 | 120.2 | 115.5 | 111.0 | 107.3 | 108.4 | 111.9 | 115.7 | 118.9 |
| | 12 | 124.6 | 127.4 | 125.5 | 120.8 | 115.4 | 108.9 | 105.1 | 116.5 | 110.2 | 114.0 | 119.6 |
| | 13 | 125.7 | 129.2 | 127.2 | 121.8 | 115.6 | 110.4 | 106.9 | 107.8 | 109.6 | 114.0 | 117.7 |
| | 14 | 127.2 | 126.3 | 125.8 | 122.8 | 115.4 | 108.2 | 106.0 | 104.9 | 107.5 | 113.9 | 117.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 125.2 | 126.0 | 127.6 | 123.6 | 117.7 | 113.7 | 110.3 | 110.2 | 111.9 | 114.9 | 117.0 |
| | 17 | 122.9 | 125.0 | 125.8 | 123.5 | 118.5 | 114.2 | 110.6 | 110.2 | 111.3 | 113.6 | 115.8 |
| | 18 | 125.0 | 126.6 | 127.3 | 123.2 | 119.4 | 114.5 | 111.0 | 111.1 | 112.2 | 113.1 | 115.6 |
| | 19 | 117.0 | 119.8 | 121.1 | 120.0 | 119.8 | 118.0 | 115.2 | 112.5 | 112.0 | 113.8 | 115.1 |
| | 20 | 134.8 | 126.3 | 122.5 | 128.3 | 115.9 | 110.1 | 107.6 | 109.0 | 107.9 | 109.0 | 114.0 |
| | 21 | 120.0 | 118.8 | 124.0 | 122.1 | 115.0 | 112.8 | 109.3 | 110.6 | 111.6 | 113.9 | 115.5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 114.0 | 120.0 | 120.6 | 115.7 | 113.6 | 109.5 | 108.3 | 111.5 | 113.8 | 116.2 | 118.2 |
| | 24 | 119.3 | 123.7 | 117.7 | 112.7 | 108.9 | 109.4 | 108.7 | 109.4 | 113.1 | 117.4 | 120.3 |
| | 25 | 123.0 | 126.2 | 117.1 | 123.0 | 117.2 | 113.1 | 107.4 | 109.8 | 113.6 | 113.8 | 115.7 |
| | 26 | 120.9 | 129.0 | 120.1 | 117.3 | 107.1 | 106.5 | 105.5 | 107.0 | 100.0 | 110.3 | 112.7 |
| | 27 | 128.0 | 126.0 | 127.5 | 121.0 | 113.0 | 107.0 | 110.2 | 109.8 | 110.0 | 112.2 | 117.7 |
| | 28 | 121.2 | 121.9 | 123.6 | 123.2 | 119.7 | 113.2 | 109.5 | 110.3 | 113.2 | 116.1 | 117.7 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 121.4 | 119.2 | 114.9 | 116.4 | 117.5 | 107.1 | 103.7 | 111.1 | 111.2 | 113.6 | 118.0 |
| Hourly Means | 123.91 | 125.04 | 123.57 | 121.10 | 115.74 | 111.45 | 108.84 | 109.90 | 110.80 | 114.14 | 117.46 | 118.44 |
| OCTOBER. | 1 | 99.3 | 74.4 | 98.1 | 108.8 | 113.2 | 114.1 | 104.1 | 113.8 | 106.3 | 113.2 | 121.9 |
| | 2 | 119.5 | 122.4 | 123.2 | 123.0 | 120.2 | 116.8 | 114.5 | 102.0 ^a | 105.8 | 111.7 | 114.0 |
| | 3 | 123.0 | 124.0 | 121.0 | 119.0 | 116.4 | 113.9 | 111.7 | 110.0 | 112.4 | 114.2 | 116.7 |
| | 4 | 122.0 | 124.4 | 123.4 | 124.0 | 118.3 | 114.0 | 108.0 | 110.0 | 111.9 | 114.9 | 116.0 |
| | 5 | 121.7 | 121.0 | 122.8 | 122.0 | 121.3 | 119.0 | 114.7 | 113.5 | 113.8 | 115.3 ^b | 112.7 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 121.5 | 122.5 | 118.7 | 118.2 | 117.5 | 112.0 | 110.4 | 111.3 | 114.1 | 116.3 | 116.5 |
| | 8 | 121.7 | 124.6 | 121.9 | 119.8 | 119.0 | 115.0 | 112.9 ^c | 114.2 | 115.0 | 117.3 | 117.8 |
| | 9 | 124.0 | 121.5 | 121.6 | 121.8 | 118.1 | 113.5 | 110.5 | 112.1 | 114.0 | 117.4 | 118.8 |
| | 10 | 120.0 | 121.2 | 122.7 | 122.8 | 117.6 | 112.9 | 111.7 | 111.8 | 113.4 | 115.7 | 116.2 |
| | 11 | 119.8 | 121.9 | 121.8 | 121.9 | 119.7 | 115.5 | 112.8 | 112.9 | 113.8 | 115.1 ^d | 117.3 |
| | 12 | 120.5 | 121.8 | 124.9 | 124.9 | 121.0 | 119.3 | 109.8 | 109.7 | 112.0 | 114.3 | 116.2 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 120.6 | 123.0 | 125.1 | 125.2 | 123.2 | 118.0 | 114.0 | 111.8 | 111.7 | 113.0 | 115.2 |
| | 15 | 120.8 | 122.9 | 125.0 | 124.6 | 120.0 | 113.0 | 109.2 | 110.0 | 112.2 | 115.0 | 116.8 |
| | 16 | 120.1 | 122.6 | 125.1 | 124.1 | 121.5 | 117.1 | 113.4 | 111.6 | 112.5 | 114.4 | 116.2 |
| | 17 | 118.2 | 121.8 | 124.1 | 125.7 | 120.7 | 114.2 | 110.0 | 108.1 | 109.0 | 112.2 | 113.7 |
| | 18 | 118.2 | 126.3 | 126.3 | 124.8 | 119.7 | 113.4 | 111.8 | 111.0 | 112.8 | 114.6 | 115.4 |
| | 19 | 120.8 | 121.0 | 123.8 | 122.8 | 119.9 | 115.5 | 113.5 | 113.3 | 113.8 | 115.9 | 117.3 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 108.3 | 101.5 | 114.7 | 117.8 | 109.5 | 113.0 | 115.1 | 115.0 | 116.1 | 118.2 | 123.4 |
| | 22 | 119.4 | 120.6 | 119.2 | 118.5 | 117.9 | 116.3 | 114.9 | 114.5 | 116.8 | 116.1 | 117.3 |
| | 23 | 119.8 | 120.8 | 117.2 | 117.2 | 111.1 | 110.3 | 109.1 | 109.4 | 111.1 | 114.3 | 116.0 |
| | 24 | 118.8 | 120.2 | 118.5 | 115.8 | 115.0 | 111.8 | 110.2 | 112.1 | 114.6 | 117.0 | 118.1 |
| | 25 | 127.0 | 124.8 | 122.0 | 118.4 | 115.8 | 113.0 | 112.0 | 112.8 | 113.8 | 105.7 | 114.2 |
| | 26 | 124.6 | 123.8 | 124.1 | 117.7 | 113.3 | 108.6 | 112.0 | 112.3 | 111.3 | 114.8 | 110.4 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 119.1 | 121.1 | 122.6 | 120.1 | 120.5 | 114.3 | 114.1 | 114.7 | 114.9 | 113.9 | 113.0 |
| | 29 | 119.1 | 120.1 | 119.0 | 119.6 | 115.2 | 113.9 | 113.8 | 113.2 | 114.2 | 116.7 | 115.3 |
| | 30 | 110.9 | 117.1 | 123.7 | 121.8 | 119.5 | 115.8 | 112.4 | 112.5 | 113.5 | 115.5 | 117.2 |
| | 31 | 119.8 | 121.0 | 122.0 | 123.1 | 122.4 | 120.9 | 116.4 | 112.8 | 112.0 | 115.0 | 115.0 |
| Hourly Means | 119.20 | 119.57 | 121.20 | 120.87 | 118.06 | 114.63 | 111.96 | 111.72 | 112.70 | 114.73 | 116.24 | 117.45 |

* The Scale readings in this and following months require a correction of 4.63 divisions to be added to them in order to connect them with the Scale readings in the month of August.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|----------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 117.5 | 119.2 | 120.7 | 117.0 | 126.3 | 118.0 | 117.1 | 117.5 | 117.6 | 119.8 | 114.1 | 121.1 | 117.30 |
| 118.0 | 117.1 | 117.0 | 117.6 | 117.7 | 117.0 | 126.2 | 119.1 | 118.8 | 117.8 | 110.9 | 119.6 | 117.78 |
| 118.2 | 117.9 | 118.3 | 118.6 | 125.8 | 122.8 | 119.0 | 117.8 | 118.9 | 118.1 | 122.3 | 122.3 | 120.07 |
| 119.0 | 118.6 | 117.2 | 116.5 | 117.0 | 117.4 | 118.0 | 118.0 | 118.8 | 119.0 | 119.2 | 119.0 | 117.96 |
| 117.3 | 117.4 | 116.8 | 116.8 | 116.4 | 117.5 | 123.0 | 122.2 | 119.6 | 122.6 | 124.1 | 124.1 | 117.47 |
| 114.9 | 114.3 | 116.4 | 116.0 | 116.4 | 117.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 123.7 | 115.7 | 118.8 | 120.6 | 124.1 | 125.2 | 117.49 |
| 120.2 | 133.1 | 113.2 | 118.2 | 117.9 | 117.4 | 118.8 | 116.4 | 119.0 | 119.8 | 122.1 | 120.9 | 119.17 |
| 117.9 | 116.6 | 118.8 | 117.0 | 116.8 | 116.9 | 118.3 | 118.1 | 119.0 | 120.2 | 121.1 | 122.2 | 118.17 |
| 116.6 | 116.1 | 116.7 | 117.0 | 119.4 | 117.4 | 119.0 | 119.3 | 120.4 | 121.2 | 122.0 | 122.8 | 117.96 |
| 117.8 | 116.9 | 116.9 | 115.7 | 116.1 | 117.0 | 118.0 | 119.5 | 120.6 | 122.3 | 121.4 | 122.4 | 117.96 |
| 117.0 | 117.0 | 117.2 | 120.4 | 119.3 | 118.0 | 120.8 | 118.3 | 120.6 | 124.8 | 126.2 | 127.0 | 118.78 |
| 118.0 | 117.9 | 118.8 | 158.1 | 126.9 | 118.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 126.1 | 125.7 | 125.1 | 121.4 | 122.3 | 124.8 | 120.77 |
| 118.5 | 127.1 | 119.4 | 118.6 | 117.5 | 117.2 | 117.9 | 119.6 | 121.2 | 118.6 | 122.9 | 121.7 | 119.02 |
| 118.9 | 116.9 | 115.7 | 124.0 | 120.1 | 121.3 | 118.8 | 120.0 | 121.6 | 120.0 | 123.3 | 123.0 | 118.84 |
| 117.2 | 118.6 | 119.4 | 120.0 | 120.0 | 117.0 | 117.5 | 118.9 | 119.5 | 121.0 | 121.7 | 121.7 | 118.68 |
| 118.0 | 117.0 | 117.2 | 118.7 | 133.3 | 122.0 | 129.8 | 129.2 | 125.3 | 125.3 | 123.2 | 120.3 | 119.98 |
| 120.3 | 117.0 | 119.8 | 124.7 | 117.6 | 118.7 | 121.7 | 102.0 | 118.8 | 116.6 | 124.8 | 122.2 | 117.98 |
| 118.0 | 116.8 | 126.8 | 117.8 | 116.3 | 118.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 120.4 | 123.2 | 106.2 | 115.4 | 124.1 | 122.0 | 117.33 |
| 118.6 | 118.5 | 118.2 | 122.1 | 119.2 | 116.4 | 119.8 | 116.1 | 121.6 | 121.2 | 121.7 | 122.2 | 117.33 |
| 120.5 | 118.8 | 118.8 | 133.7 | 119.3 | 118.2 | 118.0 | 117.6 | 116.5 | 119.0 | 122.1 | 118.9 | 117.57 |
| 111.6 | 117.9 | 138.6 | 130.8 | 140.5 | 128.2 | 123.3 | 125.0 | 114.1 | 125.2 | 117.2 | 122.7 | 120.50 |
| 125.4 | 122.0 | 127.9 | 118.3 | 118.8 | 119.0 | 119.7 | 121.1 | 139.3 | 110.2 | 115.1 | 108.0 | 116.75 |
| 126.5 | 124.0 | 123.1 | 132.9 | 128.0 | 126.8 | 119.2 | 119.0 | 118.7 | 119.0 | 119.0 | 118.4 | 119.83 |
| 120.7 | 117.8 | 118.2 | 118.3 | 117.9 | 118.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 129.0 | 117.0 | 127.0 | 117.4 | 122.1 | 121.2 | 118.86 |
| 120.5 | 127.1 | 154.4 | 138.0 | 127.3 | 130.0 | 134.7 | 127.4 | 118.3 | 139.5 | 94.5 | 85.2 | 119.54 |
| 118.71 | 119.26 | 121.02 | 122.67 | 121.27 | 119.47 | 121.51 | 119.35 | 120.25 | 120.64 | 120.06 | 119.98 | 118.52 |
| 117.0 | 118.3 | 119.0 | 119.5 | 118.5 | 118.0 | 118.8 | 119.8 | 118.0 | 120.0 | 120.0 | 120.4 | 112.89 |
| 114.1 | 117.1 | 115.9 | 118.9 | 118.0 | 115.7 | 117.0 | — | 116.9 ^b | 117.2 | 120.9 | 120.1 | 116.55 |
| 115.8 | 115.3 | 115.3 | 117.0 | 116.3 | 117.2 | 118.2 | 117.5 | 117.8 | 118.3 | 121.2 | 121.0 | 117.08 |
| 119.0 | 116.0 | 114.7 | 116.2 | 117.0 | 117.8 | 119.0 | 117.8 | 122.3 | 118.8 | 117.6 | 121.6 | 117.52 |
| 114.3 | 116.9 | 125.7 | 117.0 | 116.6 | 116.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 118.6 | 116.0 | 119.8 | 120.4 | 119.8 | 121.8 | 118.20 |
| 116.0 | 116.8 | 117.8 | 129.4 | 119.0 | 112.7 | 120.0 | 119.4 | 118.4 | 118.0 | 120.0 | 120.2 | 117.68 |
| 116.0 | 116.0 | 115.5 | 116.8 | 117.0 | 116.6 | 118.0 | 118.8 | 118.9 | 129.2 | 119.7 | 120.7 | 117.96 |
| 116.8 | 117.0 | 117.2 | 116.6 | 117.1 | 117.3 | 117.8 | 118.0 | 117.8 | 116.6 | 117.4 | 118.2 | 117.50 |
| 116.8 | 117.5 | 117.7 | 117.8 | 118.0 | 118.1 | 118.2 | 118.4 | 119.4 | 118.4 | 116.3 | 121.2 | 117.52 |
| 117.0 | 117.4 | 117.8 | 118.4 | 118.0 | 117.6 | 118.0 | 118.4 | 118.8 | 119.2 | 119.3 | 119.3 | 117.86 |
| 116.9 | 117.0 | 117.6 | 118.0 | 118.0 | 117.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 118.2 | 119.0 | 119.8 | 120.0 | 119.9 | 120.7 | 118.05 |
| 115.1 | 116.4 | 122.0 | 117.0 | 121.0 | 121.4 | 119.8 | 122.2 | 120.7 | 110.1 | 119.4 | 120.8 | 118.40 |
| 117.2 | 117.2 | 117.3 | 118.4 | 118.4 | 117.9 | 118.0 | 118.2 | 118.0 | 118.0 | 117.6 | 118.4 | 117.58 |
| 117.2 | 119.1 | 122.1 | 118.3 | 121.0 | 117.9 | 117.3 | 117.7 | 117.9 | 118.4 | 119.2 | 119.7 | 118.39 |
| 116.1 | 117.2 | 117.0 | 118.9 | 118.4 | 124.9 | 122.4 | 118.2 | 118.0 | 119.2 | 119.3 | 117.4 | 117.36 |
| 117.3 | 118.0 | 118.3 | 118.2 | 117.8 | 118.8 | 120.8 | 119.0 | 117.3 | 118.0 | 118.5 | 119.8 | 118.01 |
| 117.0 | 117.1 | 117.5 | 117.5 | 118.1 | 121.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 128.7 | 138.9 | 124.4 | 119.0 | 107.1 | 110.0 | 118.86 |
| 119.0 | 117.9 | 120.9 | 126.2 | 122.1 | 122.2 | 120.1 | 116.9 | 116.7 | 112.0 | 118.9 | 118.1 | 117.00 |
| 117.0 | 117.2 | 117.1 | 126.5 | 122.2 | 118.9 | 116.9 | 117.9 | 108.2 | 116.8 | 122.8 | 119.0 | 117.89 |
| 122.2 | 122.7 | 122.9 | 118.2 | 118.8 | 120.2 | 117.9 | 109.3 | 116.2 | 119.5 | 117.7 | 118.1 | 116.53 |
| 118.5 | 118.5 | 120.8 | 119.1 | 121.2 | 117.5 | 120.0 | 121.8 | 109.9 | 117.0 | 131.0 | 127.2 | 118.04 |
| 120.9 | 126.1 | 119.9 | 121.1 | 127.0 | 147.6 | 119.0 | 113.2 | 128.8 | 115.0 | 116.5 | 117.3 | 119.47 |
| 115.8 | 124.9 | 118.3 | 125.5 | 116.1 | 114.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 120.3 | 118.8 | 117.6 | 117.0 | 116.2 | 118.4 | 117.90 |
| 125.2 | 119.0 | 118.1 | 119.0 | 123.4 | 120.2 | 118.9 | 121.2 | 121.4 | 118.5 | 119.9 | 117.5 | 118.57 |
| 118.0 | 117.9 | 120.0 | 130.8 | 123.9 | 118.2 | 118.6 | 117.3 | 117.0 | 115.9 | 123.2 | 119.2 | 118.30 |
| 117.0 | 119.8 | 119.0 | 120.4 | 119.4 | 118.3 | 117.1 | 119.0 | 118.0 | 118.5 | 119.0 | 119.4 | 117.57 |
| 117.1 | 118.4 | 110.0 | 118.8 | 118.8 | 119.0 | — | 119.0 | 118.8 | 119.6 | 120.0 | 121.0 | 118.49 |
| 117.42 | 118.25 | 118.68 | 119.98 | 119.30 | 119.40 | 119.14 | 118.91 | 118.40 | 117.76 | 119.20 | 119.50 | 117.67 |

^a Five minutes late.

^b Two minutes late.

^c Eight minutes late.

^d Three minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|
| Angular Value of One Scale Division of the Declinometer = 0' · 721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| NOVEMBER. | 1 | Sc. Div. 119·9 | Sc. Div. 123·2 | Sc. Div. 124·6 | Sc. Div. 125·6 | Sc. Div. 123·5 | Sc. Div. 117·0 | Sc. Div. 115·3 | Sc. Div. 111·5 | Sc. Div. 111·7 | Sc. Div. 115·2 | Sc. Div. 114·0 | Sc. Div. 117·9 |
| | 2 | 120·4 | 122·7 | 120·8 | 120·2 | 119·0 | 116·7 | 112·7 | 111·0 | 113·1 | 111·9 | 112·6 | 125·7 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 119·0 | 120·7 | 121·7 | 121·7 | 117·9 | 111·8 | 113·6 | 111·2 | 113·8 | 112·2 | 112·8 | 114·1 |
| | 5 | 116·8 | 119·1 | 119·4 | 120·4 | 117·0 | 115·3 | 113·5 | 112·3 | 113·1 | 114·9 | 113·2 | 115·3 |
| | 6 | 119·6 | 119·0 | 121·0 | 121·0 | 119·9 | 116·1 | 114·0 | 110·9 | 113·0 | 116·9 | 117·8 | 118·0 |
| | 7 | 120·0 | 121·4 | 120·0 | 119·6 | 116·1 | 114·8 | 113·2 | 112·0 | 112·4 | 115·0 | 115·8 | 118·0 |
| | 8 | 118·7 | 120·7 | 122·1 | 119·8 | 117·9 | 115·2 | 113·5 | 114·1 | 115·2 | 117·3 | 118·6 | 118·5 |
| | 9 | 119·0 | 120·6 | 122·1 | 121·7 | 119·5 | 115·4 | 114·3 | 115·0 | 115·9 | 117·6 | 118·0 | 117·2 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 109·1 | 122·7 | 119·5 | 118·0 | 118·7 | 111·2 | 105·1 | 106·8 | 105·5 | 119·0 | 117·3 | 107·8 |
| | 12 | 118·1 | 119·0 | 120·8 | 120·7 | 113·9 | 102·9 | 108·6 | 108·8 | 109·0 | 113·6 | 115·8 | 115·9 |
| | 13 | 116·8 | 119·4 | 117·6 | 120·0 | 118·8 | 116·7 | 114·9 | 113·9 | 114·7 | 114·3 | 115·5 | 115·0 |
| | 14 | 119·0 | 121·0 | 122·0 | 120·7 | 119·8 | 115·7 | 113·0 | 110·5 | 112·3 | 114·1 | 115·2 | 116·0 |
| | 15 | 118·3 | 120·2 | 122·2 | 122·0 | 119·7 | 117·7 | 114·4 | 112·0 | 112·0 | 112·7 | 114·2 | 117·3 |
| | 16 | 114·0 | 118·0 | 111·5 | 105·8 | 106·9 | 102·6 | 100·9 | 111·6 | 99·1 | 103·9 | 114·2 | 119·9 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 106·8 | 119·0 | 121·4 | 122·7 | 120·1 | 115·0 | 114·1 | 113·1 | 114·4 | 117·4 | 121·2 | 113·7 |
| | 19 | 101·3 | 115·6 | 117·8 | 117·0 | 118·2 | 115·4 | 113·7 | 112·5 | 114·1 | 113·8 | 116·4 | 117·2 |
| | 20 | 118·0 | 115·8 | 119·8 | 120·3 | 118·8 | 115·0 | 114·0 | 112·8 | 112·0 | 113·2 | 114·7 | 116·0 |
| | 21 | 118·1 | 118·7 | 118·1 | 117·8 | 116·2 | 113·5 | 111·8 | 110·8 | 113·0 | 115·0 | 115·6 | 116·9 |
| | 22 | 130·0 | 127·0 | 123·8 | 120·0 | 114·2 | 113·2 | 109·0 | 114·2 | 111·3 | 108·9 | 113·3 | 116·4 |
| | 23 | 110·0 | 114·5 | 116·4 | 117·0 | 117·8 | 110·0 | 111·6 | 109·0 | 115·8 | 114·0 | 113·0 | 117·3 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 116·8 | 117·0 | 120·2 | 122·2 | 118·3 | 117·0 | 112·7 | 113·0 | 115·2 | 116·0 | 116·7 | 118·0 |
| | 26 | 118·6 | 119·3 | 119·8 | 120·6 | 119·2 | 116·3 | 113·8 | 113·0 | 114·1 | 115·9 ^b | 117·0 | 118·0 |
| | 27 | 119·3 | 118·9 | 122·9 | 123·5 | 121·8 | 117·9 | 114·4 | 113·0 | 113·4 | 115·0 | 116·3 | 118·0 |
| | 28 | 121·5 | 118·3 | 116·6 | 115·5 | 115·0 | 112·8 | 110·6 | 110·0 | 114·2 | 115·0 | 115·4 | 117·3 |
| | 29 | 119·5 | 120·0 | 121·0 | 123·4 | 120·0 | 115·2 | 114·0 | 114·0 | 113·8 | 114·0 | 114·5 | 117·1 |
| | 30 | 117·9 | 118·5 | 119·8 | 119·7 | 120·0 | 118·1 | 115·3 | 114·2 | 114·4 | 114·2 | 115·2 | 116·1 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 117·17 | 119·63 | 120·11 | 119·88 | 118·01 | 114·17 | 112·38 | 111·97 | 112·71 | 114·27 | 115·55 | 116·87 | |
| DECEMBER. | 2 | 118·6 | 119·7 | 120·2 | 122·1 | 120·9 | 116·2 | 112·8 | 112·8 | 113·5 | 114·2 | 116·5 | 117·6 |
| | 3 | 119·7 | 119·0 | 119·7 | 120·1 | 119·6 | 118·2 | 115·8 | 113·9 | 114·8 | 115·0 | 115·7 | 116·1 |
| | 4 | 121·0 | 121·9 | 111·1 | 119·7 | 117·8 | 116·3 | 112·9 | 114·4 | 110·8 | 111·4 | 108·3 | 110·8 |
| | 5 | 119·0 | 119·0 | 119·6 | 120·0 | 120·0 | 115·5 | 114·6 | 113·0 | 113·5 | 114·4 | 116·0 | 116·1 |
| | 6 | 127·5 | 117·0 | 116·5 | 119·8 | 120·1 | 118·3 | 114·8 | 113·7 | 113·1 | 113·8 | 115·4 | 116·2 |
| | 7 | 118·0 | 118·0 | 118·1 | 119·3 | 120·0 | 119·3 | 117·0 | 114·4 | 113·8 | 113·9 | 115·0 | 116·0 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 118·8 | 118·8 | 118·0 | 118·7 | 118·8 | 117·0 | 115·1 | 113·8 | 114·0 | 115·8 | 115·7 | 118·8 |
| | 10 | 122·1 | 119·7 | 120·1 | 120·8 | 117·9 | 116·0 ^c | 115·0 | 113·5 | 114·4 | 116·0 | 117·2 | 118·5 |
| | 11 | 118·5 | 120·2 | 118·9 | 118·6 | 118·6 | 116·3 | 114·8 | 114·2 | 113·9 | 115·4 | 116·8 | 118·0 |
| | 12 | 119·8 | 118·4 | 119·6 | 120·5 | 120·5 | 118·4 | 114·2 | 112·3 | 113·2 | 114·8 ^d | 116·1 | 117·7 |
| | 13 | 118·8 | 119·9 | 119·5 | 120·9 | 119·8 | 117·7 | 114·8 | 112·0 | 112·6 | 115·4 | 115·9 | 117·6 |
| | 14 | 118·2 | 120·0 | 117·9 | 120·9 | 122·0 | 118·0 | 111·2 | 100·8 | 98·4 | 105·3 | 114·1 | 115·6 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 117·7 | 117·1 | 119·1 | 119·0 | 119·5 | 113·9 | 112·4 | 109·4 | 113·2 | 114·0 | 116·2 | 116·4 |
| | 17 | 117·5 | 117·5 | 118·0 | 118·6 | 120·4 | 119·2 | 118·9 | 116·1 | 115·4 | 114·9 | 115·2 | 117·0 |
| | 18 | 117·6 | 118·2 | 119·0 | 119·8 | 120·7 | 119·1 | 118·0 | 117·7 | 116·4 | 116·0 | 116·8 | 116·9 |
| | 19 | 118·2 | 115·8 | 118·2 | 119·5 | 114·7 | 113·0 | 112·2 | 114·3 | 114·5 | 114·8 | 113·6 | 114·0 |
| | 20 | 121·9 | 115·1 | 110·0 | 113·1 | 117·0 | 116·6 | 115·4 | 113·6 | 113·7 | 108·5 | 117·6 | 117·4 |
| | 21 | 104·8 | 116·0 | 119·3 | 117·3 | 111·0 | 108·0 | 116·5 | 112·0 | 114·0 | 114·6 | 116·2 ^e | 118·8 ^b |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 117·8 | 118·0 | 120·0 | 120·4 | 118·2 | 116·0 | 115·2 | 115·4 | 117·0 | 117·0 | 116·0 | 118·2 |
| | 24 | 118·2 | 118·7 | 119·2 | 120·9 | 119·5 | 117·4 | 114·5 | 114·7 | 115·2 | 116·3 | 116·4 | 116·9 |
| | 25 ^f | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 112·4 | 113·3 | 120·0 | 122·3 | 119·0 | 116·6 | 112·0 | 116·2 | 110·0 | 111·8 | 115·4 | 115·0 |
| | 27 | 119·8 | 119·2 | 121·2 | 122·2 | 121·0 | 117·4 | 114·7 | 112·4 | 114·0 | 114·9 | 115·4 | 116·9 |
| | 28 | 118·8 | 121·0 | 121·2 | 121·4 | 120·8 | 114·1 | 111·9 | 110·0 | 111·0 | 114·2 | 116·0 | 117·2 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 119·6 | 125·4 | 123·5 | 118·0 | 120·4 | 114·0 ^g | 111·5 | 112·1 | 108·5 | 114·3 | 116·0 | 119·1 |
| | 31 | 118·3 | 129·0 | 129·4 | 128·2 | 120·6 | 119·6 | 118·0 | 115·3 | 114·0 | 116·5 | 117·6 | 118·2 |
| | Hourly Means | 118·50 | 119·04 | 119·09 | 120·08 | 119·15 | 116·48 | 114·57 | 113·12 | 112·92 | 114·13 | 115·68 | 116·84 |

^a Seven minutes late.

^b Three minutes late.

^c Ten minutes late.

^d Four minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 118.1 | Sc. Div. 117.4 | Sc. Div. 117.9 | Sc. Div. 129.6 | Sc. Div. 120.0 | Sc. Div. 119.1 | Sc. Div. 119.4 | Sc. Div. 118.0 | Sc. Div. 113.6 | Sc. Div. 119.0 | Sc. Div. 115.5 | Sc. Div. 119.6 | Sc. Div. 118.61 |
| 112.3 | 114.8 | 134.0 | 117.2 | 120.9 | 122.0 | — | — | — | — | — | — | 118.54 |
| — | — | — | — | — | — | 123.9 | 121.2 | 116.7 | 118.4 | 118.2 | 118.5 | 117.12 |
| 115.0 | 124.1 | 119.0 | 117.8 | 118.6 | 117.8 | 118.8 | 117.2 | 117.2 | 119.2 | 118.3 | 117.5 | 116.72 |
| 116.8 | 115.9 | 115.6 | 118.7 | 117.5 | 118.0 | 117.2 | 117.0 | 117.9 | 118.9 | 118.3 | 119.1 | 117.93 |
| 117.9 | 118.1 | 118.0 | 117.2 | 117.8 | 117.4 | 118.9 | 118.8 | 118.9 | 119.0 | 120.8 | 120.4 | 117.25 |
| 118.4 | 118.7 | 118.0 | 117.4 | 117.4 | 117.1 | 117.0 | 117.0 | 117.8 | 118.8 | 118.8 | 119.2 | 117.76 |
| 118.1 | 119.2 | 119.4 | 119.0 | 117.9 | 117.1 | 116.9 | 116.2 | 116.0 | 117.7 | 118.0 | 119.1 | — |
| 117.4 | 118.5 | 117.7 | 118.8 | 119.0 | 118.0 | — | — | — | — | — | — | 118.27 |
| — | — | — | — | — | — | 118.1 | 119.5 | 119.9 | 117.8 | 117.0 | 120.5 | 115.76 |
| 113.4 | 122.0 | 116.8 | 119.0 | 119.7 | 118.7 | 118.0 | 120.0 | 117.9 | 119.0 | 117.0 | 116.0 | 115.27 |
| 116.1 | 117.9 | 116.9 | 117.2 | 119.0 | 121.5 | 106.8 | 118.1 | 116.0 | 117.0 | 114.8 | 118.0 | 117.51 |
| 122.0 | 123.8 | 120.1 | 121.0 | 120.0 | 115.7 | 121.1 | 116.8 | 107.4 | 115.1 | 120.4 | 119.3 | 117.07 |
| 117.8 | 118.1 | 118.0 | 118.4 | 117.8 | 118.4 | 117.6 | 116.6 | 116.0 | 117.0 | 117.4 | 117.3 | 117.62 |
| 117.4 | 118.2 | 118.7 | 118.1 | 119.2 | 118.5 | 117.7 | 119.5 | 119.3 | 112.4 | 116.1 | 125.0 | — |
| 125.2 | 123.2 | 127.6 | 117.4 | 118.0 | 118.8 | — | — | — | — | — | — | 113.77 |
| — | — | — | — | — | — | 121.0 | 111.5 | 115.9 | 118.3 | 117.3 | 108.0 | 117.30 |
| 117.6 | 116.7 | 118.3 | 126.0 | 129.3 | 126.2 | 107.6 | 104.5 | 118.8 | 120.0 | 113.4 | 118.0 | 116.15 |
| 117.8 | 119.0 | 118.6 | 120.0 | 120.8 | 117.0 | 117.6 | 117.8 | 115.3 | 116.6 | 116.1 | 118.0 | 116.67 |
| 117.7 | 117.9 | 117.8 | 118.0 | 116.3 | 116.6 | 118.2 | 118.1 ^a | 115.0 | 118.3 | 118.0 | 117.8 | 116.80 |
| 117.1 | 118.5 | 118.2 | 126.2 | 120.0 | 121.2 | 118.1 | 117.9 | 118.6 | 122.0 | 101.9 | 118.0 | 116.28 |
| 122.4 | 116.4 | 126.4 | 132.4 | 125.9 | 100.2 | 97.2 | 113.9 | 114.4 | 118.0 | 107.5 | 114.6 | — |
| 118.1 | 119.0 | 119.0 | 118.9 | 118.5 | 117.0 | — | — | — | — | — | — | 115.59 |
| — | — | — | — | — | — | 117.0 | 116.2 | 115.2 | 116.2 | 114.9 | 117.8 | 117.82 |
| 119.2 | 119.0 | 119.3 | 119.8 | 119.2 | 124.0 | 118.0 | 115.2 | 116.0 | 117.2 | 119.4 | 118.4 | 118.01 |
| 119.0 | 118.6 | 120.7 | 121.4 | 119.4 | 118.0 | 117.2 | 116.8 | 117.6 | 117.4 | 120.8 | 119.8 | 118.79 |
| 117.4 | 123.0 | 118.3 | 121.3 | 124.1 | 123.3 | 124.6 | 118.0 | 117.2 | 119.5 | 117.8 | 112.0 | 118.03 |
| 118.8 | 118.3 | 118.5 | 124.4 | 122.4 | 123.3 | 127.3 | 118.4 | 118.1 | 120.6 | 120.0 | 120.5 | 117.65 |
| 117.7 | 118.0 | 119.0 | 118.8 | 119.0 | 118.0 | 118.0 | 117.0 | 117.6 | 117.8 | 118.0 | 118.2 | 117.38 |
| 117.3 | 117.2 | 117.8 | 118.2 | 118.0 | 118.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 118.2 | 117.8 | 117.4 | 118.0 | 118.5 | 117.4 | — |
| 117.85 | 118.87 | 119.60 | 120.47 | 119.83 | 118.50 | 117.36 | 116.88 | 116.60 | 118.05 | 116.70 | 118.06 | 117.14 |
| 117.1 | 118.3 | 120.0 | 121.4 | 118.2 | 118.3 | 117.5 | 116.7 | 116.1 | 117.4 | 118.4 | 117.9 | 117.60 |
| 117.0 | 117.8 | 118.8 | 118.8 | 119.3 | 118.1 | — | — | — | — | — | — | 117.77 |
| 117.8 | 117.5 | 117.8 | 118.6 | 119.0 | 118.6 | 118.2 | 118.0 | 118.1 | 117.6 | 118.0 | 120.6 | 117.05 |
| 119.8 | 118.5 | 118.5 | 127.2 | 127.0 | 118.0 | 122.3 | 118.0 | 115.0 | 116.7 | 114.8 | 117.0 | 117.21 |
| 117.7 | 117.4 | 117.8 | 118.8 | 118.1 | 117.2 | 118.0 | 117.7 | 118.1 | 117.1 | 117.0 | 117.4 | 117.39 |
| 117.1 | 117.1 | 117.9 | 118.0 | 117.8 | 117.3 | 118.0 | 118.3 | 117.0 | 117.4 | 117.0 | 118.2 | — |
| 117.0 | 117.8 | 118.8 | 118.8 | 119.3 | 118.1 | — | — | — | — | — | — | 117.65 |
| — | — | — | — | — | — | 118.2 | 118.9 | 118.6 | 117.7 | 118.6 | 119.0 | 118.05 |
| 118.4 | 117.6 | 118.0 | 118.4 | 116.8 | 123.9 | 120.2 | 119.1 | 119.0 | 119.1 | 121.2 | 118.1 | 117.84 |
| 119.3 | 118.8 | 118.6 | 118.0 | 118.0 | 117.9 | 117.6 | 117.3 | 117.0 | 117.7 | 118.2 | 118.6 | 117.61 |
| 119.2 | 118.5 | 118.5 | 118.3 | 118.2 | 119.8 | 117.9 | 117.0 | 117.0 | 115.8 | 119.0 | 119.2 | 117.70 |
| 118.1 | 118.2 | 118.6 | 118.8 | 119.1 | 121.0 | 118.8 | 118.0 | 115.5 | 117.4 | 117.0 | 118.8 | 117.59 |
| 118.1 | 118.5 | 118.7 | 118.3 | 118.0 | 118.3 | 117.2 | 117.0 | 117.2 | 117.3 | 118.8 | 119.9 | — |
| 117.2 | 119.0 | 118.0 | 124.2 | 141.3 | 123.9 | — | — | — | — | — | — | 116.80 |
| — | — | — | — | — | — | 118.3 | 114.0 | 114.2 | 117.0 | 116.8 | 117.0 | 117.18 |
| 118.0 | 128.2 | 118.6 | 118.7 | 119.7 | 119.3 | 118.2 | 117.5 | 115.1 | 117.0 | 117.2 | 117.0 | 117.97 |
| 118.0 | 118.4 | 118.8 | 118.7 | 118.0 | 124.8 | 117.7 | 117.7 | 116.6 | 117.2 | 118.0 | 119.0 | 119.15 |
| 117.1 | 118.0 | 119.5 | 119.7 | 119.0 | 118.6 | 119.8 | 117.4 | 116.0 | 120.6 | 132.8 | 125.0 | 117.45 |
| 117.8 | 118.2 | 119.8 | 120.0 | 121.4 | 122.6 | 121.0 | 119.5 | 117.0 | 118.2 | 119.6 | 120.8 | 118.27 |
| 118.7 | 125.6 | 129.0 | 123.9 | 126.6 | 124.9 | 126.0 | 124.3 | 116.4 | 117.1 | 117.0 | 109.1 | — |
| 120.0 | 118.2 | 119.5 | 120.8 | 119.3 | 117.6 | — | — | — | — | — | — | 116.09 |
| — | — | — | — | — | — | 116.4 | 116.7 | 116.7 | 117.7 | 117.0 | 117.8 | 117.67 |
| 118.2 | 118.7 | 118.7 | 120.0 | 118.9 | 118.0 | 116.8 | 116.4 | 116.5 | 116.9 | 117.0 | 117.8 | 117.59 |
| 117.8 | 119.0 | 119.0 | 118.2 | 118.8 | 117.8 | — | — | — | — | — | — | 117.06 |
| — | — | — | — | — | — | 117.0 ^e | 117.0 | 117.0 | 117.3 | 118.1 | 117.2 | 117.66 |
| 116.2 | 118.0 | 117.8 | 119.0 | 119.0 | 121.2 | 122.8 | 121.0 | 118.6 | 117.3 | 118.0 | 116.6 | 116.95 |
| 115.0 | 120.5 | 116.8 | 118.7 | 118.0 | 117.0 | 118.0 | 118.5 | 117.8 | 118.2 | 118.3 | 118.0 | 118.57 |
| 117.2 | 117.8 | 117.4 | 119.0 | 118.8 | 118.1 | — | — | — | — | — | — | 119.64 |
| — | — | — | — | — | — | 115.0 | 116.4 | 118.4 | 114.0 | 118.6 | 118.6 | — |
| 119.0 | 127.0 | 124.0 | 122.2 | 129.0 | 124.0 | 119.8 | 118.6 | 118.2 | 116.1 | 113.2 | 112.2 | — |
| 119.0 | 118.6 | 121.0 | 120.4 | 128.3 | 119.2 | 118.9 | 117.6 | 115.1 | 115.9 | 115.0 | 117.7 | — |
| 117.92 | 119.32 | 119.24 | 119.92 | 121.02 | 119.82 | 118.78 | 117.94 | 116.89 | 117.27 | 118.18 | 117.94 | 117.66 |

^e Five minutes late.

^f Christmas-day.

^g Twelve minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| JANUARY. | 1 | 530·0 | 531·5 | 534·0 | 534·0 | 528·0 | 517·0 | 517·6 | 521·0 | 524·0 | 525·0 | 520·8 | 525·3 |
| | 2 | 524·0 | 520·0 | 521·0 | 530·5 | 530·2 | 523·1 | 522·6 | 513·7 | 512·1 | 514·6 | 513·5 | 516·5 |
| | 3 | 519·0 | 519·5 | 520·1 | 518·3 | 511·5 | 506·0 | 507·5 | 511·3 | 514·3 | 515·6 | 518·7 | 517·8 |
| | 4 | 524·3 | 522·0 | 528·0 | 524·5 | 524·8 | 522·3 | 517·5 | 522·0 | 521·9 | 523·6 | 524·0 | 526·7 |
| | 5 | 526·0 | 529·0 | 519·8 | 521·3 | 515·0 | 512·5 | 509·8 | 514·5 | 506·3 | 516·6 | 519·5 | 521·4 |
| | 6 | 519·0 | 522·0 | 516·9 | 517·0 | 506·0 | 513·5 | 510·0 | 515·7 | 517·7 | 511·6 | 514·2 | 518·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 528·0 | 526·0 | 524·9 | 526·5 | 528·3 | 526·0 | 519·0 | 515·8 | 524·1 | 524·0 | 528·1 | 518·4 |
| | 9 | 529·0 | 526·5 | 526·1 | 524·5 | 522·8 | 519·8 | 510·5 | 513·0 | 512·9 | 516·0 | 526·2 | 526·1 |
| | 10 | 522·5 | 525·0 | 521·3 | 515·5 | 517·0 | 515·0 | 510·0 | 512·8 | 517·2 | 520·5 | 519·3 | 516·9 |
| | 11 | 524·0 | 523·5 | 521·0 | 526·0 | 523·3 | 520·5 | 516·0 | 514·5 | 517·2 | 524·6 | 529·7 | 527·1 |
| | 12 | 525·0 | 525·5 | 523·5 | 520·5 | 510·8 | 510·3 | 512·2 | 515·7 | 521·5 | 525·6 | 516·5 | 527·0 |
| | 13 | 517·0 | 518·0 | 515·8 | 511·0 | 504·6 | 502·4 | 504·1 | 511·7 | 517·0 | 523·8 | 527·5 | 522·8 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 530·0 | 530·0 | 527·9 | 524·0 | 520·0 | 515·1 | 514·5 | 518·7 | 521·5 | 527·8 | 530·1 | 529·0 |
| | 16 | 526·0 | 526·0 | 525·8 | 521·0 | 516·0 | 513·3 | 513·6 | 517·6 | 521·0 | 523·6 | 525·1 | 525·0 |
| | 17 | 518·0 | 520·0 | 521·0 | 517·0 | 509·0 | 502·0 | 503·0 | 504·2 | 509·3 | 511·8 | 523·2 | 521·5 |
| | 18 | 524·0 | 526·0 | 526·3 | 521·5 | 514·3 | 513·0 | 516·0 | 521·3 | 520·6 | 521·1 | 524·8 | 521·2 |
| | 19 | 523·0 | 524·0 | 523·8 | 524·0 | 526·0 | 521·0 | 520·0 | 520·6 | 525·6 | 526·5 | 527·0 | 525·7 |
| | 20 | 529·5 | 532·5 | 530·4 | 528·0 | 525·0 | 526·0 | 528·0 | 527·5 | 525·8 | 528·5 | 431·9 | 530·6 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 545·5 | 547·0 | 544·0 | 539·0 | 547·0 | 539·0 | 539·0 | 540·0 | 536·8 | 540·0 | 538·2 | 536·8 |
| | 23 | 528·0 | 528·0 | 527·3 | 524·0 | 522·0 | 523·0 | 528·0 | 531·2 | 535·3 | 533·0 | 531·8 | 528·4 |
| | 24 | 520·8 | 520·5 | 517·5 | 510·0 | 504·0 | 504·1 | 509·5 | 514·5 | 522·6 | 527·9 | 530·8 | 530·7 |
| | 25 | 527·5 | 531·1 | 535·0 | 530·4 | 534·8 | 525·6 | 522·6 | 526·3 | 534·2 | 536·4 | 541·1 | 538·7 |
| | 26 | 544·3 | 544·8 | 542·2 | 537·9 | 535·0 | 534·5 | 536·3 | 537·9 | 539·8 | 542·3 | 545·2 | 540·6 |
| | 27 | 545·5 | 545·6 | 544·8 | 542·3 | 538·6 | 535·3 | 538·5 | 540·6 | 539·8 | 539·0 | 540·8 | 540·0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 550·0 | 549·0 | 546·0 | 546·8 | 543·0 | 541·5 | 537·0 | 540·3 | 538·7 | 542·7 | 543·0 | 543·2 |
| | 30 | 545·3 | 542·8 | 545·0 | 545·0 | 542·0 | 535·7 | 535·3 | 536·7 | 539·7 | 535·0 | 534·2 | 535·9 |
| | 31 | 553·6 | 553·8 | 539·0 | 539·3 | 536·5 | 533·7 | 535·2 | 542·0 | 537·2 | 529·5 | 539·0 | 541·2 |
| Hourly Means | 529·59 | 529·99 | 528·46 | 526·66 | 523·54 | 520·41 | 519·75 | 522·26 | 524·23 | 526·17 | 528·30 | 527·87 | |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| JANUARY. | 1 | 36·0 | 36·5 | 36·5 | 36·5 | 37·0 | 37·5 | 38·0 | 38·5 | 39·0 | 39·5 | 40·5 | 40·4 |
| | 2 | 39·5 | 39·5 | 39·5 | 39·5 | 39·5 | 39·8 | 40·0 | 40·4 | 40·4 | 40·6 | 40·6 | 40·8 |
| | 3 | 44·5 | 44·5 | 44·6 | 44·9 | 44·9 | 44·9 | 45·0 | 45·2 | 45·0 | 45·0 | 45·4 | 45·4 |
| | 4 | 44·0 | 43·8 | 43·0 | 42·4 | 42·0 | 41·8 | 41·6 | 41·5 | 41·5 | 41·8 | 41·7 | 41·2 |
| | 5 | 40·2 | 39·8 | 38·8 | 39·0 | 39·5 | 40·5 | 40·6 | 40·8 | 41·2 | 41·8 | 42·2 | 42·0 |
| | 6 | 41·0 | 41·0 | 40·8 | 40·6 | 41·0 | 41·2 | 41·5 | 42·0 | 42·0 | 42·0 | 41·8 | 41·4 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 33·1 | 33·0 | 33·0 | 33·1 | 33·8 | 34·5 | 35·5 | 35·4 | 36·5 | 37·2 | 37·5 | 37·5 |
| | 9 | 35·5 | 35·5 | 34·7 | 34·6 | 35·5 | 36·0 | 36·0 | 36·4 | 36·8 | 37·4 | 37·8 | 37·8 |
| | 10 | 40·8 | 40·6 | 40·5 | 40·4 | 40·5 | 41·0 | 41·5 | 41·6 | 41·5 | 42·9 | 42·4 | 41·6 |
| | 11 | 37·6 | 37·2 | 36·0 | 36·5 | 36·5 | 37·0 | 37·5 | 38·2 | 38·5 | 39·4 | 39·5 | 39·2 |
| | 12 | 40·5 | 41·0 | 40·5 | 40·5 | 41·0 | 41·2 | 42·0 | 42·0 | 42·4 | 43·0 | 43·5 | 43·0 |
| | 13 | 45·4 | 45·2 | 45·0 | 44·5 | 43·6 | 43·5 | 43·4 | 43·9 | 42·1 | 42·2 | 42·8 | 43·1 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 36·0 | 36·0 | 36·0 | 37·4 | 38·5 | 39·5 | 39·5 | 39·8 | 40·2 | 40·2 | 40·4 | 40·0 |
| | 16 | 42·0 | 42·5 | 42·2 | 42·4 | 42·5 | 43·0 | 43·9 | 44·4 | 44·6 | 45·0 | 45·1 | 45·5 |
| | 17 | 47·0 | 47·0 | 46·0 | 45·5 | 45·0 | 45·0 | 45·2 | 45·5 | 45·4 | 45·2 | 45·2 | 44·6 |
| | 18 | 41·5 | 41·5 | 40·5 | 40·5 | 40·5 | 41·0 | 41·0 | 41·0 | 40·8 | 41·2 | 41·6 | 41·3 |
| | 19 | 39·6 | 39·4 | 39·0 | 38·6 | 38·5 | 38·6 | 39·4 | 39·3 | 39·6 | 39·9 | 40·0 | 40·0 |
| | 20 | 35·5 | 35·3 | 34·5 | 34·8 | 35·5 | 36·4 | 36·5 | 36·5 | 36·6 | 36·8 | 37·0 | 36·8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 29·2 | 29·5 | 29·4 | 30·0 | 31·0 | 32·0 | 32·5 | 33·3 | 33·8 | 34·2 | 34·2 | 34·4 |
| | 23 | 39·0 | 39·0 | 39·7 | 40·1 | 40·5 | 41·2 | 42·0 | 42·8 | 44·0 | 45·1 | 46·0 | 46·4 |
| | 24 | 43·5 | 43·2 | 43·0 | 43·0 | 43·0 | 43·2 | 43·0 | 42·7 | 42·2 | 41·9 | 41·6 | 41·6 |
| | 25 | 34·5 | 34·0 | 32·8 | 32·0 | 31·6 | 32·0 | 32·5 | 32·5 | 32·4 | 32·4 | 32·4 | 32·2 |
| | 26 | 24·5 | 24·5 | 24·5 | 24·5 | 24·5 | 25·5 | 26·0 | 26·5 | 26·5 | 27·2 | 28·4 | 28·6 |
| | 27 | 25·0 | 25·0 | 24·7 | 25·0 | 26·0 | 27·0 | 27·8 | 28·8 | 29·6 | 30·6 | 30·4 | 30·4 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 23·5 | 23·5 | 23·5 | 23·0 | 23·0 | 24·5 | 25·6 | 26·7 | 27·5 | 28·5 | 29·2 | 29·2 |
| | 30 | 31·0 | 31·0 | 31·0 | 31·0 | 32·0 | 33·0 | 34·4 | 35·5 | 36·0 | 36·8 | 37·2 | 36·4 |
| | 31 | 32·6 | 32·0 | 31·5 | 32·0 | 33·4 | 33·6 | 33·5 | 33·5 | 33·6 | 34·2 | 34·8 | 34·6 |
| Hourly Means | 37·13 | 37·07 | 36·71 | 36·75 | 37·05 | 37·57 | 37·98 | 38·32 | 38·51 | 38·93 | 39·23 | 39·09 | |

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 525.0 | 524.0 | 523.2 | 521.0 | 519.7 | 524.8 | 524.1 | 524.6 | 525.1 | 526.6 | 524.9 | 527.0 | 524.93 |
| 517.1 | 518.4 | 517.8 | 520.0 | 519.8 | 518.1 | 518.4 | 519.2 | 519.2 | 519.3 | 519.2 | 518.8 | 519.46 |
| 517.5 | 514.2 | 515.0 | 515.0 | 516.0 | 517.2 | 518.1 | 519.6 | 517.7 | 516.7 | 521.2 | 523.0 | 516.28 |
| 525.4 | 521.0 | 523.8 | 521.4 | 516.8 | 517.2 | 511.1 | 500.8 | 527.4 | 525.9 | 529.0 | 517.5 | 521.62 |
| 522.6 | 523.1 | 522.6 | 526.0 | 523.7 | 522.9 | 516.0 | 524.0 | 520.4 | 523.4 | 515.6 | 513.0 | 519.38 |
| 518.2 | 523.8 | 521.8 | 524.0 | 522.8 | 518.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 523.5 | 523.4 | 523.4 | 527.0 | 528.1 | 529.2 | 519.39 |
| 515.6 | 518.0 | 529.0 | 521.0 | 532.0 | 528.8 | 525.0 | 521.6 | 523.1 | 524.6 | 528.2 | 527.5 | 524.31 |
| 524.6 | 527.0 | 526.4 | 523.1 | 523.0 | 521.6 | 521.8 | 518.3 | 524.8 | 525.0 | 524.1 | 522.8 | 522.32 |
| 516.0 | 516.0 | 516.2 | 517.1 | 521.2 | 520.4 | 521.0 | 521.2 | 520.4 | 522.8 | 524.8 | 525.0 | 518.96 |
| 524.9 | 517.5 | 522.7 | 528.0 | 526.0 | 525.0 | 525.0 | 525.0 | 522.5 | 523.5 | 525.0 | 525.0 | 523.22 |
| 522.2 | 522.0 | 523.0 | 521.8 | 521.0 | 518.8 | 519.8 | 521.2 | 520.0 | 518.4 | 517.0 | 517.0 | 519.85 |
| 522.0 | 522.0 | 520.6 | 518.4 | 517.7 | 518.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 525.0 | 521.9 | 522.0 | 524.2 | 528.2 | 530.0 | 518.59 |
| 524.6 | 522.5 | 520.1 | 520.0 | 521.3 | 521.5 | 522.2 | 524.8 | 524.6 | 525.3 | 525.5 | 525.0 | 523.58 |
| 521.4 | 521.0 | 521.0 | 514.3 | 514.6 | 512.7 | 515.5 | 515.6 | 514.8 | 517.2 | 518.5 | 519.0 | 519.15 |
| 520.9 | 521.0 | 520.6 | 519.0 | 518.2 | 517.4 | 517.4 | 519.0 | 520.7 | 518.9 | 521.2 | 523.5 | 516.58 |
| 516.5 | 525.0 | 524.4 | 522.4 | 522.2 | 518.8 | 521.2 | 521.9 | 520.0 | 522.2 | 524.5 | 524.3 | 521.40 |
| 526.5 | 523.1 | 525.4 | 522.9 | 525.4 | 525.0 | 523.6 | 521.6 | 519.0 | 525.5 | 526.4 | 529.3 | 524.20 |
| 530.2 | 531.4 | 530.6 | 531.0 | 530.0 | 531.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 539.0 | 540.1 | 540.5 | 543.7 | 545.4 | 545.5 | 532.59 |
| 536.0 | 534.7 | 537.6 | 535.6 | 533.9 | 535.4 | 530.1 | 525.8 | 523.5 | 523.2 | 524.4 | 526.6 | 535.80 |
| 527.2 | 523.3 | 524.0 | 525.8 | 524.5 | 523.1 | 519.0 | 519.8 | 523.1 | 522.0 | 519.8 | 521.0 | 525.53 |
| 529.3 | 533.0 | 528.9 | 517.8 | 506.2 | 496.5 | 500.0 | 502.6 | 508.3 | 507.9 | 525.3 | 530.3 | 516.63 |
| 535.4 | 535.0 | 533.1 | 532.3 | 526.6 | 534.6 | 545.7 | 538.9 | 538.7 | 540.3 | 541.5 | 544.0 | 530.58 |
| 539.2 | 541.1 | 539.0 | 540.0 | 541.7 | 548.1 | 542.6 | 544.8 | 546.2 | 547.0 | 545.3 | 548.5 | 541.84 |
| 545.3 | 542.7 | 536.9 | 534.6 | 533.0 | 537.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | 542.4 | 545.0 | 539.0 | 542.2 | 548.0 | 540.74 |
| 543.8 | 538.2 | 543.1 | 542.0 | 541.5 | 541.2 | 539.9 | 538.3 | 538.8 | 540.8 | 539.8 | 541.2 | 542.07 |
| 528.9 | 528.0 | 532.2 | 531.0 | 530.8 | 525.7 | 528.8 | 529.6 | 530.5 | 532.8 | 534.0 | 537.0 | 535.08 |
| 542.6 | 540.0 | 539.2 | 533.1 | 541.2 | 540.5 | 546.8 | 541.0 | 538.5 | 537.5 | 541.5 | 539.5 | 540.06 |
| 526.63 | 526.19 | 526.60 | 525.13 | 524.84 | 524.46 | 524.64 | 524.70 | 525.86 | 526.69 | 528.17 | 528.83 | 525.33 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 40.2 | 40.2 | 40.0 | 39.6 | 38.4 | 38.4 | 38.5 | 38.5 | 38.6 | 39.0 | 38.7 | 39.3 | 38.55 |
| 40.8 | 41.4 | 41.8 | 42.2 | 42.0 | 42.0 | 42.2 | 43.0 | 43.8 | 44.5 | 45.0 | 44.5 | 41.39 |
| 45.3 | 45.0 | 44.7 | 44.5 | 44.5 | 44.8 | 45.0 | 45.0 | 44.8 | 44.8 | 44.6 | 44.0 | 44.85 |
| 41.5 | 41.7 | 41.5 | 41.4 | 40.4 | 40.8 | 41.2 | 40.6 | 41.4 | 41.3 | 41.0 | 40.6 | 41.65 |
| 41.8 | 41.0 | 40.6 | 40.3 | 40.4 | 40.6 | 40.4 | 40.5 | 40.7 | 40.7 | 40.7 | 41.0 | 40.63 |
| 41.9 | 42.0 | 41.9 | 41.8 | 41.5 | 41.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.3 | 33.8 | 33.5 | 33.1 | 33.1 | 33.1 | 39.49 |
| 37.8 | 37.2 | 36.6 | 36.0 | 35.6 | 35.3 | 35.3 | 35.0 | 34.7 | 35.0 | 35.4 | 35.5 | 35.40 |
| 37.8 | 38.3 | 38.8 | 39.0 | 39.5 | 40.2 | 40.5 | 40.8 | 41.0 | 40.8 | 41.2 | 40.7 | 38.03 |
| 41.2 | 41.0 | 40.6 | 40.4 | 40.4 | 40.2 | 39.6 | 38.6 | 38.2 | 37.7 | 37.7 | 38.0 | 40.33 |
| 37.4 | 37.8 | 37.5 | 37.5 | 38.0 | 37.8 | 38.4 | 38.5 | 38.8 | 39.5 | 39.8 | 40.0 | 38.13 |
| 43.2 | 43.6 | 44.0 | 44.2 | 44.0 | 44.0 | 44.0 | 44.5 | 45.0 | 45.5 | 45.6 | 45.4 | 43.07 |
| 43.5 | 43.5 | 43.7 | 43.6 | 43.0 | 43.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 35.8 | 35.8 | 35.8 | 36.0 | 36.0 | 36.0 | 41.68 |
| 40.0 | 40.0 | 40.4 | 40.5 | 40.5 | 40.7 | 41.4 | 41.7 | 42.0 | 41.8 | 41.8 | 41.5 | 39.83 |
| 46.1 | 46.4 | 46.5 | 46.8 | 46.5 | 46.8 | 46.6 | 46.0 | 46.0 | 46.4 | 46.6 | 47.0 | 45.03 |
| 44.4 | 44.0 | 44.0 | 43.5 | 43.1 | 42.6 | 42.2 | 41.8 | 41.8 | 42.0 | 42.0 | 41.6 | 44.15 |
| 41.4 | 41.0 | 41.0 | 40.7 | 41.1 | 41.8 | 41.8 | 41.5 | 41.2 | 40.8 | 40.5 | 40.1 | 41.05 |
| 40.2 | 40.2 | 39.7 | 39.0 | 38.8 | 38.5 | 38.4 | 38.0 | 37.4 | 36.2 | 36.3 | 36.2 | 38.78 |
| 36.5 | 36.4 | 36.0 | 35.6 | 35.1 | 34.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 27.5 | 27.4 | 27.3 | 27.5 | 27.8 | 28.6 | 33.85 |
| 34.8 | 35.0 | 35.2 | 35.5 | 35.5 | 35.6 | 36.4 | 36.6 | 37.1 | 37.7 | 38.1 | 38.6 | 34.15 |
| 46.4 | 45.7 | 45.1 | 45.1 | 44.4 | 44.8 | 44.4 | 44.5 | 44.2 | 44.0 | 43.5 | 43.5 | 43.35 |
| 42.0 | 41.9 | 41.8 | 41.6 | 41.4 | 40.0 | 38.8 | 38.0 | 37.3 | 36.6 | 36.2 | 35.0 | 40.94 |
| 31.6 | 31.2 | 30.5 | 29.5 | 28.9 | 28.4 | 27.5 | 26.2 | 25.4 | 24.6 | 24.4 | 24.5 | 30.17 |
| 28.6 | 28.2 | 27.8 | 27.5 | 26.6 | 26.4 | 26.3 | 26.2 | 26.0 | 25.8 | 25.5 | 25.4 | 26.31 |
| 30.5 | 30.4 | 30.2 | 30.0 | 29.5 | 29.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | 25.3 | 24.7 | 24.0 | 24.0 | 24.0 | 27.48 |
| 29.3 | 29.4 | 29.8 | 29.4 | 29.9 | 30.0 | 30.1 | 30.0 | 30.4 | 30.5 | 30.8 | 31.0 | 27.85 |
| 36.9 | 37.1 | 36.7 | 36.0 | 35.7 | 35.5 | 35.4 | 34.6 | 34.2 | 34.0 | 33.6 | 33.5 | 34.52 |
| 34.0 | 35.2 | 35.4 | 35.0 | 34.6 | 34.6 | 34.2 | 33.2 | 32.3 | 32.6 | 33.0 | 33.0 | 33.60 |
| 39.11 | 39.07 | 38.96 | 38.75 | 38.49 | 38.44 | 37.93 | 37.24 | 37.17 | 37.13 | 37.14 | 37.10 | 37.95 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|------------------|--------------------|--------------------|-------------------|-------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| FEBRUARY. | 1 | 535.5 | 536.3 | 540.8 | 544.0 | 530.0 | 519.0 | 523.6 | 525.0 | 531.5 | 515.3 | 514.3 | 531.6 |
| | 2 | 530.0 | 529.0 | 526.0 | 531.5 | 526.0 | 520.5 ^a | 500.6 | 524.3 | 531.9 | 533.8 | 532.9 | 531.8 |
| | 3 | 522.0 | 520.0 | 518.8 | 516.0 | 515.0 | 515.0 | 514.0 | 517.0 | 513.6 | 521.8 | 524.5 | 521.8 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 515.0 | 521.0 | 525.6 | 524.0 | 512.5 | 513.5 | 509.5 | 509.0 | 518.4 | 519.4 | 507.0 | 520.9 |
| | 6 | 514.5 | 515.5 | 516.8 | 509.5 | 510.0 | 506.0 | 501.3 | 507.6 | 516.6 | 520.5 | 507.8 | 515.0 |
| | 7 | 520.0 | 518.0 | 517.3 | 516.0 | 519.0 | 515.3 | 510.5 ^a | 516.3 | 519.9 | 514.5 | 492.1 | 511.8 |
| | 8 | 517.0 | 518.0 | 513.9 | 512.0 | 503.0 ^b | 494.5 | 504.5 | 508.0 | 514.2 | 519.5 | 515.4 | 516.1 |
| | 9 | 525.0 | 523.8 | 522.1 | 519.5 | 516.5 | 518.0 | 517.0 | 519.7 | 526.8 ^c | 532.8 | 531.2 | 530.6 |
| | 10 | 534.0 | 532.0 | 530.0 | 524.5 | 523.8 | 521.5 | 520.0 | 521.8 | 525.0 | 517.4 | 522.2 | 524.5 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 530.0 | 530.3 | 527.5 | 528.5 | 524.5 | 521.5 | 518.5 ^c | 522.8 | 521.9 | 525.6 | 522.3 | 521.6 |
| | 13 | 524.0 | 524.0 | 521.0 | 518.5 | 516.8 | 517.9 | 518.0 | 518.0 | 520.0 | 522.8 | 521.0 | 519.0 |
| | 14 | 522.0 | 523.0 | 521.3 | 519.5 | 519.3 | 519.5 | 520.0 | 523.4 | 526.6 | 528.9 | 525.9 | 525.5 |
| | 15 | 526.0 | 525.0 | 520.5 | 522.0 | 524.0 | 520.5 | 526.0 | 527.4 | 528.1 | 523.4 ^d | 517.8 | 519.0 |
| | 16 | 523.0 | 520.0 | 522.0 | 522.0 | 523.0 | 523.0 | 522.0 | 522.5 | 523.0 | 521.6 | 518.3 | 513.8 |
| | 17 | 526.5 | 524.5 | 520.4 | 517.0 | 517.0 | 516.0 | 519.0 | 524.5 | 526.8 | 529.5 | 520.3 | 523.5 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 534.0 | 533.0 | 529.8 | 526.0 | 523.1 | 518.0 | 515.5 | 518.3 | 521.3 | 528.7 | 529.0 | 528.5 |
| | 20 | 527.0 | 526.0 | 522.0 | 520.0 | 518.0 | 515.0 | 510.5 | 512.3 | 514.0 | 518.7 | 522.6 | 522.5 |
| | 21 | 518.0 | 517.5 | 517.1 | 515.5 | 515.0 | 511.8 | 510.5 | 511.9 | 511.3 | 515.0 | 519.5 | 519.0 |
| | 22 | 517.0 | 516.5 | 516.0 | 516.0 | 516.0 | 513.0 ^c | 511.0 | 510.0 | 505.8 | 510.4 | 514.0 | 511.2 |
| | 23 | 516.0 | 515.0 | 512.0 | 509.5 | 508.0 | 506.0 | 508.8 | 509.7 | 515.5 | 516.3 | 517.5 | 519.0 |
| | 24 | 524.4 | 523.3 | 519.8 | 518.6 | 519.1 | 521.9 | 527.0 | 528.0 | 530.6 | 527.4 | 528.4 | 525.4 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 523.0 | 529.0 | 531.5 | 534.0 | 530.0 | 527.4 | 521.8 | 522.1 | 524.8 | 525.1 | 527.3 | 528.0 |
| | 27 | 524.0 | 525.0 | 523.0 | 522.0 | 521.0 | 518.0 | 517.0 | 520.0 | 521.8 | 522.7 | 526.0 | 528.8 |
| | 28 | 528.0 | 526.0 | 524.4 | 521.0 | 520.5 | 523.8 | 524.5 | 515.5 | 508.8 | 514.1 | 509.9 | 509.1 |
| | 29 | 507.0 | 509.0 | 509.3 | 506.0 | 506.6 | 506.0 | 510.5 | 506.8 | 514.3 | 515.2 | 517.2 | 511.5 |
| Hourly Means | 523.32 | 523.23 | 521.96 | 520.52 | 518.31 | 516.10 | 515.26 | 517.68 | 520.50 | 521.66 | 519.38 | 521.18 | |
| TEMPERATURE OF THE BIPILAR MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| FEBRUARY. | 1 | 32.5 | 32.4 | 31.5 | 32.0 | 32.5 | 33.8 | 34.8 | 35.5 | 35.8 | 36.2 | 36.5 | 36.0 |
| | 2 | 37.5 | 37.5 | 37.5 | 37.5 | 37.7 | 38.4 ^a | 39.6 | 39.8 | 40.4 | 41.2 | 41.7 | 41.8 |
| | 3 | 40.5 | 40.5 | 40.5 | 41.3 | 42.5 | 43.0 | 43.5 | 43.4 | 43.7 | 44.1 | 44.4 | 44.2 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 38.0 | 38.5 | 38.5 | 38.7 | 39.5 | 40.5 | 41.0 | 41.2 | 41.8 | 42.6 | 42.8 | 42.6 |
| | 6 | 44.5 | 44.6 | 44.5 | 44.5 | 44.5 | 45.0 | 45.5 | 45.7 | 46.2 | 46.5 | 46.4 | 46.2 |
| | 7 | 42.0 | 41.5 | 41.4 | 41.5 | 43.0 | 44.0 | 44.5 ^a | 44.4 | 44.5 | 44.4 | 44.5 | 44.6 |
| | 8 | 41.0 | 40.7 | 40.0 | 40.0 | 40.5 ^b | 41.4 | 41.6 | 42.4 | 43.2 | 43.8 | 43.8 | 43.1 |
| | 9 | 37.2 | 36.0 | 35.4 | 35.8 | 36.2 | 37.0 | 37.0 | 37.0 | 37.2 ^c | 38.1 | 38.3 | 38.4 |
| | 10 | 37.0 | 37.0 | 36.8 | 36.6 | 37.0 | 37.6 | 38.6 | 39.2 | 40.0 | 40.4 | 40.6 | 40.6 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 38.0 | 37.6 | 37.6 | 38.5 | 40.3 | 41.6 | 42.5 ^c | 43.1 | 43.8 | 43.7 | 45.1 | 44.7 |
| | 13 | 43.0 | 43.0 | 42.6 | 42.6 | 43.0 | 44.0 | 45.0 | 45.4 | 45.8 | 46.0 | 46.0 | 45.7 |
| | 14 | 43.5 | 43.3 | 42.5 | 42.5 | 42.5 | 42.7 | 43.5 | 44.2 | 44.4 | 45.0 | 45.4 | 45.5 |
| | 15 | 41.4 | 41.2 | 41.1 | 40.6 | 41.0 | 42.0 | 42.6 | 43.0 | 43.5 | 43.6 ^d | 43.4 | 43.4 |
| | 16 | 44.6 | 44.5 | 44.6 | 44.4 | 45.0 | 45.5 | 46.0 | 46.2 | 46.2 | 46.4 | 46.6 | 46.7 |
| | 17 | 43.0 | 43.0 | 42.0 | 41.6 | 42.3 | 42.6 | 42.7 | 43.2 | 43.6 | 43.7 | 43.6 | 42.6 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 36.5 | 36.7 | 37.4 | 39.0 | 40.4 | 41.5 | 42.0 | 42.5 | 43.4 | 44.5 | 45.8 | 46.4 |
| | 20 | 43.0 | 43.0 | 44.0 | 45.4 | 46.6 | 47.5 | 48.0 | 48.4 | 49.0 | 49.4 | 49.8 | 49.8 |
| | 21 | 47.2 | 47.5 | 47.5 | 48.0 | 48.5 | 49.0 | 49.5 | 49.7 | 50.3 | 50.6 | 51.0 | 51.3 |
| | 22 | 47.5 | 47.5 | 47.5 | 47.8 | 49.0 | 49.5 ^c | 50.0 | 50.2 | 50.8 | 52.0 | 53.0 | 53.4 |
| | 23 | 47.5 | 47.0 | 46.4 | 46.0 | 46.0 | 46.0 | 45.5 | 44.8 | 44.6 | 44.6 | 44.5 | 45.0 |
| | 24 | 43.0 | 42.6 | 42.8 | 42.4 | 43.0 | 43.6 | 44.0 | 44.4 | 44.6 | 45.0 | 45.6 | 43.5 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 38.5 | 38.5 | 39.0 | 40.3 | 41.5 | 42.5 | 43.3 | 44.1 | 44.7 | 44.8 | 44.7 | 44.4 |
| | 27 | 43.6 | 43.5 | 43.0 | 42.5 | 42.5 | 42.5 | 43.5 | 43.2 | 43.4 | 43.6 | 44.1 | 45.1 |
| | 28 | 42.5 | 42.5 | 43.0 | 44.2 | 45.5 | 46.5 | 47.4 | 47.8 | 48.0 | 48.5 | 48.7 | 47.5 |
| | 29 | 45.5 | 45.5 | 46.0 | 46.0 | 46.4 | 46.7 | 47.0 | 47.4 | 47.6 | 48.0 | 47.8 | 48.0 |
| Hourly Means | 41.54 | 41.42 | 41.32 | 41.59 | 42.28 | 42.98 | 43.54 | 43.85 | 44.26 | 44.67 | 44.96 | 44.90 | |

^a Two minutes late.

^b Four minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 530.4 | Sc. Div. 532.7 | Sc. Div. 530.0 | Sc. Div. 529.2 | Sc. Div. 526.1 | Sc. Div. 524.3 | Sc. Div. 525.6 | Sc. Div. 528.7 | Sc. Div. 524.9 | Sc. Div. 527.2 | Sc. Div. 527.8 | Sc. Div. 529.0 | Sc. Div. 528.45 |
| 515.5 | 519.0 | 517.0 | 512.0 | 515.4 | 499.6 | 511.9 | 512.9 | 520.2 | 515.8 | 517.4 | 521.0 | 520.67 |
| 517.8 | 510.0 | 504.9 | 519.9 | 515.9 | 517.1 | — | — | — | — | — | — | 519.86 |
| — | — | — | — | — | — | 527.9 | 529.2 | 530.6 | 527.5 | 532.4 | 524.0 | 519.86 |
| 511.5 | 512.5 | 528.7 | 525.4 | 521.0 | 523.9 | 520.4 | 510.4 | 503.4 | 500.0 | 507.2 | 513.5 | 515.57 |
| 516.8 | 515.5 | 515.9 | 514.7 | 513.7 | 515.0 | 515.4 | 512.3 | 510.6 | 514.2 | 516.3 | 517.4 | 513.29 |
| 510.2 | 507.0 | 509.8 | 514.2 | 514.3 | 517.5 | 518.3 | 519.2 | 516.0 | 512.9 | 515.6 | 518.0 | 514.32 |
| 522.8 | 522.3 | 501.3 | 508.7 | 518.6 | 519.5 | 518.6 | 518.1 | 520.0 | 520.9 | 521.3 | 525.5 | 514.74 |
| 530.0 | 532.3 | 530.0 | 531.6 | 527.7 | 526.9 | 525.5 | 525.0 | 527.0 | 524.7 | 526.2 | 531.0 | 525.87 |
| 511.3 | 522.3 | 526.1 | 524.9 | 525.3 | 525.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 525.0 | 524.4 | 526.2 | 527.8 | 528.8 | 530.0 | 524.78 |
| 521.6 | 521.3 | 521.0 | 522.0 | 521.9 | 518.5 | 517.2 | 516.9 | 518.1 | 520.0 | 520.1 | 523.0 | 522.40 |
| 516.2 | 524.5 | 523.8 | 524.1 | 521.1 | 520.2 | 521.0 | 518.8 | 520.0 | 520.0 | 521.0 | 522.0 | 520.57 |
| 524.9 | 525.0 | 525.6 | 525.0 | 522.9 | 520.8 | 522.0 | 523.8 | 521.0 | 520.6 | 519.0 | 522.0 | 522.81 |
| 520.7 | 523.2 | 522.0 | 521.2 | 520.9 | 520.0 | 518.6 | 520.0 | 520.0 | 519.4 | 521.0 | 521.3 | 522.00 |
| 514.0 | 517.7 | 521.0 | 521.0 | 515.0 | 515.0 | 518.0 | 519.0 | 519.8 | 520.0 | 521.9 | 523.0 | 519.98 |
| 525.0 | 515.0 | 514.1 | 517.0 | 514.8 | 516.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 517.0 | 528.8 | 527.0 | 531.5 | 532.9 | 535.0 | 522.50 |
| 524.7 | 524.2 | 522.7 | 525.0 | 522.0 | 525.2 | 526.0 | 526.0 | 523.9 | 521.9 | 521.3 | 525.0 | 524.71 |
| 523.4 | 523.4 | 520.2 | 519.3 | 521.1 | 518.5 | 517.5 | 518.2 | 518.6 | 518.2 | 517.8 | 518.0 | 519.28 |
| 516.6 | 508.6 | 511.6 | 513.2 | 514.2 | 513.4 | 511.9 | 510.9 | 507.1 | 511.6 | 511.4 | 513.0 | 513.57 |
| 509.9 | 511.8 | 512.9 | 511.0 ^d | 510.2 | 510.2 | 511.3 | 514.1 | 514.0 | 513.0 | 515.1 | 516.0 | 512.77 |
| 520.7 | 522.0 | 519.2 | 519.5 | 519.6 | 519.0 | 519.0 | 520.0 | 520.9 | 521.9 | 524.1 | 523.4 | 516.78 |
| 525.0 | 524.2 | 523.5 | 523.6 | 522.2 | 525.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 528.7 | 527.8 | 529.9 | 530.6 | 531.2 | 532.0 | 525.74 |
| 527.8 | 527.2 | 525.6 | 525.0 | 524.1 | 530.9 | 530.0 | 521.1 | 518.5 | 521.0 | 521.5 | 519.0 | 525.65 |
| 526.8 | 526.0 | 525.0 | 525.2 | 524.9 | 526.1 | 523.8 | 524.2 | 525.3 | 525.0 | 524.7 | 528.0 | 523.93 |
| 509.9 | 514.1 | 509.7 | 501.8 | 464.9 | 484.6 | 498.9 | 503.8 | 502.5 | 506.6 | 509.5 | 511.0 | 510.12 |
| 513.1 | 509.5 | 509.4 | 508.0 | 509.9 | 510.0 | 510.0 | 510.3 | 510.5 | 511.0 | 511.8 | 512.0 | 510.20 |
| 519.46 | 519.65 | 518.84 | 519.30 | 517.11 | 517.77 | 519.18 | 519.36 | 519.04 | 519.33 | 520.69 | 522.12 | 519.62 |

TEMPERATURE OF THE BIPOLAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36.6 | 36.6 | 37.4 | 37.4 | 37.4 | 37.4 | 38.1 | 38.5 | 38.5 | 38.2 | 38.0 | 37.5 | 35.88 |
| 41.0 | 41.0 | 41.0 | 40.7 | 40.5 | 40.6 | 40.8 | 41.0 | 41.0 | 40.5 | 40.6 | 40.4 | 39.99 |
| 44.0 | 43.5 | 42.6 | 41.6 | 40.5 | 39.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.8 | 35.4 | 36.2 | 37.0 | 37.4 | 37.6 | 40.90 |
| 42.6 | 43.1 | 43.0 | 43.5 | 43.8 | 43.8 | 44.2 | 44.4 | 44.6 | 44.6 | 44.6 | 44.0 | 42.16 |
| 46.2 | 46.2 | 45.5 | 45.4 | 44.6 | 44.6 | 44.6 | 44.0 | 43.5 | 43.6 | 43.5 | 42.8 | 44.94 |
| 44.8 | 45.0 | 44.6 | 43.8 | 43.5 | 42.7 | 42.0 | 42.0 | 42.0 | 42.0 | 41.6 | 41.3 | 43.15 |
| 43.0 | 42.8 | 42.8 | 42.8 | 42.6 | 42.6 | 42.2 | 42.0 | 41.0 | 40.6 | 40.0 | 38.0 | 41.75 |
| 37.8 | 37.6 | 37.5 | 37.2 | 36.4 | 36.5 | 36.8 | 36.6 | 37.0 | 37.0 | 36.8 | 36.8 | 36.98 |
| 40.4 | 40.6 | 39.8 | 39.5 | 39.0 | 38.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.6 | 38.0 | 38.4 | 38.6 | 38.5 | 38.0 | 38.73 |
| 44.2 | 43.8 | 43.5 | 43.5 | 43.2 | 43.5 | 43.6 | 43.2 | 42.9 | 42.7 | 42.5 | 42.5 | 42.32 |
| 45.2 | 45.2 | 45.4 | 45.0 | 45.5 | 45.4 | 45.2 | 44.5 | 44.2 | 44.2 | 44.0 | 43.5 | 44.56 |
| 45.3 | 45.0 | 44.1 | 43.8 | 43.3 | 42.8 | 42.5 | 41.8 | 41.5 | 41.4 | 41.5 | 40.9 | 43.29 |
| 44.0 | 44.3 | 44.5 | 44.5 | 44.7 | 44.8 | 44.8 | 44.1 | 44.2 | 44.3 | 44.4 | 44.5 | 43.33 |
| 46.6 | 46.4 | 45.8 | 45.5 | 45.1 | 44.7 | 44.2 | 43.8 | 43.4 | 43.2 | 43.0 | 43.0 | 45.06 |
| 41.7 | 41.0 | 40.6 | 40.3 | 40.1 | 40.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 35.0 | 35.1 | 35.3 | 35.5 | 35.5 | 36.0 | 40.42 |
| 46.4 | 46.0 | 45.1 | 44.7 | 44.2 | 43.6 | 43.0 | 42.8 | 43.0 | 43.2 | 43.5 | 43.5 | 42.71 |
| 49.7 | 49.6 | 49.1 | 49.0 | 49.0 | 49.2 | 49.0 | 48.8 | 49.0 | 48.8 | 48.5 | 47.8 | 47.97 |
| 51.0 | 51.0 | 51.0 | 50.4 | 49.6 | 49.2 | 49.0 | 48.2 | 48.0 | 47.8 | 47.4 | 47.5 | 49.17 |
| 52.8 | 52.5 | 51.5 | 50.6 ^d | 49.8 | 49.2 | 48.6 | 48.2 | 48.2 | 48.0 | 48.0 | 47.8 | 49.72 |
| 45.3 | 45.5 | 45.7 | 45.8 | 46.2 | 46.0 | 46.0 | 45.5 | 45.2 | 44.8 | 44.2 | 43.5 | 45.48 |
| 46.1 | 45.6 | 45.0 | 44.2 | 43.2 | 43.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.8 | 38.5 | 38.5 | 38.2 | 38.2 | 38.0 | 42.66 |
| 44.1 | 43.6 | 43.8 | 43.9 | 43.7 | 43.6 | 43.5 | 44.0 | 44.5 | 44.5 | 44.6 | 44.5 | 43.11 |
| 45.4 | 45.4 | 44.2 | 43.7 | 43.7 | 44.0 | 43.6 | 42.7 | 42.3 | 42.5 | 42.5 | 42.5 | 43.46 |
| 47.0 | 46.5 | 46.4 | 46.0 | 45.8 | 46.1 | 46.0 | 46.5 | 46.4 | 46.4 | 46.2 | 45.5 | 46.12 |
| 48.2 | 48.9 | 49.8 | 50.0 | 50.2 | 50.0 | 49.7 | 49.7 | 49.6 | 49.8 | 49.8 | 49.5 | 48.21 |
| 44.78 | 44.67 | 44.39 | 44.11 | 43.82 | 43.66 | 42.98 | 42.77 | 42.73 | 42.70 | 42.59 | 42.28 | 43.28 |

^c Five minutes late.

^d Three minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|--------------------|--------------------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr: = .00027. | | | | | | | | | | | | | |
| Mean Göttingen } Time. } | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 511.0 | 510.0 | 508.4 | 507.0 | 508.6 | 509.1 | 505.8 | 512.3 | 515.5 | 518.3 | 512.1 | 510.4 |
| | 2 | 515.0 | 510.0 | 499.5 | 512.5 | 511.0 | 506.8 | 502.4 | 506.5 | 512.5 | 512.0 | 500.4 | 500.2 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 520.0 | 520.0 | 517.8 | 503.5 | 509.5 | 515.5 | 509.5 | 507.5 | 497.0 | 516.5 | 514.8 | 518.3 |
| | 5 | 512.5 | 516.5 | 515.0 | 512.0 | 518.5 ^a | 512.5 | 507.0 | 506.7 | 506.5 | 520.3 | 517.3 | 503.0 |
| | 6 | 499.0 | 510.3 | 508.0 | 499.8 | 505.5 | 500.8 | 499.5 | 494.6 | 503.9 | 513.8 | 513.0 | 514.0 |
| | 7 | 516.5 | 513.5 | 505.5 | 490.3 | 486.0 | 493.6 | 479.0 | 485.8 | 495.3 | 500.6 | 508.8 | 499.2 |
| | 8 | 516.0 | 508.5 | 501.3 | 504.0 | 496.5 | 498.0 | 492.5 | 490.2 | 501.6 | 500.0 | 503.9 | 504.6 |
| | 9 | 507.0 | 507.5 | 505.5 | 503.5 | 502.0 | 499.8 | 492.9 | 503.1 | 508.8 | 502.2 | 502.8 | 508.5 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 516.0 | 515.0 | 514.0 | 511.5 | 507.5 | 503.0 | 502.0 | 502.0 | 504.4 | 516.5 | 510.0 | 506.0 |
| | 12 | 510.0 | 505.0 | 508.5 | 511.0 | 508.5 | 497.8 | 496.0 | 498.5 | 507.6 | 508.3 | 509.4 | 503.1 |
| | 13 | 513.0 | 510.0 | 505.9 | 505.6 | 500.2 | 494.8 | 497.5 | 505.0 | 507.1 | 509.0 | 509.0 | 516.8 |
| | 14 | 516.0 | 518.0 | 513.0 | 509.8 | 507.0 | 506.3 ^d | 506.8 | 507.2 | 510.5 | 519.8 | 524.0 | 514.5 |
| | 15 | 522.0 | 518.5 | 513.6 | 514.0 | 514.5 | 513.0 | 513.0 | 513.5 | 518.1 | 521.9 | 513.5 ^a | 522.0 |
| | 16 | 517.0 | 515.3 | 512.9 | 509.5 | 504.0 | 502.0 | 507.0 | 512.5 | 517.0 | 520.0 | 520.0 | 518.3 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 530.3 | 528.5 | 523.5 | 517.0 | 512.2 | 508.8 | 511.2 | 511.9 | 519.1 | 517.0 | 519.6 | 521.5 ^c |
| | 19 | 536.0 | 531.0 | 526.8 | 524.0 | 520.5 | 514.0 | 514.0 | 519.8 | 517.8 | 527.0 | 533.5 | 530.6 |
| | 20 | 527.0 | 523.0 | 518.8 | 514.0 | 509.5 | 510.5 | 511.1 | 513.8 | 521.8 | 524.0 | 524.0 | 520.6 |
| | 21 | 527.1 | 524.0 | 522.1 | 519.3 | 510.4 | 505.7 | 504.7 | 505.8 | 516.3 | 519.4 | 520.0 | 518.0 |
| | 22 | 519.0 | 526.0 | 526.0 | 518.0 | 512.0 | 508.0 | 506.0 | 507.5 | 512.7 | 519.5 | 523.6 | 520.5 |
| | 23 | 527.7 | 527.5 | 525.7 | 524.0 | 517.2 | 512.0 | 512.7 | 520.2 | 519.2 | 524.5 | 528.2 | 526.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 526.7 | 525.7 | 524.7 | 519.0 | 510.7 | 503.7 | 503.7 | 506.9 | 506.4 | 512.0 | 515.7 | 516.7 |
| | 26 | 520.7 | 519.5 | 517.7 | 515.7 | 514.7 | 511.2 | 509.7 | 509.5 | 513.9 | 516.5 | 515.0 | 517.2 ^e |
| | 27 | 519.6 | 518.7 | 519.7 | 514.7 | 511.0 | 510.4 | 504.3 | 500.9 | 509.7 | 526.1 | 514.6 | 524.0 |
| | 28 | 517.7 | 519.7 | 512.7 | 512.7 | 504.1 | 504.7 | 507.7 | 504.0 | 507.9 | 520.8 | 524.4 | 522.7 |
| | 29 | 520.0 | 512.7 | 511.2 | 508.7 | 506.5 | 504.2 | 507.7 | 511.7 | 518.5 | 527.0 | 524.7 | 508.4 |
| | 30 | 471.0 | 521.7 | 503.5 | 483.7 | 486.7 | 493.7 | 468.2 | 476.6 | 506.3 | 511.0 | 513.0 | 526.3 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 516.68 | 517.54 | 513.90 | 510.18 | 507.49 | 505.35 | 502.77 | 505.15 | 510.59 | 516.31 | 515.97 | 515.08 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------|-------------------|-------------------|
| MARCH. | 1 | 49.5 | 49.5 | 49.5 | 49.6 | 49.3 | 49.8 | 50.0 | 50.3 | 50.7 | 51.0 | 51.2 | 51.0 |
| | 2 | 51.5 | 51.5 | 50.0 | 49.5 | 49.2 | 49.4 | 49.6 | 50.2 | 50.7 | 51.1 | 51.2 | 51.2 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 40.5 | 39.5 | 39.5 | 39.5 | 41.0 | 41.4 | 41.5 | 41.6 | 42.0 | 42.7 | 43.1 | 43.4 |
| | 5 | 39.5 | 38.0 | 37.8 | 39.0 | 41.0 ^b | 42.0 | 42.8 | 43.2 | 44.0 | 45.4 | 46.0 | 46.0 |
| | 6 | 45.0 | 44.5 | 44.5 | 45.0 | 47.5 | 48.5 | 49.2 | 49.2 | 49.5 | 49.5 | 49.6 | 49.2 |
| | 7 | 46.0 | 45.6 | 46.0 | 46.5 | 47.0 | 48.0 | 48.5 | 49.4 | 50.0 | 50.6 | 50.9 | 51.3 |
| | 8 | 47.0 | 47.0 | 47.0 | 47.5 | 48.0 | 48.5 | 49.0 | 49.4 | 49.8 | 50.4 | 50.5 | 50.4 |
| | 9 | 49.6 | 49.4 | 48.5 | 48.5 | 48.5 | 48.5 | 49.0 | 49.2 | 49.6 | 50.0 | 50.1 | 50.1 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 44.0 | 44.0 | 44.5 | 45.8 | 47.5 | 48.5 | 49.2 | 49.6 | 50.5 | 51.8 | 52.4 | 52.4 |
| | 12 | 49.0 | 49.0 | 48.5 | 48.5 | 49.5 | 49.5 | 49.5 | 49.6 | 49.6 | 50.0 | 50.4 | 50.3 |
| | 13 | 50.6 | 50.5 | 50.3 | 50.5 | 51.0 | 51.5 | 51.5 | 51.8 | 51.9 | 52.0 | 52.4 | 52.4 |
| | 14 | 47.4 | 46.3 | 45.6 | 45.6 | 45.6 | 46.5 ^d | 46.5 | 46.8 | 47.2 | 47.8 | 48.6 | 49.2 |
| | 15 | 44.0 | 44.0 | 43.5 | 43.5 | 44.0 | 44.5 | 45.0 | 45.5 | 45.8 | 46.0 | 46.0 ^a | 45.7 |
| | 16 | 48.5 | 48.0 | 47.5 | 47.2 | 47.0 | 47.2 | 47.6 | 48.1 | 48.3 | 48.7 | 48.7 | 48.5 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 40.0 | 40.0 | 40.4 | 40.4 | 40.5 | 40.5 | 40.7 | 40.8 | 40.6 | 39.6 | 38.8 | 37.3 ^c |
| | 19 | 36.0 | 36.0 | 36.0 | 36.4 | 37.0 | 37.6 | 38.6 | 39.5 | 40.2 | 40.9 | 41.2 | 41.0 |
| | 20 | 42.5 | 42.8 | 42.5 | 42.5 | 43.0 | 44.0 | 44.5 | 44.5 | 44.5 | 44.6 | 44.2 | 43.8 |
| | 21 | 43.6 | 43.0 | 44.4 | 45.0 | 45.5 | 46.0 | 46.2 | 46.5 | 47.0 | 47.0 | 47.4 | 47.0 |
| | 22 | 42.6 | 42.0 | 42.0 | 42.0 | 42.6 | 43.5 | 44.4 | 45.0 | 45.2 | 46.3 | 46.5 | 47.3 |
| | 23 | 41.0 | 40.5 | 41.5 | 42.5 | 43.5 | 43.6 | 44.5 | 44.5 | 44.8 | 45.4 | 46.0 | 46.4 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 45.5 | 46.0 | 46.0 | 47.0 | 48.0 | 48.5 | 48.5 | 48.8 | 49.2 | 50.4 | 51.7 | 52.5 |
| | 26 | 47.5 | 47.5 | 47.5 | 48.0 | 48.5 | 49.4 | 50.0 | 51.0 | 52.0 | 52.8 | 52.6 | 52.6 ^e |
| | 27 | 49.0 | 48.2 | 47.5 | 47.0 | 46.7 | 46.6 | 46.6 | 46.4 | 46.2 | 46.2 | 46.0 | 45.7 |
| | 28 | 47.0 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 | 48.0 | 48.2 | 48.3 | 48.8 | 49.3 | 49.5 |
| | 29 | 45.7 | 45.0 | 45.5 | 46.0 | 46.4 | 46.5 | 47.4 | 47.5 | 47.5 | 47.5 | 47.5 | 47.6 |
| | 30 | 43.5 | 42.5 | 42.5 | 42.7 | 42.7 | 43.0 | 43.5 | 43.7 | 43.4 | 43.6 | 43.7 | 43.5 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 45.23 | 44.92 | 44.85 | 45.12 | 45.70 | 46.17 | 46.61 | 46.93 | 47.25 | 47.70 | 47.92 | 47.90 | |

^a Two minutes late.

^b Thirty-eight minutes late.

^c Three minutes late.

^d Nine minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------------|
| 511.2 | 511.0 | 513.8 | 508.9 | 508.1 | 508.8 | 510.8 | 508.5 | 509.2 | 503.6 | 511.5 | 510.0 | 510.17 |
| 500.6 | 498.8 | 502.9 | 499.0 | 500.0 | 508.0 | — | — | — | — | — | — | 507.32 |
| — | — | — | — | — | — | 509.6 | 509.6 | 513.2 | 508.0 | 518.1 | 519.0 | 519.0 |
| 522.5 | 521.5 | 516.5 | 503.3 | 515.8 | 511.3 | 514.7 | 517.5 | 520.0 | 512.6 | 519.9 | 510.0 | 513.98 |
| 503.1 | 498.7 | 487.9 | 495.9 | 495.5 | 498.5 | 505.0 | 507.4 | 510.2 | 514.5 | 516.0 | 503.0 | 507.65 |
| 503.4 | 500.0 | 505.0 | 507.6 | 504.6 | 500.2 | 488.3 | 496.7 | 502.2 | 505.0 | 506.5 | 506.5 | 503.68 |
| 484.6 | 493.6 | 500.3 | 484.3 | 504.8 | 488.8 | 491.6 | 505.0 | 506.0 | 506.0 | 508.0 | 516.5 | 498.48 |
| 504.9 | 506.2 | 500.7 | 502.3 | 501.0 | 505.6 | 509.0 | 505.0 | 505.7 | 507.2 | 509.3 | 501.0 | 503.12 |
| 508.5 | 501.2 | 506.6 | 510.0 | 506.9 | 509.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 512.0 ^b | 511.0 | 515.5 | 513.3 | 510.0 | 513.0 | 506.73 |
| 506.8 | 507.9 | 508.6 | 509.1 | 510.8 | 510.4 | 510.5 | 508.8 | 504.2 | 510.0 | 514.0 | 513.0 | 509.25 |
| 502.0 | 506.9 | 503.0 | 505.0 | 506.0 | 506.0 | 506.0 | 509.9 | 512.1 | 512.7 | 511.8 | 513.0 | 506.60 |
| 516.5 | 516.0 | 511.0 | 513.4 | 513.1 | 513.1 | 512.2 | 512.0 | 512.0 | 514.3 | 513.0 | 514.0 | 509.77 |
| 518.0 | 518.0 | 516.2 | 516.0 | 516.7 | 518.8 | 519.5 | 520.0 | 517.2 | 521.0 | 521.0 | 523.0 | 515.76 |
| 520.5 | 523.5 | 523.0 | 522.0 | 521.0 | 520.5 | 519.0 | 518.8 | 518.6 | 517.5 | 517.0 | 518.0 | 519.21 |
| 518.5 | 519.2 | 519.6 | 519.2 | 519.4 | 519.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 527.8 | 524.6 | 523.9 | 526.3 | 528.2 | 529.1 | 517.97 |
| 528.0 | 526.5 | 531.0 | 527.3 | 521.8 | 520.0 | 521.0 | 519.6 | 519.1 | 524.8 | 521.8 | 525.5 ^f | 521.13 |
| 531.0 | 527.4 | 529.0 | 529.5 | 523.7 | 522.2 | 510.5 | 520.0 | 521.3 | 523.5 | 526.5 | 526.5 | 524.42 |
| 520.5 | 526.4 | 528.1 | 527.4 | 526.4 | 524.2 | 524.6 | 522.0 | 524.0 | 519.3 | 526.5 | 526.8 | 521.43 |
| 520.0 | 522.7 | 521.6 | 521.2 | 521.6 | 524.7 | 524.2 | 523.1 | 522.8 | 530.2 | 528.4 | 524.0 | 519.89 |
| 524.0 | 524.2 | 523.5 | 521.5 | 521.1 | 517.8 | 521.9 | 521.7 | 522.7 | 521.7 | 525.0 | 526.7 | 519.61 |
| 524.6 | 521.9 | 521.8 | 523.5 | 523.0 | 524.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 522.7 | 527.0 | 525.7 | 524.3 | 528.7 | 528.2 | 523.38 |
| 514.7 | 513.7 | 510.5 | 511.1 | 512.0 | 513.5 | 515.6 | 516.1 | 517.7 | 518.2 | 520.2 | 519.2 | 514.77 |
| 519.2 | 515.2 | 517.1 | 517.6 | 520.0 | 515.7 | 517.2 | 515.5 | 516.8 | 520.7 | 519.2 | 517.7 | 516.38 |
| 524.2 | 503.9 | 509.3 | 517.5 | 516.7 | 516.7 | 517.2 | 518.0 | 525.4 | 519.4 | 518.0 | 515.7 | 515.65 |
| 519.2 | 520.7 | 519.5 | 519.7 | 518.0 | 519.9 | 515.6 | 517.7 ^h | 516.9 | 514.9 | 501.4 | 524.7 | 515.30 |
| 507.9 | 513.2 | 504.1 | 483.0 | 470.5 | 475.2 | 503.5 | 459.6 | 459.9 | 498.4 | 504.5 | 492.1 | 501.38 |
| 515.3 | 518.4 | 504.2 | 510.4 | 515.7 | 509.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 526.7 | 509.2 | 516.2 | 517.2 | 515.7 | 520.7 | 505.87 |
| 514.22 | 513.72 | 512.87 | 511.80 | 512.08 | 511.66 | 513.72 | 512.47 | 513.79 | 515.56 | 516.93 | 516.80 | 512.61 |

TEMPERATURE OF THE BIPOLAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------|-------|
| 51.0 | 50.8 | 50.8 | 50.8 | 50.7 | 50.5 | 50.8 | 50.8 | 51.0 | 50.8 | 50.6 | 50.6 | 50.44 |
| 50.7 | 50.4 | 50.2 | 49.4 | 49.2 | 48.5 | — | — | — | — | — | — | 48.03 |
| — | — | — | — | — | — | 42.0 | 41.5 | 41.5 | 41.6 | 41.6 | 41.0 | 41.24 |
| 43.5 | 43.0 | 42.4 | 41.8 | 41.6 | 41.5 | 41.4 | 39.8 | 39.7 | 39.6 | 39.8 | 40.0 | 41.24 |
| 45.4 | 45.4 | 45.2 | 44.7 | 44.8 | 44.8 | 45.0 | 45.0 | 45.0 | 45.2 | 45.2 | 45.0 | 43.56 |
| 48.6 | 48.2 | 48.1 | 48.0 | 47.6 | 47.2 | 47.2 | 47.2 | 47.3 | 47.0 | 46.8 | 46.0 | 47.52 |
| 51.5 | 51.5 | 51.5 | 51.0 | 50.6 | 50.2 | 49.6 | 49.4 | 48.8 | 48.2 | 47.4 | 47.4 | 49.04 |
| 50.6 | 50.6 | 51.2 | 51.2 | 51.3 | 51.1 | 50.8 | 50.6 | 50.5 | 50.5 | 50.5 | 50.0 | 49.72 |
| 50.0 | 49.8 | 49.3 | 48.5 | 48.0 | 47.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.0 ^b | 44.8 | 44.4 | 44.0 | 44.0 | 44.0 | 47.92 |
| 52.0 | 51.6 | 50.8 | 50.1 | 49.8 | 49.5 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2 | 49.0 | 49.13 |
| 50.8 | 51.0 | 51.0 | 51.2 | 51.4 | 51.4 | 51.4 | 51.7 | 52.0 | 52.0 | 51.5 | 51.0 | 50.41 |
| 52.0 | 51.8 | 51.8 | 51.2 | 50.6 | 50.5 | 50.2 | 49.5 | 49.0 | 49.0 | 48.4 | 48.4 | 50.78 |
| 48.6 | 48.2 | 47.8 | 47.2 | 46.9 | 46.2 | 45.6 | 45.2 | 45.4 | 45.2 | 44.5 | 44.0 | 46.58 |
| 45.8 | 46.0 | 46.6 | 46.8 | 46.8 | 47.3 | 48.0 | 48.0 | 48.2 | 48.2 | 48.7 | 48.5 | 46.10 |
| 48.0 | 47.6 | 47.5 | 47.3 | 46.6 | 46.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 42.8 | 41.8 | 41.0 | 40.5 | 40.3 | 40.0 | 46.03 |
| 37.0 | 37.0 | 36.8 | 36.8 | 36.0 | 35.8 | 35.8 | 35.6 | 36.0 | 36.2 | 36.4 | 36.4 | 38.14 |
| 41.0 | 40.8 | 41.2 | 41.4 | 41.4 | 41.2 | 41.8 | 41.8 | 41.7 | 41.9 | 42.1 | 42.5 | 39.97 |
| 43.6 | 44.2 | 44.1 | 44.6 | 44.8 | 44.6 | 44.4 | 44.2 | 44.0 | 44.0 | 44.0 | 44.0 | 43.91 |
| 46.2 | 45.0 | 44.3 | 43.6 | 43.0 | 42.6 | 42.5 | 42.5 | 42.5 | 42.5 | 43.4 | 43.0 | 44.57 |
| 47.2 | 47.4 | 47.5 | 46.2 | 44.8 | 44.4 | 44.0 | 43.5 | 42.1 | 41.2 | 41.1 | 41.0 | 44.16 |
| 45.7 | 45.8 | 45.4 | 45.0 | 44.5 | 44.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 43.8 | 44.2 | 45.0 | 45.2 | 45.8 | 45.5 | 44.34 |
| 53.0 | 52.4 | 52.2 | 51.3 | 50.5 | 49.8 | 49.5 | 49.0 | 48.6 | 48.2 | 47.9 | 48.0 | 49.27 |
| 52.2 | 51.6 | 51.6 | 51.1 | 50.4 | 50.4 | 50.1 | 50.0 | 50.2 | 50.5 | 50.5 | 49.5 | 50.31 |
| 45.4 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.7 | 46.0 | 46.2 | 45.6 | 46.6 | 46.32 |
| 49.5 | 49.5 | 49.8 | 49.8 | 50.0 | 49.6 | 49.0 | 48.0 ^b | 47.6 | 47.5 | 47.1 | 46.5 | 48.35 |
| 47.0 | 46.6 | 47.4 | 46.9 | 46.4 | 45.9 | 45.3 | 45.0 | 44.5 | 44.0 | 44.0 | 43.5 | 46.11 |
| 43.5 | 42.7 | 42.5 | 41.8 | 41.5 | 41.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.0 | 38.5 | 38.0 | 38.3 | 38.3 | 38.0 | 41.75 |
| 47.68 | 47.48 | 47.40 | 47.05 | 46.72 | 46.44 | 45.76 | 45.48 | 45.35 | 45.26 | 45.22 | 44.98 | 46.29 |

^c Five minutes late.

^d Ten minutes late.

^e Six minutes late.

^f Eight minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-----------------------------|----------------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = .00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| APRIL. | 1 | Sc. Div. 518.0 | Sc. Div. 516.0 | Sc. Div. 522.0 | Sc. Div. 502.0 | Sc. Div. 505.2 | Sc. Div. 500.5 | Sc. Div. 495.4 | Sc. Div. 510.8 | Sc. Div. 520.7 | Sc. Div. 519.9 | Sc. Div. 519.0 ^a | Sc. Div. 511.4 |
| | 2 | 517.5 | 519.0 | 515.1 | 504.0 | 495.8 | 492.9 | 481.4 | 502.0 | 507.0 | 506.5 | 505.4 | 510.7 |
| | 3 | 511.0 | 508.0 | 508.0 | 498.9 | 481.9 | 479.0 | 484.6 | 494.0 | 506.7 | 514.5 | 510.9 | 500.8 |
| | 4 | 488.5 | 495.0 | 496.5 | 492.5 | 485.9 | 483.4 | 481.9 | 480.8 | 488.7 | 495.7 | 495.0 | 493.9 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 509.0 | 506.5 | 506.0 | 502.8 | 499.5 | 495.5 | 493.0 | 495.4 | 498.3 | 510.7 | 505.8 | 514.9 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 512.0 | 511.6 | 506.9 | 502.0 | 498.0 | 497.0 | 499.0 | 503.5 | 501.8 | 505.0 | 503.2 | 505.0 |
| | 9 | 509.5 | 510.0 | 505.1 | 497.0 | 492.0 | 491.5 | 492.0 | 497.2 | 499.9 | 502.4 | 503.2 | 502.1 |
| | 10 | 508.0 | 505.0 | 505.4 | 496.0 | 493.0 | 493.5 | 494.2 | 493.2 | 494.9 | 498.9 | 500.1 | 502.4 |
| | 11 | 502.5 | 500.5 | 495.0 | 492.5 | 495.3 | 495.4 | 498.1 | 500.0 | 501.2 | 503.1 | 502.4 | 499.7 |
| | 12 | 505.0 | 505.0 | 498.5 | 491.5 | 490.0 | 489.0 | 492.0 | 497.6 | 501.0 | 501.0 | 498.2 | 497.4 |
| | 13 | 502.0 | 502.5 | 498.4 | 491.5 | 485.0 | 482.0 ^d | 482.0 | 483.8 | 488.5 | 491.9 | 494.6 | 493.8 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 496.0 | 487.3 | 491.0 | 492.0 | 488.3 | 486.3 | 484.5 | 485.1 | 488.9 | 489.2 | 489.9 | 493.8 |
| | 16 | 497.0 | 497.5 | 491.9 | 482.8 | 477.0 | 481.0 | 489.0 | 495.0 | 500.2 | 500.9 | 498.0 | 498.4 |
| | 17 | 378.8 | 367.3 | 426.5 | 430.5 | 448.5 | 468.2 | 487.0 | 517.4 | 524.8 | 522.0 | 519.5 | 516.3 |
| | 18 | 518.0 | 516.5 | 510.6 | 501.0 | 498.0 | 492.0 | 492.0 | 503.4 | 507.5 | 508.0 | 494.5 | 511.8 |
| | 19 | 506.5 | 507.5 | 504.8 | 497.5 | 490.5 | 488.6 | 483.3 | 491.2 | 498.0 | 501.0 | 503.4 | 501.4 |
| | 20 | 501.8 | 506.5 | 502.9 | 500.8 | 490.3 | 486.5 | 485.3 | 488.1 | 490.8 | 497.6 | 499.7 | 500.6 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 505.0 | 504.8 | 501.1 | 496.0 | 493.0 | 495.0 | 496.3 | 496.6 | 504.0 | 506.0 | 508.6 | 511.2 |
| | 23 | 509.0 | 509.0 | 500.6 | 500.0 | 497.4 | 501.1 | 501.2 | 499.3 | 502.9 | 501.9 | 507.5 | 511.5 |
| | 24 | 509.0 | 509.8 | 506.0 | 502.4 | 496.6 | 497.0 | 497.8 | 497.7 | 502.5 | 497.8 | 500.0 | 503.0 |
| | 25 | 506.1 | 501.6 | 488.3 | 493.1 | 507.3 | 494.7 | 487.4 | 478.9 | 479.5 | 492.4 | 499.5 | 517.4 |
| | 26 | 463.0 | 500.7 | 491.5 | 487.3 | 474.8 | 473.5 | 481.3 | 488.8 | 495.5 | 497.6 | 496.8 | 499.9 |
| | 27 | 494.8 | 501.9 | 500.9 | 492.4 | 501.0 | 501.0 | 492.6 | 495.3 | 499.5 | 518.3 | 499.3 | 513.8 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 511.0 | 507.5 | 497.5 | 499.0 | 493.5 | 500.8 | 511.0 | 515.3 | 510.6 | 511.7 | 503.4 | 516.7 |
| | 30 | 496.0 | 503.5 | 502.0 | 495.5 | 495.5 | 494.8 | 495.9 | 494.4 | 501.8 | 496.5 | 497.7 | 495.5 |
| Hourly Means | 499.00 | 500.02 | 498.90 | 493.64 | 590.93 | 490.41 | 491.13 | 496.19 | 500.61 | 503.62 | 502.22 | 504.94 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------------------|------|
| APRIL. | 1 | 38.5 | 39.0 | 41.4 | 42.7 | 43.8 | 44.5 | 45.0 | 45.5 | 46.0 | 46.4 | 47.0 ^a | 47.6 |
| | 2 | 45.0 | 45.0 | 46.0 | 48.0 | 49.5 | 50.2 | 50.4 | 50.6 | 50.8 | 51.0 | 51.6 | 51.6 |
| | 3 | 49.6 | 49.6 | 50.3 | 51.5 | 52.3 | 53.0 | 53.5 | 54.2 | 55.0 | 56.7 | 57.8 | 59.0 |
| | 4 | 56.5 | 56.0 | 56.5 | 57.0 | 57.5 | 57.8 | 58.0 | 58.2 | 58.5 | 58.8 | 59.0 | 58.5 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 49.4 | 49.0 | 49.0 | 48.5 | 48.5 | 48.5 | 48.5 | 48.3 | 48.3 | 48.6 | 48.8 | 48.8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 49.5 | 50.0 | 50.4 | 50.6 | 51.0 | 51.5 | 52.5 | 52.8 | 53.5 | 55.3 | 56.9 | 57.4 |
| | 9 | 53.6 | 54.0 | 55.0 | 56.5 | 57.0 | 57.5 | 58.3 | 58.7 | 59.2 | 60.3 | 61.2 | 62.0 |
| | 10 | 54.5 | 54.5 | 56.0 | 57.4 | 58.0 | 58.8 | 59.5 | 60.0 | 60.6 | 61.8 | 63.0 | 63.6 |
| | 11 | 56.2 | 56.4 | 56.5 | 56.5 | 57.4 | 57.8 | 58.0 | 58.4 | 58.7 | 59.4 | 60.0 | 60.5 |
| | 12 | 56.5 | 57.0 | 58.2 | 59.5 | 60.5 | 61.5 | 62.3 | 62.5 | 63.0 | 63.5 | 63.8 | 63.8 |
| | 13 | 58.0 | 58.6 | 59.7 | 61.5 | 62.5 | 63.5 ^d | 64.0 | 64.4 | 65.5 | 66.5 | 67.4 | 67.7 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 62.0 | 61.5 | 61.5 | 61.7 | 62.0 | 62.6 | 63.0 | 63.0 | 63.0 | 62.9 | 62.9 | 62.5 |
| | 16 | 59.0 | 58.4 | 58.0 | 58.0 | 58.0 | 58.5 | 59.0 | 59.5 | 59.8 | 60.1 | 60.5 | 60.4 |
| | 17 | 56.0 | 55.0 | 55.5 | 55.0 | 54.8 | 55.4 | 56.0 | 56.3 | 56.8 | 57.7 | 58.5 | 58.8 |
| | 18 | 49.5 | 50.5 | 52.0 | 53.5 | 54.5 | 55.0 | 55.5 | 55.3 | 55.6 | 56.4 | 56.9 | 57.0 |
| | 19 | 50.2 | 51.2 | 52.5 | 54.0 | 54.5 | 55.5 | 56.0 | 56.6 | 57.8 | 58.7 | 58.6 | 58.8 |
| | 20 | 53.0 | 54.0 | 55.0 | 56.5 | 57.5 | 58.5 | 59.0 | 59.6 | 60.0 | 60.6 | 60.5 | 60.4 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 56.0 | 56.0 | 55.7 | 55.7 | 56.0 | 56.2 | 56.2 | 56.4 | 56.4 | 56.8 | 57.0 | 57.2 |
| | 23 | 55.0 | 55.5 | 55.5 | 56.0 | 56.5 | 57.0 | 57.9 | 58.5 | 59.3 | 60.0 | 60.2 | 62.5 |
| | 24 | 58.0 | 58.5 | 58.5 | 59.0 | 60.0 | 61.5 | 62.5 | 63.2 | 64.0 | 64.6 | 65.0 | 65.2 |
| | 25 | 58.8 | 59.6 | 61.0 | 61.8 | 62.3 | 62.5 | 62.4 | 62.5 | 62.6 | 62.6 | 62.4 | 62.2 |
| | 26 | 58.5 | 58.5 | 58.3 | 58.0 | 58.0 | 57.5 | 57.5 | 57.4 | 57.5 | 57.5 | 57.4 | 56.8 |
| | 27 | 52.6 | 52.5 | 52.5 | 53.5 | 54.5 | 55.2 | 55.4 | 55.3 | 55.5 | 56.0 | 56.4 | 56.5 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 51.9 | 53.0 | 54.5 | 55.5 | 56.5 | 57.2 | 57.5 | 57.8 | 58.4 | 59.4 | 60.4 | 60.9 |
| | 30 | 54.0 | 55.0 | 55.5 | 56.8 | 57.8 | 58.3 | 58.6 | 59.0 | 59.5 | 59.9 | 60.0 | 60.1 |
| Hourly Means | 53.67 | 53.93 | 54.60 | 55.39 | 56.04 | 56.62 | 57.06 | 57.36 | 57.81 | 58.46 | 58.93 | 59.19 | |

^a Five minutes late.

^d Good Friday.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------------|
| 506.3 | 514.5 | 509.3 | 503.2 | 520.5 | 509.3 | 505.4 | 502.7 | 505.0 | 503.8 | 498.8 | 522.0 | 510.07 |
| 505.0 | 505.3 | 507.8 | 505.9 | 502.6 | 503.0 | 500.5 | 508.1 | 499.0 | 478.6 | 476.0 | 508.5 | 502.40 |
| 493.3 | 491.8 | 493.2 | 498.3 | 494.1 | 480.3 | 489.0 | 488.0 | 494.7 | 493.4 | 494.3 | 494.0 | 495.95 |
| 493.1 | 495.5 | 494.0 | 492.6 | 491.9 | 491.5 ^b | — | — | — | — | — | — | 493.41 |
| — | — | — | — | — | — | 484.6 | 503.4 | 504.0 | 501.5 | 505.4 | 506.5 | — |
| 511.0 | 507.5 | 498.7 | 498.6 | 517.9 | 500.5 | — | — | — | — | — | — | 504.48 |
| — | — | — | — | — | — | 506.0 | 507.8 | 505.1 | 501.8 | 506.3 | 509.0 | — |
| 503.0 | 502.1 | 499.8 | 501.1 | 500.0 | 498.0 | 499.5 | 503.7 | 504.0 | 505.5 | 506.8 | 509.0 | 503.23 |
| 501.0 | 501.0 | 500.0 | 498.8 | 499.8 | 503.2 | 503.1 | 502.8 | 502.8 | 505.1 | 504.7 | 507.0 | 501.30 |
| 505.0 | 484.8 | 493.2 | 495.0 | 491.5 | 492.8 | 495.8 | 496.9 | 497.2 | 492.8 | 499.5 | 500.0 | 497.05 |
| 498.0 | 495.4 | 497.6 | 499.6 | 497.0 | 498.5 | 500.0 | 498.0 | 498.8 | 500.8 | 505.2 | 506.0 | 499.19 |
| 495.8 | 496.0 | 496.0 | 494.5 | 495.8 | 495.7 | 497.2 | 496.9 | 498.0 ^c | 501.5 | 501.0 | 502.0 | 497.36 |
| 492.0 | 491.8 | 491.9 | 490.0 | 490.0 | 489.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 489.2 | 492.0 | 485.2 | 488.0 | 488.8 | 495.0 | 490.81 |
| 488.0 | 488.0 | 484.7 | 484.1 | 487.0 | 491.5 | 489.0 | 490.0 | 491.1 | 496.0 | 495.8 | 496.0 | 489.73 |
| 500.0 | 498.1 | 483.6 | 477.5 | 488.7 | 488.6 | 473.2 | 467.4 | 438.9 | 431.5 | 495.8 | 480.5 | 484.69 |
| 501.9 | 508.9 | 487.3 | 488.0 | 492.8 | 491.0 | 493.8 | 493.9 | 496.5 | 503.0 | 513.3 | 517.0 | 483.09 |
| 491.2 | 496.0 | 496.2 | 498.5 | 496.8 | 497.7 | 498.1 | 501.2 | 500.0 | 504.3 | 504.9 | 503.3 | 501.73 |
| 502.5 | 499.7 | 498.2 | 501.0 | 500.1 | 500.9 | 501.0 | 504.2 | 502.3 | 502.0 | 501.0 | 501.0 | 499.48 |
| 501.0 | 499.2 | 499.8 | 500.0 | 500.0 | 500.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 504.8 | 502.2 | 503.4 | 505.7 | 505.0 | 506.0 | 499.09 |
| 508.6 | 507.4 | 505.6 | 503.8 | 504.6 | 507.1 | 507.0 | 506.0 | 507.3 | 506.0 | 507.6 | 508.0 | 504.03 |
| 506.5 | 504.5 | 502.0 | 502.0 | 495.4 | 501.0 | 498.9 | 500.7 | 501.1 | 504.9 | 507.0 | 505.0 | 502.93 |
| 502.6 | 497.1 | 495.5 | 496.0 | 497.0 | 494.1 | 492.9 | 499.7 | 500.7 | 505.0 | 503.8 | 505.4 | 500.39 |
| 499.9 | 485.8 | 492.3 | 495.6 | 492.8 | 490.3 | 492.1 | 493.1 | 490.8 | 495.1 | 499.4 | 493.0 | 494.43 |
| 507.9 | 508.0 | 492.4 | 492.2 | 501.5 | 500.5 | 501.3 | 491.8 | 506.7 | 489.5 | 501.9 | 489.3 | 493.07 |
| 510.4 | 500.0 | 504.5 | 494.0 | 500.0 | 493.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 509.3 | 506.6 | 503.7 | 502.0 | 504.9 | 510.0 | 502.08 |
| 489.4 | 494.6 | 499.4 | 500.0 | 506.9 | 504.5 | 499.2 | 502.6 | 501.6 | 502.9 | 504.8 | 507.0 | 503.79 |
| 508.7 | 509.6 | 492.2 | 498.8 | 493.4 | 502.8 | 499.9 | 500.2 | 504.6 | 497.5 | 501.4 | 498.0 | 499.01 |
| 500.88 | 499.30 | 496.61 | 496.36 | 508.32 | 497.04 | 497.23 | 498.40 | 497.70 | 496.73 | 501.34 | 503.14 | 498.11 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|-------|-------|
| 47.6 | 46.8 | 46.5 | 45.9 | 45.5 | 45.0 | 44.8 | 44.8 | 45.0 | 45.2 | 45.2 | 45.0 | 44.78 |
| 51.3 | 50.8 | 50.3 | 50.0 | 50.0 | 49.8 | 50.0 | 50.0 | 49.6 | 49.8 | 50.0 | 49.6 | 49.62 |
| 59.8 | 60.0 | 59.6 | 58.8 | 57.7 | 57.2 | 56.9 | 56.6 | 56.7 | 56.8 | 56.7 | 56.6 | 55.66 |
| 57.8 | 57.2 | 56.8 | 56.3 | 56.2 | 55.8 ^b | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.6 | 50.2 | 50.0 | 50.0 | 49.8 | 49.5 | 55.52 |
| 49.0 | 48.6 | 48.8 | 48.6 | 48.4 | 48.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.5 | 50.2 | 49.8 | 49.5 | 49.2 | 49.5 | 48.94 |
| 58.3 | 58.0 | 57.7 | 57.3 | 57.0 | 56.8 | 56.5 | 56.2 | 56.0 | 55.6 | 55.4 | 54.5 | 54.61 |
| 62.4 | 62.4 | 61.0 | 60.0 | 59.4 | 58.5 | 58.0 | 57.1 | 56.3 | 55.9 | 55.3 | 55.0 | 58.11 |
| 63.4 | 62.6 | 62.0 | 61.3 | 60.7 | 60.0 | 59.5 | 59.0 | 58.5 | 58.0 | 57.5 | 56.7 | 59.45 |
| 60.7 | 60.5 | 60.0 | 59.6 | 59.5 | 59.0 | 58.7 | 58.6 | 58.4 | 58.0 | 57.6 | 56.8 | 58.47 |
| 63.5 | 63.0 | 62.6 | 62.4 | 61.8 | 61.2 | 60.6 | 59.7 | 59.4 ^c | 59.0 | 58.8 | 58.6 | 60.95 |
| 67.7 | 66.6 | 66.0 | 65.3 | 64.5 | 64.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63.2 | 63.2 | 63.0 | 62.8 | 62.5 | 62.0 | 63.75 |
| 62.5 | 62.0 | 62.0 | 61.2 | 61.0 | 60.4 | 60.0 | 59.5 | 59.3 | 59.0 | 59.0 | 59.0 | 61.40 |
| 60.4 | 60.0 | 59.8 | 59.4 | 59.0 | 58.7 | 58.4 | 57.7 | 57.4 | 57.0 | 56.8 | 56.4 | 58.76 |
| 58.8 | 57.8 | 56.9 | 56.0 | 55.3 | 54.2 | 53.4 | 52.6 | 52.2 | 51.6 | 51.0 | 50.0 | 55.23 |
| 57.0 | 56.6 | 56.0 | 55.4 | 54.3 | 53.2 | 53.0 | 52.2 | 51.7 | 51.3 | 51.0 | 50.5 | 53.91 |
| 58.5 | 58.0 | 57.2 | 56.5 | 56.4 | 55.8 | 55.3 | 55.0 | 54.5 | 54.2 | 53.8 | 53.5 | 55.55 |
| 60.4 | 59.6 | 59.0 | 58.5 | 58.0 | 57.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.2 | 56.3 | 56.2 | 56.0 | 56.0 | 56.0 | 57.68 |
| 57.2 | 56.6 | 56.3 | 56.2 | 56.0 | 56.0 | 55.8 | 55.4 | 55.4 | 55.4 | 55.3 | 55.2 | 56.10 |
| 61.5 | 61.0 | 60.5 | 60.5 | 60.0 | 59.5 | 59.2 | 59.0 | 58.6 | 58.5 | 58.5 | 58.0 | 58.70 |
| 65.0 | 65.0 | 64.5 | 63.5 | 62.7 | 62.1 | 61.4 | 61.2 | 61.0 | 60.0 | 59.9 | 59.6 | 61.91 |
| 61.8 | 61.2 | 61.0 | 61.0 | 60.3 | 60.0 | 59.5 | 59.4 | 59.0 | 59.0 | 58.8 | 58.8 | 60.85 |
| 56.4 | 56.0 | 55.8 | 55.5 | 55.4 | 55.1 | 55.1 | 54.9 | 54.9 | 54.8 | 54.0 | 53.4 | 56.42 |
| 53.5 | 56.5 | 56.0 | 55.6 | 54.7 | 54.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.5 | 53.0 | 52.8 | 52.5 | 52.1 | 52.0 | 54.38 |
| 61.2 | 60.6 | 60.3 | 59.8 | 59.0 | 58.5 | 58.0 | 57.5 | 56.6 | 55.7 | 55.2 | 54.5 | 57.50 |
| 59.9 | 59.9 | 59.2 | 59.0 | 58.4 | 58.4 | 58.4 | 57.7 | 57.5 | 57.3 | 57.3 | 57.3 | 58.12 |
| 59.14 | 58.69 | 58.23 | 57.74 | 57.25 | 56.76 | 56.26 | 55.88 | 55.59 | 55.32 | 55.07 | 54.72 | 56.65 |

^b Two minutes late.

^c Ten minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|--------------------|-------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | 1 | 497.0 | 497.0 | 492.5 | 493.3 | 486.0 | 481.8 | 486.3 | 484.0 | 493.2 | 502.6 | 497.1 | 492.1 |
| | 2 | 491.0 | 498.5 | 496.4 | 490.0 | 490.0 | 487.3 | 489.0 | 499.4 | 503.2 | 507.0 | 495.0 | 493.9 |
| | 3 | 497.3 | 496.3 | 492.5 | 481.5 | 466.3 | 476.5 | 488.0 | 493.7 | 493.0 | 500.2 | 499.6 | 497.5 |
| | 4 | 497.8 | 496.3 | 493.0 | 486.8 | 486.0 | 490.0 | 492.0 | 494.7 | 496.2 | 501.3 | 500.7 | 501.4 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 509.0 | 504.0 | 505.4 | 503.3 | 497.5 | 490.5 | 491.0 | 498.8 | 510.2 | 507.3 | 510.9 | 515.0 |
| | 7 | 509.3 | 508.3 | 504.4 | 496.0 | 487.0 | 492.8 | 497.8 | 500.0 | 505.6 | 505.0 | 511.1 | 508.5 |
| | 8 | 504.0 | 500.5 | 496.0 | 490.0 | 493.0 ^a | 495.6 | 497.5 | 509.2 | 503.5 | 503.9 | 505.0 | 505.5 |
| | 9 | 498.3 | 496.8 | 488.1 | 487.0 | 489.3 | 489.0 ^b | 491.8 | 494.6 | 500.4 | 503.4 | 500.3 | 504.2 |
| | 10 | 506.0 | 508.3 | 508.0 | 500.5 | 497.6 | 494.0 | 506.0 | 512.1 | 510.0 | 506.6 | 512.9 | 505.3 |
| | 11 | 507.0 | 506.0 | 502.0 | 501.0 | 502.5 | 507.0 | 509.5 | 509.8 | 508.9 | 506.5 | 506.9 | 503.6 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 512.0 | 511.0 | 505.0 | 501.0 | 498.0 | 499.4 | 543.5 | 506.6 | 512.5 | 517.2 | 516.1 | 513.6 |
| | 14 | 520.0 | 515.0 | 519.4 | 506.5 | 499.9 | 498.0 | 501.5 | 504.1 | 509.4 | 510.8 | 509.0 | 505.4 |
| | 15 | 515.0 | 514.0 | 509.0 | 499.0 | 496.9 | 488.0 | 489.5 | 496.0 | 500.0 | 508.0 | 508.4 | 505.0 |
| | 16 | 502.0 | 503.5 | 499.8 | 490.3 | 485.5 | 488.9 | 499.4 | 500.0 | 502.7 | 504.0 | 507.5 | 500.7 |
| | 17 | 509.0 | 506.0 | 501.6 | 497.3 | 493.5 | 487.0 | 489.3 | 495.8 | 502.8 | 508.2 ^c | 509.2 | 508.8 |
| | 18 | 510.0 | 507.8 | 501.5 | 502.0 | 501.0 | 502.8 | 509.5 | 508.3 | 505.5 | 514.0 | 515.4 | 516.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 516.0 | 514.0 | 510.8 | 510.9 | 513.0 | 513.0 | 517.3 | 520.4 | 523.0 | 519.2 | 519.0 | 514.6 |
| | 21 | 517.0 | 514.0 | 513.0 | 506.8 | 503.5 | 501.0 | 511.0 | 516.5 | 522.0 | 515.0 | 517.3 | 545.9 |
| | 22 | 516.0 | 516.0 | 521.5 | 321.3 | 513.5 | 512.8 | 511.5 | 509.1 | 518.0 | 508.7 | 499.2 | 517.8 |
| | 23 | 499.8 | 501.8 | 503.9 | 493.0 | 481.0 | 493.8 | 489.0 | 497.0 | 498.9 | 504.9 | 504.7 | 508.0 |
| | 24 | 500.0 | 496.0 | 489.9 | 491.0 | 489.0 | 491.0 | 501.0 | 502.0 | 506.1 | 510.7 | 502.0 | 499.0 |
| | 25 | 495.2 | 493.6 | 488.3 | 488.3 | 493.0 | 490.7 | 488.0 | 495.4 | 500.6 | 487.7 | 500.4 | 496.6 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 492.0 | 490.0 | 484.2 | 478.4 | 477.0 | 484.0 | 489.4 | 496.7 | — | — | 501.4 ^c | 489.4 |
| | 28 | 495.0 | 496.0 | 492.4 | 488.0 | 486.0 | 494.0 | 487.0 | 493.4 | 495.6 | 502.8 | 498.1 | 500.7 |
| | 29 | 500.8 | 498.6 | 493.5 | 490.0 | 482.0 | 483.6 | 489.0 | 497.0 | 503.8 | 509.4 | 507.8 | 498.6 |
| | 30 | 499.6 | 499.0 | 498.2 | 495.0 | 490.0 | 496.0 | 502.6 | 503.5 | 506.0 | 506.0 | 506.0 | 504.0 |
| | 31 | 512.1 | 506.7 | 499.3 | 494.1 | 495.2 | 496.2 | 497.4 | 498.4 | 499.1 | 500.9 | 502.0 | 506.4 |
| Hourly Means | 504.75 | 503.52 | 500.36 | 495.64 | 492.34 | 493.51 | 497.21 | 501.35 | 505.01 | 506.59 | 506.04 | 505.83 | |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| MAY. | 1 | 57.3 | 58.0 | 58.5 | 60.0 | 61.2 | 62.0 | 62.5 | 62.6 | 63.0 | 63.0 | 63.2 | 63.5 |
| | 2 | 60.7 | 61.4 | 61.5 | 63.0 | 64.5 | 63.5 | 64.0 | 64.4 | 66.8 | 66.0 | 67.2 | 66.4 |
| | 3 | 61.4 | 62.0 | 62.2 | 62.4 | 62.7 | 63.2 | 64.0 | 64.3 | 64.7 | 64.7 | 65.2 | 65.4 |
| | 4 | 59.5 | 59.2 | 59.2 | 59.2 | 59.2 | 59.5 | 59.7 | 59.8 | 59.8 | 60.2 | 60.1 | 59.8 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 56.5 | 56.5 | 56.2 | 56.0 | 55.8 | 56.4 | 57.0 | 57.5 | 58.3 | 58.9 | 59.1 | 59.0 |
| | 7 | 56.6 | 58.0 | 59.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.6 | 62.0 | 62.8 | 63.2 |
| | 8 | 59.0 | 59.0 | 59.0 | 59.0 | 59.5 ^a | 60.0 | 60.5 | 61.0 | 61.8 | 62.5 | 63.2 | 63.6 |
| | 9 | 58.0 | 59.0 | 60.0 | 60.5 | 61.0 | 61.0 ^b | 61.0 | 61.3 | 62.0 | 62.6 | 63.3 | 63.8 |
| | 10 | 56.6 | 57.5 | 58.0 | 58.5 | 58.9 | 59.0 | 59.0 | 59.0 | 59.0 | 58.7 | 58.7 | 58.2 |
| | 11 | 56.0 | 56.0 | 56.4 | 57.0 | 58.0 | 59.0 | 60.0 | 60.6 | 61.6 | 62.8 | 63.7 | 63.8 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 53.5 | 53.5 | 54.0 | 54.5 | 53.8 | 52.5 | 51.8 | 52.5 | 53.0 | 53.2 | 53.2 | 53.4 |
| | 14 | 52.4 | 52.6 | 53.3 | 54.0 | 55.0 | 56.0 | 56.7 | 57.2 | 58.6 | 60.0 | 61.2 | 61.2 |
| | 15 | 56.0 | 57.0 | 58.0 | 58.5 | 59.0 | 60.5 | 61.5 | 62.3 | 62.9 | 63.5 | 63.0 | 63.0 |
| | 16 | 58.5 | 58.5 | 58.7 | 59.5 | 60.0 | 61.0 | 61.4 | 62.6 | 63.5 | 63.7 | 63.7 | 63.5 |
| | 17 | 56.7 | 56.7 | 56.7 | 57.5 | 58.5 | 58.9 | 60.4 | 60.6 | 61.4 | 61.6 ^c | 61.6 | 61.6 |
| | 18 | 58.0 | 57.5 | 57.7 | 58.8 | 59.5 | 60.1 | 60.0 | 59.8 | 60.1 | 61.2 | 61.8 | 62.5 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 56.0 | 56.0 | 56.0 | 56.5 | 57.5 | 58.2 | 59.0 | 59.6 | 60.5 | 61.4 | 61.8 | 61.4 |
| | 21 | 53.5 | 53.3 | 53.0 | 53.5 | 54.0 | 54.5 | 55.0 | 55.5 | 55.5 | 55.5 | 56.0 | 56.8 |
| | 22 | 52.0 | 53.5 | 54.5 | 56.0 | 56.8 | 57.3 | 57.5 | 58.0 | 58.5 | 59.0 | 59.4 | 59.6 |
| | 23 | 55.5 | 55.5 | 58.2 | 59.0 | 60.0 | 61.6 | 62.4 | 63.0 | 63.2 | 64.0 | 64.5 | 64.8 |
| | 24 | 60.5 | 61.5 | 62.8 | 64.5 | 64.5 | 65.5 | 64.5 | 64.2 | 64.8 | 63.6 | 64.6 | 65.5 |
| | 25 | 64.5 | 64.8 | 65.0 | 65.0 | 66.0 | 67.2 | 68.5 | 70.2 | 70.7 | 71.4 | 71.9 | 72.3 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 66.0 | 66.5 | 66.3 | 66.3 | 66.5 | 66.8 | 67.3 | 67.9 | — | — | 69.4 ^c | 69.4 |
| | 28 | 65.5 | 65.5 | 65.4 | 65.5 | 65.8 | 66.4 | 67.2 | 67.8 | 68.2 | 69.0 | 69.6 | 69.8 |
| | 29 | 62.7 | 62.8 | 63.0 | 63.6 | 64.0 | 64.8 | 65.3 | 65.9 | 66.2 | 67.0 | 67.5 | 68.0 |
| | 30 | 62.0 | 62.0 | 61.5 | 61.3 | 61.3 | 61.5 | 62.0 | 62.4 | 63.0 | 63.4 | 63.5 | 63.5 |
| | 31 | 62.0 | 62.2 | 62.4 | 62.2 | 62.2 | 62.0 | 62.2 | 62.6 | 63.2 | 63.5 | 64.0 | 64.8 |
| Hourly Means | 58.40 | 58.74 | 59.13 | 59.70 | 60.19 | 60.68 | 61.13 | 61.58 | 61.88 | 62.40 | 63.08 | 63.25 | |

^a Three minutes late.

^b Fifteen minutes late.

^c Seven minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00027.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. | Se. Div. |
| 489.1 | 485.5 | 493.1 | 498.6 | 500.0 | 491.8 | 487.5 | 499.1 | 494.3 | 499.0 | 498.0 | 487.8 | 492.78 |
| 488.6 | 485.5 | 491.1 | 487.0 | 490.0 | 491.5 | 485.6 | 477.7 | 490.5 | 494.2 | 493.4 | 499.0 | 492.28 |
| 490.2 | 490.0 | 490.0 | 490.4 | 489.8 | 488.8 | 491.0 | 490.0 | 495.0 | 495.7 | 495.8 | 498.0 | 491.13 |
| 502.8 | 500.3 | 502.5 | 500.0 | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 501.5 | 503.2 | 505.0 | 501.5 | 505.0 | 507.0 | 498.41 |
| 501.8 | 501.0 | 499.0 | 500.4 | 502.0 | 503.8 | 504.7 | 508.3 | 504.1 | 505.9 | 507.3 | 508.5 | 503.74 |
| 500.6 | 498.1 | 497.5 | 498.9 | 518.2 | 502.1 | 494.3 | 484.1 | 501.7 | 494.8 | 504.3 | 498.0 | 500.77 |
| 498.0 | 496.3 | 489.5 | 481.5 | 478.9 | 490.8 | 494.3 | 489.4 | 490.7 | 491.9 | 492.0 | 497.0 | 495.58 |
| 496.5 | 488.5 | 494.4 | 492.8 | 495.2 | 496.8 | 496.8 | 496.9 | 499.4 | 502.2 | 501.8 | 502.0 | 496.10 |
| 501.2 | 504.6 ^c | 506.0 | 506.6 | 506.5 | 499.9 | 505.5 | 505.5 | 505.0 | 506.5 | 507.4 | 508.0 | 505.42 |
| 496.9 | 500.9 | 503.5 | 503.5 | 500.9 | 500.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 505.9 | 505.0 | 507.5 | 505.4 | 510.0 | 510.0 | 505.03 |
| 512.9 | 513.7 | 515.0 | 517.0 | 517.0 | 519.9 | 512.0 | 513.0 | 518.2 | 521.6 | 528.3 | 524.0 | 512.85 |
| 504.5 | 513.8 | 501.2 | 482.3 | 482.3 | 503.4 | 505.8 | 500.1 | 510.5 | 513.3 | 513.0 | 514.0 | 505.97 |
| 495.9 | 489.6 | 494.0 | 495.5 | 497.0 | 499.8 | 500.5 | 502.2 | 502.1 | 505.0 | 501.6 | 504.0 | 500.67 |
| 501.5 | 499.3 | 498.8 | 499.9 ^d | 498.4 | 500.1 | 497.9 | 497.9 | 501.3 | 504.5 | 506.0 | 506.0 | 499.83 |
| 511.5 | 501.0 | 499.7 | 501.7 | 504.0 | 503.5 | 504.7 | 504.0 | 508.2 | 506.4 | 509.0 | 510.0 | 503.01 |
| 509.1 | 505.5 | 504.0 | 503.1 | 503.8 | 503.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 507.6 | 506.9 | 509.3 | 511.0 | 512.7 | 515.0 | 507.71 |
| 513.5 | 512.5 | 514.0 | 513.3 | 513.5 | 514.5 | 513.0 | 514.0 | 514.8 | 516.6 | 517.6 | 517.2 | 515.24 |
| 520.3 | 507.0 | 510.3 | 511.4 | 508.1 | 509.7 | 510.9 | 510.0 | 512.7 | 515.0 | 515.9 | 521.0 | 513.97 |
| 524.7 | 494.6 | 498.0 | 495.4 | 497.9 | 494.6 | 488.0 | 488.5 | 490.2 | 495.3 | 499.5 | 492.5 | 504.36 |
| 495.4 | 495.9 | 494.4 | 499.9 | 500.5 | 501.0 | 498.3 | 502.2 | 501.2 | 499.8 | 493.9 | 499.5 | 498.24 |
| 498.0 | 494.4 | 496.9 | 490.0 | 495.0 | 493.2 | 495.3 | 496.0 | 491.6 | 496.2 | 496.4 | 496.0 | 496.53 |
| 498.2 | 489.9 | 488.6 | 489.9 | 493.8 | 488.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 482.2 | 491.3 | 491.0 | 491.2 | 492.0 | 492.0 | 491.93 |
| 490.0 | 495.0 | 490.0 | 487.1 | 488.7 | 481.0 | 489.9 | 490.0 ^e | 490.6 | 493.0 | 492.0 | 493.5 | 489.24 |
| 499.0 | 493.8 | 494.5 | 495.8 | 495.3 | 493.0 | 494.0 | 490.6 | 494.8 | 493.5 | 496.5 | 497.8 | 494.48 |
| 501.0 | 500.0 | 500.0 | 495.3 | 500.3 | 498.0 | 494.4 | 494.9 | 486.7 | 485.3 | 490.8 | 499.0 | 495.83 |
| 503.5 | 504.0 | 502.8 | 503.4 | 502.3 | 501.7 | 502.0 | 504.0 | 504.8 | 504.5 | 505.5 | 497.8 | 501.76 |
| 504.6 | 499.9 | 510.3 | 510.0 | 510.3 | 507.3 | 515.9 | 510.3 | 504.7 | 503.9 | 506.9 | 508.2 | 504.17 |
| 501.83 | 498.54 | 498.49 | 498.17 | 499.60 | 499.17 | 499.24 | 499.08 | 500.96 | 501.97 | 503.43 | 503.81 | 500.67 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------------------|-------|-------------------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| 63.7 | 63.0 | 62.6 | 62.4 | 62.3 | 62.2 | 62.0 | 61.5 | 61.5 | 61.5 | 61.2 | 61.0 | 61.65 |
| 66.2 | 65.8 | 65.3 | 65.0 | 64.5 | 64.0 | 63.5 | 63.0 | 63.0 | 62.8 | 62.5 | 61.8 | 63.95 |
| 65.2 | 64.6 | 64.0 | 63.5 | 63.2 | 62.8 | 62.4 | 62.0 | 61.5 | 60.9 | 60.2 | 60.0 | 63.02 |
| 59.4 | 59.0 | 58.8 | 58.5 | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.0 | 58.6 | 58.4 | 58.0 | 57.6 | 56.9 | 59.06 |
| 58.6 | 58.4 | 58.2 | 58.0 | 57.6 | 57.4 | 57.5 | 57.2 | 57.0 | 56.9 | 56.9 | 56.6 | 57.40 |
| 63.6 | 63.5 | 62.9 | 62.2 | 61.6 | 61.1 | 60.6 | 60.0 | 59.8 | 59.5 | 59.2 | 59.0 | 60.63 |
| 64.0 | 63.6 | 62.6 | 62.0 | 61.7 | 61.0 | 60.7 | 60.3 | 59.7 | 59.2 | 58.8 | 58.6 | 60.85 |
| 64.0 | 63.8 | 62.8 | 62.0 | 61.2 | 60.6 | 59.6 | 59.0 | 58.2 | 58.0 | 57.5 | 56.6 | 60.70 |
| 57.6 | 57.0 ^c | 56.7 | 56.5 | 56.2 | 56.0 | 55.8 | 55.7 | 55.7 | 55.7 | 55.7 | 56.0 | 57.32 |
| 63.7 | 63.9 | 63.7 | 63.5 | 63.5 | 63.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.7 | 56.2 | 55.5 | 54.9 | 54.3 | 53.8 | 59.49 |
| 53.0 | 53.6 | 52.5 | 51.8 | 51.5 | 51.3 | 51.1 | 51.2 | 51.2 | 51.5 | 51.8 | 52.0 | 52.56 |
| 61.2 | 60.5 | 59.8 | 59.4 | 59.4 | 59.0 | 58.5 | 57.8 | 57.4 | 57.0 | 56.6 | 55.7 | 57.52 |
| 63.0 | 63.0 | 62.7 | 62.2 | 61.6 | 61.0 | 60.6 | 60.2 | 60.2 | 60.0 | 59.5 | 59.0 | 60.76 |
| 63.4 | 62.8 | 61.8 | 61.0 ^d | 60.1 | 59.5 | 58.9 | 58.5 | 58.1 | 57.8 | 57.5 | 57.0 | 60.46 |
| 61.2 | 60.8 | 60.3 | 60.2 | 60.0 | 59.7 | 59.4 | 59.0 | 59.0 | 59.0 | 58.6 | 58.3 | 59.49 |
| 62.5 | 62.5 | 62.2 | 61.3 | 60.5 | 60.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.2 | 57.2 | 57.0 | 56.8 | 56.5 | 56.5 | 59.47 |
| 60.7 | 60.0 | 59.3 | 58.9 | 58.0 | 57.5 | 57.2 | 56.2 | 55.4 | 54.9 | 55.5 | 54.5 | 58.00 |
| 56.8 | 56.8 | 57.6 | 56.2 | 55.3 | 55.0 | 54.6 | 54.0 | 53.2 | 52.5 | 52.3 | 52.0 | 54.68 |
| 59.6 | 59.2 | 59.2 | 58.8 | 58.5 | 57.9 | 57.7 | 57.2 | 57.0 | 56.6 | 56.0 | 55.5 | 57.30 |
| 64.7 | 64.4 | 64.2 | 64.0 | 63.4 | 63.0 | 62.6 | 62.0 | 61.6 | 61.4 | 61.0 | 60.4 | 61.85 |
| 66.2 | 65.4 | 66.0 | 66.1 | 66.0 | 65.8 | 65.5 | 65.6 | 65.5 | 65.4 | 65.2 | 65.0 | 64.76 |
| 72.0 | 71.8 | 71.2 | 70.6 | 70.2 | 69.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68.2 | 67.9 | 67.4 | 67.0 | 67.0 | 66.5 | 68.63 |
| 69.4 | 69.0 | 68.8 | 68.6 | 68.2 | 67.6 | 67.4 | 67.0 ^f | 66.8 | 66.4 | 66.0 | 65.5 | 67.41 |
| 69.8 | 69.4 | 68.6 | 68.0 | 67.0 | 66.4 | 65.8 | 65.5 | 65.0 | 64.4 | 63.8 | 63.0 | 66.77 |
| 68.0 | 67.6 | 66.8 | 66.1 | 65.5 | 65.0 | 64.5 | 63.6 | 62.8 | 62.6 | 62.5 | 62.0 | 64.91 |
| 63.5 | 63.5 | 63.5 | 63.2 | 63.2 | 63.0 | 63.0 | 63.0 | 62.6 | 62.6 | 62.6 | 62.3 | 62.64 |
| 64.7 | 64.4 | 64.0 | 63.5 | 63.0 | 62.5 | 62.0 | 61.3 | 60.0 | 60.6 | 60.0 | 59.5 | 62.49 |
| 63.17 | 62.86 | 62.45 | 61.98 | 61.66 | 61.24 | 60.44 | 60.03 | 59.69 | 59.40 | 59.12 | 58.70 | 60.85 |

^d Eleven minutes late.

^e Two minutes late.

^f Twenty minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|--------------------|--------------------|-------------------|--------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00027. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JUNE. | 1 | 508·8 | 508·8 | 504·9 | 499·4 | 500·7 | 503·2 | 505·3 | 508·5 | 517·5 | 519·3 | 525·3 | 514·0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 511·7 | 514·1 | 513·9 | 505·3 | 500·2 | 502·0 | 500·2 | 504·0 | 505·6 | 508·6 | 512·2 | 510·0 |
| | 4 | 513·6 | 513·3 | 512·8 | 512·8 | 501·5 | 504·4 | 504·1 | 505·0 | 507·2 | 510·9 | 507·5 | 511·0 |
| | 5 | 509·0 | 510·0 | 508·3 | 507·8 | 508·3 | 508·3 | 510·9 | 515·3 ^b | 509·0 | 513·9 | 513·7 | 515·1 |
| | 6 | 510·5 | 508·7 | 503·2 | 498·6 | 497·5 | 500·0 | 503·7 | 504·0 | 500·9 | 499·7 | 500·9 | 502·5 |
| | 7 | 504·6 | 503·0 | 499·0 | 499·3 | 503·9 | 504·0 | 506·0 | 510·0 | 513·7 | 512·0 | 506·8 | 504·0 |
| | 8 | 508·0 | 509·1 | 511·5 | 511·1 | 509·0 | 511·8 | 513·0 | 518·9 | 523·5 | 522·4 | 514·2 | 519·4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 512·1 | 514·9 | 508·9 | 507·1 | 510·7 | 513·7 ^c | 514·6 | 518·0 | 526·0 | 522·3 | 530·2 | 518·1 |
| | 11 | 518·2 | 516·1 | 515·7 | 514·1 | 516·0 | 512·2 ^d | 513·5 | 519·0 | 523·6 | 519·9 | 513·0 ^d | 512·0 |
| | 12 | 518·0 | 516·0 | 511·8 | 513·0 | 515·4 | 517·3 | 515·6 | 513·9 | 517·0 | 517·7 | 512·8 | 509·9 |
| | 13 | 512·9 | 517·4 | 515·9 | 512·6 | 508·5 | 502·1 | 503·1 | 506·4 | 509·0 | 514·0 | 518·3 | 513·7 |
| | 14 | 514·7 | 513·7 | 512·3 | 506·3 | 499·0 | 500·9 | 502·8 | 508·0 | 516·4 | 519·0 | 519·1 | 512·0 |
| | 15 | 508·5 | 504·8 | 502·9 | 504·3 | 503·2 | 508·5 | 510·8 | 510·0 | 506·0 | 512·8 | 507·9 | 507·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 508·0 | 500·4 | 498·7 | 494·9 | 485·1 | 490·5 | 496·5 | 492·7 | 506·2 | 502·8 | 500·1 | 516·0 |
| | 18 | 503·6 | 501·2 | 496·3 | 497·9 | 495·4 | 486·9 | 487·6 | 493·3 | 499·8 | 500·1 | 505·8 | 493·2 |
| | 19 | 494·5 | 487·8 | 487·0 | 482·5 | 478·3 | 477·8 | 479·3 | 488·0 | 496·2 | 497·8 | 496·9 | 500·1 |
| | 20 | 499·6 | 498·0 | 497·5 | 491·0 | 485·6 | 489·5 | 493·4 | 499·9 | 515·7 | 510·7 | 510·0 | 515·9 |
| | 21 | 503·5 | 500·6 | 502·5 | 506·3 | 500·9 | 502·5 | 502·7 | 505·3 | 519·1 ^e | 507·1 | 525·0 | 522·5 |
| | 22 | 503·9 | 503·8 | 504·7 | 499·9 | 495·7 | 497·1 | 503·5 | 508·0 | 508·9 | 513·0 | 513·6 | 511·4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 512·6 | 508·0 | 503·7 | 499·5 | 500·9 | 501·5 | 504·6 | 507·0 | 507·3 | 511·8 | 511·0 | 507·6 |
| | 25 | 510·0 | 509·0 | 506·5 | 504·0 | 498·3 | 499·1 | 503·5 | 507·0 | 508·8 | 508·7 | 506·9 | 504·8 |
| | 26 | 501·5 | 501·2 | 495·9 | 491·4 | 495·1 | 495·5 | 498·6 | 499·2 | 499·3 | 499·8 | 499·6 | 504·5 |
| | 27 | 506·3 | 506·2 | 503·4 | 500·4 | 497·0 | 494·6 | 500·8 | 508·2 | 509·5 | 517·5 | 514·8 | 513·0 |
| | 28 | 516·5 | 511·8 | 507·6 | 506·2 | 509·9 | 511·4 | 514·7 | 517·1 | 514·1 | 517·9 | 516·2 | 518·8 |
| | 29 | 503·0 | 519·0 | 509·6 | 499·0 | 502·8 | 515·5 | 516·5 | 519·3 | 519·8 | 509·4 | 513·9 | 513·7 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 508·54 | 507·88 | 505·38 | 502·59 | 500·76 | 502·01 | 504·21 | 507·44 | 511·20 | 511·56 | 511·83 | 510·81 | |

| TEMPERATURE OF THE BILFAR MAGNET. | | | | | | | | | | | | | |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------------------|-------------------|-------|-------------------|------|
| JUNE. | 1 | 59·4 | 59·6 | 59·8 | 59·8 | 60·5 | 61·5 | 62·0 | 62·4 | 63·4 | 64·5 | 65·0 | 65·5 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 57·6 | 57·8 | 58·4 | 59·5 | 60·0 | 60·7 | 61·0 | 60·7 | 61·5 | 62·8 | 63·0 | 65·5 |
| | 4 | 58·0 | 58·0 | 58·5 | 58·5 | 61·0 | 62·0 | 62·5 | 62·5 | 63·2 | 64·0 | 64·5 | 65·0 |
| | 5 | 59·7 | 59·5 | 59·8 | 60·0 | 60·3 | 60·7 | 61·5 | 62·4 ^b | 63·5 | 64·5 | 64·8 | 65·4 |
| | 6 | 62·3 | 62·8 | 63·8 | 64·7 | 66·0 | 67·0 | 67·5 | 67·6 | 68·5 | 69·0 | 68·8 | 68·4 |
| | 7 | 63·0 | 62·6 | 62·4 | 62·4 | 63·0 | 63·5 | 64·0 | 64·5 | 65·4 | 66·0 | 67·2 | 67·5 |
| | 8 | 58·8 | 59·0 | 58·0 | 59·0 | 59·8 | 59·8 | 60·2 | 60·6 | 61·0 | 61·4 | 62·0 | 62·4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 57·8 | 58·4 | 58·8 | 59·4 | 59·5 | 59·5 ^c | 59·5 | 59·4 | 59·5 | 60·4 | 60·5 | 60·8 |
| | 11 | 55·6 | 56·4 | 57·5 | 58·0 | 58·8 | 59·0 ^d | 59·5 | 59·5 | 60·2 | 61·0 | 61·8 ^d | 62·5 |
| | 12 | 57·0 | 58·0 | 59·0 | 60·0 | 60·8 | 61·8 | 62·5 | 62·9 | 63·8 | 64·4 | 64·8 | 65·0 |
| | 13 | 58·8 | 59·2 | 59·8 | 60·4 | 61·5 | 62·5 | 63·5 | 63·8 | 64·8 | 65·5 | 66·4 | 66·5 |
| | 14 | 61·0 | 61·5 | 62·5 | 63·2 | 64·4 | 65·2 | 65·8 | 66·0 | 67·0 | 67·6 | 68·4 | 69·0 |
| | 15 | 63·0 | 63·0 | 63·5 | 64·2 | 65·5 | 66·3 | 67·0 | 67·8 | 68·2 | 68·8 | 69·0 | 69·4 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 65·5 | 65·5 | 65·5 | 65·5 | 65·7 | 66·2 | 67·0 | 67·5 | 68·0 | 68·3 | 68·5 | 68·7 |
| | 18 | 66·8 | 67·0 | 67·5 | 67·5 | 68·5 | 70·5 | 71·2 | 71·5 | 72·4 | 73·6 | 74·0 | 74·5 |
| | 19 | 70·0 | 70·5 | 71·0 | 72·0 | 73·0 | 72·5 | 72·5 | 72·4 | 72·6 | 72·8 | 73·5 | 74·0 |
| | 20 | 69·5 | 69·0 | 68·5 | 68·5 | 69·0 | 69·2 | 69·6 | 70·2 | 70·5 | 71·0 | 71·2 | 71·3 |
| | 21 | 64·8 | 64·8 | 65·0 | 65·4 | 65·5 | 66·0 | 66·8 | 67·3 | 68·0 ^e | 68·2 | 69·6 | 69·6 |
| | 22 | 63·0 | 63·0 | 62·8 | 63·0 | 63·5 | 64·0 | 65·0 | 65·5 | 66·0 | 67·0 | 68·3 | 68·4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 65·3 | 65·5 | 66·6 | 66·5 | 67·5 | 68·0 | 68·5 | 69·0 | 69·6 | 70·4 | 70·4 | 70·6 |
| | 25 | 68·5 | 68·5 | 68·0 | 68·0 | 68·3 | 69·4 | 70·0 | 70·5 | 71·4 | 71·8 | 71·8 | 72·8 |
| | 26 | 69·5 | 69·2 | 69·0 | 68·8 | 69·0 | 69·4 | 69·6 | 70·2 | 70·0 | 70·0 | 70·0 | 70·0 |
| | 27 | 67·4 | 67·0 | 67·0 | 66·8 | 66·5 | 66·4 | 66·2 | 66·0 | 65·8 | 66·0 | 66·2 | 66·0 |
| | 28 | 65·0 | 65·0 | 65·0 | 65·0 | 65·4 | 65·8 | 66·4 | 67·0 | 67·4 | 67·8 | 68·4 | 68·4 |
| | 29 | 62·8 | 63·0 | 63·5 | 64·2 | 65·0 | 65·5 | 66·0 | 66·2 | 66·6 | 66·8 | 67·0 | 67·5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 62·80 | 62·95 | 63·25 | 63·61 | 64·32 | 64·90 | 65·41 | 65·74 | 66·33 | 66·94 | 67·40 | 67·79 | |

^a Eighteen minutes late.

^b Ten minutes late.

^c Three minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 518·8 | Sc. Div. 524·0 | Sc. Div. 504·0 | Sc. Div. 493·9 | Sc. Div. 496·9 | Sc. Div. 499·2 | — | — | — | — | — | — | Sc. Div. — |
| — | — | — | — | — | — | 509·0 | 509·0 | 505·6 | 503·0 | 504·3 | 508·0 | 507·98 |
| 510·5 | 509·0 | — | — | 507·8 | 508·4 ^d | 506·2 | 508·5 | 509·1 | 511·7 | 507·9 | 512·0 | 508·13 |
| 508·0 | 506·0 | 505·0 | 505·2 | 504·6 | 506·1 | 507·8 | 509·0 | 509·0 | 507·8 | 509·0 | 510·0 | 507·98 |
| 508·8 | 505·6 | 504·4 | 504·8 | 503·1 | 503·0 | 503·1 | 505·6 | 509·1 | 508·6 | 507·6 | 510·9 | 508·51 |
| 502·9 | 505·8 | 504·0 | 504·6 | 505·1 | 508·0 | 506·0 | 506·2 | 507·6 | 508·1 | 510·3 | 510·2 | 504·54 |
| 502·0 | 506·0 | 505·0 | 504·6 | 502·8 | 503·0 | 504·8 | 505·8 | 503·1 | 505·4 | 506·9 | 507·8 | 505·15 |
| 517·7 | 518·3 | 510·6 | 517·6 | 526·8 | 515·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 511·9 | 512·0 | 515·8 | 518·0 | 515·0 | 506·9 | 514·91 |
| 510·4 | 514·9 | 512·0 | 503·8 | 509·8 | 512·5 | 515·0 | 514·2 | 513·0 | 507·2 | 512·6 | 515·8 | 514·08 |
| 507·0 | 509·2 | 515·5 | 513·5 | 510·0 | 508·0 | 507·7 | 511·1 | 510·4 | 507·9 | 513·9 | 518·0 | 513·56 |
| 507·8 | 508·6 | 508·6 | 509·8 | 505·8 | 501·2 | 496·8 | 506·0 | 503·5 | 501·5 | 500·0 | 510·8 | 509·95 |
| 512·0 | 511·2 | 502·9 | 503·5 | 507·3 | 507·0 | 505·0 | 505·9 | 506·0 | 507·2 | 508·8 | 513·5 | 509·34 |
| 505·5 | 505·3 | 502·3 | 500·7 | 503·2 | 501·0 | 505·0 | 505·3 | 505·4 | 507·7 | 505·6 | 509·0 | 507·51 |
| 504·6 | 504·1 | 506·0 | 503·6 | 504·6 | 505·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 503·5 | 502·9 | 509·2 | 506·0 | 511·8 | 511·0 | 506·64 |
| 505·0 | 499·0 | 495·0 | 498·7 | 493·2 | 501·8 | 500·2 | 499·7 | 495·8 | 500·5 | 501·1 | 501·7 | 499·34 |
| 497·0 | 492·7 | 496·4 | 491·7 | 491·3 | 486·8 | 489·5 | 489·8 | 490·0 | 495·1 | 494·8 | 496·0 | 494·68 |
| 498·5 | 493·4 | 492·3 | 494·0 | 497·0 | 495·8 | 495·0 | 497·0 | 497·0 | 495·7 | 495·4 | 498·4 | 492·34 |
| 506·6 | 508·3 | 508·3 | 504·0 | 496·9 | 497·1 | 509·6 | 505·0 | 502·8 | 494·5 | 497·8 | 498·9 | 501·53 |
| 507·0 | 499·0 | 497·5 | 501·1 | 502·7 | 504·4 | 503·2 | 503·4 | 502·1 | 502·8 | 504·0 | 505·5 | 505·45 |
| 508·7 | 507·7 | 508·3 | 505·7 | 505·2 | 507·1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 509·9 | 511·3 | 508·3 | 508·0 | 506·6 | 510·2 | 506·69 |
| 510·8 | 503·8 | 506·1 | 505·8 | 507·1 | 506·1 | 506·3 | 502·9 | 506·5 | 500·5 | 499·9 | 502·8 | 505·59 |
| 500·9 | 500·2 | 504·0 | 499·2 | 502·7 | 499·9 | 508·5 | 500·0 | 497·0 | 498·5 | 495·5 | 497·8 | 502·95 |
| 502·0 | 500·9 | 500·8 | 501·8 | 500·9 | 500·0 | 499·0 | 499·2 | 501·8 | 501·2 | 503·3 | 506·7 | 499·97 |
| 509·0 | 506·7 | 510·0 | 511·1 | 513·4 | 10·3 | 511·2 | 513·2 | 512·2 | 512·8 | 513·7 | 500·3 | 508·15 |
| 518·2 | 514·5 | 515·3 | 508·5 | 507·2 ^d | 07·8 ^c | 507·5 | 519·0 | 515·2 | 517·5 | 505·1 | 505·0 | 512·63 |
| 512·0 | 507·8 | 509·0 | 505·9 | 504·5 | 509·8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 507·4 | 509·1 | 510·0 | 510·2 | 511·7 | 512·8 | 510·49 |
| 507·67 | 506·48 | 505·14 | 503·88 | 504·40 | 504·20 | 505·16 | 506·04 | 505·82 | 505·50 | 505·70 | 507·20 | 506·31 |

TEMPERATURE OF THE BIPOLAR MAGNET.

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|---|-------|
| 65·5 | 65·5 | 65·5 | 65·2 | 65·0 | 65·0 | — | — | — | — | — | — | — | 62·05 |
| — | — | — | — | — | — | 60·0 | 59·8 | 59·0 | 58·6 | 58·6 | 58·0 | — | — |
| 63·5 | 63·0 | — | — | 61·5 | 60·7 ^a | 60·3 | 60·0 | 59·5 | 59·2 | 58·5 | 58·0 | — | 60·58 |
| 65·0 | 64·7 | 64·0 | 63·4 | 62·9 | 62·4 | 62·0 | 61·5 | 61·1 | 60·7 | 60·5 | 60·0 | — | 61·91 |
| 65·0 | 65·0 | 64·6 | 64·5 | 64·2 | 63·6 | 63·4 | 63·2 | 62·9 | 62·5 | 62·5 | 62·4 | — | 62·75 |
| 68·0 | 67·6 | 67·0 | 66·5 | 66·0 | 65·5 | 65·0 | 64·5 | 64·2 | 63·8 | 63·4 | 63·2 | — | 65·88 |
| 67·5 | 67·0 | 65·7 | 65·3 | 65·0 | 64·7 | 63·0 | 62·0 | 61·2 | 60·5 | 60·0 | 59·0 | — | 63·85 |
| 62·0 | 61·6 | 61·2 | 61·0 | 60·5 | 60·0 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60·0 | 59·5 | 59·0 | 58·4 | 57·8 | 57·6 | — | 60·02 |
| 61·0 | 60·5 | 60·0 | 59·0 | 58·6 | 58·0 | 57·6 | 57·3 | 57·0 | 56·6 | 56·3 | 56·0 | — | 58·81 |
| 63·0 | 62·7 | 62·2 | 61·8 | 61·2 | 60·6 | 60·0 | 59·0 | 58·5 | 57·9 | 57·2 | 56·6 | — | 59·60 |
| 65·0 | 64·7 | 64·3 | 63·7 | 63·0 | 62·5 | 62·2 | 61·4 | 60·5 | 60·0 | 59·5 | 59·2 | — | 61·92 |
| 66·7 | 66·6 | 66·3 | 65·5 | 65·0 | 64·5 | 64·0 | 63·5 | 63·0 | 62·4 | 61·6 | 60·7 | — | 63·44 |
| 69·5 | 69·4 | 68·5 | 68·2 | 67·6 | 67·2 | 66·5 | 65·7 | 65·0 | 64·5 | 64·1 | 63·5 | — | 65·89 |
| 69·6 | 69·4 | 68·8 | 68·2 | 67·5 | 67·0 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66·7 | 66·6 | 66·2 | 66·2 | 66·0 | 66·0 | — | 66·83 |
| 69·5 | 69·0 | 68·5 | 68·0 | 67·6 | 67·5 | 67·5 | 67·5 | 67·5 | 67·0 | 66·8 | 66·8 | — | 67·30 |
| 74·8 | 75·0 | 74·4 | 74·0 | 73·5 | 73·0 | 72·8 | 72·0 | 71·7 | 71·5 | 71·0 | 70·5 | — | 71·63 |
| 73·7 | 73·7 | 73·2 | 72·8 | 72·0 | 71·8 | 71·6 | 71·5 | 71·0 | 70·4 | 70·0 | 69·5 | — | 72·00 |
| 71·2 | 71·2 | 70·8 | 70·0 | 69·5 | 69·0 | 68·5 | 67·8 | 67·3 | 66·8 | 66·0 | 65·2 | — | 69·20 |
| 69·6 | 69·6 | 68·5 | 68·2 | 67·6 | 67·0 | 66·6 | 65·5 | 65·0 | 64·5 | 64·0 | 63·3 | — | 66·68 |
| 68·4 | 68·2 | 67·6 | 67·2 | 66·8 | 66·4 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 67·0 | 66·8 | 66·4 | 66·0 | 65·6 | 65·0 | — | 65·87 |
| 70·6 | 70·4 | 70·2 | 70·0 | 69·6 | 69·5 | 69·1 | 69·0 | 68·9 | 68·5 | 68·5 | 68·5 | — | 68·78 |
| 73·6 | 74·4 | 73·8 | 73·0 | 72·3 | 72·0 | 71·7 | 71·4 | 71·0 | 70·5 | 70·3 | 69·8 | — | 70·95 |
| 69·8 | 69·5 | 69·3 | 69·0 | 69·0 | 68·6 | 68·4 | 68·3 | 68·1 | 68·0 | 67·6 | 68·0 | — | 69·10 |
| 66·0 | 66·0 | 66·0 | 66·0 | 66·0 | 66·0 | 66·0 | 66·0 | 65·8 | 65·6 | 65·5 | 65·3 | — | 66·15 |
| 68·4 | 68·4 | 67·8 | 67·0 | 66·5 ^d | 66·0 ^c | 65·8 | 65·0 | 64·5 | 64·0 | 63·5 | 63·0 | — | 66·10 |
| 67·8 | 68·0 | 67·8 | 67·8 | 67·0 | 66·6 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 67·1 | 67·0 | 67·0 | 67·0 | 67·0 | 66·6 | — | 66·28 |
| 67·79 | 67·64 | 67·33 | 66·89 | 66·22 | 65·80 | 65·31 | 64·87 | 64·45 | 64·04 | 63·67 | 63·27 | — | 65·36 |

^d Two minutes late.

^c Four minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|------------------|--------------------|-------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah° = '000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| JULY. | 1 | 512·0 | 508·0 | 505·0 | 498·7 | 490·9 | 489·4 | 491·2 | 495·2 | 504·7 | 509·3 | 509·8 | 503·7 |
| | 2 | 506·3 | 507·8 | 499·3 | 498·0 | 490·3 | 492·6 | 489·1 | 491·2 | 495·4 | 496·4 | 503·6 | 505·7 |
| | 3 | 507·8 | 509·7 | 505·5 | 501·9 | 493·9 | 497·0 | 495·2 | 497·8 | 506·1 | 511·9 | 516·9 | 511·9 |
| | 4 | 517·2 | 518·6 | 513·6 | 506·0 | 508·1 | 504·5 | 509·9 | 518·7 | 522·5 | 517·5 | 520·3 | 519·2 |
| | 5 | 519·5 | 515·5 | 508·0 | 497·5 | 500·0 | 508·0 | 516·5 | 517·1 | 521·5 | 522·3 | 524·6 | 524·2 |
| | 6 | 515·9 | 516·1 | 510·7 | 502·6 | 497·6 | 501·7 | 508·2 | 511·0 | 518·9 | 519·5 | 521·3 | 515·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 516·8 | 514·7 | 516·3 | 510·7 | 491·8 | 497·8 | 524·8 | 533·5 | 526·7 | 526·0 | 522·0 | 513·9 |
| | 9 | 504·6 | 511·2 | 508·3 | 499·3 | 497·3 | 498·5 | 505·1 | 512·5 | 521·1 | 514·3 | 509·0 | 501·0 |
| | 10 | 505·7 | 505·7 | 503·4 | 506·2 | 500·7 | 504·9 | 507·2 | 505·0 | 505·5 | 507·8 | 502·9 | 501·5 |
| | 11 | 505·0 | 512·8 | 511·5 | 505·5 | 499·3 | 500·1 | 502·4 | 500·9 | 504·7 | 512·9 | 513·8 | 508·6 |
| | 12 | 509·0 | 509·1 | 505·5 | 499·2 | 498·1 | 506·5 | 508·2 | 511·0 | 516·8 | 519·8 | 518·6 | 509·7 |
| | 13 | 510·7 | 508·8 | 507·4 | 500·6 | 503·6 | 504·0 | 501·7 | 506·0 | 500·5 | 508·3 | 517·8 | 510·6 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 511·2 | 509·9 | 505·2 | 501·3 | 491·0 | 486·2 | 497·9 | 496·7 | 510·0 | 507·6 | 509·0 | 517·0 |
| | 16 | 515·7 | 513·9 | 508·0 | 499·3 | 497·9 | 498·9 | 509·8 | 511·4 | 519·5 | 525·1 | 525·3 | 513·8 |
| | 17 | 515·2 | 515·4 | 509·5 | 502·8 | 497·4 | 494·0 ^a | 500·3 | 514·3 | 513·9 | 509·0 | 515·3 | 523·3 |
| | 18 | 515·2 | 518·3 | 507·4 | 497·0 | 492·3 | 501·8 | 507·6 | 508·5 | 510·7 | 509·0 | 504·8 | 507·3 |
| | 19 | 504·0 | 503·0 | 498·8 | 500·0 | 489·0 | 491·0 | 492·0 | 498·4 | 503·7 | 508·9 | 513·9 | 516·9 |
| | 20 | 517·3 | 515·0 | 511·9 ^b | 505·2 | 499·2 | 496·2 | 498·8 | 507·0 | 514·0 | 521·0 | 522·1 | 515·2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 511·0 | 507·9 | 501·5 | 497·7 | 495·2 | 500·5 | 510·6 | 512·8 | 513·6 | 511·2 | 510·8 | 508·0 |
| | 23 | 510·0 | 511·0 | 510·0 | 505·3 | 500·0 | 496·8 | 504·5 | 511·6 | 510·0 | 512·0 | 510·6 | 509·0 |
| | 24 | 516·7 | 515·0 | 510·9 | 507·4 | 500·9 | 505·0 | 508·7 | 514·5 | 515·7 | 512·8 | 511·8 | 509·2 |
| | 25 | 508·6 | 509·0 | 523·5 | 509·3 | 505·5 | 485·7 | 492·6 | 504·0 | 504·9 | 522·7 | 520·0 | 516·5 |
| | 26 | 516·5 | 516·2 | 509·2 | 506·5 | 492·2 | 502·0 | 509·5 | 515·3 | 519·9 | 524·9 | 516·7 | 522·7 |
| | 27 | 515·0 | 522·0 | 514·6 | 496·9 | 484·7 | 496·5 | 504·6 | 502·5 | 498·5 | 516·3 | 526·2 | 527·0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 518·0 | 515·8 | 509·3 | 495·2 | 491·4 | 492·0 | 496·0 | 497·7 | 505·8 | 508·8 | 508·6 | 508·4 |
| | 30 | 511·7 | 510·0 | 496·8 | 495·1 | 481·6 | 490·6 | 499·0 | 511·7 | 523·0 | 520·8 ^d | 522·7 | 516·3 |
| | 31 | 513·6 | 515·6 | 502·2 | 495·9 | 508·9 | 501·5 | 510·7 | 513·4 | 511·0 | 524·4 | 514·2 | 517·0 |
| Hourly Means | 512·23 | 512·44 | 507·90 | 501·52 | 496·25 | 497·91 | 503·78 | 508·14 | 511·80 | 514·83 | 515·28 | 513·06 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|-------|-------|-------|------|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| JULY. | 1 | 66·5 | 67·2 | 68·0 | 68·6 | 69·5 | 70·8 | 71·5 | 72·2 | 74·0 | 75·2 | 75·6 | 76·0 |
| | 2 | 67·6 | 67·8 | 68·4 | 68·8 | 69·4 | 70·0 | 71·0 | 71·5 | 72·0 | 72·2 | 72·6 | 73·0 |
| | 3 | 68·5 | 68·4 | 68·6 | 68·8 | 69·2 | 69·5 | 70·0 | 70·5 | 70·7 | 71·0 | 71·0 | 71·0 |
| | 4 | 64·0 | 64·0 | 64·2 | 64·8 | 64·9 | 65·5 | 65·5 | 65·5 | 65·5 | 66·0 | 66·5 | 67·0 |
| | 5 | 62·0 | 62·0 | 62·0 | 62·0 | 62·4 | 63·0 | 63·0 | 63·4 | 63·6 | 63·6 | 63·8 | 63·8 |
| | 6 | 63·2 | 64·0 | 65·2 | 65·8 | 66·6 | 67·8 | 69·0 | 70·0 | 71·0 | 71·5 | 72·0 | 72·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 63·7 | 63·7 | 63·7 | 64·3 | 64·8 | 65·2 | 65·8 | 66·4 | 67·0 | 68·0 | 69·0 | 69·4 |
| | 9 | 66·6 | 66·2 | 66·5 | 67·4 | 68·6 | 69·4 | 70·4 | 71·0 | 71·4 | 71·5 | 71·5 | 71·5 |
| | 10 | 69·7 | 70·5 | 71·3 | 71·6 | 72·3 | 73·0 | 73·4 | 73·4 | 74·0 | 74·0 | 74·3 | 74·4 |
| | 11 | 68·8 | 68·8 | 69·3 | 69·8 | 70·5 | 71·4 | 72·0 | 72·6 | 73·1 | 73·7 | 74·3 | 74·4 |
| | 12 | 68·6 | 68·8 | 69·0 | 69·2 | 69·8 | 70·4 | 70·8 | 71·5 | 72·4 | 73·0 | 74·0 | 74·2 |
| | 13 | 70·2 | 70·1 | 70·0 | 70·0 | 70·3 | 70·5 | 70·9 | 71·5 | 72·0 | 72·3 | 72·5 | 73·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 69·8 | 69·6 | 69·5 | 69·6 | 70·0 | 70·2 | 70·4 | 70·6 | 70·7 | 70·7 | 70·7 | 70·7 |
| | 16 | 67·3 | 67·0 | 66·8 | 66·8 | 67·0 | 67·5 | 67·9 | 68·5 | 68·7 | 69·0 | 69·4 | 69·6 |
| | 17 | 66·2 | 66·4 | 67·0 | 67·5 | 68·4 | 69·4 ^a | 69·8 | 70·4 | 70·8 | 71·4 | 71·7 | 72·0 |
| | 18 | 66·7 | 66·7 | 67·3 | 67·8 | 68·9 | 69·8 | 70·6 | 71·5 | 72·0 | 72·5 | 72·5 | 72·7 |
| | 19 | 70·5 | 70·0 | 70·0 | 70·0 | 70·3 | 70·6 | 71·0 | 71·2 | 71·5 | 72·0 | 72·5 | 73·0 |
| | 20 | 68·8 | 69·4 | 70·0 ^b | 70·4 | 70·4 | 70·8 | 71·4 | 71·6 | 72·0 | 72·0 | 72·5 | 72·6 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 69·5 | 69·5 | 69·9 | 70·6 | 71·5 | 73·0 | 73·4 | 74·6 | 74·8 | 75·0 | 75·6 | 75·8 |
| | 23 | 71·8 | 71·8 | 72·0 | 72·4 | 73·2 | 74·0 | 74·5 | 74·8 | 75·5 | 75·8 | 76·0 | 76·0 |
| | 24 | 71·0 | 70·7 | 70·5 | 70·8 | 71·0 | 71·3 | 71·6 | 72·0 | 72·2 | 72·5 | 72·8 | 72·7 |
| | 25 | 71·0 | 71·0 | 70·0 | 70·0 | 70·0 | 70·5 | 71·0 | 71·4 | 71·5 | 71·7 | 72·0 | 72·0 |
| | 26 | 67·3 | 67·2 | 67·4 | 67·8 | 68·0 | 68·5 | 68·8 | 69·5 | 69·7 | 70·0 | 70·5 | 70·7 |
| | 27 | 65·6 | 66·0 | 66·5 | 67·5 | 68·5 | 69·8 | 70·5 | 70·9 | 71·4 | 71·6 | 71·6 | 71·8 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 67·6 | 68·0 | 68·5 | 69·4 | 70·4 | 72·0 | 73·0 | 73·6 | 74·5 | 74·5 | 75·4 | 76·0 |
| | 30 | 71·6 | 71·5 | 71·5 | 71·5 | 71·6 | 71·8 | 71·9 | 72·0 | 72·3 | 72·5 | 72·5 | 72·3 |
| | 31 | 72·4 | 72·5 | 72·5 | 72·8 | 73·4 | 74·2 | 74·7 | 75·3 | 76·0 | 76·5 | 76·7 | 76·9 |
| Hourly Means | 68·02 | 68·10 | 68·36 | 68·74 | 69·29 | 70·00 | 70·51 | 71·01 | 71·49 | 71·84 | 72·20 | 72·39 | |

^a Seven minutes late.

^b Two minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F.

Change in the magnetic moment of the Bar for 1° Fall. = .000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 505.4 | 501.6 | 496.9 | 498.0 | 497.6 | 498.1 | 500.4 | 500.9 | 503.0 | 503.5 | 502.9 | 503.2 | 501.22 |
| 502.9 | 502.0 | 501.4 | 504.0 | 504.0 | 506.1 | 500.4 | 502.8 | 506.1 | 505.8 | 505.4 | 507.9 | 501.02 |
| 509.0 | 506.0 | 508.1 | 507.8 | 511.9 | 509.0 | 508.0 | 515.1 | 509.7 | 508.2 | 511.5 | 512.6 | 507.19 |
| 516.0 | 509.9 | 509.8 | 508.5 | 511.2 | 513.2 | 511.5 | 513.2 | 512.4 | 513.9 | 515.1 | 516.5 | 513.64 |
| 520.6 | 521.6 | 514.5 | 514.9 | 515.4 | 513.4 | 512.9 | 515.0 | 515.2 | 514.0 | 513.0 | 513.2 | 514.93 |
| 512.5 | 511.2 | 510.9 | 509.6 | 506.9 | 513.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 503.4 | 503.0 | 503.6 | 506.8 | 511.0 | 507.1 | 509.93 |
| 516.7 | 514.2 | 514.0 | 511.0 | 503.8 | 498.5 | 507.8 | 495.4 | 500.0 | 497.0 | 504.8 | 500.8 | 510.79 |
| 509.0 | 500.0 | 495.0 | 496.7 | 499.4 | 497.0 | 497.7 | 491.2 | 503.0 | 503.1 | 503.2 | 503.8 | 503.39 |
| 501.0 | 503.9 | 502.0 | 503.7 | 501.6 | 499.7 | 505.8 | 505.5 | 505.3 | 506.4 | 506.9 | 506.0 | 504.35 |
| 508.0 | 502.3 | 506.3 | 501.5 | 499.0 | 498.1 | 497.6 | 502.9 | 502.8 | 505.8 | 506.0 | 508.0 | 504.83 |
| 503.4 | 505.3 | 505.6 | 505.0 | 503.9 | 501.8 | 502.0 | 498.1 | 506.3 | 506.0 | 508.6 | 507.5 | 506.88 |
| 508.9 | 510.0 | 503.0 | 500.0 | 497.3 | 502.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 508.8 | 505.6 | 507.4 | 506.9 | 506.0 | 511.9 | 506.18 |
| 511.0 | 511.5 | 496.8 | 506.3 | 508.0 | 505.7 | 508.6 | 509.2 | 509.0 | 510.2 | 511.6 | 514.1 | 506.04 |
| 525.2 | 510.3 | 503.0 | 512.2 | 508.7 | 510.4 | 511.2 | 511.9 | 513.0 | 500.8 | 510.1 | 506.5 | 510.91 |
| 502.9 | 510.0 | 503.8 | 503.0 | 503.8 | 516.3 | 513.2 | 510.0 | 503.8 | 503.3 | 503.2 | 507.5 | 507.97 |
| 503.0 | 502.5 | 504.0 | 505.5 | 506.0 | 507.0 | 503.5 | 506.4 | 506.4 | 505.8 | 505.4 | 503.3 | 505.78 |
| 513.0 | 509.5 | 510.0 | 508.5 | 508.3 | 510.0 | 510.6 | 511.2 | 511.2 | 513.7 | 513.0 | 513.5 | 506.34 |
| 515.8 | 516.4 | 512.8 | 512.1 | 512.9 | 507.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 509.9 | 513.0 | 511.5 | 508.5 | 511.2 | 510.3 | 511.02 |
| 507.0 | 505.0 | 507.6 | 507.2 | 508.7 ^c | 509.9 | 506.8 | 508.2 | 508.4 | 509.0 | 508.8 | 509.0 | 507.35 |
| 506.8 | 507.9 | 507.2 | 504.9 | 504.9 | 506.1 | 507.2 | 509.3 | 510.0 | 512.5 | 515.2 | 515.3 | 508.25 |
| 510.8 | 512.1 | 522.9 | 523.1 | 525.0 | 522.9 | 518.9 | 522.2 | 491.6 | 513.5 | 501.1 | 510.2 | 512.62 |
| 510.1 | 504.7 | 505.5 | 509.5 | 508.0 | 512.2 | 506.6 | 507.2 | 494.8 | 517.9 | 515.5 | 514.7 | 508.71 |
| 512.8 | 508.6 | 512.3 | 514.6 | 513.0 | 516.9 | 518.8 | 514.9 | 511.6 | 509.3 | 510.5 | 519.0 | 513.08 |
| 511.1 | 506.5 | 512.6 | 503.3 | 503.4 | 518.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 513.6 | 512.3 | 511.0 | 511.1 | 510.6 | 515.0 | 509.76 |
| 510.0 | 508.0 | 507.3 | 509.2 | 506.8 | 507.0 | 508.5 | 510.1 | 513.6 | 512.0 | 510.5 | 511.0 | 506.71 |
| 510.3 | 509.5 | 508.0 | 503.1 | 506.1 | 510.0 | 513.8 | 512.1 | 510.9 | 508.6 | 506.9 | 508.8 | 507.81 |
| 516.0 | 507.9 | 505.0 | 509.9 | 502.8 | 503.0 | 502.8 | 501.2 | 503.8 | 502.4 | 507.9 | 509.8 | 508.37 |
| 510.34 | 508.09 | 506.90 | 507.15 | 506.61 | 507.95 | 507.79 | 507.70 | 506.87 | 508.00 | 508.74 | 509.87 | 507.96 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 76.0 | 76.5 | 75.5 | 73.0 | 72.5 | 71.5 | 71.0 | 70.0 | 69.2 | 68.5 | 68.0 | 67.4 | 71.43 |
| 72.5 | 72.5 | 72.0 | 71.6 | 71.2 | 71.0 | 70.5 | 70.0 | 69.6 | 69.2 | 69.2 | 68.5 | 70.50 |
| 70.7 | 70.0 | 69.3 | 68.6 | 68.1 | 67.4 | 66.8 | 66.0 | 65.8 | 65.0 | 64.5 | 63.8 | 68.47 |
| 67.2 | 67.0 | 66.8 | 66.5 | 66.0 | 65.4 | 64.8 | 64.4 | 64.0 | 63.3 | 63.0 | 62.5 | 65.18 |
| 63.6 | 63.4 | 63.4 | 63.4 | 63.4 | 63.3 | 63.2 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.05 |
| 72.0 | 71.5 | 70.6 | 70.0 | 69.5 | 68.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.0 | 66.0 | 65.5 | 65.0 | 64.5 | 63.8 | 67.97 |
| 69.8 | 70.0 | 69.5 | 69.2 | 68.7 | 68.4 | 68.0 | 67.8 | 67.6 | 67.2 | 66.6 | 66.2 | 67.08 |
| 71.5 | 71.5 | 71.0 | 71.1 | 70.6 | 70.5 | 70.2 | 70.0 | 70.0 | 69.6 | 69.4 | 69.0 | 69.85 |
| 74.4 | 73.4 | 72.8 | 72.4 | 72.0 | 71.8 | 71.2 | 70.6 | 70.2 | 69.7 | 69.4 | 69.0 | 72.03 |
| 75.0 | 75.0 | 74.8 | 74.0 | 73.5 | 73.0 | 72.5 | 71.5 | 71.0 | 70.5 | 69.6 | 69.0 | 72.00 |
| 74.4 | 74.1 | 73.8 | 73.2 | 72.6 | 72.5 | 72.0 | 71.4 | 71.2 | 71.0 | 70.6 | 70.9 | 71.64 |
| 73.0 | 73.0 | 72.7 | 72.5 | 72.3 | 72.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72.9 | 72.6 | 72.4 | 71.8 | 70.6 | 70.0 | 71.63 |
| 70.4 | 70.4 | 69.5 | 69.6 | 69.4 | 69.3 | 69.0 | 68.6 | 68.4 | 68.1 | 67.8 | 67.4 | 69.60 |
| 69.8 | 70.2 | 70.2 | 69.9 | 69.6 | 69.0 | 68.6 | 68.5 | 68.0 | 67.5 | 67.2 | 66.2 | 68.34 |
| 72.4 | 72.4 | 72.0 | 71.7 | 71.0 | 70.5 | 70.0 | 69.2 | 68.8 | 68.0 | 67.0 | 67.4 | 69.64 |
| 72.7 | 72.5 | 72.3 | 72.0 | 72.0 | 71.8 | 71.5 | 71.4 | 71.2 | 71.0 | 70.7 | 70.4 | 70.77 |
| 73.0 | 73.0 | 72.2 | 72.0 | 71.6 | 71.2 | 70.6 | 70.4 | 69.8 | 69.5 | 69.0 | 68.5 | 70.97 |
| 72.9 | 73.2 | 73.2 | 72.6 | 72.2 | 71.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71.5 | 71.0 | 70.8 | 70.5 | 69.8 | 69.3 | 71.27 |
| 75.8 | 75.6 | 75.7 | 75.1 | 75.0 ^c | 74.5 | 74.0 | 73.5 | 73.2 | 73.0 | 72.6 | 72.2 | 73.47 |
| 76.0 | 75.9 | 75.1 | 74.8 | 74.4 | 74.0 | 73.5 | 72.8 | 72.5 | 72.0 | 71.8 | 71.6 | 73.84 |
| 72.7 | 72.5 | 72.5 | 72.5 | 72.5 | 72.2 | 72.0 | 72.0 | 71.8 | 71.5 | 71.5 | 71.0 | 71.83 |
| 72.0 | 72.0 | 71.4 | 71.2 | 70.8 | 70.4 | 69.8 | 69.4 | 68.8 | 68.4 | 67.8 | 67.4 | 70.48 |
| 70.8 | 70.8 | 70.5 | 69.8 | 69.0 | 68.4 | 68.0 | 67.5 | 67.0 | 66.5 | 66.2 | 65.6 | 68.56 |
| 71.8 | 72.0 | 71.0 | 70.2 | 69.2 | 69.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70.0 | 69.5 | 69.0 | 68.5 | 68.5 | 67.8 | 69.51 |
| 76.0 | 76.0 | 75.2 | 75.0 | 74.6 | 74.0 | 73.7 | 73.2 | 72.6 | 72.2 | 72.0 | 71.8 | 72.88 |
| 72.3 | 72.4 | 72.4 | 72.4 | 72.2 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 71.8 | 72.0 | 72.02 |
| 76.9 | 76.9 | 76.7 | 76.0 | 75.8 | 76.0 | 74.8 | 74.0 | 72.6 | 72.3 | 72.5 | 72.2 | 74.61 |
| 72.43 | 72.36 | 71.93 | 71.49 | 71.10 | 70.72 | 70.30 | 69.86 | 69.48 | 69.07 | 68.69 | 68.29 | 70.32 |

^c Eight minutes late.

^d Four minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = ·000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = ·000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| AUGUST. | 1 | 514·3 | 511·9 | 511·1 | 507·0 | 509·8 | 471·6 | 491·1 | 513·2 | 532·5 | 515·5 | 528·0 | 511·5 |
| | 2 | 502·0 | 507·8 | 504·0 | 497·5 | 487·1 | 488·3 | 493·4 | 500·5 | 508·0 | 507·8 | 516·6 | 500·9 |
| | 3 | 509·2 | 511·7 | 504·3 | 507·9 | 498·4 | 497·8 | 501·4 | 499·5 | 506·7 | 516·4 | 506·5 | 508·7 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 517·9 | 511·8 | 513·0 | 503·1 | 505·3 | 502·5 | 509·8 | 514·5 | 514·3 | 512·3 | 513·5 | 514·6 |
| | 6 | 512·9 | 508·5 | 507·8 | 500·1 | 495·7 | 496·5 | 498·0 | 504·9 | 510·5 | 516·4 | 521·3 | 516·0 |
| | 7 | 517·2 | 516·3 | 510·6 | 503·3 | 499·0 | 501·1 | 503·9 | 509·0 | 513·5 | 515·8 | 518·0 | 516·6 |
| | 8 | 515·0 | 517·8 | 515·5 | 507·0 | 504·4 | 503·9 | 509·0 | 512·8 | 513·2 | 516·0 | 518·0 | 519·0 |
| | 9 | 514·1 | 509·0 | 518·5 | 501·3 | 486·7 | 515·0 | 521·8 | 526·0 | 528·8 | 529·1 | 530·5 | 524·9 |
| | 10 | 510·3 | 505·2 | 504·6 | 501·3 | 496·7 | 493·8 | 500·3 | 510·2 | 518·5 | 519·7 | 523·9 | 520·8 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 526·1 | 523·6 | 518·9 | 511·3 | 503·3 | 502·0 | 502·8 | 508·9 | 521·6 | 523·8 | 526·8 | 525·3 |
| | 13 | 524·4 | 521·8 | 514·4 | 506·8 | 504·1 | 508·0 ^a | 513·9 | 517·9 | 527·0 | 531·0 | 530·5 | 526·8 |
| | 14 | 525·0 | 521·8 | 512·4 | 504·5 | 501·6 | 505·4 | 509·6 | 515·9 | 523·1 | 530·0 | 531·8 | 528·6 |
| | 15 | 524·6 | 522·3 | 516·0 | 506·2 | 506·0 | 511·7 | 524·8 | 531·2 | 534·8 | 535·0 | 532·0 | 525·4 |
| | 16 | 521·6 | 521·6 | 514·0 | 503·6 | 499·7 | 499·5 | 508·0 ^b | 516·2 | 513·6 | 532·3 | 526·0 | 516·0 |
| | 17 | 518·3 | 516·0 | 507·3 | 499·7 | 496·9 | 500·5 | 511·3 | 508·8 | 516·0 | 516·2 | 516·0 | 516·3 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 522·0 | 519·8 | 515·0 | 505·2 | 506·6 | 509·0 | 511·6 | 514·0 | 517·5 | 518·0 | 518·0 | 521·6 |
| | 20 | 519·0 | 518·8 | 515·0 | 507·0 | 503·3 | 505·1 | 508·0 | 512·8 | 521·8 | 524·8 | 529·3 | 522·0 |
| | 21 | 523·2 | 525·0 | 522·0 | 512·1 | 507·9 | 512·0 | 518·3 | 524·6 | 528·0 | 538·7 | 531·0 | 533·0 |
| | 22 | 532·5 | 529·5 | 520·9 | 493·3 | 512·7 | 519·0 | 518·0 | 520·0 | 533·3 | 524·3 | 520·6 | 546·5 |
| | 23 | 518·4 | 514·6 | 514·1 | 482·5 | 499·5 | 499·2 | 511·1 | 520·6 | 521·0 | 532·2 | 522·0 | 522·9 |
| | 24 | 526·0 | 524·6 | 517·0 | 509·5 | 516·0 | 517·0 | 518·2 | 521·1 | 524·0 | 528·6 | 529·6 | 524·4 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 540·0 | 520·5 | 514·0 | 512·0 | 511·5 | 516·5 | 521·0 | 527·6 | 525·1 | 532·9 | 539·1 | 532·1 |
| | 27 | 528·4 | 527·6 | 520·0 | 511·9 | 511·0 | 516·7 | 524·7 | 527·8 | 532·0 | 532·8 | 530·0 | 531·3 |
| | 28 | 536·0 | 532·0 | 520·9 | 511·2 | 507·1 ^b | 508·3 ^a | 514·6 | 522·5 | 528·7 | 535·3 | 536·0 | 538·0 |
| | 29 | 533·0 | 529·1 | 519·1 | 507·4 ^c | 506·4 | 514·9 | 525·3 | 534·5 | 549·8 | 547·5 | 525·0 | 538·4 |
| | 30 | 528·0 | 506·3 | 518·8 | 519·0 | 508·0 | 512·2 | 518·2 | 528·0 | 544·1 | 534·2 | 536·8 | 521·8 |
| | 31 | 521·1 | 509·4 | 513·6 | 514·3 | 506·1 | 512·5 | 521·3 | 525·0 | 520·6 | 534·5 | 521·3 | 516·0 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 521·50 | 517·94 | 514·18 | 505·41 | 503·36 | 505·18 | 511·46 | 517·33 | 523·26 | 525·97 | 525·11 | 522·94 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------|-------|------|
| AUGUST. | 1 | 72·1 | 72·3 | 73·0 | 73·2 | 74·0 | 74·4 | 75·0 | 75·5 | 76·0 | 76·7 | 77·1 | 77·5 |
| | 2 | 71·6 | 72·0 | 72·4 | 72·8 | 73·5 | 74·0 | 74·5 | 74·8 | 75·2 | 75·4 | 75·6 | 76·0 |
| | 3 | 68·9 | 68·6 | 68·7 | 69·0 | 69·3 | 69·8 | 70·2 | 71·0 | 71·5 | 71·9 | 71·9 | 72·0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 65·2 | 65·6 | 66·0 | 66·6 | 67·2 | 68·0 | 68·6 | 69·4 | 69·6 | 69·9 | 70·2 | 70·5 |
| | 6 | 67·9 | 68·0 | 67·6 | 68·2 | 68·6 | 69·4 | 69·4 | 70·0 | 70·4 | 71·0 | 71·4 | 71·4 |
| | 7 | 66·0 | 66·1 | 66·6 | 67·4 | 67·8 | 68·9 | 69·4 | 70·0 | 70·5 | 70·8 | 71·0 | 71·2 |
| | 8 | 68·8 | 68·8 | 68·5 | 68·5 | 69·0 | 69·6 | 70·5 | 70·8 | 71·3 | 71·8 | 72·2 | 72·8 |
| | 9 | 71·0 | 70·8 | 70·8 | 71·0 | 71·4 | 72·8 | 73·4 | 73·8 | 73·8 | 74·0 | 74·0 | 74·0 |
| | 10 | 70·3 | 70·2 | 70·0 | 70·4 | 70·2 | 70·3 | 70·3 | 70·5 | 71·2 | 71·4 | 71·8 | 72·0 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 63·0 | 62·5 | 63·0 | 63·9 | 64·6 | 64·8 | 65·8 | 66·5 | 66·8 | 67·2 | 67·4 | 67·4 |
| | 13 | 63·5 | 63·3 | 63·3 | 63·8 | 64·7 | 65·5 ^a | 66·4 | 67·0 | 67·7 | 68·2 | 68·5 | 68·6 |
| | 14 | 65·6 | 65·6 | 65·6 | 65·5 | 65·6 | 66·0 | 66·5 | 66·7 | 67·4 | 68·2 | 68·8 | 69·0 |
| | 15 | 66·3 | 66·4 | 67·0 | 67·4 | 68·3 | 69·0 | 70·0 | 71·0 | 71·5 | 72·4 | 72·5 | 72·8 |
| | 16 | 68·6 | 68·5 | 68·7 | 69·0 | 69·8 | 71·0 | 71·5 ^b | 72·1 | 72·9 | 73·5 | 73·8 | 74·0 |
| | 17 | 71·0 | 70·8 | 71·0 | 71·5 | 72·0 | 72·6 | 73·0 | 73·5 | 73·5 | 74·0 | 74·5 | 74·6 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 69·6 | 69·5 | 69·6 | 69·8 | 70·5 | 71·0 | 72·0 | 72·5 | 72·5 | 73·6 | 74·0 | 74·4 |
| | 20 | 71·5 | 71·0 | 71·0 | 71·0 | 71·0 | 71·0 | 71·0 | 71·2 | 71·2 | 71·3 | 71·5 | 71·5 |
| | 21 | 65·7 | 66·0 | 66·7 | 67·2 | 68·0 | 68·4 | 68·6 | 69·0 | 69·0 | 69·0 | 68·7 | 68·5 |
| | 22 | 66·0 | 65·6 | 65·4 | 65·4 | 65·4 | 65·4 | 65·6 | 65·6 | 66·0 | 66·6 | 68·0 | 68·5 |
| | 23 | 68·1 | 68·3 | 68·5 | 68·7 | 68·7 | 68·9 | 69·3 | 70·0 | 70·0 | 70·0 | 70·4 | 70·6 |
| | 24 | 65·0 | 65·5 | 65·5 | 66·0 | 66·8 | 67·0 | 67·4 | 68·0 | 68·3 | 68·3 | 68·3 | 68·2 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 62·6 | 62·2 | 62·6 | 63·5 | 64·4 | 64·6 | 65·0 | 65·5 | 65·9 | 66·3 | 66·0 | 66·2 |
| | 27 | 63·4 | 63·0 | 63·0 | 63·5 | 64·0 | 64·0 | 64·2 | 64·4 | 64·8 | 65·0 | 65·4 | 65·5 |
| | 28 | 62·5 | 62·2 | 62·4 | 62·4 | 63·0 ^b | 63·5 ^a | 64·0 | 64·4 | 64·5 | 64·5 | 65·0 | 65·0 |
| | 29 | 62·0 | 62·0 | 62·0 | 62·6 ^c | 63·0 | 64·0 | 64·3 | 65·0 | 65·4 | 65·9 | 66·1 | 66·6 |
| | 30 | 63·0 | 62·2 | 62·0 | 62·4 | 62·8 | 63·4 | 64·0 | 64·8 | 65·4 | 65·6 | 65·8 | 66·2 |
| | 31 | 66·5 | 66·0 | 66·2 | 66·8 | 67·2 | 67·6 | 68·2 | 68·6 | 69·0 | 69·4 | 69·8 | 70·2 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 66·88 | 66·78 | 66·93 | 67·31 | 67·81 | 68·33 | 68·82 | 69·32 | 69·68 | 70·07 | 70·36 | 70·56 | |

^a Three minutes late.

^b Two minutes late.

^c Four minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Faht. = .000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 485.6 | Sc. Div. 481.1 | Sc. Div. 484.1 | Sc. Div. 492.6 | Sc. Div. 490.4 | Sc. Div. 484.8 | Sc. Div. 492.5 | Sc. Div. 474.5 | Sc. Div. 475.5 | Sc. Div. 494.1 | Sc. Div. 495.5 | Sc. Div. 497.0 | Sc. Div. 498.55 |
| 506.4 | 491.6 | 496.7 | 495.4 | 503.4 | 493.9 | 502.7 | 499.5 | 509.5 | 506.1 | 506.5 | 510.6 | 501.51 |
| 513.4 | 502.5 | 500.8 | 503.1 | 516.0 | 495.7 | — | — | — | — | — | — | 506.23 |
| — | — | — | — | — | — | 505.4 | 499.5 | 506.5 | 511.7 | 512.3 | 514.2 | 512.25 |
| 518.3 | 508.4 | 515.0 | 516.0 | 515.2 | 515.0 | 513.8 | 513.0 | 514.6 | 511.9 | 510.4 | 509.9 | 512.25 |
| 512.0 | 512.5 | 510.8 | 511.4 | 511.0 | 510.0 | 508.9 | 510.4 | 512.0 | 513.9 | 513.8 | 514.4 | 509.57 |
| 514.7 | 514.2 | 513.4 | 513.0 | 513.8 | 511.7 | 514.0 | 515.1 | 514.7 | 512.6 | 511.1 | 513.4 | 511.92 |
| 511.4 | 514.0 | 514.7 | 513.2 | 512.4 | 513.0 | 508.5 | 511.5 | 515.2 | 516.2 | 518.5 | 511.2 | 512.98 |
| 503.8 | 505.0 | 498.2 | 498.0 | 495.8 | 516.1 | 503.5 | 506.8 | 507.0 | 484.9 | 504.9 | 512.0 | 510.07 |
| 512.9 | 510.9 | 511.0 | 520.5 | 508.5 | 515.0 | — | — | — | — | — | — | 512.68 |
| — | — | — | — | — | — | 517.0 | 518.1 | 520.8 | 517.8 | 519.8 | 526.6 | 517.83 |
| 523.5 | 523.9 | 523.0 | 508.6 | 514.6 | 518.5 | 520.6 | 523.0 | 514.8 | 517.9 | 522.0 | 523.2 | 517.83 |
| 524.3 | 521.6 | 522.0 | 522.2 | 523.2 | 523.0 | 523.0 | 524.6 | 523.4 | 523.1 | 523.0 | 525.0 | 521.04 |
| 522.3 | 520.0 | 522.0 | 522.8 | 524.9 | 526.0 | 524.4 | 523.2 | 522.0 | 526.0 | 524.5 | 524.6 | 520.52 |
| 518.6 | 519.3 | 520.0 | 519.0 | 518.0 | 520.4 | 520.8 | 519.6 | 519.3 | 522.4 | 521.2 | 523.0 | 521.32 |
| 515.0 | 513.0 | 508.1 | 515.4 | 516.1 | 522.3 | 518.0 | 518.8 | 519.5 | 519.0 | 517.5 | 519.0 | 515.58 |
| 514.6 | 510.9 | 517.6 | 521.3 | 521.7 | 521.6 | — | — | — | — | — | — | 514.86 |
| — | — | — | — | — | — | 521.9 | 522.0 | 523.0 | 521.6 | 517.4 | 519.8 | 516.42 |
| 516.4 | 518.0 | 518.2 | 516.7 | 519.0 | 518.5 | 521.0 | 519.0 | 516.1 | 517.9 | 516.9 | 518.0 | 519.91 |
| 524.0 | 523.6 | 520.0 | 520.8 | 522.8 | 524.8 | 523.1 | 525.8 | 526.1 | 527.0 | 528.0 | 525.0 | 519.47 |
| 533.2 | 536.0 | 534.5 | 526.4 | 518.8 | 520.3 | 523.9 | 517.8 | 530.1 | 534.5 | 529.3 | 530.7 | 518.89 |
| 515.0 | 508.8 | 510.1 | 518.9 | 518.0 | 521.8 | 521.5 | 520.8 | 524.2 | 509.1 | 515.3 | 499.3 | 513.89 |
| 519.0 | 523.6 | 503.4 | 522.8 | 496.1 | 502.8 | 514.6 | 516.5 | 522.0 ^a | 516.9 | 518.5 | 519.0 | 521.85 |
| 525.0 | 518.5 | 507.4 | 523.6 | 525.5 | 525.3 | — | — | — | — | — | — | 526.28 |
| — | — | — | — | — | — | 515.2 | 517.4 | 526.3 | 528.8 | 525.4 | 530.0 | 527.12 |
| 522.8 | 525.0 | 526.3 | 529.4 | 530.0 | 529.0 | 530.6 | 532.0 | 526.0 | 528.0 | 529.0 | 530.4 | 528.60 |
| 530.1 | 529.7 | 531.0 | 529.2 | 536.0 | 529.7 | 530.0 | 530.4 | 521.6 | 525.4 | 530.6 | 533.0 | 522.58 |
| 533.0 | 533.0 | 533.5 | 533.8 | 532.6 | 532.8 | 532.9 | 536.0 | 533.0 | 532.8 | 531.2 | 531.2 | 521.69 |
| 514.4 | 519.6 | 508.8 | 502.9 | 525.6 | 519.7 | 522.2 | 511.9 | 509.7 | 515.9 | 530.8 | 530.0 | 518.13 |
| 520.9 | 508.8 | 518.3 | 524.2 | 524.9 | 521.8 | 530.3 | 521.0 | 515.6 | 524.6 | 514.8 | 519.9 | — |
| 520.3 | 520.6 ^d | 521.1 | 511.1 ^a | 512.0 | 511.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 520.9 | 522.3 | 518.1 | 517.0 | 520.0 | 525.0 | — |
| 517.44 | 515.34 | 514.44 | 516.01 | 516.53 | 516.46 | 517.82 | 516.69 | 517.28 | 517.67 | 518.82 | 519.83 | 516.58 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| 77.6 | 77.6 | 77.4 | 77.2 | 76.4 | 75.8 | 75.3 | 74.1 | 73.8 | 73.0 | 72.6 | 71.9 | 74.98 |
| 76.4 | 76.0 | 75.4 | 74.6 | 74.0 | 73.1 | 72.5 | 71.5 | 71.2 | 70.8 | 70.3 | 69.5 | 73.46 |
| 72.0 | 71.8 | 71.5 | 71.2 | 71.0 | 70.8 | — | — | — | — | — | — | 69.65 |
| — | — | — | — | — | — | 68.0 | 67.5 | 67.0 | 66.4 | 66.0 | 65.5 | 68.54 |
| 70.5 | 70.2 | 70.0 | 69.5 | 69.2 | 69.0 | 68.6 | 68.2 | 68.3 | 68.4 | 68.3 | 68.0 | 69.26 |
| 71.4 | 71.4 | 70.6 | 70.2 | 70.0 | 69.4 | 69.0 | 68.5 | 67.8 | 67.4 | 66.9 | 66.4 | 69.51 |
| 71.5 | 71.3 | 71.2 | 70.8 | 70.5 | 70.0 | 70.0 | 70.0 | 69.5 | 69.4 | 69.3 | 69.0 | 71.19 |
| 73.0 | 72.4 | 72.8 | 73.0 | 72.8 | 72.4 | 72.0 | 71.8 | 71.5 | 71.5 | 71.5 | 71.2 | 72.57 |
| 73.8 | 74.0 | 74.0 | 73.4 | 73.2 | 73.0 | 72.5 | 72.1 | 71.8 | 71.5 | 71.0 | 70.5 | 69.32 |
| 72.0 | 71.7 | 71.0 | 70.7 | 70.4 | 70.0 | — | — | — | — | — | — | 65.52 |
| — | — | — | — | — | — | 66.0 | 65.4 | 65.2 | 65.0 | 64.2 | 63.4 | 66.53 |
| 67.4 | 67.4 | 67.4 | 67.0 | 66.5 | 66.2 | 66.0 | 65.0 | 64.8 | 64.5 | 64.0 | 63.5 | 67.44 |
| 68.6 | 68.6 | 68.5 | 68.0 | 67.5 | 67.2 | 67.0 | 66.6 | 66.4 | 66.1 | 66.0 | 65.8 | 70.15 |
| 69.5 | 69.0 | 69.4 | 69.0 | 68.8 | 68.5 | 68.2 | 67.8 | 67.2 | 67.2 | 66.8 | 66.6 | 71.93 |
| 72.8 | 72.5 | 72.0 | 71.7 | 71.3 | 71.0 | 70.5 | 70.2 | 69.8 | 69.6 | 69.0 | 68.5 | 69.32 |
| 73.6 | 73.5 | 73.5 | 73.5 | 73.2 | 73.0 | 72.6 | 72.0 | 72.4 | 72.1 | 72.0 | 71.5 | 65.2 |
| 74.4 | 74.0 | 73.6 | 72.8 | 72.0 | 71.2 | — | — | — | — | — | — | 66.53 |
| — | — | — | — | — | — | 70.0 | 70.0 | 70.0 | 69.6 | 69.5 | 69.7 | 67.44 |
| 74.5 | 74.6 | 74.6 | 74.5 | 74.2 | 73.7 | 73.0 | 72.5 | 72.4 | 72.0 | 71.7 | 71.5 | 72.42 |
| 71.7 | 71.2 | 70.8 | 70.0 | 69.5 | 69.0 | 68.3 | 67.5 | 67.3 | 67.0 | 66.5 | 66.0 | 69.96 |
| 69.0 | 68.8 | 68.5 | 68.4 | 67.8 | 67.3 | 66.8 | 66.6 | 66.2 | 65.8 | 65.8 | 65.5 | 67.55 |
| 68.8 | 69.0 | 69.2 | 69.2 | 69.2 | 69.2 | 69.2 | 69.0 | 68.9 | 68.6 | 68.5 | 68.3 | 67.52 |
| 70.8 | 70.5 | 69.8 | 69.4 | 68.4 | 68.0 | 67.3 | 67.0 | 66.6 ^c | 66.3 | 66.0 | 65.5 | 68.63 |
| 68.0 | 67.7 | 67.2 | 67.0 | 66.6 | 66.0 | — | — | — | — | — | — | 66.19 |
| — | — | — | — | — | — | 64.5 | 64.2 | 63.9 | 63.5 | 63.0 | 62.6 | 64.65 |
| 66.2 | 66.0 | 66.0 | 65.4 | 65.0 | 64.8 | 64.5 | 64.2 | 64.0 | 63.6 | 63.6 | 63.5 | 64.22 |
| 65.9 | 65.8 | 65.5 | 65.2 | 64.8 | 64.4 | 64.0 | 63.8 | 63.5 | 63.0 | 62.7 | 62.5 | 63.68 |
| 65.0 | 65.0 | 65.0 | 64.6 | 64.2 | 64.0 | 63.6 | 63.2 | 63.0 | 62.7 | 62.5 | 62.1 | 64.65 |
| 66.9 | 67.3 | 67.0 | 66.7 | 66.0 | 65.5 | 65.0 | 64.5 | 64.0 | 63.5 | 63.2 | 63.0 | 65.22 |
| 66.4 | 66.4 | 66.6 | 66.7 | 66.6 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.5 | — |
| 70.4 | 70.2 ^d | 70.0 | 69.4 | 69.0 | 68.6 | — | — | — | — | — | — | 68.68 |
| — | — | — | — | — | — | 69.2 | 69.2 | 69.2 | 69.2 | 69.2 | 69.2 | — |
| 70.67 | 70.51 | 70.31 | 69.97 | 69.56 | 69.17 | 68.52 | 68.10 | 67.86 | 67.56 | 67.28 | 66.93 | 68.72 |

^a Nine minutes late.

^c Ten minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| One Scale Division = $\cdot 000087$ parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah $^{\circ}$ = $\cdot 000234$. | | | | | | | | | | | | |
| Mean Göttingen Time. } SEPT. 2 | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 3 | 521.6 | 518.1 | 514.8 | 512.8 | 504.2 | 503.0 | 516.4 | 518.9 | 523.8 | 527.4 | 527.0 | 528.0 |
| 4 | 526.8 | 526.0 | 518.7 | 514.6 | 511.1 | 513.0 | 518.0 | 521.6 | 528.6 | 534.1 | 534.6 | 532.0 |
| 5 | 530.3 | 531.0 | 521.3 | 511.6 | 510.3 | 511.0 | 522.9 | 523.3 | 524.4 | 537.9 | 524.9 | 525.8 |
| 6 | 530.0 | 525.5 | 521.3 | 516.4 | 512.8 | 515.0 | 518.3 | 527.0 | 532.2 | 533.0 | 535.9 | 532.0 |
| 7 | 533.7 | 531.4 | 525.9 | 519.0 | 515.5 | 516.8 | 519.0 | 525.3 | 528.2 | 531.1 | 534.0 | 531.8 |
| 8 | 534.9 | 532.3 | 523.1 | 518.1 | 514.8 | 518.0 | 522.9 | 535.8 | 538.4 | 542.4 | 538.4 | 539.8 |
| 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| 10 | 526.9 | 522.2 | 513.1 | 506.8 | 510.0 | 510.6 | 519.9 | 522.1 | 536.0 | 533.1 | 542.6 | 527.0 |
| 11 | 531.8 | 525.5 | 517.8 | 509.9 | 511.6 | 518.2 | 527.1 | 533.0 | 539.8 | 536.8 | 536.9 | 530.2 |
| 12 | 529.0 | 523.0 | 515.3 | 509.0 | 508.5 | 515.0 | 521.5 | 529.7 | 536.1 | 538.5 | 529.8 | 530.3 |
| 13 | 532.8 | 525.4 | 517.5 | 512.4 | 510.1 | 513.7 | 518.6 | 527.3 | 530.7 | 533.1 | 527.8 | 528.5 |
| 14 | 530.1 | 526.8 | 519.1 | 511.8 | 511.3 | 512.5 | 517.5 | 524.9 | 532.1 | 535.0 | 537.7 | 535.5 |
| 15 | 533.9 | 532.0 | 525.8 | 520.5 | 504.3 | 504.9 | 513.5 | 515.5 | 525.3 | 534.0 | 533.5 | 531.8 |
| 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| 17 | 528.2 | 524.7 | 517.6 | 509.9 | 508.4 | 510.3 | 515.0 | 519.7 | 525.2 | 527.3 | 531.0 | 528.6 |
| 18 | 527.4 | 525.0 | 521.0 | 515.0 | 509.5 | 507.0 | 512.0 | 516.8 | 521.0 | 526.1 | 524.8 | 522.6 |
| 19 | 525.0 | 520.2 | 517.5 | 512.4 | 506.8 | 506.1 | 507.5 | 513.8 | 522.1 | 524.9 | 524.8 | 529.3 |
| 20 | 525.7 | 528.8 | 523.2 | 520.3 | 518.3 | 520.5 | 524.4 | 530.3 | 535.3 | 522.8 | 530.0 | 533.0 |
| 21 | 532.3 | 526.0 | 519.1 | 510.9 | 504.4 | 504.1 | 518.5 | 520.5 | 512.7 | 511.3 | 514.0 | 516.2 |
| 22 | 517.8 | 518.0 | 519.0 | 516.5 | 509.0 | 501.8 | 502.5 | 515.5 | 523.3 | 524.0 | 526.0 | 526.4 |
| 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| 24 | 542.0 | 538.5 | 542.8 | 535.5 | 530.0 | 536.5 | 539.5 | 542.6 | 547.0 | 549.7 | 550.1 | 546.9 |
| 25 | 550.2 | 547.5 | 539.1 | 528.6 | 537.3 | 544.8 | 542.0 | 551.8 | 552.5 | 554.3 | 554.0 | 551.0 |
| 26 | 554.9 | 554.6 | 542.6 | 544.7 | 542.9 | 534.9 | 540.2 | 549.4 | 558.4 | 550.5 | 550.0 | 550.0 |
| 27 | 549.8 | 562.1 | 552.5 | 541.0 | 517.4 | 521.5 | 534.5 | 554.8 | 525.5 | 548.0 | 544.5 | 545.8 |
| 28 | 555.5 | 555.5 | 549.0 | 538.8 | 525.5 | 539.9 | 546.5 | 545.1 | 550.8 | 550.0 | 550.5 | 552.6 |
| 29 | 557.6 | 554.0 | 553.7 | 547.5 | 550.6 | 547.5 | 544.4 | 557.9 | 563.1 | 561.0 | 557.9 | 556.4 |
| 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| 30 | 559.0 | 550.5 | 532.1 | 524.4 | 528.8 | 521.8 | 538.4 | 554.7 | 552.8 | 540.0 | 550.8 | 546.8 |
| Hourly Means | 535.49 | 532.99 | 526.52 | 520.34 | 516.54 | 517.94 | 524.04 | 531.09 | 534.61 | 536.25 | 536.46 | 535.13 |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SEPT. 2 | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| 3 | 68.5 | 68.6 | 68.7 | 68.8 | 69.0 | 69.2 | 70.0 | 70.0 | 70.4 | 71.0 | 72.0 | 72.5 |
| 4 | 67.0 | 67.0 | 67.4 | 67.6 | 68.5 | 69.0 | 69.4 | 69.5 | 70.0 | 70.4 | 71.3 | 72.0 |
| 5 | 66.0 | 66.5 | 67.0 | 67.7 | 68.2 | 68.7 | 69.0 | 69.5 | 70.0 | 70.3 | 70.7 | 70.9 |
| 6 | 64.4 | 64.2 | 64.4 | 65.5 | 66.0 | 67.0 | 67.4 | 67.4 | 67.8 | 68.2 | 68.5 | 68.6 |
| 7 | 64.0 | 64.2 | 65.0 | 65.6 | 66.8 | 67.5 | 68.3 | 69.0 | 69.3 | 70.0 | 70.5 | 70.5 |
| 8 | 65.6 | 66.0 | 66.5 | 67.5 | 68.3 | 68.8 | 69.4 | 69.8 | 70.0 | 70.5 | 71.0 | 71.0 |
| 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| 10 | 68.2 | 68.0 | 68.0 | 67.8 | 67.6 | 67.8 | 68.0 | 68.4 | 68.5 | 69.2 | 69.1 | 69.5 |
| 11 | 66.8 | 66.7 | 66.6 | 66.7 | 66.7 | 67.0 | 67.5 | 68.5 | 69.0 | 69.5 | 70.0 | 70.5 |
| 12 | 68.0 | 67.7 | 67.7 | 67.7 | 67.9 | 68.0 | 68.5 | 68.8 | 69.4 | 69.8 | 70.0 | 70.2 |
| 13 | 67.0 | 66.7 | 66.6 | 66.7 | 67.3 | 67.9 | 68.4 | 69.0 | 69.6 | 69.9 | 70.8 | 71.2 |
| 14 | 66.5 | 66.0 | 66.5 | 67.0 | 67.7 | 68.4 | 68.8 | 69.5 | 69.7 | 70.2 | 70.5 | 71.0 |
| 15 | 65.3 | 65.5 | 66.0 | 66.5 | 67.4 | 68.4 | 69.0 | 70.0 | 70.5 | 71.2 | 72.0 | 72.6 |
| 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| 17 | 69.1 | 69.0 | 69.5 | 70.0 | 71.5 | 72.0 | 72.6 | 73.0 | 73.4 | 74.0 | 75.5 | 76.0 |
| 18 | 69.0 | 69.0 | 69.5 | 70.0 | 70.8 | 71.8 | 72.5 | 73.3 | 74.2 | 75.2 | 76.0 | 76.2 |
| 19 | 69.6 | 69.8 | 70.2 | 70.4 | 71.0 | 71.3 | 71.5 | 71.6 | 71.8 | 72.0 | 72.4 | 72.8 |
| 20 | 67.5 | 67.3 | 67.6 | 68.0 | 68.5 | 69.0 | 69.5 | 70.2 | 71.0 | 71.8 | 72.8 | 73.0 |
| 21 | 69.5 | 69.5 | 70.0 | 70.5 | 71.3 | 72.0 | 72.8 | 73.5 | 74.2 | 75.0 | 75.2 | 75.4 |
| 22 | 71.5 | 71.5 | 71.8 | 72.5 | 73.0 | 73.0 | 72.5 | 71.8 | 71.2 | 70.5 | 69.8 | 69.5 |
| 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| 24 | 57.0 | 56.7 | 57.0 | 58.0 | 58.5 | 58.9 | 59.4 | 59.5 | 59.6 | 59.6 | 59.6 | 59.7 |
| 25 | 56.2 | 56.0 | 56.0 | 56.0 | 55.8 | 56.0 | 56.5 | 56.6 | 57.0 | 57.4 | 58.0 | 58.3 |
| 26 | 54.7 | 54.5 | 54.4 | 54.4 | 54.4 | 54.7 | 55.0 | 55.4 | 55.5 | 55.6 | 55.6 | 55.6 |
| 27 | 52.8 | 52.7 | 52.8 | 53.2 | 54.0 | 54.5 | 55.0 | 55.5 | 56.0 | 56.0 | 56.0 | 56.4 |
| 28 | 51.0 | 51.0 | 51.5 | 52.4 | 52.8 | 53.0 | 53.4 | 53.6 | 54.0 | 54.5 | 55.5 | 56.0 |
| 29 | 50.0 | 49.7 | 49.5 | 49.6 | 50.3 | 50.9 | 51.2 | 51.5 | 52.1 | 53.0 | 53.0 | 58.3 |
| 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| 30 | 51.3 | 51.2 | 51.5 | 51.8 | 52.8 | 53.7 | 54.9 | 55.8 | 56.7 | 57.4 | 58.2 | 58.0 |
| Hourly Means | 63.46 | 63.40 | 63.67 | 64.08 | 64.64 | 65.14 | 65.62 | 66.03 | 66.44 | 66.89 | 67.36 | 67.62 |

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 521.4 | Sc. Div. 518.0 | Sc. Div. 511.1 | Sc. Div. 515.8 | Sc. Div. 525.1 | Sc. Div. 519.7 | Sc. Div. 523.0 | Sc. Div. 521.8 | Sc. Div. 524.9 | Sc. Div. 526.5 | Sc. Div. 520.4 | Sc. Div. 524.5 | Sc. Div. 519.51 |
| 529.0 | 526.5 | 525.0 | 527.0 | 526.6 | 522.1 | 521.7 | 525.8 | 525.5 | 526.0 | 522.0 | 525.3 | 524.23 |
| 528.8 | 525.9 | 525.9 | 524.0 | 515.6 | 517.7 | 521.9 | 526.0 | 524.7 | 519.8 | 527.4 | 529.5 | 523.41 |
| 529.7 | 527.0 | 526.7 | 526.8 | 526.4 | 528.5 | 529.2 | 529.5 | 530.0 | 530.0 | 531.0 | 532.8 | 526.96 |
| 530.0 | 531.1 | 531.0 | 531.0 | 531.0 | 526.5 | 522.0 | 528.8 | 524.5 | 529.0 | 529.6 | 530.6 | 527.37 |
| 527.5 | 526.0 | 526.8 | 529.0 | 531.0 | 531.4 | — | — | — | — | — | — | 528.47 |
| — | — | — | — | — | — | 522.6 | 532.1 | 521.8 | 522.0 | 525.8 | 528.4 | — |
| 527.0 | 520.5 | 517.0 | 520.5 | 522.4 | 527.4 | 527.0 | 527.7 | 528.8 | 529.3 | 529.0 | 532.8 | 524.15 |
| 528.0 | 530.8 | 521.0 | 528.0 | 529.7 | 529.9 | 529.2 | 530.2 | 530.6 | 530.6 | 530.5 | 530.0 | 527.80 |
| 529.0 | 530.7 | 530.9 | 531.6 | 533.2 | 531.8 | 532.5 | 533.0 | 535.0 | 533.0 | 533.5 | 535.0 | 528.12 |
| 527.0 | 529.8 | 531.0 | 532.5 | 530.5 | 531.0 | 533.4 | 534.9 | 535.4 | 533.0 | 534.5 | 535.4 | 527.76 |
| 538.0 | 540.0 | 537.0 | 530.2 | 530.2 | 528.7 | 531.8 | 529.0 | 536.5 | 537.8 | 537.0 | 533.9 | 529.35 |
| 528.5 | 529.1 | 528.6 | 479.4 | 511.4 | 523.7 | 521.4 | 527.9 | 529.0 | 525.0 | 522.8 | 527.9 | 522.07 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 524.9 | 500.7 | 504.3 | 507.1 | 518.5 | 513.1 | 522.9 | 521.5 | 526.0 | 527.0 | 526.4 | 526.0 | 519.35 |
| 523.0 | 525.3 | 521.2 | 518.2 | 506.7 | 513.3 | 517.0 | 517.4 | 518.0 | 522.0 | 522.0 | 523.4 | 518.99 |
| 528.4 | 526.5 | 520.0 | 520.0 | 524.0 | 533.0 | 529.5 | 528.0 | 528.1 | 529.9 | 531.6 | 531.0 | 522.52 |
| 530.5 | 524.0 | 511.4 | 514.7 | 504.3 | 510.4 | 500.5 | 513.8 | 513.2 | 505.6 | 517.8 | 515.5 | 519.76 |
| 513.6 | 517.6 | 514.8 | 526.6 | 524.8 | 515.3 | 522.6 | 511.5 | 517.8 | 521.3 | 521.5 | 513.5 | 517.12 |
| 527.0 | 531.3 | 533.4 | 526.5 | 531.6 | 533.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 542.2 | 536.7 | 533.5 | 543.2 | 550.5 | 550.0 | 526.63 |
| 549.0 | 545.9 | 543.9 | 543.0 | 539.5 | 543.2 | 538.9 | 536.6 | 542.0 | 546.0 | 550.0 | 550.4 | 542.90 |
| 547.7 | 551.0 | 548.5 | 550.5 | 556.5 | 548.0 | 546.8 | 548.8 | 549.6 | 548.6 | 551.4 | 551.0 | 547.98 |
| 535.1 | 525.3 | 547.5 | 523.2 | 527.1 | 528.0 | 539.8 | 534.8 | 528.8 | 535.5 | 546.9 | 534.3 | 540.81 |
| 542.8 | 549.1 | 546.0 | 545.1 | 546.9 | 552.0 | 552.0 | 531.1 | 500.5 | 527.2 | 538.1 | 537.5 | 540.24 |
| 545.4 | 545.4 | 536.5 | 541.5 | 528.4 | 555.7 | 550.0 | 554.0 | 556.5 | 556.0 | 557.0 | 554.8 | 547.54 |
| 559.0 | 556.3 | 558.4 | 558.0 | 557.9 | 554.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 527.8 | 527.5 | 531.0 | 543.0 | 550.0 | 556.9 | 551.33 |
| 545.6 | 533.0 | 545.5 | 514.5 | 508.0 | 505.8 | 495.9 | 419.0 | 461.6 | 469.7 | 543.6 | 494.6 | 522.37 |
| 532.64 | 530.67 | 529.74 | 526.59 | 527.49 | 528.96 | 528.06 | 525.10 | 526.13 | 528.68 | 534.01 | 532.20 | 529.07 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 73.0 | 72.7 | 72.2 | 71.5 | 70.5 | 69.8 | 69.4 | 68.6 | 68.4 | 68.2 | 67.6 | 67.0 | 69.90 |
| 72.4 | 72.0 | 71.3 | 70.5 | 70.0 | 69.4 | 69.0 | 68.5 | 68.0 | 67.5 | 67.0 | 66.5 | 69.22 |
| 70.9 | 70.4 | 69.6 | 69.4 | 67.8 | 67.0 | 66.5 | 66.0 | 65.7 | 65.4 | 65.0 | 64.6 | 68.03 |
| 68.8 | 68.4 | 68.0 | 67.0 | 66.8 | 66.5 | 66.0 | 65.8 | 65.4 | 65.0 | 64.8 | 64.4 | 66.51 |
| 70.5 | 70.3 | 70.0 | 69.6 | 69.0 | 68.5 | 68.2 | 67.6 | 67.2 | 67.0 | 66.6 | 66.4 | 67.98 |
| 71.0 | 70.5 | 70.0 | 69.5 | 69.3 | 68.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 69.0 | 68.8 | 68.5 | 68.5 | 68.5 | 68.4 | 68.96 |
| 69.7 | 69.9 | 69.5 | 69.2 | 68.8 | 68.4 | 68.2 | 67.9 | 67.6 | 67.6 | 67.4 | 67.0 | 68.39 |
| 71.0 | 70.7 | 70.5 | 70.0 | 69.7 | 69.5 | 68.8 | 68.5 | 68.3 | 68.2 | 68.0 | 68.0 | 68.61 |
| 70.0 | 70.0 | 70.0 | 69.2 | 69.0 | 68.8 | 68.5 | 68.2 | 68.0 | 67.7 | 67.5 | 67.2 | 68.66 |
| 71.4 | 71.0 | 70.6 | 70.2 | 69.6 | 69.0 | 68.5 | 68.2 | 67.6 | 67.0 | 66.8 | 66.5 | 68.65 |
| 71.0 | 70.5 | 70.2 | 69.8 | 69.2 | 68.8 | 68.0 | 67.7 | 67.0 | 66.5 | 66.1 | 65.8 | 68.43 |
| 72.8 | 72.8 | 72.2 | 71.6 | 71.6 | 71.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71.6 | 71.0 | 70.5 | 70.2 | 70.0 | 69.8 | 70.00 |
| 76.0 | 75.8 | 75.4 | 75.0 | 74.0 | 73.5 | 72.6 | 71.8 | 70.7 | 70.5 | 70.2 | 69.5 | 72.52 |
| 76.4 | 76.0 | 75.0 | 74.4 | 74.0 | 73.6 | 73.2 | 72.8 | 72.0 | 71.2 | 70.5 | 70.0 | 72.77 |
| 72.8 | 72.8 | 72.2 | 71.9 | 71.5 | 71.3 | 70.8 | 70.4 | 70.0 | 69.2 | 69.0 | 68.0 | 71.01 |
| 73.0 | 73.0 | 72.8 | 72.8 | 73.0 | 72.4 | 72.0 | 71.2 | 70.7 | 70.5 | 70.1 | 70.0 | 70.74 |
| 75.4 | 75.0 | 74.6 | 74.3 | 74.0 | 73.6 | 73.0 | 72.6 | 72.3 | 72.0 | 71.6 | 71.6 | 72.87 |
| 68.6 | 68.0 | 67.0 | 66.4 | 66.0 | 65.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.2 | 58.8 | 58.4 | 58.0 | 57.5 | 57.0 | 67.03 |
| 59.7 | 59.1 | 58.9 | 58.5 | 58.2 | 58.0 | 57.5 | 57.5 | 57.0 | 56.7 | 56.5 | 56.3 | 58.22 |
| 58.3 | 58.4 | 58.2 | 58.0 | 57.5 | 57.3 | 57.0 | 56.6 | 56.2 | 56.0 | 55.7 | 55.4 | 56.85 |
| 55.5 | 55.4 | 55.2 | 55.0 | 54.8 | 54.6 | 54.4 | 54.0 | 54.0 | 53.7 | 53.5 | 53.2 | 54.71 |
| 56.4 | 56.3 | 55.7 | 55.4 | 55.0 | 54.4 | 54.1 | 53.3 | 52.7 | 52.2 | 51.8 | 51.4 | 54.32 |
| 55.7 | 55.4 | 55.0 | 53.6 | 53.0 | 52.5 | 52.0 | 51.5 | 51.2 | 50.7 | 50.4 | 50.2 | 52.91 |
| 53.0 | 52.8 | 52.5 | 52.3 | 52.0 | 51.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.5 | 52.5 | 52.3 | 52.0 | 51.6 | 51.3 | 51.70 |
| 57.6 | 56.6 | 56.0 | 55.5 | 54.8 | 54.0 | 53.5 | 53.2 | 53.2 | 52.6 | 52.2 | 52.0 | 54.35 |
| 67.64 | 67.35 | 66.90 | 66.42 | 65.96 | 65.52 | 64.94 | 64.52 | 64.12 | 63.76 | 63.44 | 63.10 | 65.33 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--------------------|------------------|--------------------|-------------------|-------|
| One Scale Division = $\cdot 000087$ parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = $\cdot 000234$. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| OCTOBER. | 1 | 504.8 | 514.8 | 539.0 | 528.0 | 509.7 | 514.4 | 521.6 | 542.7 | 545.4 | 543.3 | 544.8 | 528.0 |
| | 2 | 556.8 | 552.5 | 547.4 | 542.4 | 534.8 | 532.8 | 526.9 | 532.7 ^a | 535.5 | 551.6 | 556.5 | 551.7 |
| | 3 | 546.0 | 546.5 | 536.0 | 535.5 | 532.3 | 527.0 | 534.5 | 539.7 | 347.5 | 547.4 | 547.2 | 545.0 |
| | 4 | 548.2 | 543.1 | 541.7 | 534.4 | 534.3 | 536.4 | 538.9 | 545.2 | 549.7 | 552.8 | 547.8 | 547.8 |
| | 5 | 550.8 | 553.1 | 545.8 | 543.5 | 542.6 | 546.4 | 549.6 | 552.2 | 557.6 | 549.9 ^b | 549.1 | 546.0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 556.3 | 557.2 | 555.7 | 555.9 | 553.8 | 551.1 | 553.0 | 560.0 | 562.3 | 560.3 | 561.8 | 558.0 |
| | 8 | 559.2 | 555.4 | 551.4 | 552.6 | 554.0 | 552.8 | 552.8 | 552.0 | 555.7 | 557.0 | 558.9 | 552.0 |
| | 9 | 553.5 | 553.5 | 546.3 | 541.3 | 537.6 | 537.0 | 549.5 | 545.8 | 550.0 | 553.0 | 553.0 | 552.8 |
| | 10 | 551.5 | 545.8 | 543.8 | 540.3 | 530.1 | 541.1 | 546.1 | 553.6 | 552.3 | 555.1 | 554.9 | 553.3 |
| | 11 | 556.5 | 555.0 | 553.0 | 545.8 | 544.7 | 548.6 | 551.0 | 551.7 | 556.5 | 558.3 ^d | 558.6 | 556.9 |
| | 12 | 561.0 | 558.3 | 552.3 | 543.9 | 541.0 | 543.9 | 547.4 | 548.8 | 559.0 | 562.5 | 563.0 | 561.8 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 559.7 | 558.7 | 551.0 | 543.4 | 538.0 | 537.8 | 543.5 | 549.0 | 554.0 | 561.8 | 562.3 | 559.0 |
| | 15 | 560.2 | 555.0 | 548.8 | 543.0 | 537.8 | 538.0 | 541.6 | 547.7 | 554.8 | 556.7 | 557.4 | 557.6 |
| | 16 | 558.3 | 556.2 | 552.0 | 544.4 | 536.7 | 533.6 | 537.7 | 544.7 | 550.7 | 554.0 | 559.9 | 560.0 |
| | 17 | 560.0 | 559.2 | 555.6 | 547.1 | 538.5 | 534.9 | 537.0 | 540.3 | 545.1 | 554.0 | 557.8 | 559.0 |
| | 18 | 560.8 | 555.6 | 554.4 | 550.2 | 542.3 | 545.9 | 545.8 | 548.0 | 554.3 | 558.5 | 562.0 | 565.8 |
| | 19 | 564.0 | 561.0 | 557.0 | 551.0 | 547.0 | 546.0 | 546.9 | 555.3 | 563.8 | 564.0 | 568.7 | 565.9 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 550.0 | 552.5 | 542.3 | 537.0 | 553.5 | 558.0 | 559.0 | 555.3 | 561.6 | 552.8 | 551.8 | 542.5 |
| | 22 | 559.8 | 560.0 | 555.3 | 550.8 | 542.0 | 550.1 | 549.9 | 553.4 | 554.0 | 555.5 | 554.0 | 557.1 |
| | 23 | 559.9 | 553.4 | 553.0 | 537.0 | 541.9 | 546.0 | 547.8 | 551.7 | 551.3 | 558.1 | 550.9 | 551.0 |
| | 24 | 556.0 | 552.3 | 545.8 | 544.6 | 544.8 | 541.8 | 544.2 | 545.7 | 549.8 | 551.3 | 551.8 | 547.0 |
| | 25 | 558.5 | 551.5 | 544.0 | 542.0 | 540.0 | 531.0 | 534.0 | 541.5 | 546.0 | 527.9 | 542.0 | 542.0 |
| | 26 | 555.5 | 557.5 | 545.0 | 540.3 | 548.4 | 535.3 | 536.6 | 551.5 | 556.0 | 538.0 | 540.4 | 538.3 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 563.9 | 565.4 | 566.5 | 562.9 | 554.8 | 551.8 | 550.8 | 555.7 | 555.0 | 559.1 | 562.6 | 560.7 |
| | 29 | 571.8 | 571.9 | 571.5 | 558.9 | 553.1 | 561.0 | 561.8 | 563.8 | 562.4 | 566.5 | 573.1 | 578.0 |
| | 30 | 567.8 | 583.2 | 578.0 | 571.4 | 563.7 | 564.8 | 567.1 | 570.3 | 571.5 | 572.0 | 572.5 | 570.2 |
| | 31 | 575.4 | 574.9 | 574.8 | 570.3 | 570.3 | 565.9 | 563.8 | 558.0 | 568.1 | 561.7 | 568.5 | 570.7 |
| Hourly Means | 556.53 | 555.69 | 552.13 | 546.59 | 543.25 | 543.57 | 545.53 | 550.23 | 554.44 | 554.93 | 556.71 | 554.74 | |
| TEMPERATURE OF THE BILLAR MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| OCTOBER. | 1 | 51.5 | 51.5 | 52.0 | 52.7 | 53.3 | 54.0 | 54.6 | 55.2 | 55.8 | 56.8 | 57.4 | 58.0 |
| | 2 | 52.0 | 52.0 | 53.0 | 53.3 | 54.3 | 55.0 | 55.5 | 56.0 ^a | 56.7 | 57.0 | 57.5 | 58.0 |
| | 3 | 57.2 | 56.9 | 57.0 | 57.5 | 58.2 | 58.5 | 59.2 | 59.2 | 59.6 | 60.8 | 61.4 | 61.8 |
| | 4 | 56.6 | 56.2 | 56.4 | 56.6 | 56.7 | 57.3 | 58.1 | 59.0 | 59.0 | 59.5 | 59.9 | 60.0 |
| | 5 | 55.6 | 55.6 | 55.4 | 55.1 | 55.0 | 55.0 | 55.4 | 55.5 | 55.6 | 56.0 ^b | 56.2 | 56.4 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 51.6 | 51.4 | 51.0 | 50.8 | 50.8 | 51.0 | 52.0 | 52.4 | 52.5 | 52.9 | 53.0 | 54.5 |
| | 8 | 48.6 | 48.4 | 49.0 | 49.4 | 50.5 | 52.0 | 53.2 ^c | 54.2 | 55.0 | 56.8 | 58.0 | 58.5 |
| | 9 | 56.4 | 56.6 | 56.8 | 57.4 | 58.0 | 58.9 | 59.4 | 60.0 | 60.6 | 61.8 | 62.4 | 63.5 |
| | 10 | 57.4 | 57.3 | 57.0 | 57.4 | 57.5 | 57.5 | 57.8 | 57.9 | 58.4 | 58.0 | 59.0 | 59.0 |
| | 11 | 52.8 | 52.8 | 53.0 | 53.5 | 54.0 | 54.5 | 54.9 | 55.6 | 56.3 | 57.0 ^d | 57.7 | 58.1 |
| | 12 | 51.2 | 51.0 | 51.4 | 51.8 | 53.2 | 54.0 | 54.9 | 55.5 | 56.0 | 56.6 | 57.4 | 57.7 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 54.0 | 53.8 | 54.0 | 53.7 | 54.0 | 54.5 | 54.7 | 55.0 | 55.0 | 55.0 | 55.5 | 55.5 |
| | 15 | 55.5 | 55.5 | 55.5 | 56.0 | 56.3 | 56.5 | 56.7 | 56.7 | 56.7 | 56.8 | 56.8 | 56.9 |
| | 16 | 53.2 | 52.6 | 52.6 | 53.0 | 53.5 | 54.0 | 54.5 | 55.0 | 55.4 | 55.7 | 55.8 | 55.3 |
| | 17 | 53.5 | 53.4 | 53.2 | 53.0 | 53.0 | 53.0 | 53.0 | 53.2 | 53.5 | 53.5 | 53.2 | 53.5 |
| | 18 | 52.1 | 52.0 | 51.5 | 51.2 | 51.3 | 51.5 | 51.7 | 52.0 | 52.0 | 52.0 | 52.0 | 52.2 |
| | 19 | 51.3 | 51.0 | 51.0 | 51.0 | 50.7 | 50.9 | 51.0 | 51.0 | 50.8 | 51.0 | 50.7 | 50.8 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 45.5 | 46.0 | 46.0 | 46.5 | 46.5 | 47.0 | 48.0 | 48.2 | 48.6 | 49.4 | 50.0 | 50.0 |
| | 22 | 50.4 | 50.2 | 50.0 | 50.0 | 51.0 | 51.8 | 52.6 | 53.5 | 53.5 | 54.6 | 55.0 | 55.7 |
| | 23 | 51.4 | 51.0 | 50.7 | 50.7 | 51.0 | 51.5 | 52.2 | 53.1 | 53.4 | 54.7 | 55.3 | 56.0 |
| | 24 | 54.0 | 54.0 | 54.2 | 55.2 | 56.0 | 56.8 | 57.0 | 57.5 | 58.0 | 58.6 | 59.0 | 59.0 |
| | 25 | 56.5 | 56.5 | 57.0 | 57.0 | 57.2 | 57.5 | 57.7 | 58.0 | 58.5 | 59.0 | 59.5 | 59.9 |
| | 26 | 55.6 | 55.0 | 54.6 | 54.6 | 54.6 | 55.3 | 55.4 | 55.7 | 55.6 | 55.6 | 55.6 | 55.2 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 45.2 | 45.0 | 44.7 | 44.4 | 44.4 | 44.5 | 44.5 | 44.9 | 44.5 | 44.5 | 44.5 | 44.2 |
| | 29 | 42.7 | 42.5 | 42.0 | 42.0 | 41.3 | 41.3 | 42.0 | 41.6 | 41.9 | 42.6 | 43.2 | 43.0 |
| | 30 | 43.7 | 43.6 | 43.4 | 43.4 | 44.0 | 44.7 | 45.3 | 46.0 | 45.7 | 46.0 | 45.9 | 45.6 |
| | 31 | 44.0 | 43.5 | 43.5 | 44.8 | 46.0 | 46.8 | 47.2 | 48.2 | 48.8 | 49.4 | 50.0 | 50.0 |
| Hourly Means | 51.83 | 51.68 | 51.70 | 51.93 | 52.31 | 52.79 | 53.28 | 53.71 | 53.98 | 54.50 | 54.89 | 55.12 | |

^a Five minutes late.

^b Two minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 543·0 | Sc. Div. 542·5 | Sc. Div. 546·3 | Sc. Div. 549·4 | Sc. Div. 548·2 | Sc. Div. 549·8 | Sc. Div. 554·8 | Sc. Div. 550·7 | Sc. Div. 553·8 | Sc. Div. 555·7 | Sc. Div. 556·0 | Sc. Div. 555·5 | Sc. Div. 539·26 |
| 548·9 | 548·4 | 544·8 | 543·9 | 544·0 | 550·0 | 549·2 | — | 546·5 ^b | 546·5 | 547·9 | 549·5 | 545·27 |
| 540·6 | 543·8 | 542·0 | 543·1 | 543·6 | 543·7 | 546·6 | 543·5 | 544·0 | 543·0 | 546·5 | 547·7 | 542·20 |
| 542·7 | 545·7 | 546·4 | 547·3 | 546·0 | 544·0 | 545·0 | 545·0 | 547·6 | 546·4 | 550·5 | 550·0 | 544·87 |
| 547·0 | 550·8 | 548·5 | 553·5 | 546·8 | 553·0 | — | — | — | — | — | — | 550·44 |
| — | — | — | — | — | — | 551·2 | 553·8 | 552·4 | 551·0 | 557·9 | 558·0 | 550·0 |
| 551·0 | 553·4 | 551·0 | 554·8 | 550·9 | 561·5 | 560·5 | 557·9 | 559·0 | 559·0 | 559·8 | 561·4 | 556·90 |
| 556·5 | 555·8 | 552·6 | 561·6 | 552·4 | 553·0 | 553·9 | 554·8 | 556·0 | 555·6 | 553·3 | 552·5 | 554·63 |
| 546·9 | 547·0 | 543·8 | 544·6 | 543·0 | 544·7 | 544·5 | 546·8 | 548·0 | 546·5 | 547·3 | 546·6 | 546·42 |
| 550·5 | 552·0 | 551·5 | 551·0 | 552·0 | 551·5 | 552·0 | 553·3 | 554·9 | 549·6 | 551·7 | 552·6 | 549·60 |
| 556·0 | 554·0 | 554·6 | 555·4 | 556·0 | 556·8 | 558·0 | 558·2 | 560·1 | 560·9 | 561·0 | 560·6 | 555·34 |
| 560·8 | 558·4 | 558·6 | 558·0 | 558·3 | 558·8 | — | — | — | — | — | — | 556·90 |
| — | — | — | — | — | — | 561·2 | 560·8 | 561·9 | 562·0 | 563·0 | 560·8 | 556·90 |
| 557·7 | 556·0 | 557·8 | 552·2 | 547·1 | 548·6 | 546·1 | 552·2 | 552·3 | 553·9 | 559·7 | 560·0 | 552·57 |
| 555·8 | 554·4 | 549·1 | 555·8 | 555·2 | 556·4 | 555·3 | 558·8 | 558·1 | 558·3 | 557·5 | 558·8 | 553·00 |
| 559·2 | 557·8 | 553·9 | 553·5 | 553·0 | 553·7 | 557·5 | 558·2 | 559·4 | 559·6 | 562·4 | 560·6 | 553·21 |
| 558·0 | 559·0 | 557·0 | 558·0 | 556·8 | 555·8 | 553·2 | 555·8 | 552·8 | 561·9 | 566·1 | 559·2 | 553·42 |
| 567·2 | 567·5 | 567·0 | 566·1 | 567·7 | 563·2 | 563·2 | 563·0 | 562·8 | 564·0 | 563·3 | 565·0 | 559·32 |
| 568·1 | 567·4 | 566·6 | 566·0 | 564·9 | 563·3 | — | — | — | — | — | — | 542·85 |
| — | — | — | — | — | — | 332·8 | 485·8 | 538·2 | 510·7 | 529·0 | 545·0 | 542·85 |
| 550·9 | 555·5 | 558·5 | 566·2 | 546·8 | 550·1 | 551·3 | 555·7 | 556·0 | 555·0 | 558·5 | 559·6 | 553·35 |
| 555·3 | 555·8 | 549·3 | 539·0 | 552·5 | 546·1 | 549·0 | 548·6 | 542·1 | 554·4 | 557·2 | 556·0 | 551·97 |
| 546·0 | 550·9 | 545·0 | 541·8 | 548·0 | 547·2 | 550·6 | 549·3 | 554·5 | 555·0 | 554·7 | 556·0 | 550·04 |
| 541·8 | 537·4 | 533·9 | 543·2 | 545·1 | 550·3 | 546·6 | 550·8 | 544·1 | 542·2 | 544·3 | 546·3 | 546·00 |
| 527·4 | 527·6 | 538·8 | 533·8 | 526·7 | 540·3 | 535·9 | 546·0 | 534·0 | 553·0 | 529·5 | 534·9 | 538·68 |
| 543·6 | 542·7 | 536·9 | 539·5 | 559·9 | 551·0 | — | — | — | — | — | — | 548·68 |
| — | — | — | — | — | — | 552·9 | 552·0 | 557·5 | 561·0 | 562·0 | 566·4 | 548·68 |
| 571·4 | 564·7 | 564·9 | 565·0 | 556·0 | 565·0 | 567·0 | 563·6 | 567·9 | 569·8 | 572·5 | 569·9 | 562·79 |
| 569·0 | 574·3 | 571·9 | 575·9 | 579·1 | 574·4 | 569·1 | 571·8 | 570·6 | 573·4 | 571·5 | 572·0 | 569·45 |
| 572·2 | 566·1 | 568·3 | 567·8 | 568·6 | 571·3 | 569·1 | 573·7 | 576·0 | 572·9 | 574·0 | 575·5 | 571·17 |
| 568·5 | 568·0 | 566·0 | 567·8 | 567·8 | 567·9 | — | 570·9 | 570·0 | 569·1 | 550·0 | 530·0 | 566·02 |
| 553·93 | 553·96 | 552·78 | 553·86 | 553·20 | 554·50 | 545·25 | 553·12 | 554·83 | 555·20 | 555·82 | 555·94 | 552·37 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| 57·6 | 57·2 | 56·9 | 56·2 | 55·6 | 55·3 | 55·0 | 54·2 | 53·6 | 53·0 | 52·5 | 52·3 | 54·67 |
| 58·4 | 58·5 | 58·4 | 58·4 | 58·4 | 58·4 | 58·2 | — | 58·0 ^b | 58·0 | 57·8 | 57·5 | 56·53 |
| 61·2 | 61·0 | 60·5 | 59·7 | 59·2 | 58·8 | 58·5 | 58·2 | 58·0 | 57·5 | 57·0 | 56·7 | 58·90 |
| 59·5 | 59·4 | 59·2 | 58·5 | 58·2 | 57·5 | 57·2 | 57·0 | 56·6 | 56·2 | 56·2 | 55·9 | 57·78 |
| 56·0 | 56·0 | 56·0 | 55·6 | 55·5 | 55·3 | — | — | — | — | — | — | 54·97 |
| — | — | — | — | — | — | 54·0 | 53·6 | 53·2 | 52·8 | 52·4 | 52·0 | 54·97 |
| 54·3 | 53·8 | 53·4 | 52·6 | 52·3 | 52·0 | 51·6 | 51·0 | 50·5 | 50·2 | 50·0 | 49·0 | 51·86 |
| 58·3 | 57·9 | 57·9 | 57·5 | 57·0 | 57·0 | 57·0 | 57·0 | 56·3 | 56·0 | 55·8 | 56·4 | 54·90 |
| 62·5 | 62·6 | 62·0 | 61·3 | 60·5 | 59·5 | 59·2 | 59·0 | 59·0 | 58·5 | 58·0 | 57·5 | 59·64 |
| 58·5 | 57·8 | 57·5 | 57·0 | 56·5 | 56·0 | 55·5 | 55·2 | 54·6 | 54·5 | 54·0 | 53·4 | 56·86 |
| 58·1 | 57·2 | 56·6 | 56·2 | 55·6 | 55·3 | 54·4 | 54·0 | 53·0 | 52·5 | 51·8 | 51·5 | 54·85 |
| 57·4 | 56·6 | 56·2 | 56·0 | 56·2 | 56·2 | — | — | — | — | — | — | 54·73 |
| — | — | — | — | — | — | 54·0 | 54·0 | 54·0 | 54·0 | 54·0 | 54·1 | 54·73 |
| 55·7 | 56·0 | 56·3 | 56·4 | 56·2 | 56·1 | 56·1 | 56·3 | 56·5 | 56·2 | 55·9 | 55·6 | 55·33 |
| 56·5 | 56·0 | 55·8 | 55·2 | 55·0 | 54·8 | 54·5 | 54·5 | 54·2 | 54·0 | 53·5 | 53·4 | 55·56 |
| 55·2 | 54·8 | 54·7 | 54·5 | 54·5 | 54·2 | 54·0 | 53·8 | 53·6 | 53·6 | 54·1 | 54·0 | 54·23 |
| 53·5 | 53·6 | 54·0 | 53·8 | 53·8 | 53·6 | 53·7 | 53·5 | 53·2 | 53·2 | 53·0 | 52·7 | 53·36 |
| 52·1 | 52·0 | 52·0 | 52·0 | 52·2 | 52·5 | 53·0 | 53·0 | 53·0 | 52·5 | 52·1 | 51·5 | 52·06 |
| 50·6 | 50·0 | 49·5 | 49·0 | 48·8 | 48·4 | — | — | — | — | — | — | 49·06 |
| — | — | — | — | — | — | 45·0 | 44·4 | 45·5 | 45·0 | 45·0 | 45·0 | 49·06 |
| 50·2 | 50·2 | 50·3 | 50·5 | 50·6 | 50·7 | 50·5 | 50·3 | 50·0 | 50·0 | 50·0 | 50·0 | 48·96 |
| 55·5 | 55·0 | 54·3 | 53·8 | 53·5 | 53·0 | 52·7 | 52·4 | 52·2 | 52·0 | 52·0 | 51·8 | 52·77 |
| 56·4 | 56·5 | 56·3 | 56·1 | 56·2 | 56·5 | 56·5 | 56·0 | 55·0 | 54·6 | 54·6 | 54·3 | 54·17 |
| 58·6 | 58·0 | 57·8 | 57·0 | 56·5 | 56·9 | 57·0 | 57·0 | 56·8 | 56·8 | 56·6 | 56·5 | 56·87 |
| 59·0 | 58·8 | 58·5 | 58·0 | 57·8 | 57·5 | 57·2 | 56·9 | 56·5 | 56·0 | 55·8 | 55·6 | 57·58 |
| 55·7 | 55·7 | 55·5 | 55·5 | 55·0 | 55·0 | — | — | — | — | — | — | 52·89 |
| — | — | — | — | — | — | 46·0 | 46·0 | 46·0 | 45·5 | 45·5 | 45·2 | 52·89 |
| 41·0 | 43·6 | 43·5 | 43·5 | 43·4 | 43·4 | 43·4 | 43·2 | 43·0 | 43·0 | 43·2 | 43·0 | 43·98 |
| 43·3 | 43·6 | 44·0 | 44·1 | 44·1 | 43·6 | 43·8 | 44·0 | 44·0 | 43·8 | 43·5 | 43·5 | 42·98 |
| 45·9 | 45·6 | 45·9 | 46·1 | 46·2 | 46·2 | 45·8 | 45·5 | 45·5 | 45·0 | 45·0 | 44·5 | 45·19 |
| 50·1 | 49·5 | 49·0 | 48·2 | 47·5 | 47·0 | — | 46·5 | 46·5 | 46·0 | 45·7 | 45·2 | 47·10 |
| 54·97 | 54·70 | 54·52 | 54·17 | 53·94 | 53·73 | 53·22 | 52·56 | 52·53 | 52·24 | 52·04 | 51·78 | 53·25 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------------|-------|
| One Scale Division = $\cdot 000087$ parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah $^{\circ}$ = $\cdot 000234$. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| NOVEMBER. | 1 | 574.0 | 571.8 | 572.8 | 568.9 | 569.2 | 568.3 | 570.5 | 554.9 | 563.1 | 569.7 | 570.0 | 562.4 |
| | 2 | 569.9 | 565.6 | 564.8 | 562.1 | 566.5 | 558.0 | 569.5 | 557.6 | 560.6 | 572.8 | 560.5 | 543.5 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 569.7 | 564.7 | 569.9 | 557.8 | 552.2 | 553.9 | 558.0 | 557.7 | 560.4 | 555.6 | 550.7 | 561.0 |
| | 5 | 565.6 | 565.8 | 562.5 | 558.5 | 556.9 | 557.1 | 556.7 | 560.8 | 563.4 | 566.2 | 566.0 | 568.0 |
| | 6 | 564.5 | 565.0 | 564.8 | 562.0 | 561.0 | 558.5 | 554.8 | 559.5 | 568.7 | 565.9 | 567.9 | 565.5 |
| | 7 | 565.9 | 561.5 | 556.6 | 556.9 | 556.7 | 556.6 | 554.4 | 557.8 | 561.4 | 562.9 | 562.9 | 560.7 |
| | 8 | 564.5 | 564.5 | 559.0 | 553.8 | 551.8 | 553.0 | 554.9 | 561.1 | 565.6 | 565.3 | 564.6 | 567.0 |
| | 9 | 570.8 | 568.3 | 563.6 | 558.2 | 555.1 | 556.4 | 562.4 | 568.0 | 574.0 | 579.5 | 578.0 | 573.9 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 561.4 | 576.9 | 571.0 | 572.5 | 568.5 | 556.6 | 561.8 | 562.0 | 569.5 | 560.9 | 556.2 | 556.9 |
| | 12 | 566.0 | 567.0 | 565.0 | 560.0 | 545.5 | 543.0 | 558.8 | 565.5 | 563.0 | 561.2 | 563.0 | 559.7 |
| | 13 | 565.0 | 564.6 | 560.1 | 557.0 | 555.5 | 552.9 | 553.9 | 555.5 | 558.0 | 563.6 | 563.0 | 562.6 |
| | 14 | 571.9 | 577.8 | 572.6 | 568.4 | 562.0 | 557.9 | 561.2 | 561.8 | 566.4 | 569.9 | 570.2 | 570.3 |
| | 15 | 573.5 | 573.3 | 570.0 | 565.2 | 561.6 | 561.2 | 561.5 | 565.0 | 567.0 | 572.4 | 576.0 | 578.5 |
| | 16 | 552.5 | 536.5 | 565.0 | 543.5 | 510.0 | 541.9 | 512.8 | 519.8 | 530.3 | 544.0 | 547.7 | 546.7 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 557.0 | 572.9 | 567.0 | 568.0 | 561.0 | 557.2 | 559.0 | 564.2 | 558.8 | 555.9 | 539.0 | 557.7 |
| | 19 | 555.9 | 578.0 | 563.7 | 556.8 | 551.7 | 554.1 | 558.0 | 559.0 | 564.8 | 563.0 | 563.0 | 564.8 |
| | 20 | 570.9 | 570.0 | 571.5 | 565.3 | 560.5 | 559.0 | 559.3 | 563.0 | 570.2 | 567.9 | 563.6 | 566.0 |
| | 21 | 570.0 | 569.5 | 568.3 | 561.6 | 560.5 | 560.9 | 561.3 | 562.9 | 563.4 | 566.6 | 568.2 | 564.8 |
| | 22 | 575.6 | 575.5 | 567.0 | 565.0 | 562.7 | 555.0 | 540.9 | 546.3 | 538.5 | 550.2 | 557.2 | 534.6 |
| | 23 | 548.6 | 560.7 | 557.7 | 554.8 | 549.1 | 545.0 | 548.1 | 537.0 | 554.9 | 561.0 | 555.9 | 559.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 580.2 | 584.7 | 584.0 | 580.4 | 574.8 | 572.6 | 572.7 | 573.7 | 581.5 | 584.0 | 585.1 | 583.4 |
| | 26 | 585.5 | 583.9 | 583.2 | 581.2 | 580.0 | 577.9 | 576.0 | 578.3 | 581.6 | 584.4 ^b | 586.1 | 585.4 |
| | 27 | 584.7 | 583.0 | 587.9 | 584.4 | 580.5 | 577.1 | 575.7 | 579.0 | 583.4 | 589.4 | 592.0 | 584.7 |
| | 28 | 592.8 | 587.6 | 584.2 | 592.5 | 586.8 | 573.0 | 573.6 | 574.0 | 579.6 | 583.6 | 587.1 | 583.4 |
| | 29 | 584.5 | 585.3 | 583.0 | 579.5 | 569.8 | 571.8 | 568.0 | 568.2 | 571.4 | 573.6 | 578.6 | 578.6 |
| | 30 | 572.9 | 573.2 | 571.3 | 568.4 | 565.0 | 561.5 | 560.8 | 562.1 | 565.1 | 571.0 | 574.5 | 576.5 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 569.76 | 571.06 | 569.48 | 565.49 | 560.57 | 559.25 | 559.41 | 560.57 | 564.79 | 567.71 | 567.19 | 566.02 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|------|
| NOVEMBER. | 1 | 45.0 | 44.6 | 44.2 | 44.8 | 46.0 | 47.1 | 48.4 | 49.4 | 49.8 | 50.0 | 50.0 | 50.0 |
| | 2 | 49.4 | 49.7 | 49.7 | 50.4 | 50.8 | 51.5 | 52.1 | 52.5 | 52.9 | 53.5 | 54.2 | 54.4 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 49.3 | 49.2 | 49.0 | 49.0 | 49.0 | 49.5 | 50.0 | 50.4 | 50.5 | 51.0 | 51.0 | 50.5 |
| | 5 | 49.0 | 48.7 | 48.7 | 49.0 | 49.7 | 50.0 | 50.3 | 51.3 | 51.6 | 52.5 | 53.0 | 52.6 |
| | 6 | 49.5 | 49.0 | 49.0 | 49.5 | 50.0 | 50.0 | 50.0 | 50.4 | 50.6 | 51.5 | 52.6 | 52.7 |
| | 7 | 49.8 | 49.7 | 49.7 | 49.8 | 50.6 | 51.5 | 52.5 | 53.5 | 53.9 | 53.9 | 53.9 | 54.0 |
| | 8 | 51.3 | 51.0 | 50.3 | 50.5 | 50.7 | 50.8 | 50.9 | 51.0 | 51.0 | 51.0 | 50.9 | 50.8 |
| | 9 | 47.6 | 47.5 | 47.0 | 47.0 | 47.0 | 47.4 | 47.6 | 48.3 | 48.5 | 48.5 | 50.0 | 49.6 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 47.6 | 47.6 | 47.5 | 47.4 | 47.5 | 48.0 | 48.2 | 48.6 | 49.0 | 49.0 | 49.0 | 49.5 |
| | 12 | 49.6 | 49.5 | 49.5 | 49.2 | 49.4 | 50.0 | 50.5 | 50.8 | 51.0 | 51.4 | 51.8 | 51.8 |
| | 13 | 51.2 | 50.2 | 50.0 | 50.2 | 50.0 | 49.8 | 49.4 | 49.0 | 49.0 | 49.0 | 49.4 | 49.5 |
| | 14 | 45.1 | 45.0 | 45.0 | 45.4 | 46.0 | 46.5 | 46.9 | 47.2 | 47.2 | 48.1 | 48.4 | 48.2 |
| | 15 | 47.0 | 47.0 | 47.0 | 47.2 | 47.2 | 47.4 | 47.0 | 47.5 | 47.9 | 48.3 | 48.4 | 48.8 |
| | 16 | 46.7 | 46.7 | 46.2 | 46.7 | 47.4 | 48.4 | 49.4 | 50.0 | 50.3 | 51.0 | 51.4 | 51.0 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 44.7 | 44.5 | 44.5 | 44.2 | 44.5 | 44.6 | 45.0 | 45.4 | 45.4 | 45.4 | 45.4 | 45.2 |
| | 19 | 42.8 | 42.6 | 42.6 | 42.8 | 43.0 | 43.4 | 43.5 | 43.7 | 44.2 | 44.8 | 45.4 | 45.5 |
| | 20 | 44.3 | 44.6 | 44.8 | 44.6 | 45.0 | 46.0 | 46.5 | 47.2 | 48.0 | 49.0 | 49.6 | 49.5 |
| | 21 | 45.0 | 44.8 | 44.8 | 45.1 | 46.2 | 47.1 | 47.9 | 48.8 | 49.2 | 49.6 | 49.9 | 50.0 |
| | 22 | 47.8 | 47.2 | 47.5 | 47.5 | 48.0 | 48.5 | 49.0 | 49.2 | 49.1 | 49.4 | 49.5 | 49.0 |
| | 23 | 49.8 | 49.8 | 49.6 | 49.6 | 49.2 | 49.5 | 49.6 | 50.0 | 50.0 | 50.4 | 50.5 | 50.2 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 36.4 | 37.0 | 36.2 | 36.4 | 36.8 | 36.7 | 37.2 | 38.4 | 37.8 | 38.9 | 38.9 | 39.0 |
| | 26 | 37.9 | 38.0 | 37.6 | 37.0 | 37.0 | 37.4 | 37.7 | 38.2 | 38.4 | 39.2 ^b | 39.6 | 39.6 |
| | 27 | 38.8 | 38.8 | 38.2 | 37.8 | 38.5 | 39.0 | 39.5 | 40.1 | 40.3 | 41.0 | 41.0 | 41.2 |
| | 28 | 36.7 | 37.1 | 37.2 | 37.0 | 37.0 | 37.5 | 37.0 | 38.2 | 38.6 | 38.2 | 38.2 | 39.0 |
| | 29 | 40.0 | 40.0 | 40.0 | 40.0 | 41.6 | 42.0 | 42.4 | 43.4 | 43.7 | 44.3 | 44.6 | 44.5 |
| | 30 | 48.6 | 48.2 | 47.5 | 47.5 | 47.7 | 48.2 | 48.2 | 48.4 | 48.6 | 49.0 | 49.0 | 49.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 45.80 | 45.69 | 45.51 | 45.60 | 45.99 | 46.45 | 46.80 | 47.34 | 47.56 | 48.00 | 48.29 | 48.27 | |

^b Seven minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 567.5 | Sc. Div. 565.8 | Sc. Div. 565.4 | Sc. Div. 570.7 | Sc. Div. 570.0 | Sc. Div. 574.0 | Sc. Div. 568.0 | Sc. Div. 563.5 | Sc. Div. 563.3 | Sc. Div. 565.5 | Sc. Div. 556.0 | Sc. Div. 563.6 | Sc. Div. 567.04 |
| 555.5 | 560.4 | 540.3 | 558.5 | 557.7 | 549.0 | — | — | — | — | — | — | 560.19 |
| — | — | — | — | — | — | 560.6 | 552.3 | 562.0 | 565.6 | 565.1 | 566.2 | 561.19 |
| 564.4 | 546.3 | 563.0 | 565.5 | 566.1 | 564.6 | 563.4 | 565.1 | 563.4 | 562.8 | 566.4 | 565.9 | 563.22 |
| 563.8 | 565.7 | 562.5 | 555.8 | 567.7 | 555.9 | 563.0 | 568.1 | 566.8 | 566.8 | 566.7 | 567.0 | 564.02 |
| 566.0 | 565.2 | 566.0 | 564.9 | 564.0 | 563.3 | 565.1 | 562.2 | 563.5 | 565.5 | 565.6 | 567.0 | 561.52 |
| 564.0 | 564.4 | 563.3 | 563.0 | 562.3 | 561.0 | 561.0 | 561.0 | 564.4 | 563.7 | 566.2 | 567.9 | 563.94 |
| 567.8 | 566.0 | 566.2 | 566.2 | 566.2 | 566.8 | 566.9 | 567.5 | 566.7 | 569.0 | 570.3 | 569.8 | 567.85 |
| 567.1 | 571.0 | 571.8 | 572.6 | 570.8 | 572.0 | — | — | — | — | — | — | 560.91 |
| — | — | — | — | — | — | 568.2 | 565.8 | 565.2 | 561.3 | 563.9 | 570.5 | 558.59 |
| 555.5 | 549.0 | 544.9 | 554.4 | 556.6 | 557.6 | 557.8 | 560.9 | 560.6 | 561.9 | 563.0 | 565.5 | 561.37 |
| 560.9 | 550.2 | 559.0 | 558.6 | 556.5 | 558.0 | 550.6 | 560.0 | 557.7 | 556.3 | 557.5 | 563.1 | 568.57 |
| 558.0 | 555.7 | 563.0 | 561.0 | 560.1 | 559.8 | 562.0 | 564.6 | 556.4 | 570.2 | 574.8 | 575.5 | 568.39 |
| 571.0 | 571.0 | 570.7 | 568.9 | 568.4 | 568.9 | 566.2 | 567.5 | 567.8 | 570.6 | 569.8 | 574.5 | 568.39 |
| 575.0 | 576.2 | 575.1 | 571.3 | 575.6 | 575.2 | 576.2 | 570.3 | 562.3 | 534.8 | 562.1 | 562.0 | 543.89 |
| 542.0 | 537.5 | 531.1 | 535.9 | 539.8 | 538.7 | — | — | — | — | — | — | 561.48 |
| — | — | — | — | — | — | 557.3 | 569.7 | 564.6 | 565.9 | 563.2 | 557.0 | 561.39 |
| 568.7 | 565.7 | 565.0 | 561.8 | 558.3 | 558.7 | 558.3 | 556.5 | 570.5 | 564.7 | 567.5 | 560.6 | 564.19 |
| 565.5 | 558.4 | 567.9 | 568.0 | 569.0 | 568.0 | 566.5 | 567.6 | 568.0 | 568.6 | 569.0 | 571.2 | 565.29 |
| 564.8 | 562.5 | 561.5 | 562.6 | 563.2 | 563.2 | 566.0 | 569.7 ^h | 568.0 | 564.2 | 565.6 | 568.5 | 562.39 |
| 567.2 | 565.5 | 564.1 | 569.6 | 562.6 | 558.3 | 564.0 | 563.2 | 564.0 | 559.6 | 528.7 | 552.5 | 551.84 |
| 535.6 | 539.3 | 535.6 | 542.5 | 565.0 | 554.7 | 551.8 | 548.6 | 543.0 | 539.0 | 557.5 | 563.1 | 561.48 |
| 559.9 | 561.4 | 560.1 | 561.1 | 561.4 | 555.2 | — | — | — | — | — | — | 580.44 |
| — | — | — | — | — | — | 578.1 | 580.0 | 578.0 | 582.0 | 581.9 | 583.8 | 581.17 |
| 584.0 | 581.9 | 580.8 | 576.0 | 576.0 | 579.0 | 580.0 | 580.0 | 581.2 | 581.7 | 589.0 | 583.8 | 577.64 |
| 585.4 | 582.0 | 583.4 | 579.4 | 577.7 | 579.6 | 578.7 | 578.7 | 579.0 | 580.0 | 578.6 | 582.2 | 580.81 |
| 580.4 | 571.6 | 570.3 | 573.6 | 573.2 | 568.8 | 568.0 | 566.0 | 565.8 | 576.0 | 574.4 | 570.4 | 575.80 |
| 583.9 | 578.9 | 582.0 | 571.2 | 578.1 | 576.5 | 579.0 | 574.5 | 575.0 | 575.2 | 582.5 | 584.5 | 570.62 |
| 580.3 | 577.5 | 574.8 | 575.6 | 576.1 | 575.0 | 574.0 | 575.0 | 574.4 | 574.6 | 575.0 | 574.7 | — |
| 574.6 | 569.5 | 570.0 | 572.0 | 571.8 | 571.2 | — | — | — | — | — | — | 574.41 |
| — | — | — | — | — | — | 574.9 | 575.7 | 576.0 | 571.2 | 571.3 | 574.41 | 565.53 |
| 566.49 | 563.79 | 563.76 | 564.64 | 565.93 | 564.35 | 566.37 | 566.69 | 566.45 | 566.03 | 567.48 | 569.41 | 565.53 |

TEMPERATURE OF THE BIPOLAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| 50.5 | 50.5 | 50.5 | 50.5 | 50.2 | 50.0 | 50.0 | 50.0 | 49.8 | 49.8 | 49.9 | 49.9 | 48.79 |
| 54.0 | 53.7 | 53.3 | 53.0 | 52.7 | 52.5 | — | — | — | — | — | — | 51.49 |
| — | — | — | — | — | — | 48.6 | 48.8 | 49.4 | 49.6 | 49.6 | 49.4 | 50.05 |
| 50.5 | 50.5 | 50.5 | 50.4 | 50.6 | 50.6 | 50.6 | 50.5 | 50.2 | 49.8 | 49.4 | 49.2 | 50.63 |
| 52.2 | 52.0 | 52.0 | 51.4 | 50.7 | 50.6 | 50.4 | 50.2 | 50.0 | 49.8 | 49.8 | 49.5 | 50.49 |
| 52.5 | 52.0 | 52.0 | 51.4 | 51.0 | 50.4 | 50.0 | 49.6 | 49.5 | 49.5 | 49.5 | 49.6 | 52.48 |
| 53.7 | 53.6 | 53.4 | 53.4 | 53.4 | 53.2 | 53.0 | 52.7 | 52.6 | 52.6 | 52.6 | 52.5 | 50.20 |
| 50.8 | 50.8 | 50.4 | 50.2 | 49.8 | 49.8 | 49.5 | 49.2 | 49.1 | 48.7 | 48.5 | 47.7 | 47.91 |
| 49.5 | 49.2 | 48.8 | 48.5 | 48.2 | 48.2 | — | — | — | — | — | — | 48.97 |
| — | — | — | — | — | — | 46.5 | 46.6 | 47.0 | 47.0 | 47.0 | 47.4 | 51.10 |
| 49.4 | 49.4 | 49.6 | 49.6 | 49.5 | 49.6 | 49.5 | 49.7 | 49.9 | 50.1 | 50.1 | 51.2 | 48.58 |
| 51.8 | 51.8 | 51.9 | 52.0 | 52.0 | 52.2 | 52.2 | 52.0 | 52.0 | 51.5 | 51.3 | 51.2 | 47.05 |
| 49.2 | 48.9 | 48.7 | 48.0 | 48.0 | 47.5 | 47.3 | 47.2 | 46.5 | 46.2 | 46.2 | 45.6 | 47.71 |
| 48.5 | 48.7 | 48.5 | 48.2 | 47.8 | 47.4 | 47.2 | 47.0 | 46.9 | 46.5 | 46.4 | 47.0 | 48.39 |
| 49.0 | 49.2 | 49.2 | 48.4 | 48.0 | 48.0 | 47.8 | 47.1 | 47.0 | 47.0 | 47.0 | 46.7 | 44.42 |
| 51.0 | 50.6 | 50.2 | 49.9 | 49.6 | 49.4 | — | — | — | — | — | — | 44.33 |
| — | — | — | — | — | — | 46.6 | 46.5 | 46.0 | 45.8 | 45.5 | 45.0 | 47.09 |
| 44.8 | 44.5 | 44.0 | 44.0 | 44.0 | 44.0 | 44.2 | 44.0 | 44.0 | 44.0 | 42.8 | 43.0 | 47.85 |
| 45.3 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 44.9 | 44.5 | 49.00 |
| 49.5 | 49.0 | 49.0 | 48.7 | 48.2 | 47.6 | 47.4 | 47.2 ⁿ | 46.5 | 46.4 | 46.1 | 45.5 | 46.37 |
| 49.6 | 49.6 | 49.0 | 48.5 | 48.2 | 48.2 | 47.9 | 47.6 | 47.9 | 47.8 | 47.8 | 47.8 | 37.99 |
| 49.0 | 49.0 | 49.3 | 49.5 | 49.5 | 49.5 | 49.6 | 49.7 | 49.8 | 49.8 | 49.8 | 49.8 | 39.01 |
| 50.1 | 49.7 | 49.0 | 48.7 | 48.2 | 47.6 | — | — | — | — | — | — | 39.02 |
| — | — | — | — | — | — | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 36.5 | 38.06 |
| 39.0 | 39.0 | 39.4 | 39.1 | 38.9 | 38.7 | 38.5 | 38.3 | 37.8 | 37.7 | 37.8 | 37.8 | 44.33 |
| 40.1 | 40.6 | 41.0 | 40.8 | 40.4 | 40.4 | 39.8 | 39.2 | 39.2 | 39.2 | 39.2 | 38.7 | 47.47 |
| 40.6 | 39.5 | 40.0 | 39.2 | 38.4 | 39.0 | 38.8 | 38.2 | 37.8 | 37.2 | 37.0 | 36.6 | — |
| 39.0 | 39.5 | 38.6 | 38.0 | 37.6 | 37.6 | 37.8 | 38.4 | 38.5 | 38.8 | 39.0 | 39.2 | — |
| 44.8 | 45.0 | 45.2 | 45.5 | 46.0 | 46.5 | 47.0 | 47.0 | 47.0 | 47.5 | 47.4 | 48.5 | — |
| 49.0 | 49.0 | 48.8 | 49.0 | 49.5 | 50.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.8 | 44.5 | 44.0 | 43.8 | 43.5 | 43.4 | — |
| 48.21 | 48.09 | 47.97 | 47.73 | 47.52 | 47.44 | 46.42 | 46.28 | 46.17 | 45.08 | 45.97 | 45.85 | 46.88 |

ⁿ Three minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|--------------------|-------------------|
| One Scale Division = .000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .000234. | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| DECEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | 579.1 | 576.6 | 578.4 | 577.5 | 572.2 | 565.5 | 559.7 | 569.7 | 576.5 | 579.2 | 579.9 |
| | 3 | 578.1 | 578.0 | 576.7 | 576.5 | 575.0 | 572.0 | 571.0 | 571.0 | 573.3 | 577.9 | 578.0 |
| | 4 | 587.7 | 580.9 | 580.3 | 587.0 | 583.0 | 580.6 | 570.5 | 572.0 | 565.6 | 567.8 | 570.5 |
| | 5 | 572.5 | 572.0 | 573.0 | 570.6 | 571.4 | 568.5 | 569.6 | 571.3 | 572.1 | 570.9 | 575.9 |
| | 6 | 572.4 | 571.5 | 572.1 | 570.7 | 569.4 | 569.1 | 568.8 | 566.5 | 569.8 | 571.9 | 576.8 |
| | 7 | 574.6 | 574.2 | 572.9 | 573.0 | 573.0 | 565.8 | 562.8 | 562.7 | 564.7 | 569.1 | 572.0 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 587.2 | 586.2 | 585.2 | 586.2 | 587.0 | 586.0 | 586.7 | 586.0 | 590.2 | 591.0 | 590.1 |
| | 10 | 585.8 | 583.1 | 581.8 | 578.1 | 572.8 | 574.5 ^a | 576.4 | 581.7 | 582.4 | 585.0 | 584.5 |
| | 11 | 589.5 | 587.5 | 583.0 | 583.5 | 587.6 | 587.7 | 584.6 | 581.8 | 582.3 | 580.9 | 583.4 |
| | 12 | 585.6 | 583.0 | 582.8 | 580.8 | 574.0 | 571.9 | 572.6 | 577.0 | 583.4 | 583.2 ^b | 583.0 |
| | 13 | 579.9 | 579.8 | 576.4 | 576.3 | 572.4 | 574.0 | 569.0 | 570.5 | 572.8 | 576.3 | 579.6 |
| | 14 | 583.8 | 584.8 | 583.3 | 581.3 | 572.8 | 565.5 | 547.5 | 556.5 | 566.5 | 566.5 | 572.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 585.4 | 586.2 | 586.2 | 585.5 | 579.5 | 554.5 | 563.5 | 569.6 | 575.0 | 574.0 | 580.0 |
| | 17 | 586.7 | 588.5 | 588.0 | 586.7 | 584.0 | 580.3 | 581.5 | 579.0 | 577.6 | 581.3 | 587.4 |
| | 18 | 591.0 | 591.7 | 592.8 | 592.6 | 591.7 | 588.8 | 586.1 | 584.8 | 589.0 | 591.5 | 594.7 |
| | 19 | 585.9 | 590.4 | 589.0 | 586.9 | 574.5 | 571.6 | 572.3 | 583.5 | 580.8 | 580.5 | 585.0 |
| | 20 | 592.0 | 578.5 | 581.9 | 580.9 | 571.2 | 572.4 | 571.8 | 580.1 | 577.8 | 558.8 | 582.5 |
| | 21 | 600.3 | 597.6 | 595.3 | 588.4 | 554.5 | 572.0 | 578.5 | 580.3 | 582.5 | 583.8 | 582.7 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 584.5 | 584.8 | 582.5 | 581.0 | 577.0 | 575.8 | 577.0 | 577.0 | 578.8 | 578.4 | 580.5 |
| | 24 | 585.8 | 585.0 | 587.4 | 586.2 | 580.9 | 579.1 | 578.1 | 579.7 | 581.2 | 583.6 | 582.9 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 568.0 | 583.5 | 582.4 | 583.2 | 576.8 | 563.7 | 569.7 | 569.7 | 566.0 | 566.0 | 577.7 |
| | 27 | 581.1 | 582.2 | 582.7 | 577.5 | 575.2 | 567.3 | 570.5 | 575.9 | 582.2 | 585.5 | 584.5 |
| | 28 | 584.9 | 580.7 | 576.7 | 581.6 | 578.0 | 569.5 | 570.5 | 576.5 | 584.0 | 588.4 | 591.0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 573.2 | 575.4 | 565.8 | 565.3 | 560.9 | 562.5 ^f | 551.6 | 552.2 | 565.3 | 571.6 | 563.2 |
| | 31 | 569.8 | 574.9 | 564.5 | 557.2 | 549.1 | 553.9 | 555.9 | 557.0 | 563.4 | 574.8 | 576.2 |
| Hourly Means | 582.59 | 582.28 | 580.84 | 579.78 | 574.56 | 571.70 | 570.65 | 573.30 | 576.13 | 577.52 | 580.56 | 579.78 |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | |
| DECEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | 43.2 | 43.0 | 43.0 | 43.6 | 43.8 | 43.9 | 44.4 | 45.2 | 46.2 | 47.2 | 47.5 |
| | 3 | 44.0 | 43.7 | 43.7 | 44.0 | 44.6 | 45.5 | 46.4 | 47.0 | 47.4 | 47.9 | 48.0 |
| | 4 | 45.4 | 45.6 | 45.6 | 45.6 | 46.5 | 47.0 | 47.5 | 47.6 | 47.8 | 47.3 | 47.8 |
| | 5 | 46.5 | 46.4 | 46.4 | 46.4 | 45.8 | 46.4 | 46.3 | 46.7 | 46.7 | 46.4 | 46.2 |
| | 6 | 47.0 | 46.6 | 46.8 | 46.0 | 45.9 | 46.4 | 46.8 | 46.8 | 46.5 | 47.0 | 47.0 |
| | 7 | 48.6 | 49.0 | 49.2 | 49.5 | 50.8 | 51.2 | 51.2 | 51.5 | 51.0 | 50.5 | 49.7 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 37.0 | 37.0 | 37.0 | 37.2 | 38.0 | 38.5 | 39.5 | 40.6 | 41.8 | 43.0 | 44.0 |
| | 10 | 42.0 | 42.2 | 41.5 | 41.0 | 41.0 | 41.5 ^a | 42.0 | 42.0 | 42.6 | 42.6 | 42.8 |
| | 11 | 42.5 | 43.0 | 43.0 | 42.6 | 42.8 | 41.1 | 43.1 | 43.8 | 44.2 | 44.6 | 45.2 |
| | 12 | 43.8 | 43.8 | 43.4 | 42.8 | 42.7 | 43.4 | 43.8 | 44.4 | 45.0 | 46.0 ^b | 46.5 |
| | 13 | 46.6 | 46.5 | 46.3 | 45.8 | 45.6 | 45.5 | 45.7 | 46.5 | 46.1 | 46.5 | 47.0 |
| | 14 | 46.6 | 46.3 | 46.0 | 45.7 | 46.0 | 46.0 | 46.0 | 46.5 | 46.5 | 46.9 | 47.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 37.5 | 37.2 | 37.0 | 37.0 | 37.0 | 37.2 | 37.5 | 38.0 | 38.7 | 39.8 | 39.8 |
| | 17 | 36.0 | 35.8 | 35.5 | 35.5 | 35.6 | 36.4 | 36.8 | 37.7 | 38.4 | 38.8 | 39.2 |
| | 18 | 34.4 | 33.7 | 33.4 | 33.2 | 33.4 | 34.4 | 34.8 | 35.0 | 35.4 | 36.0 | 37.0 |
| | 19 | 41.2 | 41.6 | 41.8 | 41.3 | 41.0 | 41.0 | 40.8 | 41.8 | 41.8 | 41.6 | 41.5 |
| | 20 | 36.8 | 36.4 | 35.8 | 35.6 | 36.0 | 36.7 | 37.4 | 37.0 | 37.0 | 37.8 | 37.8 |
| | 21 | 36.0 | 35.7 | 35.8 | 36.5 | 36.5 | 36.0 | 36.5 | 36.7 | 37.0 | 38.6 | 39.0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 41.5 | 41.4 | 41.0 | 41.2 | 40.6 | 41.0 | 40.6 | 40.8 | 41.0 | 40.0 | 39.0 |
| | 24 | 40.8 | 41.0 | 41.0 | 40.4 | 40.2 | 40.4 | 41.6 | 42.5 | 42.6 | 43.0 | 43.0 |
| | 25 ^d | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 43.6 | 43.6 | 44.4 | 44.6 | 44.6 | 45.2 | 45.7 | 46.5 | 46.5 | 47.2 | 47.5 |
| | 27 | 41.8 | 41.2 | 40.4 | 39.8 | 39.5 | 39.7 | 40.0 | 40.5 | 41.2 | 41.7 | 42.2 |
| | 28 | 37.0 | 37.0 | 36.4 | 36.2 | 36.7 | 37.6 | 38.5 | 40.0 | 40.5 | 41.0 | 41.4 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 38.7 | 39.5 | 40.0 | 40.8 | 41.4 | 41.4 ^f | 41.8 | 42.0 | 42.0 | 42.0 | 42.6 |
| | 31 | 42.5 | 42.8 | 42.8 | 43.0 | 43.0 | 43.3 | 43.5 | 43.5 | 43.5 | 44.0 | 44.5 |
| Hourly Means | 41.64 | 41.60 | 41.49 | 41.41 | 41.56 | 41.95 | 42.33 | 42.82 | 43.10 | 43.50 | 43.73 | 43.49 |

^a Ten minutes late.

^b Four minutes late.

^c Three minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 576.8 | 577.4 | 575.0 | 568.0 | 573.6 | 573.7 | 574.0 | 572.8 | 573.0 | 576.2 | 576.5 | 575.7 | 574.43 |
| 576.0 | 573.7 | 575.2 | 576.7 | 576.2 | 573.7 | 574.2 | 573.8 | 575.7 | 575.3 | 576.0 | 582.4 | 575.50 |
| 564.2 | 569.2 | 568.2 | 554.7 | 557.0 | 554.0 | 561.0 | 567.0 | 568.0 | 567.3 | 566.1 | 570.0 | 569.88 |
| 575.4 | 572.8 | 573.6 | 575.0 | 573.0 | 573.0 | 572.3 | 572.0 | 573.0 | 573.0 | 573.0 | 572.7 | 572.63 |
| 575.7 | 574.9 | 576.0 | 574.5 | 573.0 | 574.0 | 572.5 | 572.6 | 573.0 | 572.4 | 573.8 | 574.2 | 572.58 |
| 573.0 | 574.0 | 572.5 | 570.8 | 572.7 | 572.4 | — | — | — | — | — | — | 574.79 |
| — | — | — | — | — | — | 586.9 | 587.2 | 586.8 | 587.7 | 587.2 | 588.0 | — |
| 588.0 | 587.8 | 583.0 | 575.8 | 564.5 | 570.2 | 566.0 | 572.8 | 571.6 | 576.0 | 578.0 | 578.3 | 581.91 |
| 582.0 | 582.8 | 581.3 | 580.0 | 580.3 | 580.5 | 481.1 | 582.1 | 585.0 | 582.6 | 585.0 | 587.5 | 581.63 |
| 583.6 | 581.2 | 579.7 | 576.0 | 577.6 | 579.3 | 579.5 | 578.8 | 582.0 | 581.0 | 585.5 | 584.6 | 582.68 |
| 578.9 | 577.6 | 575.6 | 573.5 | 570.1 | 568.8 | 572.3 | 575.0 | 572.6 | 572.9 | 577.0 | 579.6 | 577.13 |
| 579.5 | 578.0 | 577.0 | 575.8 | 574.0 | 574.7 | 574.6 | 576.2 | 578.6 | 579.0 | 579.7 | 581.8 | 576.50 |
| 568.0 | 560.7 | 558.6 | 565.9 | 545.5 | 552.9 | — | — | — | — | — | — | 568.58 |
| — | — | — | — | — | — | 573.4 | 567.2 | 564.7 | 574.3 | 577.0 | 581.7 | — |
| 580.8 | 586.8 | 583.2 | 581.2 | 580.8 | 579.8 | 582.3 | 581.3 | 582.6 | 581.7 | 581.7 | 587.0 | 579.80 |
| 589.3 | 587.6 | 587.6 | 584.9 | 583.4 | 584.6 | 582.8 | 579.0 | 573.8 | 576.8 | 575.6 | 590.0 | 583.55 |
| 586.5 | 589.0 | 593.4 | 587.6 | 587.5 | 584.0 | 585.8 | 583.6 | 590.2 | 583.7 | 578.9 | 584.9 | 588.49 |
| 578.5 | 579.5 | 579.2 | 578.0 | 578.7 | 579.1 | 570.4 | 578.8 | 578.8 | 579.8 | 584.0 | 588.6 | 580.00 |
| 584.8 | 571.6 | 579.9 | 575.0 | 576.1 | 576.2 | 582.9 | 580.8 | 583.2 | 584.0 | 585.7 | 577.4 | 578.80 |
| 587.3 | 587.3 | 584.9 | 582.7 | 580.8 | 580.0 | — | — | — | — | — | — | 582.78 |
| — | — | — | — | — | — | 580.0 | 580.5 | 579.1 | 580.5 | 583.4 | 583.5 | — |
| 581.8 | 582.1 | 582.8 | 583.1 | 580.2 | 582.2 | 584.4 | 582.8 | 584.2 | 585.6 | 586.0 | 586.4 | 581.79 |
| 589.7 | 581.0 | 179.9 | 577.5 | 578.0 | 578.0 | — | — | — | — | — | — | 580.69 |
| — | — | — | — | — | — | 580.5 ^e | 580.0 | 580.9 | 578.0 | 573.5 | 577.5 | — |
| 578.7 | 578.1 | 578.6 | 578.0 | 574.8 | 567.3 | 558.4 | 567.4 | 670.0 | 574.8 | 578.0 | 578.6 | 573.65 |
| 580.0 | 582.0 | 575.6 | 576.0 | 577.6 | 582.3 | 581.0 | 579.2 | 580.3 | 582.4 | 583.6 | 582.5 | 579.61 |
| 587.6 | 587.8 | 585.0 | 586.8 | 585.1 | 585.0 | — | — | — | — | — | — | 579.88 |
| — | — | — | — | — | — | 573.8 | 575.4 | 568.6 | 570.0 | 571.0 | 570.2 | — |
| 566.8 | 572.5 | 568.5 | 566.0 | 571.5 | 682.0 | 578.0 | 569.1 | 570.8 | 573.1 | 566.4 | 560.3 | 567.77 |
| 575.6 | 575.0 | 576.7 | 571.5 | 569.3 | 574.2 | 572.4 | 567.4 | 570.2 | 572.5 | 573.6 | 576.0 | 568.40 |
| 579.18 | 578.82 | 578.04 | 575.80 | 574.45 | 575.28 | 576.02 | 576.11 | 576.67 | 577.62 | 578.37 | 579.98 | 577.33 |

TEMPERATURE OF THE BIFILAR MAGNET.

| ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| 46.7 | 46.5 | 46.0 | 45.4 | 45.2 | 46.0 | 45.2 | 45.2 | 45.0 | 44.7 | 44.6 | 44.4 | 45.12 |
| 47.0 | 57.4 | 47.0 | 46.0 | 45.8 | 45.6 | 46.0 | 46.0 | 45.5 | 45.3 | 45.4 | 45.3 | 45.90 |
| 47.6 | 47.8 | 47.6 | 47.0 | 47.0 | 47.0 | 47.0 | 46.5 | 46.5 | 46.6 | 46.6 | 46.6 | 46.89 |
| 46.0 | 46.0 | 45.8 | 45.8 | 46.3 | 46.7 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 46.45 |
| 46.5 | 46.2 | 46.2 | 46.7 | 47.4 | 47.5 | 47.9 | 47.9 | 48.0 | 48.0 | 48.0 | 48.4 | 47.01 |
| 49.0 | 48.6 | 48.3 | 47.4 | 46.3 | 45.6 | — | — | — | — | — | — | 46.22 |
| — | — | — | — | — | — | 36.6 | 36.8 | 37.0 | 37.4 | 37.6 | 37.2 | — |
| 43.4 | 43.4 | 43.0 | 42.4 | 42.4 | 42.6 | 42.6 | 42.0 | 41.7 | 41.5 | 41.7 | 41.7 | 41.07 |
| 42.6 | 42.2 | 42.2 | 41.8 | 41.4 | 41.5 | 41.5 | 41.4 | 41.3 | 41.4 | 41.7 | 42.0 | 41.88 |
| 45.0 | 44.5 | 44.4 | 44.1 | 44.0 | 43.7 | 43.8 | 44.0 | 44.0 | 44.0 | 44.5 | 44.5 | 43.89 |
| 46.2 | 46.0 | 45.8 | 45.6 | 45.6 | 46.2 | 46.4 | 46.4 | 46.9 | 46.9 | 46.4 | 46.4 | 45.29 |
| 47.2 | 47.2 | 47.0 | 46.6 | 46.2 | 46.4 | 46.2 | 46.6 | 46.8 | 47.0 | 47.0 | 46.8 | 46.49 |
| 46.4 | 46.0 | 45.7 | 45.2 | 45.0 | 45.2 | — | — | — | — | — | — | 44.00 |
| — | — | — | — | — | — | 38.0 | 37.8 | 37.6 | 37.7 | 37.8 | 37.7 | — |
| 39.0 | 38.4 | 38.1 | 37.8 | 37.2 | 37.0 | 36.8 | 36.5 | 36.5 | 36.4 | 36.4 | 36.4 | 37.61 |
| 38.8 | 38.4 | 38.0 | 37.3 | 37.0 | 37.2 | 37.2 | 36.8 | 36.4 | 36.0 | 35.5 | 35.0 | 37.01 |
| 39.0 | 39.2 | 40.0 | 40.7 | 41.5 | 40.8 | 41.0 | 40.8 | 40.8 | 41.0 | 41.2 | 41.0 | 37.72 |
| 40.5 | 40.4 | 39.9 | 38.0 | 38.6 | 38.8 | 38.6 | 38.4 | 37.6 | 37.2 | 37.2 | 37.0 | 39.93 |
| 36.5 | 36.7 | 36.0 | 36.4 | 36.4 | 36.6 | 37.2 | 36.9 | 37.4 | 37.3 | 37.0 | 36.0 | 36.72 |
| 40.3 | 40.6 | 40.6 | 40.5 | 40.5 | 40.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.3 | 40.3 | 40.3 | 40.7 | 41.0 | 41.5 | 38.79 |
| 39.0 | 38.2 | 38.0 | 37.8 | 38.0 | 38.7 | 38.8 | 39.4 | 39.8 | 40.2 | 40.5 | 40.6 | 39.85 |
| 44.4 | 44.4 | 44.3 | 44.4 | 44.4 | 44.4 | — | — | — | — | — | — | 42.69 |
| — | — | — | — | — | — | 42.2 ^e | 42.5 | 42.7 | 43.1 | 43.5 | 43.7 | — |
| 46.5 | 46.0 | 45.3 | 44.9 | 44.5 | 44.5 | 44.5 | 44.7 | 44.0 | 44.0 | 43.0 | 42.4 | 45.03 |
| 42.0 | 41.8 | 41.6 | 41.2 | 41.2 | 39.8 | 39.0 | 38.8 | 37.8 | 37.8 | 37.6 | 37.4 | 40.24 |
| 41.3 | 41.0 | 41.0 | 41.0 | 40.5 | 40.3 | — | — | — | — | — | — | 38.77 |
| — | — | — | — | — | — | 36.6 | 36.8 | 36.6 | 36.6 | 37.2 | 37.9 | — |
| 42.9 | 43.0 | 43.0 | 42.6 | 42.8 | 42.6 | 42.2 | 42.4 | 42.4 | 42.6 | 42.8 | 42.8 | 41.95 |
| 43.6 | 43.6 | 43.7 | 43.8 | 43.6 | 43.6 | 43.5 | 43.5 | 43.2 | 43.5 | 43.6 | 44.0 | 43.47 |
| 43.50 | 43.34 | 43.14 | 42.82 | 42.75 | 42.75 | 41.84 | 41.82 | 41.71 | 41.76 | 41.79 | 41.75 | 42.40 |

^d Christmas-day.

^e Twelve minutes late.

^f Seven minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|--------------------|--------------------|-------------------|-------|
| One Scale Division = .000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| FEBRUARY. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | |
| | 8 ^a | — | — | — | — | — | — | — | — | — | — | — ^a | 130.5 |
| | 9 | 131.6 | 133.4 | 137.7 | 132.2 | 132.5 | 136.8 | 139.0 | 137.7 | 138.9 ^b | 138.8 | 137.5 | 137.6 |
| | 10 | 139.0 | 139.0 | 139.0 | 139.0 | 138.6 | 137.1 | 137.2 | 135.7 | 135.1 | 134.9 | 136.1 | 136.4 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 135.7 | 137.2 | 138.2 | 133.7 | 133.5 | 131.9 | 130.8 ^b | 129.3 | 128.7 | 127.5 | 125.9 | 125.8 |
| | 13 | 128.3 | 128.2 | 128.3 | 127.0 | 125.3 | 124.2 | 123.1 | 123.1 | 122.2 | 122.3 | 121.8 | 123.2 |
| | 14 | 125.7 | 125.7 | 127.6 | 126.8 | 126.9 | 126.1 | 125.1 | 124.5 | 124.4 | 124.0 | 122.5 | 122.4 |
| | 15 | 128.7 | 128.1 | 129.3 | 128.4 | 127.5 | 127.5 | 127.5 | 126.2 | 126.8 | 126.7 ^c | 126.7 | 126.7 |
| | 16 | 124.2 | 124.2 | 124.8 | 124.3 | 122.8 | 121.6 | 121.6 | 120.7 | 121.2 | 121.2 | 120.7 | 120.6 |
| | 17 | 127.3 | 126.4 | 127.5 | 125.7 | 124.3 | 124.3 | 124.9 | 126.0 | 126.1 | 126.6 | 126.3 | 128.0 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 139.5 | 138.4 | 136.0 | 125.4 | 128.4 | 127.9 | 127.7 | 127.8 | 127.3 | 126.1 | 123.7 | 121.8 |
| | 20 | 125.0 | 126.5 | 125.3 | 123.0 | 120.3 | 119.6 | 118.9 | 118.9 | 118.4 | 117.7 | 116.2 | 114.6 |
| | 21 | 117.1 | 116.7 | 117.3 | 106.4 | 111.6 | 111.5 | 111.9 | 112.3 | 112.3 | 112.3 | 111.0 | 110.4 |
| | 22 | 116.2 | 117.6 | 115.9 | 114.0 | 112.7 | 110.5 ^c | 111.4 | 112.2 | 112.2 | 110.4 | 109.2 | 108.8 |
| | 23 | 115.8 | 117.5 | 119.4 | 120.2 | 120.2 | 120.2 | 120.2 | 122.5 | 123.4 | 123.7 | 123.3 | 123.3 |
| | 24 | 122.1 | 123.3 | 126.9 | 124.8 | 124.8 | 123.8 | 123.6 | 122.0 | 121.9 | 121.4 | 121.9 | 121.7 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 134.1 | 135.1 | 134.3 | 131.4 | 128.7 | 129.0 | 125.1 | 125.1 | 125.3 | 125.0 | 125.2 | 125.2 |
| | 27 | 125.4 | 125.4 | 127.7 | 124.4 | 124.8 | 124.8 | 124.8 | 125.7 | 126.4 | 126.7 | 126.7 | 125.9 |
| | 28 | 128.5 | 127.9 | 127.2 | 124.5 | 121.1 | 119.7 | 118.9 | 119.5 | 122.8 | 124.2 | 124.5 | 131.3 |
| | 29 | 124.1 | 123.4 | 124.4 | 123.5 | 122.4 | 122.2 | 122.4 | 121.1 | 120.7 | 119.9 | 120.4 | 121.6 |
| Hourly Means | 127.13 | 127.45 | 128.15 | 125.26 | 124.80 | 124.21 | 124.12 | 123.91 | 124.12 | 123.86 | 123.31 | 123.63 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| FEBRUARY. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | |
| | 8 ^a | — | — | — | — | — | — | — | — | — | — | — | 43.6 |
| | 9 | 39.2 | 39.2 | 39.1 | 38.6 | 38.0 | 38.0 | 37.9 | 37.6 | 37.7 ^b | 38.1 | 38.2 | 38.2 |
| | 10 | 37.6 | 37.6 | 37.3 | 37.4 | 37.7 | 38.1 | 38.4 | 39.0 | 39.8 | 40.0 | 40.0 | 40.2 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 38.4 | 38.4 | 38.3 | 40.0 | 39.9 | 40.6 | 41.6 ^b | 42.1 | 42.6 | 43.4 | 43.9 | 44.2 |
| | 13 | 43.1 | 43.3 | 43.2 | 43.2 | 43.4 | 44.0 | 45.1 | 45.4 | 45.4 | 45.8 | 46.0 | 45.8 |
| | 14 | 43.8 | 43.8 | 43.5 | 43.5 | 43.2 | 43.4 | 43.6 | 43.9 | 44.4 | 44.7 | 45.1 | 85.2 |
| | 15 | 41.5 | 41.5 | 41.5 | 41.2 | 41.5 | 42.1 | 42.6 | 42.9 | 43.3 | 43.3 ^c | 43.4 | 43.6 |
| | 16 | 44.8 | 44.8 | 44.8 | 44.8 | 45.0 | 45.6 | 46.0 | 46.5 | 46.5 | 46.5 | 46.8 | 47.0 |
| | 17 | 43.5 | 43.5 | 42.8 | 42.8 | 43.1 | 43.2 | 43.2 | 43.4 | 43.6 | 43.7 | 43.7 | 42.6 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 36.6 | 36.6 | 38.0 | 40.5 | 39.9 | 40.1 | 40.7 | 41.4 | 42.2 | 43.2 | 44.0 | 45.0 |
| | 20 | 43.4 | 43.4 | 43.6 | 44.6 | 46.0 | 46.6 | 47.3 | 47.8 | 48.0 | 48.5 | 48.9 | 49.1 |
| | 21 | 47.8 | 47.8 | 48.2 | 52.0 | 48.7 | 49.0 | 49.2 | 49.3 | 49.5 | 49.9 | 50.3 | 50.7 |
| | 22 | 48.3 | 48.1 | 48.1 | 48.7 | 49.1 | 49.4 ^c | 49.6 | 49.6 | 50.3 | 51.1 | 51.8 | 52.1 |
| | 23 | 48.4 | 48.0 | 47.4 | 47.2 | 46.9 | 46.9 | 46.6 | 46.2 | 45.8 | 45.6 | 45.3 | 45.5 |
| | 24 | 44.6 | 43.9 | 43.1 | 44.0 | 43.6 | 44.1 | 44.4 | 44.6 | 44.8 | 45.0 | 45.3 | 45.2 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 39.0 | 39.1 | 39.1 | 40.0 | 40.6 | 41.9 | 42.9 | 43.6 | 43.9 | 44.1 | 44.3 | 43.9 |
| | 27 | 44.0 | 43.6 | 43.4 | 44.4 | 43.6 | 43.6 | 43.6 | 43.1 | 43.3 | 43.3 | 43.6 | 44.2 |
| | 28 | 42.6 | 42.6 | 42.9 | 43.6 | 44.9 | 45.9 | 46.5 | 46.8 | 47.1 | 47.4 | 48.0 | 47.4 |
| | 29 | 46.1 | 46.1 | 46.2 | 46.5 | 46.5 | 46.9 | 47.3 | 47.5 | 47.6 | 47.8 | 47.8 | 47.9 |
| Hourly Means | 42.93 | 42.85 | 42.80 | 43.50 | 43.42 | 43.86 | 44.25 | 44.48 | 44.77 | 45.08 | 45.35 | 45.43 | |

^a Temperature experiments completed. Magnet adjusted.

^b Not included in the means.

VERTICAL FORCE.

One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 130·5 | 130·4 | 129·3 | 129·4 | 131·2 | 131·2 | 131·2 | 132·5 | 130·2 | 132·0 | 133·0 | 134·6 | — |
| 137·8 | 138·1 | 138·1 | 138·9 | 139·0 | 139·9 | 139·4 | 138·3 | 138·5 | 138·1 | 138·3 | 139·9 | 137·42 |
| 137·6 | 134·4 | 134·8 | 134·8 | 135·2 | 135·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 137·2 | 137·1 | 137·1 | 135·6 | 135·7 | 135·7 | 136·57 |
| 126·4 | 126·4 | 127·9 | 127·7 | 127·7 | 127·7 | 127·5 | 127·5 | 128·0 | 127·8 | 128·3 | 128·3 | 129·56 |
| 125·0 | 124·2 | 124·2 | 123·6 | 123·5 | 123·5 | 123·5 | 124·4 | 124·2 | 124·3 | 126·5 | 125·7 | 124·57 |
| 122·8 | 122·9 | 123·5 | 123·5 | 124·1 | 124·4 | 125·0 | 122·8 | 126·5 | 128·8 | 128·7 | 128·7 | 125·14 |
| 126·0 | 125·6 | 124·8 | 124·7 | 124·6 | 125·1 | 124·8 | 124·8 | 124·9 | 125·0 | 124·6 | 124·2 | 126·22 |
| 122·9 | 123·5 | 123·5 | 123·5 | 124·3 | 124·3 | 124·3 | 124·3 | 125·0 | 125·0 | 125·0 | 125·0 | 123·27 |
| 129·1 | 132·4 | 132·3 | 132·0 | 134·0 | 134·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 139·2 | 139·5 | 139·8 | 139·8 | 139·8 | 139·8 | 131·05 |
| 121·6 | 122·4 | 123·7 | 123·7 | 123·7 | 123·7 | 123·7 | 123·7 | 123·9 | 125·6 | 125·3 | 125·3 | 126·51 |
| 114·6 | 114·3 | 114·5 | 115·6 | 114·5 | 114·9 | 115·9 | 115·8 | 115·6 | 115·6 | 117·1 | 117·1 | 117·91 |
| 111·4 | 111·4 | 112·5 | 113·0 | 114·2 | 114·2 | 114·8 | 115·4 | 113·5 | 114·0 | 114·0 | 116·2 | 113·14 |
| 109·1 | 110·1 | 110·6 | 111·4 ^d | 111·9 | 112·1 | 113·9 | 114·8 | 115·1 | 114·5 | 114·9 | 114·9 | 112·68 |
| 120·5 | 119·9 | 119·7 | 119·9 | 120·5 | 120·4 | 120·1 | 119·3 | 118·4 | 118·5 | 118·8 | 119·0 | 120·20 |
| 121·7 | 122·2 | 122·3 | 124·3 | 124·8 | 127·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 138·5 | 136·9 | 136·9 | 135·2 | 135·2 | 135·1 | 126·61 |
| 125·2 | 124·3 | 124·8 | 125·3 | 125·9 | 125·7 | 125·7 | 125·5 | 125·5 | 126·1 | 125·7 | 125·4 | 126·90 |
| 124·9 | 125·1 | 125·9 | 126·6 | 127·8 | 126·8 | 126·9 | 127·6 | 128·0 | 128·6 | 128·7 | 128·0 | 126·40 |
| 130·3 | 126·0 | 125·0 | 126·7 | 127·7 | 125·1 | 122·9 | 120·2 | 120·5 | 120·5 | 122·5 | 122·5 | 124·17 |
| 120·9 | 120·2 | 115·8 | 118·0 | 120·2 | 115·8 | 114·8 | 115·8 | 115·6 | 115·6 | 115·4 | 115·4 | 119·57 |
| 123·77 | 123·52 | 123·55 | 124·07 | 124·64 | 124·47 | 125·45 | 125·21 | 125·39 | 125·48 | 125·80 | 125·90 | 124·88 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 43·5 | 43·3 | 43·2 | 43·2 | 43·4 | 43·0 | 42·6 | 42·5 | 41·8 | 41·4 | 40·8 | 39·3 | — |
| 38·0 | 38·0 | 37·8 | 37·7 | 36·6 | 36·8 | 37·0 | 37·1 | 37·3 | 37·3 | 37·3 | 37·3 | 37·83 |
| 40·4 | 40·8 | 40·2 | 40·0 | 39·6 | 39·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39·1 | 38·7 | 38·7 | 38·9 | 38·9 | 38·4 | 39·01 |
| 44·0 | 43·6 | 43·2 | 43·4 | 43·2 | 43·4 | 43·6 | 43·3 | 43·0 | 42·6 | 42·6 | 43·1 | 42·18 |
| 45·5 | 45·5 | 45·6 | 45·6 | 45·8 | 45·6 | 45·4 | 45·0 | 44·6 | 44·6 | 44·5 | 44·3 | 44·82 |
| 45·0 | 44·9 | 44·5 | 44·2 | 43·8 | 43·5 | 43·0 | 42·6 | 42·0 | 41·8 | 41·9 | 41·5 | 43·62 |
| 43·6 | 43·8 | 44·2 | 44·4 | 44·6 | 44·7 | 44·7 | 44·2 | 44·2 | 44·3 | 44·4 | 44·6 | 43·34 |
| 46·8 | 46·7 | 46·4 | 46·1 | 45·6 | 45·4 | 45·0 | 44·8 | 44·2 | 44·0 | 43·8 | 43·5 | 45·47 |
| 41·6 | 41·0 | 40·7 | 40·6 | 40·5 | 40·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 35·8 | 36·0 | 36·0 | 36·3 | 36·3 | 36·6 | 40·86 |
| 45·0 | 45·2 | 44·7 | 44·0 | 43·8 | 43·6 | 43·3 | 43·0 | 43·0 | 43·2 | 43·6 | 43·8 | 42·27 |
| 49·2 | 49·3 | 49·0 | 48·8 | 48·8 | 49·0 | 49·0 | 49·0 | 49·0 | 48·6 | 48·7 | 48·2 | 47·66 |
| 50·3 | 50·5 | 50·5 | 50·3 | 49·6 | 48·9 | 49·8 | 49·0 | 48·6 | 48·4 | 48·4 | 48·4 | 49·38 |
| 51·9 | 51·7 | 51·1 | 50·3 ^d | 50·0 | 49·3 | 49·7 | 49·2 | 48·8 | 48·6 | 48·6 | 48·5 | 49·75 |
| 46·6 | 46·8 | 47·0 | 47·1 | 47·1 | 47·1 | 47·1 | 47·1 | 47·1 | 46·6 | 46·4 | 46·4 | 46·76 |
| 45·5 | 45·8 | 45·2 | 44·5 | 43·8 | 43·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38·5 | 38·5 | 38·8 | 38·6 | 38·4 | 38·9 | 43·01 |
| 44·1 | 44·2 | 44·1 | 44·0 | 44·0 | 44·0 | 44·0 | 44·2 | 44·4 | 44·5 | 44·5 | 44·4 | 43·03 |
| 44·4 | 44·4 | 44·0 | 43·8 | 43·6 | 43·8 | 43·7 | 43·0 | 42·7 | 42·6 | 42·6 | 42·6 | 43·54 |
| 47·2 | 46·8 | 46·6 | 46·2 | 46·1 | 46·9 | 47·1 | 47·1 | 46·9 | 46·8 | 46·6 | 46·2 | 46·09 |
| 48·1 | 48·6 | 51·5 | 50·8 | 49·6 | 49·2 | 49·4 | 49·6 | 50·2 | 50·4 | 50·5 | 50·0 | 48·42 |
| 45·40 | 45·42 | 45·35 | 45·10 | 44·78 | 44·67 | 44·18 | 43·97 | 43·86 | 43·78 | 43·78 | 43·71 | 44·28 |

^c Five minutes late.

^d Three minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|------------------|-------------------|--------------------|--------------------|
| One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 115·4 | 115·4 | 116·2 | 115·6 | 114·3 | 113·2 | 113·2 | 113·2 | 113·2 | 112·9 | 112·8 | |
| | 2 | 107·0 | 107·0 | 106·1 | 106·1 | 111·1 | 109·8 | 111·2 | 112·8 | 112·7 | 114·8 | 127·8 | |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | |
| | 4 | 131·9 | 136·5 | 135·7 | 133·9 | 131·2 | 133·2 | 131·2 | 130·9 | 134·9 | 133·8 | 133·8 | 130·7 |
| | 5 | 130·1 | 134·1 | 134·8 | 136·4 | 130·9 ^a | 126·3 | 125·8 | 127·2 | 130·3 | 130·2 | 131·7 | 136·9 |
| | 6 | 117·9 | 122·6 | 121·9 | 119·0 | 116·7 | 117·4 | 117·7 | 117·3 | 117·7 | 120·2 | 119·0 | 120·1 |
| | 7 | 121·8 | 121·8 | 119·8 | 122·1 | 119·6 | 120·1 | 121·1 | 125·2 | 120·4 | 125·1 | 123·0 | 123·5 |
| | 8 | 120·8 | 120·4 | 120·2 | 120·5 | 117·5 | 116·3 | 116·3 | 116·8 | 116·4 | 118·0 | 120·8 | 120·9 |
| | 9 | 116·4 | 116·4 | 118·6 | 117·7 | 117·1 | 117·1 | 117·9 | 122·1 | 121·0 | 120·5 | 120·5 | 121·1 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 127·3 | 128·4 | 128·3 | 125·7 | 122·3 | 119·6 | 118·5 | 117·5 | 116·9 | 117·6 | 117·6 | 117·8 |
| | 12 | 119·7 | 119·2 | 118·4 | 118·3 | 115·2 | 115·9 ^c | 117·4 | 118·0 | 119·5 | 119·2 | 119·5 | 119·5 |
| | 13 | 116·0 | 115·9 | 117·0 | 116·2 | 114·5 | 112·8 | 113·9 | 113·9 | 113·9 | 113·9 | 112·6 | 113·2 |
| | 14 | 119·5 | 122·6 | 122·5 | 122·2 | 122·9 | 119·4 ^d | 119·9 | 120·2 | 120·5 | 119·4 | 119·4 | 118·2 |
| | 15 | 125·6 | 127·0 | 128·0 | 127·2 | 126·2 | 124·8 | 124·8 | 124·7 | 123·4 | 123·3 | 123·3 ^a | 123·3 |
| | 16 | 118·4 | 119·9 | 121·0 | 121·3 | 120·5 | 118·9 | 118·9 | 118·4 | 118·4 | 118·4 | 117·5 | 117·8 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 134·4 | 133·9 | 133·4 | 132·3 | 130·4 | 130·2 | 130·4 | 130·9 | 131·7 | 133·5 | 136·9 | 137·7 ^e |
| | 19 | 134·6 | 137·6 | 135·4 | 134·4 | 132·9 | 134·7 | 134·7 | 134·5 | 134·5 | 134·5 | 134·5 | 133·9 |
| | 20 | 132·3 | 131·4 | 131·6 | 131·7 | 129·2 | 126·8 | 125·6 | 126·1 | 126·8 | 126·8 | 128·8 | 130·4 |
| | 21 | 127·7 | 129·4 | 126·6 | 125·3 | 122·6 | 121·8 | 122·2 | 122·9 | 121·2 | 122·0 | 123·5 | 124·9 |
| | 22 | 128·8 | 129·8 | 130·3 | 129·8 | 129·3 | 126·2 | 125·4 | 125·4 | 125·9 | 124·2 | 125·4 | 125·4 |
| | 23 | 133·6 | 135·0 | 133·2 | 131·2 | 129·5 | 128·2 | 127·3 | 127·3 | 123·3 | 123·6 | 124·3 | 124·3 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 124·4 | 124·2 | 123·2 | 121·5 | 119·1 | 116·9 | 115·5 | 116·1 | 116·9 | 116·2 | 114·7 | 114·7 |
| | 26 | 119·0 | 119·0 | 119·2 | 119·1 | 117·1 | 114·6 | 113·7 | 112·5 | 111·1 | 110·3 | 110·9 | 111·1 ^f |
| | 27 | 116·4 | 118·4 | 119·3 | 119·3 | 117·5 | 116·0 | 117·2 | 119·5 | 121·8 | 123·7 | 122·0 | 124·0 |
| | 28 | 119·4 | 119·1 | 119·6 | 118·1 | 116·4 | 115·4 | 116·3 | 117·5 | 118·8 | 118·4 | 118·0 | 116·8 |
| | 29 | 110·8 | 118·2 | 118·0 | 116·6 | 115·0 | 120·0 | 119·4 | 118·0 | 118·0 | 121·0 | 125·7 | 140·1 |
| | 30 | 94·6 | 111·5 | 118·2 | 123·9 | 128·6 | 127·7 | 128·6 | 134·8 | 140·5 | 143·0 | 138·8 | 133·5 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 121·68 | 123·64 | 123·71 | 123·28 | 121·83 | 120·90 | 120·93 | 121·68 | 121·91 | 122·49 | 123·19 | 123·90 | |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------|-------------------|
| MARCH. | 1 | 49·6 | 49·6 | 49·6 | 49·6 | 49·5 | 49·6 | 49·8 | 50·0 | 50·2 | 50·5 | 50·8 |
| | 2 | 50·8 | 50·8 | 50·3 | 49·9 | 49·7 | 50·3 | 50·6 | 50·8 | 50·5 | 50·8 | 51·5 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 40·7 | 40·0 | 40·0 | 40·0 | 40·6 | 40·9 | 41·1 | 42·0 | 41·8 | 42·2 | 42·4 |
| | 5 | 39·7 | 39·2 | 39·0 | 39·8 | 40·6 ^a | 41·6 | 42·0 | 42·6 | 43·6 | 44·5 | 45·1 |
| | 6 | 45·0 | 45·0 | 44·7 | 45·0 | 46·6 | 47·6 | 48·1 | 48·4 | 48·8 | 48·8 | 49·0 |
| | 7 | 46·9 | 46·6 | 46·9 | 47·0 | 47·4 | 47·9 | 48·5 | 48·8 | 49·4 | 49·5 | 49·8 |
| | 8 | 47·8 | 47·6 | 47·6 | 47·6 | 48·0 | 48·6 | 48·8 | 49·2 | 49·7 | 50·0 | 50·4 |
| | 9 | 50·1 | 49·5 | 49·5 | 49·2 | 49·2 | 49·2 | 49·2 | 49·4 | 49·6 | 49·9 | 49·8 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 44·6 | 44·6 | 44·6 | 45·6 | 46·6 | 47·6 | 48·2 | 49·0 | 50·0 | 51·5 | 52·5 |
| | 12 | 49·6 | 49·2 | 49·0 | 49·0 | 49·2 | 50·0 ^c | 50·0 | 50·2 | 50·0 | 50·2 | 50·8 |
| | 13 | 50·8 | 50·8 | 50·5 | 50·5 | 50·8 | 51·3 | 51·6 | 51·8 | 51·8 | 51·9 | 52·1 |
| | 14 | 48·4 | 47·4 | 47·0 | 46·6 | 46·6 | 47·0 ^d | 47·4 | 47·4 | 47·4 | 47·8 | 48·2 |
| | 15 | 44·6 | 44·6 | 44·6 | 44·6 | 44·6 | 44·6 | 45·0 | 45·5 | 45·8 | 46·0 | 46·0 ^a |
| | 16 | 48·4 | 48·0 | 47·8 | 47·6 | 47·6 | 47·6 | 47·6 | 48·4 | 48·4 | 48·6 | 48·6 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 40·8 | 40·8 | 40·8 | 41·0 | 41·2 | 41·3 | 41·4 | 41·4 | 41·3 | 40·6 | 40·0 |
| | 19 | 36·9 | 36·4 | 36·4 | 37·2 | 37·6 | 38·2 | 39·0 | 39·8 | 40·0 | 40·2 | 40·6 |
| | 20 | 42·5 | 42·9 | 42·6 | 42·6 | 43·0 | 43·7 | 44·2 | 44·4 | 44·4 | 44·4 | 44·3 |
| | 21 | 44·6 | 44·0 | 44·9 | 45·3 | 45·9 | 46·2 | 46·4 | 46·6 | 47·0 | 47·1 | 47·3 |
| | 22 | 43·4 | 42·8 | 42·8 | 42·6 | 43·0 | 43·6 | 44·5 | 45·0 | 45·2 | 45·7 | 46·3 |
| | 23 | 41·4 | 41·0 | 41·7 | 42·0 | 42·6 | 43·2 | 43·6 | 44·2 | 44·4 | 44·8 | 45·2 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 46·0 | 46·0 | 46·0 | 46·6 | 47·4 | 47·7 | 48·0 | 48·1 | 48·5 | 49·2 | 49·8 |
| | 26 | 48·2 | 48·0 | 48·0 | 48·5 | 48·6 | 49·2 | 50·2 | 50·1 | 51·3 | 51·8 | 52·0 |
| | 27 | 51·0 | 49·8 | 48·6 | 48·6 | 48·0 | 47·6 | 47·6 | 47·4 | 47·0 | 47·0 | 46·7 |
| | 28 | 46·8 | 47·0 | 47·6 | 47·6 | 47·6 | 47·6 | 47·6 | 47·9 | 48·3 | 48·5 | 48·9 |
| | 29 | 46·4 | 45·8 | 45·6 | 46·0 | 46·4 | 46·6 | 47·0 | 47·4 | 47·6 | 47·6 | 47·6 |
| | 30 | 44·6 | 44·1 | 43·6 | 43·7 | 43·7 | 43·7 | 43·9 | 44·5 | 43·9 | 43·8 | 43·5 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 45·75 | 45·44 | 45·37 | 45·53 | 45·85 | 46·25 | 46·59 | 46·93 | 47·15 | 47·42 | 47·65 | |

^a Two minutes late.

^b Thirty-eight minutes late.

^c Three minutes late.

^d Nine minutes late.

VERTICAL FORCE.

One Scale Division = .000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------------|
| Sc. Div. 113.8 | Sc. Div. 113.8 | Sc. Div. 114.4 | Sc. Div. 114.4 | Sc. Div. 114.4 | Sc. Div. 114.4 | Sc. Div. 114.4 | Sc. Div. 114.4 | Sc. Div. 112.3 | Sc. Div. 109.9 | Sc. Div. 105.8 | Sc. Div. 107.0 | Sc. Div. 113.23 |
| 125.8 | 124.4 | 118.8 | 122.8 | 115.1 | 120.1 | — | — | — | — | — | — | 118.65 |
| — | — | — | — | — | — | 130.4 | 130.5 | 124.5 | 121.2 | 128.5 | 130.5 | 130.10 |
| 132.3 | 132.0 | 132.3 | 129.4 | 126.7 | 127.6 | 120.5 | 124.4 | 126.9 | 120.8 | 126.1 | 125.7 | 131.65 |
| 136.9 | 135.9 | 138.8 | 139.2 | 139.0 | 134.7 | 128.5 | 127.3 | 127.4 | 127.9 | 126.5 | 122.9 | 116.16 |
| 122.7 | 126.3 | 125.4 | 124.6 | 120.1 | 96.0 | 85.3 | 98.4 | 109.9 | 114.5 | 115.0 | 121.8 | 117.13 |
| 121.9 | 123.2 | 120.2 | 115.9 | 107.8 | 112.2 | 101.2 | 104.0 | 104.5 | 105.4 | 112.4 | 118.8 | 116.43 |
| 119.1 | 118.6 | 114.8 | 113.1 | 115.7 | 112.2 | 110.1 | 109.4 | 114.3 | 113.5 | 114.3 | 114.3 | — |
| 121.4 | 121.7 | 122.7 | 121.9 | 122.0 | 118.0 | — | — | — | — | — | — | 120.60 |
| — | — | — | — | — | — | 122.4 ^b | 119.2 | 125.5 | 122.8 | 125.7 | 124.8 | — |
| 117.3 | 117.3 | 117.9 | 118.3 | 118.3 | 118.6 | 119.1 | 119.1 | 119.2 | 119.6 | 120.1 | 120.1 | 120.10 |
| 120.0 | 119.7 | 119.7 | 118.8 | 118.8 | 115.1 | 115.8 | 116.2 | 115.3 | 116.0 | 116.5 | 115.8 | 117.81 |
| 111.8 | 111.4 | 112.6 | 113.3 | 114.7 | 114.7 | 115.0 | 115.0 | 115.0 | 116.7 | 116.7 | 116.4 | 114.46 |
| 120.2 | 121.3 | 122.1 | 122.1 | 122.7 | 122.7 | 122.7 | 123.5 | 124.0 | 122.3 | 124.1 | 124.8 | 121.63 |
| 123.3 | 123.0 | 122.5 | 121.8 | 122.0 | 121.9 | 120.3 | 120.3 | 119.4 | 119.1 | 118.1 | 118.5 | 122.99 |
| 118.9 | 119.4 | 119.8 | 119.8 | 119.6 | 119.6 | — | — | — | — | — | — | 121.06 |
| — | — | — | — | — | — | 127.1 | 125.6 | 127.3 | 123.9 | 124.6 | 130.5 | — |
| 137.7 | 138.1 | 136.4 | 136.4 | 136.7 | 131.0 | 137.8 | 139.6 | 137.5 | 136.1 | 127.7 | 124.9 ^f | 133.98 |
| 134.6 | 134.7 | 134.0 | 132.7 | 134.7 | 130.8 | 124.9 | 126.8 | 131.3 | 133.5 | 132.3 | 133.0 | 133.31 |
| 129.9 | 128.4 | 127.2 | 126.4 | 125.9 | 126.9 | 125.3 | 123.1 | 125.3 | 124.8 | 124.0 | 126.4 | 127.55 |
| 124.9 | 126.4 | 127.3 | 128.4 | 129.6 | 128.8 | 129.5 | 130.2 | 129.3 | 128.8 | 128.8 | 128.8 | 126.29 |
| 123.6 | 123.7 | 123.0 | 123.1 | 126.1 | 124.6 | 126.3 | 126.7 | 128.3 | 130.4 | 131.6 | 132.1 | 126.89 |
| 128.3 | 125.8 | 125.8 | 125.8 | 126.6 | 127.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 127.9 | 127.1 | 124.6 | 124.6 | 124.4 | 124.4 | 127.23 |
| 113.0 | 113.0 | 114.3 | 114.3 | 116.6 | 117.4 | 117.4 | 117.6 | 118.1 | 118.1 | 118.1 | 118.1 | 117.48 |
| 111.1 | 111.5 | 111.8 | 111.8 | 112.6 | 113.3 | 114.0 | 114.3 | 114.0 | 114.4 | 113.9 | 114.7 | 113.96 |
| 125.0 | 127.8 | 127.8 | 126.1 | 125.4 | 125.4 | 124.9 | 120.3 | 120.3 | 120.5 | 120.9 | 119.9 | 121.64 |
| 116.0 | 116.0 | 116.0 | 116.7 | 116.8 | 118.8 | 115.8 | 115.8 ^h | 112.0 | 109.7 | 109.7 | 102.9 | 115.83 |
| 147.4 | 162.1 | 116.1 | 111.9 | 110.3 | 110.9 | 37.3 | 92.4 | 83.0 | 75.1 | 97.8 | 94.4 | 111.65 |
| 128.4 | 132.0 | 137.8 | 128.0 | 133.4 | 128.3 | — | — | — | — | — | — | 129.67 |
| — | — | — | — | — | — | 128.0 | 128.0 | 138.0 | 136.5 | 135.0 | 135.0 | — |
| 124.05 | 124.90 | 123.06 | 122.20 | 121.98 | 120.44 | 117.00 | 119.58 | 120.28 | 119.47 | 120.72 | 121.02 | 121.83 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------------------|-------|
| 50.8 | 50.8 | 50.8 | 50.6 | 50.5 | 50.3 | 50.3 | 50.3 | 50.8 | 51.0 | 50.8 | 50.8 | 50.30 |
| 50.9 | 50.5 | 50.4 | 49.8 | 49.3 | 49.5 | — | — | — | — | — | — | 48.32 |
| — | — | — | — | — | — | 42.8 | 42.2 | 41.8 | 42.0 | 42.0 | 41.5 | — |
| 42.8 | 42.6 | 42.4 | 42.4 | 43.0 | 43.1 | 42.8 | 40.8 | 40.2 | 40.1 | 40.2 | 40.2 | 41.46 |
| 45.1 | 45.2 | 45.0 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 45.0 | 45.2 | 45.2 | 45.4 | 43.46 |
| 48.6 | 48.3 | 48.0 | 48.0 | 47.8 | 47.6 | 48.0 | 48.6 | 48.8 | 48.4 | 47.6 | 46.9 | 47.60 |
| 50.5 | 50.8 | 50.8 | 50.5 | 50.6 | 50.5 | 49.7 | 49.5 | 49.4 | 48.6 | 48.0 | 48.0 | 48.99 |
| 50.5 | 50.5 | 51.1 | 51.1 | 51.2 | 51.1 | 50.9 | 50.9 | 50.8 | 50.8 | 50.6 | 50.3 | 49.78 |
| 49.5 | 49.5 | 49.5 | 50.0 | 49.7 | 48.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.6 ^b | 45.6 | 45.1 | 44.6 | 44.6 | 44.4 | 48.39 |
| 52.4 | 52.2 | 51.3 | 50.3 | 49.6 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.10 |
| 51.2 | 51.8 | 51.5 | 50.8 | 51.1 | 51.1 | 51.1 | 51.3 | 51.4 | 51.7 | 51.4 | 51.1 | 50.56 |
| 52.1 | 51.8 | 51.8 | 51.5 | 51.1 | 50.9 | 50.5 | 49.7 | 49.1 | 50.0 | 49.5 | 49.5 | 50.98 |
| 48.3 | 48.1 | 47.8 | 47.4 | 47.2 | 47.0 | 46.6 | 46.2 | 46.5 | 45.8 | 45.0 | 45.0 | 47.11 |
| 45.7 | 46.0 | 46.3 | 46.8 | 47.0 | 47.2 | 47.5 | 47.6 | 47.8 | 48.0 | 48.4 | 48.4 | 46.18 |
| 48.4 | 48.0 | 48.0 | 47.8 | 47.4 | 47.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.2 | 43.4 | 42.4 | 42.0 | 41.6 | 41.1 | 46.60 |
| 37.5 | 37.4 | 37.6 | 37.6 | 37.0 | 36.5 | 36.5 | 37.0 | 36.9 | 36.8 | 37.2 | 36.9 ^f | 38.95 |
| 40.6 | 40.6 | 40.8 | 41.2 | 41.4 | 41.3 | 41.6 | 41.4 | 41.6 | 41.6 | 42.0 | 42.3 | 39.97 |
| 43.8 | 44.4 | 44.7 | 45.1 | 45.1 | 45.0 | 44.8 | 45.1 | 45.2 | 45.1 | 45.1 | 44.8 | 44.22 |
| 46.4 | 45.6 | 45.2 | 44.6 | 44.3 | 43.6 | 43.6 | 43.0 | 43.0 | 43.0 | 43.6 | 43.0 | 45.04 |
| 46.6 | 47.0 | 47.0 | 46.4 | 45.6 | 45.2 | 44.6 | 44.2 | 43.2 | 42.2 | 41.8 | 41.6 | 44.45 |
| 45.2 | 45.2 | 45.2 | 44.8 | 44.6 | 44.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.2 | 44.4 | 45.0 | 45.0 | 45.4 | 45.6 | 44.10 |
| 51.3 | 51.1 | 50.8 | 50.3 | 50.1 | 49.3 | 49.3 | 49.3 | 48.9 | 48.6 | 48.4 | 48.4 | 48.74 |
| 51.7 | 51.3 | 51.3 | 51.3 | 50.7 | 50.5 | 50.3 | 50.3 | 50.4 | 50.3 | 50.3 | 49.8 | 50.26 |
| 46.3 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 45.8 | 46.2 | 46.2 | 46.4 | 46.6 | 46.6 | 47.08 |
| 49.5 | 49.5 | 49.5 | 50.0 | 50.2 | 49.8 | 49.2 | 48.3 ^h | 48.3 | 48.0 | 47.6 | 47.6 | 48.43 |
| 47.4 | 47.4 | 49.1 | 48.7 | 48.4 | 47.3 | 47.2 | 46.6 | 45.9 | 45.4 | 45.2 | 44.6 | 46.87 |
| 43.4 | 42.7 | 42.6 | 42.2 | 42.0 | 42.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.0 | 39.6 | 39.1 | 39.0 | 39.1 | 39.0 | 42.38 |
| 47.56 | 47.47 | 47.48 | 47.31 | 47.14 | 46.88 | 46.20 | 45.98 | 45.85 | 45.73 | 45.63 | 45.47 | 46.51 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = .000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah°. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. } 0 ^h . 1 ^h . 2 ^h . 3 ^h . 4 ^h . 5 ^h . 6 ^h . 7 ^h . 8 ^h . 9 ^h . 10 ^h . 11 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| APRIL. | 1 | 136.1 | 137.1 | 134.0 | 131.8 | 131.8 | 127.9 | 125.2 | 129.8 | 129.2 | 130.2 | 132.9 | 131.5 |
| | 2 | 120.2 | 127.1 | 125.7 | 121.6 | 118.9 | 117.4 | 116.1 | 117.0 | 118.8 | 119.7 | 116.7 | 116.7 |
| | 3 | 112.9 | 117.2 | 115.4 | 113.0 | 110.5 | 110.2 | 111.2 | 113.8 | 111.0 | 107.8 | 104.3 | 103.7 |
| | 4 | 96.9 | 99.7 | 102.9 | 101.9 | 101.7 | 100.9 | 99.2 | 99.5 | 99.9 | 100.3 | 100.3 | 102.5 |
| | 5 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 117.3 | 118.1 | 118.3 | 118.2 | 118.9 | 119.4 | 119.4 | 119.8 | 119.8 | 120.1 | 122.2 | 120.7 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 115.6 | 114.5 | 113.2 | 111.9 | 111.9 | 110.7 | 110.2 | 109.0 | 107.1 | 105.2 | 102.6 | 102.2 |
| | 9 | 101.5 | 100.3 | 104.3 | 102.6 | 100.3 | 98.9 | 97.1 | 96.2 | 95.6 | 94.1 | 93.4 | 93.0 |
| | 10 | 97.0 | 98.7 | 98.3 | 96.3 | 93.3 | 92.2 | 90.1 | 89.0 | 90.1 | 90.3 | 90.1 | 89.1 |
| | 11 | 97.9 | 100.1 | 99.0 | 99.4 | 98.2 | 97.6 | 96.6 | 95.4 | 95.4 | 95.3 | 94.2 | 93.1 |
| | 12 | 98.0 | 97.1 | 94.8 | 92.9 | 91.9 | 89.2 | 85.8 | 85.0 | 85.3 | 85.3 | 85.3 | 86.2 |
| | 13 | 93.8 | 93.8 | 91.3 | 88.7 | 87.5 | 86.6 | 85.3 | 84.4 | 83.1 | 81.6 | 80.5 | 79.4 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 88.6 | 87.5 | 87.5 | 87.8 | 86.9 | 85.5 | 84.5 | 86.2 | 87.9 | 89.4 | 90.7 | 91.2 |
| | 16 | 94.4 | 94.4 | 95.5 | 94.5 | 94.5 | 94.5 | 93.3 | 91.8 | 91.8 | 91.6 | 91.7 | 92.6 |
| | 17 | 1.3 | 4.6 | 69.7 | 88.2 | 94.0 | 99.8 | 108.5 | 119.1 | 122.0 | 118.3 | 117.7 | 119.5 |
| | 18 | 111.6 | 111.6 | 109.4 | 105.7 | 103.4 | 101.4 | 99.8 | 101.0 | 101.3 | 101.2 | 99.9 | 104.9 |
| | 19 | 112.1 | 109.5 | 108.5 | 105.0 | 102.9 | 100.8 | 100.8 | 100.8 | 100.7 | 100.0 | 99.8 | 99.8 |
| | 20 | 106.3 | 104.7 | 101.9 | 100.5 | 99.6 | 98.7 | 98.1 | 96.3 | 96.3 | 95.5 | 94.9 | 95.2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 100.0 | 98.9 | 99.4 | 99.3 | 97.7 | 97.7 | 98.1 | 98.8 | 100.5 | 99.8 | 99.2 | 99.2 |
| | 23 | 99.8 | 98.9 | 98.4 | 99.1 | 99.1 | 98.6 | 96.9 | 96.4 | 96.4 | 94.9 | 94.9 | 94.9 |
| | 24 | 95.9 | 94.9 | 93.7 | 93.5 | 91.9 | 90.2 | 87.3 | 85.0 | 85.4 | 85.0 | 85.0 | 84.7 |
| | 25 | 90.1 | 86.6 | 84.1 | 80.9 | 79.0 | 81.5 | 82.5 | 85.7 | 94.5 | 91.2 | 90.3 | 96.4 |
| | 26 | 78.8 | 70.1 | 83.0 | 89.5 | 89.5 | 91.2 | 94.9 | 96.8 | 97.7 | 98.2 | 98.2 | 99.4 |
| | 27 | 103.7 | 103.7 | 105.3 | 103.9 | 104.3 | 102.2 | 103.0 | 104.8 | 104.4 | 106.9 | 104.3 | 107.6 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 107.6 | 104.5 | 101.3 | 97.9 | 96.4 | 97.0 | 98.5 | 100.5 | 99.2 | 99.0 | 96.1 | 98.5 |
| | 30 | 98.3 | 96.9 | 97.3 | 94.7 | 93.6 | 92.5 | 94.5 | 95.5 | 94.4 | 94.6 | 95.2 | 95.7 |
| Hourly Means | 99.03 | 98.82 | 101.29 | 100.75 | 99.91 | 99.30 | 99.08 | 99.90 | 100.31 | 99.82 | 99.22 | 99.91 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| APRIL. | 1 | 39.1 | 39.1 | 40.3 | 41.6 | 42.6 | 43.4 | 43.9 | 44.6 | 45.3 | 45.4 | 45.8 | 46.4 |
| | 2 | 45.0 | 45.0 | 45.8 | 47.0 | 48.4 | 49.3 | 49.9 | 50.6 | 51.0 | 51.2 | 51.6 | 51.9 |
| | 3 | 49.8 | 49.6 | 49.8 | 51.1 | 51.4 | 52.1 | 52.5 | 53.3 | 54.2 | 55.2 | 56.3 | 57.3 |
| | 4 | 56.5 | 56.3 | 56.5 | 57.1 | 57.3 | 57.6 | 57.8 | 58.1 | 58.3 | 58.5 | 58.7 | 58.5 |
| | 5 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 49.7 | 49.3 | 49.6 | 49.2 | 49.2 | 49.2 | 49.2 | 49.1 | 48.7 | 48.8 | 49.0 | 48.8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 49.5 | 49.9 | 50.0 | 50.7 | 50.7 | 51.2 | 51.9 | 52.1 | 52.8 | 54.0 | 55.2 | 56.0 |
| | 9 | 54.3 | 54.3 | 55.1 | 55.5 | 56.3 | 56.8 | 57.3 | 57.8 | 58.2 | 59.0 | 59.1 | 59.6 |
| | 10 | 55.3 | 55.3 | 56.0 | 57.0 | 57.8 | 58.3 | 58.7 | 59.3 | 59.3 | 60.0 | 61.0 | 61.6 |
| | 11 | 57.2 | 57.0 | 57.2 | 57.2 | 57.3 | 57.8 | 58.0 | 58.3 | 58.6 | 59.2 | 59.8 | 59.1 |
| | 12 | 57.2 | 57.2 | 58.2 | 59.0 | 59.8 | 60.2 | 60.7 | 60.7 | 61.3 | 61.9 | 62.4 | 63.2 |
| | 13 | 59.0 | 59.2 | 59.4 | 60.2 | 61.0 | 62.0 | 62.5 | 63.3 | 63.8 | 64.4 | 65.2 | 65.8 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 61.6 | 61.6 | 61.4 | 61.4 | 61.4 | 61.6 | 62.2 | 61.9 | 61.9 | 61.9 | 61.9 | 61.7 |
| | 16 | 59.0 | 59.0 | 58.8 | 58.8 | 58.8 | 58.8 | 59.2 | 59.6 | 59.8 | 60.0 | 60.0 | 60.0 |
| | 17 | 57.3 | 56.6 | 56.6 | 55.9 | 55.6 | 56.1 | 56.5 | 56.4 | 56.7 | 57.5 | 58.1 | 58.1 |
| | 18 | 50.3 | 50.5 | 51.5 | 53.0 | 53.8 | 54.3 | 54.8 | 54.8 | 55.2 | 55.6 | 56.1 | 56.3 |
| | 19 | 50.8 | 51.5 | 52.3 | 53.3 | 54.0 | 54.8 | 55.2 | 55.7 | 56.5 | 57.2 | 57.3 | 57.5 |
| | 20 | 53.8 | 54.0 | 55.0 | 55.8 | 56.6 | 57.3 | 58.2 | 59.3 | 59.6 | 59.6 | 59.6 | 59.4 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 56.2 | 56.2 | 56.1 | 56.2 | 56.2 | 56.3 | 56.3 | 56.4 | 56.3 | 56.7 | 57.0 | 57.1 |
| | 23 | 55.6 | 55.6 | 55.6 | 56.2 | 56.3 | 56.7 | 57.4 | 58.0 | 58.6 | 59.0 | 59.4 | 59.3 |
| | 24 | 58.3 | 58.6 | 59.0 | 59.2 | 59.8 | 60.2 | 61.0 | 61.6 | 62.3 | 62.9 | 63.6 | 63.6 |
| | 25 | 59.6 | 60.4 | 60.6 | 61.1 | 61.4 | 61.6 | 61.8 | 61.8 | 62.0 | 62.1 | 62.0 | 61.8 |
| | 26 | 59.0 | 59.0 | 59.0 | 59.0 | 58.6 | 58.3 | 58.3 | 58.1 | 58.1 | 58.1 | 57.9 | 57.3 |
| | 27 | 53.6 | 53.2 | 53.3 | 53.8 | 54.4 | 55.0 | 55.3 | 55.1 | 55.3 | 56.1 | 56.2 | 56.1 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 52.3 | 52.9 | 54.1 | 55.0 | 55.7 | 56.5 | 56.8 | 57.3 | 57.7 | 58.4 | 59.2 | 59.6 |
| | 30 | 54.8 | 55.5 | 56.0 | 56.6 | 57.1 | 57.7 | 58.6 | 58.8 | 59.3 | 59.4 | 59.6 | 59.6 |
| Hourly Means | 54.19 | 54.27 | 54.69 | 55.24 | 55.66 | 56.12 | 56.56 | 56.88 | 57.23 | 57.68 | 58.08 | 58.22 | |

^a Good Friday.

| VERTICAL FORCE. | | | | | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|--------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| One Scale Division = '000062 parts of the V. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fahr. = '00007. | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. 128·7 | Sc. Div. 128·5 | Sc. Div. 128·4 | Sc. Div. 123·9 | Sc. Div. 128·5 | Sc. Div. 124·7 | Sc. Div. 123·7 | Sc. Div. 123·9 | Sc. Div. 125·1 | Sc. Div. 116·9 | Sc. Div. 111·9 | Sc. Div. 118·1 | Sc. Div. 127·41 |
| 116·7 | 117·7 | 117·7 | 120·1 | 118·3 | 118·8 | 114·4 | 115·1 | 109·0 | 98·7 | 88·9 | 102·5 | 115·58 |
| 103·7 | 100·4 | 100·4 | 97·3 | 97·3 | 100·3 | 101·0 | 101·0 | 102·8 | 98·8 | 95·7 | 96·9 | 105·28 |
| 105·7 | 103·5 | 103·5 | 104·1 | 104·1 | 102·5 ^a | — | — | — | — | — | — | 104·32 |
| — | — | — | — | — | — | 103·6 | 110·4 | 114·4 | 114·9 | 115·7 | 115·6 | — |
| 118·5 | 119·8 | 121·8 | 121·3 | 110·3 | 115·9 | — | — | — | — | — | — | 117·35 |
| — | — | — | — | — | — | 111·8 | 112·8 | 111·9 | 111·9 | 113·8 | 114·3 | — |
| 100·2 | 99·8 | 100·1 | 101·3 | 101·9 | 101·3 | 102·1 | 102·1 | 102·6 | 103·6 | 103·6 | 104·9 | 115·73 |
| 92·2 | 92·2 | 92·9 | 92·9 | 94·6 | 95·2 | 95·9 | 96·9 | 98·3 | 97·0 | 95·7 | 95·6 | 96·53 |
| 90·0 | 90·4 | 90·8 | 91·5 | 91·8 | 91·8 | 93·0 | 91·9 | 91·9 | 93·1 | 93·5 | 96·9 | 92·55 |
| 92·9 | 93·1 | 93·3 | 93·3 | 94·4 | 92·2 | 92·2 | 94·6 | 94·6 | 95·4 | 95·7 | 97·6 | 95·48 |
| 86·2 | 86·2 | 86·2 | 87·6 | 88·0 | 88·1 | 89·1 | 90·2 | 90·7 | 91·4 | 92·4 | 92·8 | 89·40 |
| 78·4 | 78·9 | 81·0 | 81·1 | 82·7 | 83·5 | — | — | — | — | — | — | 84·62 |
| — | — | — | — | — | — | 81·7 | 83·9 | 83·0 | 84·7 | 87·5 | 88·5 | — |
| 90·5 | 90·5 | 91·1 | 91·1 | 91·2 | 91·2 | 91·2 | 91·5 | 93·2 | 90·1 | 93·1 | 94·0 | 89·68 |
| 94·1 | 95·0 | 96·6 | 100·0 | 100·0 | 95·0 | 87·0 | 84·7 | 47·9 | 18·8 | — ^b | 5·2 | 84·56 |
| 113·5 | 116·3 | 112·5 | 104·8 | 103·7 | 108·3 | 104·8 | 109·2 | 109·9 | 109·9 | 107·0 | 111·6 | 98·93 |
| 103·4 | 103·4 | 103·8 | 104·3 | 105·1 | 106·3 | 106·3 | 108·2 | 108·9 | 109·7 | 110·0 | 110·8 | 105·48 |
| 99·2 | 99·2 | 100·2 | 100·8 | 100·9 | 100·7 | 102·1 | 102·4 | 102·1 | 102·1 | 103·6 | 106·3 | 102·51 |
| 95·0 | 95·0 | 95·9 | 96·0 | 96·0 | 96·9 | — | — | — | — | — | — | 98·34 |
| — | — | — | — | — | — | 98·1 | 99·5 | 99·5 | 100·1 | 100·1 | 100·0 | — |
| 99·9 | 99·9 | 100·4 | 100·1 | 100·1 | 100·4 | 100·4 | 101·5 | 101·5 | 101·8 | 101·6 | 101·7 | 99·91 |
| 93·1 | 91·1 | 92·3 | 92·3 | 92·6 | 94·0 | 93·7 | 95·6 | 94·7 | 93·6 | 95·0 | 95·7 | 95·50 |
| 84·6 | 83·1 | 81·9 | 83·2 | 84·3 | 84·5 | 85·9 | 86·2 | 86·1 | 86·9 | 87·5 | 89·6 | 87·35 |
| 104·4 | 98·3 | 93·7 | 89·7 | 89·6 | 84·7 | 91·6 | 92·3 | 91·1 | 92·0 | 92·7 | 93·9 | 89·87 |
| 101·6 | 100·7 | 100·1 | 102·8 | 98·1 | 96·9 | 95·1 | 86·7 | 91·7 | 93·6 | 102·1 | 100·3 | 94·04 |
| 106·2 | 104·3 | 99·9 | 101·7 | 89·4 | 93·9 | — | — | — | — | — | — | 102·00 |
| — | — | — | — | — | — | 94·6 | 98·2 | 98·0 | 98·4 | 104·2 | 105·0 | — |
| 95·9 | 96·2 | 95·0 | 94·2 | 90·2 | 94·9 | 96·3 | 96·3 | 97·7 | 99·4 | 99·9 | 100·9 | 98·06 |
| 98·7 | 99·9 | 96·4 | 88·0 | 91·2 | 85·6 | 93·9 | 96·0 | 95·7 | 86·3 | 86·3 | 88·8 | 93·75 |
| 99·73 | 99·34 | 99·04 | 98·54 | 97·77 | 97·90 | 97·98 | 98·84 | 97·61 | 95·56 | 99·06 | 97·10 | 98·99 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|----------------|-------|-------|
| 46·8 | 46·2 | 46·1 | 45·6 | 45·6 | 45·2 | 45·0 | 45·0 | 45·0 | 45·3 | 45·3 | 45·3 | 44·33 |
| 51·0 | 50·8 | 51·0 | 51·0 | 51·0 | 51·0 | 51·0 | 50·9 | 50·5 | 50·6 | 51·0 | 51·5 | 49·92 |
| 58·1 | 58·7 | 58·7 | 58·5 | 57·6 | 57·1 | 56·8 | 56·3 | 56·4 | 56·8 | 56·8 | 56·8 | 55·05 |
| 58·1 | 57·5 | 57·3 | 56·8 | 56·8 | 56·5 ^a | — | — | — | — | — | — | 55·65 |
| — | — | — | — | — | — | 51·1 | 50·6 | 50·3 | 50·1 | 49·7 | 49·7 | — |
| 48·9 | 48·7 | 48·7 | 48·8 | 48·6 | 48·4 | — | — | — | — | — | — | 49·28 |
| — | — | — | — | — | — | 50·9 | 50·8 | 50·3 | 49·8 | 49·5 | 49·5 | — |
| 56·8 | 57·1 | 56·9 | 56·7 | 56·3 | 55·8 | 56·1 | 56·1 | 55·7 | 55·3 | 55·3 | 55·0 | 54·05 |
| 60·0 | 60·0 | 59·6 | 59·1 | 59·0 | 58·8 | 58·3 | 57·6 | 56·8 | 56·2 | 56·1 | 55·8 | 57·52 |
| 61·8 | 61·4 | 61·0 | 60·5 | 60·1 | 59·5 | 59·2 | 59·0 | 59·0 | 58·7 | 58·2 | 57·5 | 58·98 |
| 59·3 | 59·1 | 59·0 | 58·6 | 58·5 | 59·0 | 58·7 | 58·7 | 58·5 | 58·3 | 58·0 | 57·6 | 58·33 |
| 63·2 | 62·5 | 62·0 | 61·8 | 61·4 | 61·0 | 60·6 | 59·9 | 59·6 | 59·1 | 59·0 | 59·0 | 60·45 |
| 65·8 | 65·4 | 65·0 | 64·4 | 64·0 | 63·5 | — | — | — | — | — | — | 62·82 |
| — | — | — | — | — | — | 62·8 | 62·6 | 62·4 | 62·0 | 62·1 | 61·8 | — |
| 61·6 | 61·6 | 61·6 | 61·1 | 60·8 | 60·4 | 60·0 | 59·6 | 59·1 | 59·0 | 59·0 | 59·0 | 60·97 |
| 60·0 | 59·6 | 59·5 | 59·1 | 59·0 | 59·0 | 59·0 | 58·0 | 57·1 | 58·7 | — ^b | 58·7 | 59·11 |
| 58·2 | 57·7 | 57·2 | 56·5 | 56·0 | 55·2 | 54·3 | 53·7 | 53·0 | 52·3 | 51·6 | 50·8 | 55·75 |
| 56·1 | 56·2 | 56·0 | 55·3 | 54·6 | 53·9 | 53·4 | 52·5 | 52·3 | 51·9 | 51·3 | 50·8 | 53·77 |
| 57·5 | 57·3 | 56·9 | 56·3 | 56·3 | 56·1 | 55·7 | 55·5 | 55·1 | 54·8 | 54·5 | 54·3 | 55·27 |
| 59·6 | 59·3 | 59·0 | 58·6 | 58·0 | 57·6 | — | — | — | — | — | — | 57·41 |
| — | — | — | — | — | — | 56·3 | 56·3 | 56·3 | 56·3 | 56·2 | 56·2 | — |
| 57·2 | 56·7 | 56·3 | 56·3 | 56·3 | 56·2 | 56·1 | 56·0 | 55·8 | 55·6 | 55·6 | 55·6 | 56·28 |
| 59·6 | 59·8 | 59·6 | 59·6 | 59·5 | 59·2 | 59·0 | 59·0 | 58·8 | 59·0 | 58·8 | 58·5 | 58·25 |
| 63·6 | 63·8 | 64·5 | 63·8 | 63·3 | 62·8 | 61·8 | 61·8 | 61·6 | 61·2 | 60·8 | 60·4 | 61·65 |
| 61·5 | 61·2 | 61·0 | 61·4 | 60·6 | 60·2 | 59·8 | 59·8 | 59·4 | 59·4 | 59·4 | 59·0 | 60·79 |
| 57·0 | 56·6 | 56·3 | 56·3 | 56·1 | 56·1 | 56·0 | 55·6 | 55·4 | 55·1 | 54·7 | 54·2 | 57·09 |
| 56·1 | 56·0 | 56·0 | 55·6 | 55·1 | 54·5 | — | — | — | — | — | — | 54·55 |
| — | — | — | — | — | — | 54·0 | 53·5 | 53·0 | 52·8 | 52·6 | 52·6 | — |
| 59·9 | 59·7 | 59·5 | 59·2 | 58·8 | 58·5 | 58·3 | 58·0 | 57·3 | 56·5 | 55·8 | 55·2 | 57·17 |
| 59·4 | 59·4 | 59·0 | 59·0 | 58·6 | 58·5 | 58·5 | 58·1 | 58·0 | 57·7 | 57·8 | 57·8 | 58·12 |
| 58·28 | 58·09 | 57·91 | 57·60 | 57·28 | 56·96 | 56·51 | 56·20 | 55·87 | 55·70 | 55·38 | 55·30 | 56·50 |

^b Magnet vibrated out of the field of the telescope.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = .000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | 1 | 90.9 | 94.3 | 92.9 | 90.4 | 86.0 | 83.8 | 85.1 | 86.0 | 89.3 | 90.9 | 90.9 | 94.4 |
| | 2 | 86.5 | 88.0 | 87.7 | 84.0 | 81.3 | 81.0 | 81.0 | 81.3 | 81.6 | 82.9 | 80.7 | 84.8 |
| | 3 | 87.3 | 86.5 | 85.6 | 85.0 | 82.2 | 84.1 | 84.3 | 82.4 | 80.3 | 81.8 | 83.3 | 83.6 |
| | 4 | 90.3 | 90.3 | 90.0 | 89.4 | 89.3 | 88.0 | 87.6 | 87.7 | 87.6 | 88.3 | 90.1 | 90.1 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 94.7 | 96.9 | 97.5 | 96.5 | 96.5 | 93.9 | 94.9 | 93.0 | 93.0 | 93.6 | 95.1 | 97.2 |
| | 7 | 97.4 | 95.5 | 93.7 | 91.9 | 89.5 | 88.7 | 90.4 | 90.5 | 91.9 | 91.3 | 90.6 | 90.4 |
| | 8 | 90.6 | 90.6 | 92.9 | 90.6 | 88.8 ^a | 84.9 | 85.9 | 88.2 | 88.1 | 88.1 | 89.9 | 94.7 |
| | 9 | 95.1 | 94.0 | 90.6 | 90.0 | 91.7 | 93.0 ^b | 92.5 | 89.4 | 89.2 | 88.3 | 87.8 | 90.0 |
| | 10 | 95.8 | 95.8 | 94.7 | 94.7 | 92.8 | 91.7 | 92.5 | 91.0 | 91.0 | 93.3 | 91.4 | 93.7 |
| | 11 | 98.5 | 98.5 | 98.1 | 96.0 | 93.4 | 91.0 | 91.0 | 91.7 | 90.2 | 88.3 | 87.7 | 87.7 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 104.4 | 103.0 | 100.7 | 100.3 | 98.4 | 100.4 | 103.5 | 102.8 | 103.3 | 102.9 | 106.2 | 105.8 |
| | 14 | 101.4 | 102.7 | 100.4 | 99.4 | 99.5 | 96.6 | 96.3 | 96.0 | 94.5 | 94.5 | 92.3 | 91.4 |
| | 15 | 97.6 | 94.7 | 92.5 | 89.7 | 90.6 | 88.9 | 89.9 | 88.5 | 86.0 | 84.3 | 89.4 | 90.2 |
| | 16 | 90.1 | 91.5 | 90.6 | 89.1 | 86.9 | 86.0 | 86.0 | 85.8 | 86.9 | 86.8 | 86.8 | 86.2 |
| | 17 | 95.7 | 95.7 | 96.3 | 94.7 | 93.1 | 89.6 | 87.8 | 87.8 | 89.0 | 89.4 ^c | 89.4 | 89.4 |
| | 18 | 95.3 | 95.3 | 92.7 | 91.3 | 89.8 | 89.2 | 88.6 | 89.2 | 90.1 | 90.3 | 89.8 | 88.3 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 96.4 | 96.6 | 95.5 | 95.5 | 93.6 | 91.6 | 91.6 | 89.9 | 88.9 | 87.9 | 87.5 | 87.1 |
| | 21 | 99.0 | 99.0 | 97.9 | 98.5 | 95.8 | 94.4 | 94.9 | 94.4 | 95.6 | 95.6 | 95.9 | 100.9 |
| | 22 | 102.5 | 96.9 | 92.7 | 91.9 | 89.8 | 89.7 | 88.9 | 89.9 | 90.3 | 93.7 | 96.0 | 96.8 |
| | 23 | 92.8 | 92.5 | 91.4 | 90.1 | 90.6 | 89.9 | 84.1 | 85.6 | 89.5 | 85.9 | 83.5 | 84.9 |
| | 24 | 85.0 | 83.8 | 80.5 | 80.0 | 75.9 | 77.7 | 82.2 | 83.5 | 83.6 | 89.7 | 86.9 | 83.8 |
| | 25 | 80.9 | 80.1 | 80.8 | 79.5 | 78.5 | 77.3 | 75.7 | 73.1 | 71.1 | 70.5 | 70.7 | 68.6 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 77.6 | 77.9 | 78.4 | 76.6 | 75.0 | 74.1 | 73.3 | 74.7 | — | — | 78.6 ^c | 76.9 |
| | 28 | 77.0 | 77.4 | 76.5 | 76.9 | 75.0 | 74.3 | 73.1 | 71.8 | 72.8 | 73.8 | 73.3 | 73.6 |
| | 29 | 82.3 | 81.0 | 81.2 | 79.5 | 78.8 | 77.8 | 75.7 | 77.3 | 77.3 | 78.0 | 78.5 | 77.8 |
| | 30 | 85.9 | 85.9 | 85.1 | 86.5 | 85.5 | 84.1 | 83.3 | 81.2 | 81.4 | 83.1 | 83.7 | 83.6 |
| | 31 | 83.9 | 83.4 | 84.1 | 82.7 | 81.0 | 79.6 | 81.7 | 80.2 | 82.0 | 82.0 | 79.4 | 79.7 |
| Hourly Means | 91.66 | 91.40 | 90.41 | 89.29 | 87.75 | 86.71 | 86.73 | 86.40 | 87.10 | 87.51 | 87.24 | 87.84 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| MAY. | 1 | 57.8 | 58.2 | 58.6 | 59.7 | 60.0 | 60.3 | 60.8 | 61.0 | 61.3 | 61.6 | 61.9 | 62.0 |
| | 2 | 60.8 | 60.6 | 61.0 | 61.6 | 62.3 | 62.8 | 62.8 | 63.0 | 63.6 | 64.4 | 65.2 | 65.0 |
| | 3 | 61.6 | 61.8 | 62.0 | 62.0 | 62.2 | 62.6 | 63.0 | 63.3 | 63.6 | 63.7 | 63.7 | 64.0 |
| | 4 | 60.0 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.8 | 59.8 | 60.0 | 60.0 | 59.8 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 57.2 | 57.0 | 56.8 | 56.6 | 56.4 | 56.4 | 57.0 | 57.1 | 57.8 | 58.3 | 58.7 | 59.0 |
| | 7 | 57.2 | 57.7 | 58.2 | 59.2 | 59.6 | 59.7 | 59.8 | 59.8 | 60.0 | 60.3 | 60.6 | 61.4 |
| | 8 | 59.0 | 59.0 | 59.0 | 58.8 | 59.0 ^a | 59.7 | 59.9 | 60.2 | 60.6 | 61.3 | 61.6 | 61.8 |
| | 9 | 59.0 | 59.2 | 59.6 | 59.8 | 60.0 | 60.0 ^b | 60.0 | 60.1 | 60.6 | 61.1 | 61.6 | 61.7 |
| | 10 | 57.2 | 58.0 | 58.2 | 58.5 | 59.0 | 59.2 | 59.2 | 59.3 | 59.3 | 59.2 | 59.3 | 58.8 |
| | 11 | 56.3 | 56.3 | 56.5 | 57.0 | 57.7 | 58.7 | 59.2 | 59.8 | 60.4 | 61.3 | 62.0 | 62.3 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 54.2 | 54.2 | 54.4 | 54.7 | 54.3 | 52.7 | 52.0 | 51.5 | 53.0 | 53.3 | 53.3 | 53.5 |
| | 14 | 52.5 | 52.7 | 53.0 | 53.4 | 54.1 | 55.0 | 56.0 | 56.5 | 57.5 | 58.2 | 59.4 | 59.3 |
| | 15 | 57.2 | 57.8 | 58.2 | 58.7 | 59.2 | 59.6 | 60.2 | 60.7 | 61.3 | 62.0 | 62.6 | 62.5 |
| | 16 | 59.2 | 59.2 | 59.2 | 59.2 | 59.4 | 60.3 | 60.8 | 61.3 | 62.0 | 62.1 | 62.1 | 62.4 |
| | 17 | 57.2 | 57.2 | 57.2 | 57.6 | 58.2 | 59.2 | 59.4 | 59.8 | 60.4 | 60.6 ^c | 60.6 | 60.5 |
| | 18 | 58.3 | 58.3 | 58.3 | 58.8 | 59.2 | 59.4 | 59.4 | 59.1 | 59.2 | 59.5 | 60.6 | 61.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 56.2 | 56.2 | 56.2 | 56.4 | 57.2 | 58.0 | 58.2 | 59.2 | 59.8 | 60.2 | 60.4 | 60.2 |
| | 21 | 54.4 | 54.0 | 53.7 | 54.0 | 54.4 | 55.0 | 55.2 | 55.3 | 55.3 | 55.3 | 55.8 | 56.4 |
| | 22 | 52.2 | 53.2 | 54.2 | 55.2 | 56.0 | 56.3 | 56.7 | 57.2 | 57.7 | 58.0 | 58.5 | 58.6 |
| | 23 | 56.0 | 56.0 | 57.7 | 58.7 | 59.2 | 59.8 | 60.7 | 61.4 | 61.8 | 62.4 | 62.8 | 63.1 |
| | 24 | 61.0 | 61.0 | 62.0 | 63.0 | 63.6 | 64.0 | 63.8 | 63.2 | 63.6 | 63.0 | 63.6 | 64.1 |
| | 25 | 63.4 | 64.0 | 64.6 | 64.6 | 64.9 | 66.0 | 67.6 | 68.6 | 69.2 | 70.0 | 70.6 | 70.7 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 66.0 | 66.0 | 66.5 | 66.0 | 65.8 | 66.5 | 66.8 | 67.0 | — | — | 68.0 ^c | 68.0 |
| | 28 | 65.5 | 65.4 | 65.4 | 65.4 | 65.4 | 65.8 | 66.6 | 66.8 | 67.2 | 67.6 | 68.0 | 68.4 |
| | 29 | 63.0 | 63.2 | 63.0 | 63.4 | 63.6 | 64.1 | 64.4 | 64.4 | 65.1 | 65.6 | 66.1 | 66.4 |
| | 30 | 61.6 | 61.6 | 61.4 | 61.2 | 61.2 | 61.2 | 61.6 | 62.0 | 62.5 | 62.8 | 62.6 | 62.8 |
| | 31 | 61.8 | 62.0 | 62.0 | 61.8 | 61.8 | 61.6 | 61.6 | 62.0 | 62.5 | 63.0 | 63.4 | 63.6 |
| Hourly Means | 58.73 | 58.87 | 59.13 | 59.44 | 59.75 | 60.13 | 60.46 | 60.73 | 60.96 | 61.34 | 61.96 | 62.12 | |

^a Three minutes late.

^b Fifteen minutes late.

^c Seven minutes late.

VERTICAL FORCE.

One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 96.1 | 94.0 | 91.5 | 85.5 | 85.8 | 87.9 | 83.6 | 79.0 | 85.0 | 89.5 | 90.5 | 89.2 | 88.85 |
| 88.1 | 88.1 | 84.1 | 74.9 | 77.6 | 79.6 | 73.9 | 72.5 | 80.1 | 83.7 | 83.8 | 86.7 | 82.25 |
| 83.6 | 83.6 | 83.6 | 85.5 | 85.5 | 85.6 | 85.7 | 86.5 | 86.5 | 87.7 | 88.0 | 90.2 | 84.93 |
| 93.2 | 94.6 | 95.3 | 95.3 | — | — | — | — | — | — | — | — | 90.46 |
| — | — | — | — | — | — | 92.3 | 89.8 | 87.7 | 90.4 | 90.3 | 92.6 | 95.87 |
| 96.5 | 96.5 | 97.4 | 97.8 | 98.1 | 93.8 | 95.3 | 96.4 | 95.8 | 96.4 | 96.6 | 97.4 | 88.50 |
| 90.0 | 89.4 | 90.4 | 90.4 | 82.5 | 78.7 | 73.4 | 77.6 | 86.8 | 90.0 | 84.4 | 88.6 | 89.73 |
| 94.0 | 88.6 | 93.0 | 92.7 | 89.2 | 89.6 | 88.9 | 89.0 | 89.9 | 89.7 | 86.1 | 89.4 | 91.15 |
| 89.2 | 88.9 | 89.3 | 89.7 | 90.7 | 90.6 | 90.6 | 91.0 | 93.0 | 93.3 | 94.2 | 95.2 | 95.05 |
| 95.2 | 95.2 ^c | 95.7 | 96.2 | 93.1 | 97.6 | 97.6 | 98.1 | 98.1 | 98.0 | 99.1 | 99.0 | 92.15 |
| 87.3 | 86.2 | 85.1 | 84.2 | 85.1 | 85.0 | — | — | — | — | — | — | 102.66 |
| — | — | — | — | — | — | 95.4 | 96.0 | 96.0 | 97.7 | 99.5 | 102.1 | 94.34 |
| 104.6 | 106.4 | 104.8 | 105.6 | 106.0 | 106.4 | 102.0 | 101.0 | 98.7 | 96.7 | 100.0 | 100.0 | 89.87 |
| 91.4 | 94.6 | 98.8 | 92.1 | 78.7 | 82.5 | 94.1 | 90.3 | 89.7 | 93.0 | 96.5 | 97.4 | 88.83 |
| 89.6 | 89.6 | 89.6 | 89.4 | 88.0 | 88.9 | 89.9 | 89.9 | 90.5 | 90.5 | 89.6 | 89.1 | 91.39 |
| 86.2 | 86.3 | 87.0 | 87.2 ^d | 88.6 | 89.3 | 90.1 | 90.5 | 91.0 | 93.0 | 93.9 | 96.2 | 91.08 |
| 90.3 | 90.8 | 90.9 | 91.0 | 90.7 | 91.0 | 91.4 | 91.4 | 90.0 | 90.8 | 93.1 | 94.0 | 92.15 |
| 86.1 | 86.7 | 86.7 | 90.0 | 90.1 | 90.0 | — | — | — | — | — | — | 99.08 |
| — | — | — | — | — | — | 93.6 | 92.9 | 94.3 | 95.1 | 94.8 | 95.8 | 99.08 |
| 88.1 | 89.0 | 89.6 | 89.6 | 90.5 | 92.8 | 93.0 | 93.0 | 93.4 | 94.6 | 96.8 | 99.0 | 92.18 |
| 102.8 | 104.5 | 98.8 | 98.1 | 99.1 | 101.2 | 100.2 | 100.9 | 101.3 | 102.0 | 102.9 | 104.1 | 85.75 |
| 102.2 | 119.2 | 109.4 | 94.7 | 95.7 | 69.8 | 73.0 | 81.7 | 77.9 | 84.8 | 92.3 | 92.5 | 80.30 |
| 83.3 | 83.8 | 83.0 | 80.6 | 81.2 | 82.4 | 84.3 | 84.3 | 84.3 | 80.6 | 84.2 | 85.2 | 73.34 |
| 83.0 | 81.4 | 79.1 | 76.4 | 72.2 | 77.4 | 75.7 | 77.5 | 78.5 | 77.1 | 77.7 | 78.5 | 75.89 |
| 68.6 | 68.6 | 68.9 | 71.1 | 71.1 | 71.9 | — | — | — | — | — | — | 75.28 |
| — | — | — | — | — | — | 72.4 | 65.7 | 70.7 | 70.7 | 76.9 | 76.9 | 78.64 |
| 76.9 | 76.9 | 75.6 | 75.7 | 75.7 | 71.5 | 73.6 | 75.1 ^e | 75.0 | 76.0 | 75.7 | 78.7 | 83.97 |
| 72.2 | 72.2 | 72.6 | 74.4 | 75.3 | 75.4 | 76.8 | 77.5 | 77.5 | 77.0 | 78.3 | 82.0 | 82.30 |
| 77.2 | 77.2 | 77.3 | 78.2 | 79.1 | 79.8 | 78.9 | 77.7 | 76.3 | 75.1 | 80.1 | 85.3 | — |
| 83.2 | 83.2 | 83.2 | 83.3 | 84.3 | 83.8 | 83.8 | 83.8 | 83.8 | 84.1 | 84.9 | 84.6 | — |
| 79.9 | 80.4 | 81.5 | 83.2 | 83.2 | 83.5 | 81.4 | 80.8 | 83.5 | 84.5 | 85.9 | 87.8 | — |
| 88.10 | 88.74 | 88.23 | 87.14 | 86.04 | 85.62 | 86.33 | 86.29 | 87.23 | 88.22 | 89.49 | 91.02 | 88.03 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------------------|-------|-------------------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| 62.1 | 62.0 | 61.9 | 61.7 | 61.5 | 61.5 | 61.4 | 61.2 | 61.0 | 61.0 | 60.7 | 60.8 | 60.83 |
| 64.9 | 64.6 | 64.6 | 64.2 | 63.8 | 63.5 | 63.3 | 63.2 | 63.0 | 62.6 | 62.4 | 62.0 | 63.13 |
| 64.0 | 63.5 | 63.0 | 63.0 | 62.8 | 62.6 | 62.5 | 62.0 | 61.4 | 61.1 | 60.6 | 60.6 | 62.52 |
| 59.6 | 59.2 | 59.2 | 58.8 | — | — | — | — | — | — | — | — | 59.35 |
| — | — | — | — | — | — | 59.4 | 59.0 | 58.9 | 58.7 | 58.3 | 57.6 | 57.57 |
| 58.8 | 58.4 | 58.2 | 58.0 | 57.8 | 57.8 | 57.8 | 57.6 | 57.3 | 57.3 | 57.3 | 57.2 | 59.97 |
| 61.8 | 61.8 | 61.7 | 61.2 | 60.9 | 60.6 | 60.4 | 60.0 | 59.8 | 59.5 | 59.0 | 59.0 | 60.27 |
| 62.3 | 62.1 | 61.6 | 61.1 | 61.1 | 60.7 | 60.2 | 60.2 | 59.7 | 59.5 | 59.2 | 58.8 | 60.10 |
| 62.0 | 62.0 | 61.8 | 61.3 | 60.7 | 60.2 | 59.6 | 59.1 | 58.8 | 58.6 | 58.2 | 57.4 | 57.79 |
| 58.2 | 57.6 ^c | 57.4 | 57.1 | 57.0 | 56.5 | 56.5 | 56.3 | 56.3 | 56.3 | 56.3 | 56.3 | 59.07 |
| 62.4 | 62.5 | 62.6 | 62.5 | 62.5 | 62.0 | — | — | — | — | — | — | 54.4 |
| — | — | — | — | — | — | 57.3 | 56.9 | 56.3 | 55.8 | 55.1 | 54.4 | 52.80 |
| 53.2 | 53.8 | 52.9 | 52.3 | 51.9 | 51.7 | 51.4 | 51.5 | 51.5 | 51.8 | 52.0 | 52.0 | 57.13 |
| 59.4 | 59.1 | 59.0 | 58.7 | 60.0 | 60.0 | 59.3 | 58.5 | 58.1 | 57.5 | 57.3 | 56.7 | 60.40 |
| 62.4 | 62.4 | 62.0 | 61.8 | 61.2 | 60.6 | 60.2 | 60.1 | 60.0 | 59.8 | 59.6 | 59.4 | 60.10 |
| 62.4 | 62.0 | 61.4 | 60.8 ^d | 60.1 | 59.6 | 59.1 | 58.8 | 58.2 | 57.7 | 57.5 | 57.5 | 59.25 |
| 60.4 | 60.1 | 60.0 | 60.0 | 59.7 | 59.5 | 59.2 | 59.0 | 59.2 | 59.4 | 59.0 | 58.7 | 59.05 |
| 61.2 | 61.2 | 61.2 | 60.6 | 60.0 | 59.6 | — | — | — | — | — | — | 57.81 |
| — | — | — | — | — | — | 57.5 | 57.4 | 57.2 | 57.0 | 56.8 | 56.4 | 54.83 |
| 59.8 | 59.3 | 59.3 | 59.2 | 58.6 | 57.8 | 57.3 | 56.5 | 55.7 | 55.0 | 55.7 | 55.0 | 57.24 |
| 56.4 | 56.5 | 56.5 | 56.3 | 55.5 | 55.1 | 54.9 | 54.4 | 53.6 | 53.1 | 52.6 | 52.2 | 60.98 |
| 59.2 | 58.8 | 59.1 | 59.3 | 58.8 | 59.3 | 59.1 | 58.7 | 58.3 | 57.0 | 56.3 | 56.0 | 64.26 |
| 63.1 | 63.1 | 63.1 | 63.0 | 62.5 | 62.0 | 62.0 | 61.6 | 61.3 | 61.2 | 60.7 | 60.4 | 67.78 |
| 64.8 | 65.2 | 66.0 | 66.6 | 66.6 | 66.0 | 65.6 | 65.4 | 64.9 | 65.3 | 64.9 | 65.0 | 66.90 |
| 71.0 | 70.8 | 70.4 | 69.7 | 69.5 | 69.3 | — | — | — | — | — | — | 66.20 |
| — | — | — | — | — | — | 67.6 | 67.4 | 67.2 | 66.7 | 66.5 | 66.5 | 64.31 |
| 68.0 | 68.0 | 67.8 | 68.0 | 67.6 | 67.6 | 67.2 | 66.7 ^f | 66.4 | 66.2 | 66.0 | 65.6 | 62.11 |
| 68.4 | 68.0 | 67.8 | 67.3 | 66.6 | 66.2 | 65.6 | 65.2 | 64.8 | 64.3 | 64.0 | 63.2 | 61.99 |
| 66.4 | 66.4 | 66.1 | 65.6 | 65.0 | 64.6 | 64.1 | 63.4 | 63.0 | 62.8 | 62.2 | 61.6 | — |
| 62.6 | 62.5 | 62.5 | 62.8 | 62.6 | 62.5 | 62.4 | 62.2 | 62.2 | 62.0 | 62.0 | 61.8 | — |
| 63.6 | 63.4 | 63.0 | 62.8 | 62.4 | 62.0 | 61.5 | 61.0 | 60.8 | 60.5 | 60.0 | 59.6 | — |
| 62.16 | 62.01 | 61.86 | 61.62 | 61.41 | 61.11 | 60.46 | 60.12 | 59.81 | 59.54 | 59.27 | 58.95 | 60.49 |

^d Eleven minutes late.

^e Two minutes late.

^f Twenty minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JUNE. | 1 | 86·3 | 86·2 | 85·2 | 85·7 | 82·8 | 80·3 | 80·8 | 80·9 | 79·8 | 78·0 | 80·7 | |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | |
| | 3 | 89·5 | 89·5 | 88·6 | 86·0 | 89·3 | 84·6 | 84·6 | 89·7 | 85·1 | 83·4 | 83·4 | 83·6 |
| | 4 | 91·2 | 89·2 | 89·2 | 88·2 | 85·8 | 84·5 | 83·9 | 82·0 | 82·0 | 79·0 | 78·8 | 81·0 |
| | 5 | 86·6 | 85·7 | 83·5 | 82·2 | 82·3 | 82·4 | 78·8 | 80·1 ^b | 77·8 | 78·4 | 78·5 | 78·5 |
| | 6 | 82·8 | 83·6 | 80·8 | 77·4 | 76·0 | 75·9 | 73·3 | 73·2 | 73·0 | 72·6 | 71·8 | 71·9 |
| | 7 | 81·1 | 80·1 | 80·1 | 80·1 | 78·1 | 75·9 | 75·7 | 74·4 | 74·3 | 75·6 | 75·6 | 74·9 |
| | 8 | 85·0 | 84·3 | 84·3 | 85·5 | 84·3 | 85·6 | 86·7 | 83·5 | 82·4 | 84·2 | 82·6 | 82·6 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 87·1 | 87·2 | 85·9 | 85·1 | 86·2 | 84·6 ^c | 86·2 | 86·2 | 88·4 | 89·0 | 89·8 | 90·3 |
| | 11 | 92·3 | 92·3 | 90·8 | 89·9 | 88·3 | 87·4 ^d | 85·5 | 84·2 | 84·2 | 84·8 | 84·8 ^d | 84·8 |
| | 12 | 88·9 | 89·3 | 88·3 | 87·2 | 85·1 | 83·6 | 82·0 | 80·7 | 80·4 | 80·6 | 80·4 | 79·3 |
| | 13 | 85·4 | 85·9 | 82·6 | 80·8 | 78·7 | 78·4 | 79·1 | 79·1 | 77·6 | 77·9 | 78·5 | 77·7 |
| | 14 | 75·5 | 75·9 | 73·6 | 73·0 | 75·3 | 76·1 | 74·4 | 74·2 | 74·2 | 73·1 | 72·6 | 71·1 |
| | 15 | 78·2 | 77·0 | 76·4 | 76·7 | 75·8 | 73·3 | 72·5 | 71·1 | 69·8 | 70·1 | 69·8 | 69·7 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 72·8 | 72·8 | 73·2 | 73·2 | 73·3 | 73·2 | 72·6 | 72·2 | 73·4 | 72·9 | 72·6 | 72·9 |
| | 18 | 70·0 | 70·1 | 69·8 | 69·8 | 68·9 | 66·1 | 67·0 | 67·4 | 66·4 | 64·3 | 65·4 | 64·7 |
| | 19 | 65·9 | 65·3 | 64·4 | 64·4 | 63·2 | 63·6 | 63·6 | 62·7 | 64·3 | 63·8 | 63·6 | 63·2 |
| | 20 | 62·5 | 64·0 | 64·9 | 65·3 | 64·1 | 63·4 | 63·4 | 62·9 | 63·6 | 64·3 | 64·5 | 65·9 |
| | 21 | 69·7 | 69·7 | 69·7 | 69·4 | 69·4 | 70·1 | 70·6 | 70·6 | 72·2 | 71·0 ^e | 72·2 | 71·8 |
| | 22 | 73·7 | 73·7 | 73·8 | 73·3 | 72·9 | 72·3 | 71·3 | 71·3 | 72·9 | 72·9 | 73·0 | 72·0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 70·0 | 70·0 | 69·4 | 69·2 | 69·9 | 69·5 | 69·4 | 67·2 | 67·2 | 66·0 | 66·0 | 65·6 |
| | 25 | 67·2 | 68·2 | 68·2 | 68·0 | 68·0 | 67·6 | 67·6 | 65·9 | 66·4 | 66·4 | 66·4 | 63·8 |
| | 26 | 65·8 | 65·8 | 66·1 | 63·8 | 63·5 | 63·5 | 62·3 | 64·7 | 65·9 | 65·9 | 65·2 | 66·7 |
| | 27 | 70·1 | 70·1 | 69·8 | 69·8 | 71·0 | 71·0 | 71·0 | 72·6 | 72·5 | 71·9 | 71·9 | 72·8 |
| | 28 | 73·9 | 73·1 | 70·7 | 70·5 | 70·4 | 68·4 | 68·7 | 68·7 | 68·0 | 68·0 | 68·6 | 69·5 |
| | 29 | 72·7 | 72·4 | 72·7 | 72·7 | 73·2 | 75·5 | 72·5 | 72·8 | 72·8 | 74·1 | 76·3 | 74·8 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 77·77 | 77·66 | 76·88 | 76·29 | 75·83 | 75·07 | 74·54 | 74·33 | 74·18 | 73·93 | 74·12 | 73·77 | |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------------------|-------|-------------------|-------|-------|-------------------|------|
| JUNE. | 1 | 59·6 | 59·8 | 60·0 | 60·0 | 60·2 | 61·1 | 61·6 | 62·1 | 62·6 | 63·5 | 63·7 | 64·0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 58·1 | 58·6 | 59·0 | 60·0 | 60·4 | 60·8 | 61·0 | 60·6 | 61·1 | 62·0 | 62·1 | 62·1 |
| | 4 | 58·3 | 58·5 | 59·0 | 59·6 | 60·6 | 61·2 | 61·6 | 61·8 | 62·2 | 63·0 | 63·6 | 63·8 |
| | 5 | 59·8 | 59·6 | 60·1 | 60·1 | 60·1 | 60·6 | 61·1 | 61·6 ^b | 62·8 | 63·2 | 63·8 | 64·0 |
| | 6 | 62·5 | 62·8 | 63·7 | 64·4 | 65·6 | 66·1 | 67·0 | 67·0 | 67·6 | 68·1 | 67·8 | 67·6 |
| | 7 | 62·5 | 62·1 | 62·0 | 62·1 | 62·6 | 63·1 | 63·6 | 64·0 | 64·6 | 65·1 | 65·6 | 66·0 |
| | 8 | 59·2 | 59·5 | 58·6 | 59·5 | 60·0 | 59·8 | 60·4 | 60·6 | 60·6 | 61·0 | 61·6 | 61·4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 57·4 | 59·0 | 59·1 | 58·6 | 59·6 | 59·6 ^c | 59·6 | 58·8 | 58·6 | 59·1 | 58·2 | 58·4 |
| | 11 | 56·2 | 57·1 | 57·9 | 58·3 | 58·2 | 58·6 ^d | 59·0 | 59·0 | 59·4 | 60·0 | 60·6 ^d | 60·8 |
| | 12 | 57·3 | 58·3 | 58·8 | 59·2 | 60·0 | 61·0 | 61·6 | 62·0 | 62·6 | 63·0 | 63·4 | 63·6 |
| | 13 | 59·0 | 59·2 | 59·6 | 60·2 | 61·0 | 61·6 | 62·6 | 63·1 | 63·6 | 64·2 | 64·6 | 65·1 |
| | 14 | 62·0 | 62·1 | 62·8 | 63·6 | 64·0 | 64·6 | 65·0 | 65·4 | 65·8 | 66·6 | 67·1 | 67·6 |
| | 15 | 63·4 | 63·4 | 63·6 | 64·0 | 64·6 | 65·6 | 66·1 | 66·8 | 67·1 | 67·6 | 67·6 | 68·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 65·4 | 65·1 | 65·1 | 65·1 | 65·2 | 65·6 | 66·4 | 66·8 | 67·2 | 67·6 | 67·6 | 68·0 |
| | 18 | 67·0 | 66·6 | 67·1 | 68·0 | 68·6 | 69·6 | 70·1 | 70·5 | 71·0 | 72·2 | 72·5 | 72·7 |
| | 19 | 70·0 | 70·1 | 70·5 | 71·0 | 72·0 | 71·3 | 71·5 | 71·5 | 71·7 | 72·2 | 72·5 | 73·2 |
| | 20 | 71·0 | 69·5 | 68·8 | 68·5 | 68·6 | 68·7 | 69·1 | 69·5 | 70·0 | 70·0 | 70·3 | 70·3 |
| | 21 | 64·9 | 64·6 | 64·6 | 64·8 | 65·1 | 65·6 | 65·8 | 66·2 | 66·6 | 67·0 | 67·6 | 67·6 |
| | 22 | 62·6 | 62·6 | 62·6 | 62·6 | 63·0 | 63·4 | 64·2 | 64·4 | 65·1 | 65·6 | 66·6 | 66·8 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 66·6 | 66·0 | 66·4 | 66·6 | 67·4 | 67·6 | 68·0 | 68·2 | 68·7 | 69·2 | 69·6 | 69·7 |
| | 25 | 68·4 | 68·0 | 67·6 | 67·6 | 67·6 | 68·4 | 69·0 | 69·5 | 70·1 | 70·3 | 70·7 | 71·5 |
| | 26 | 69·3 | 68·8 | 68·7 | 68·7 | 68·4 | 68·7 | 69·0 | 69·3 | 69·3 | 69·3 | 69·2 | 69·5 |
| | 27 | 66·8 | 66·8 | 66·5 | 66·1 | 65·8 | 65·8 | 65·6 | 65·6 | 65·6 | 65·6 | 65·8 | 65·6 |
| | 28 | 64·6 | 64·6 | 64·8 | 64·6 | 64·6 | 65·0 | 65·4 | 65·6 | 65·8 | 66·4 | 66·8 | 67·0 |
| | 29 | 63·2 | 62·8 | 63·0 | 63·6 | 64·0 | 64·6 | 65·0 | 65·4 | 65·8 | 66·0 | 66·2 | 66·6 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 63·00 | 63·02 | 63·20 | 63·47 | 63·89 | 64·32 | 64·77 | 65·01 | 65·42 | 65·91 | 66·20 | 66·44 | |

^a Eighteen minutes late.

^b Ten minutes late.

^c Three minutes late.

VERTICAL FORCE.

One Scale Division = .000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 75.2 | Sc. Div. 79.3 | Sc. Div. 77.4 | Sc. Div. 77.8 | Sc. Div. 77.8 | Sc. Div. 78.8 | — | — | — | — | — | — | Sc. Div. 82.30 |
| — | — | — | — | — | — | 85.9 | 85.4 | 87.5 | 88.8 | 90.3 | 89.1 | 82.30 |
| 83.8 | 82.8 | 83.4 | 84.1 | 84.4 | 85.8 ^a | 85.7 | 86.9 | 87.2 | 89.0 | 89.3 | 91.2 | 86.29 |
| 80.2 | 80.6 | 81.8 | 83.7 | 83.5 | 84.5 | 84.5 | 84.9 | 85.7 | 86.1 | 86.1 | 86.6 | 84.29 |
| 77.8 | 77.2 | 80.1 | 79.3 | 79.3 | 79.3 | 79.3 | 80.2 | 81.6 | 81.6 | 83.0 | 84.3 | 80.74 |
| 73.4 | 74.8 | 75.6 | 75.4 | 75.9 | 76.4 | 77.1 | 77.9 | 78.8 | 79.8 | 80.8 | 81.3 | 76.65 |
| 74.3 | 76.2 | 76.7 | 77.2 | 79.5 | 80.5 | 80.5 | 82.2 | 82.2 | 83.3 | 85.0 | 87.3 | 78.78 |
| 84.3 | 85.4 | 85.5 | 85.5 | 56.0 | 84.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 89.3 | 88.6 | 88.6 | 89.7 | 90.6 | 89.8 | 85.77 |
| 88.0 | 88.0 | 88.4 | 88.5 | 91.1 | 91.1 | 90.3 | 92.1 | 92.2 | 88.2 | 86.9 | 91.3 | 88.42 |
| 83.5 | 83.5 | 83.7 | 85.8 | 87.4 | 86.3 | 85.7 | 85.7 | 88.5 | 88.8 | 91.2 | 90.2 | 87.07 |
| 79.1 | 79.1 | 78.6 | 80.2 | 80.2 | 79.5 | 79.5 | 81.8 | 81.8 | 83.0 | 82.3 | 84.0 | 82.29 |
| 76.9 | 76.9 | 76.4 | 77.3 | 77.1 | 78.2 | 78.1 | 78.0 | 80.0 | 80.8 | 82.6 | 83.6 | 79.48 |
| 70.2 | 70.2 | 70.1 | 71.3 | 71.1 | 71.9 | 71.9 | 71.3 | 71.4 | 75.3 | 75.3 | 78.2 | 73.22 |
| 67.7 | 68.1 | 69.4 | 69.4 | 69.4 | 69.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68.0 | 66.0 | 66.4 | 70.1 | 72.2 | 72.8 | 71.22 |
| 72.9 | 72.9 | 71.4 | 71.4 | 71.4 | 71.8 | 71.8 | 70.1 | 70.1 | 70.1 | 71.7 | 71.3 | 72.17 |
| 64.7 | 63.5 | 62.8 | 62.8 | 61.9 | 61.9 | 61.9 | 62.3 | 62.3 | 63.9 | 65.0 | 65.0 | 65.33 |
| 63.3 | 62.8 | 62.8 | 61.4 | 60.7 | 61.8 | 61.8 | 61.7 | 62.7 | 63.0 | 63.3 | 64.6 | 63.25 |
| 65.4 | 66.0 | 66.2 | 67.5 | 68.4 | 67.4 | 65.0 | 66.0 | 67.0 | 68.0 | 66.6 | 68.9 | 65.47 |
| 71.6 | 70.9 | 70.1 | 69.8 | 69.8 | 69.4 | 68.0 | 71.2 | 71.4 | 72.1 | 72.1 | 73.7 | 70.69 |
| 73.1 | 70.7 | 70.7 | 71.0 | 71.1 | 72.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70.9 | 70.3 | 71.4 | 71.4 | 71.4 | 73.0 | 72.10 |
| 66.0 | 65.1 | 64.9 | 64.9 | 66.0 | 66.0 | 65.8 | 66.2 | 64.6 | 64.6 | 66.4 | 66.0 | 66.91 |
| 61.1 | 60.1 | 59.7 | 61.6 | 61.2 | 61.8 | 61.8 | 61.7 | 63.0 | 63.0 | 64.5 | 65.7 | 64.54 |
| 66.5 | 66.5 | 65.6 | 64.4 | 66.0 | 66.6 | 67.5 | 66.6 | 66.6 | 66.6 | 68.6 | 68.6 | 65.80 |
| 72.8 | 72.4 | 72.2 | 71.9 | 71.0 | 72.3 | 71.6 | 71.6 | 71.6 | 71.6 | 71.6 | 73.7 | 71.62 |
| 68.5 | 68.5 | 69.8 | 69.8 | 70.7 ^f | 68.9 | 71.4 | 71.2 | 72.5 | 73.6 | 72.4 | 72.7 | 70.35 |
| 73.1 | 73.1 | 70.7 | 70.7 | 71.9 | 71.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72.1 | 71.5 | 71.5 | 68.6 | 67.5 | 70.7 | 72.33 |
| 73.34 | 73.38 | 73.36 | 73.71 | 74.11 | 74.31 | 74.62 | 74.86 | 75.47 | 76.04 | 76.67 | 77.74 | 75.08 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 64.0 | 64.0 | 64.0 | 63.8 | 63.5 | 63.5 | — | — | — | — | — | — | — | 61.53 |
| — | — | — | — | — | — | 59.6 | 59.4 | 59.4 | 59.3 | 59.3 | 58.8 | 58.8 | 60.53 |
| 62.2 | 62.1 | 62.1 | 61.8 | 61.4 | 60.8 ^a | 60.4 | 60.0 | 59.6 | 59.3 | 58.9 | 58.4 | 58.4 | 61.42 |
| 63.8 | 63.6 | 63.2 | 62.6 | 62.1 | 61.6 | 61.4 | 61.1 | 60.6 | 60.6 | 60.2 | 60.0 | 60.0 | 62.27 |
| 64.2 | 64.0 | 63.8 | 63.9 | 63.6 | 63.1 | 63.0 | 62.8 | 62.5 | 62.2 | 62.2 | 62.3 | 62.3 | 65.39 |
| 67.1 | 67.0 | 66.4 | 66.2 | 65.8 | 65.4 | 65.0 | 64.2 | 63.6 | 63.2 | 62.8 | 62.5 | 62.5 | 63.29 |
| 66.0 | 65.8 | 65.0 | 64.7 | 64.5 | 64.2 | 62.9 | 61.6 | 61.0 | 60.4 | 60.0 | 59.5 | 59.5 | — |
| 61.2 | 60.8 | 60.6 | 60.8 | 60.8 | 60.6 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.4 | 59.0 | 58.8 | 58.6 | 58.4 | 58.1 | 58.1 | 59.97 |
| 58.6 | 58.3 | 59.8 | 59.0 | 59.0 | 58.5 | 58.0 | 57.7 | 57.4 | 56.7 | 56.5 | 55.8 | 55.8 | 58.39 |
| 61.2 | 61.4 | 61.6 | 60.8 | 60.3 | 60.0 | 59.6 | 59.0 | 59.0 | 58.2 | 57.3 | 57.3 | 57.3 | 59.20 |
| 63.6 | 63.4 | 63.4 | 63.1 | 62.6 | 62.6 | 61.8 | 61.4 | 60.4 | 60.0 | 59.4 | 59.2 | 59.2 | 61.32 |
| 65.4 | 65.6 | 65.5 | 65.0 | 64.6 | 64.2 | 63.6 | 63.2 | 62.8 | 62.0 | 61.4 | 60.8 | 60.8 | 62.83 |
| 67.8 | 68.2 | 67.6 | 67.4 | 67.0 | 66.6 | 66.1 | 65.6 | 65.1 | 64.6 | 64.1 | 63.6 | 63.6 | 65.43 |
| 68.4 | 68.2 | 68.0 | 67.6 | 67.0 | 67.0 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.4 | 66.2 | 65.8 | 65.7 | 65.5 | 65.6 | 65.6 | 66.22 |
| 68.4 | 68.0 | 68.0 | 67.8 | 67.5 | 67.3 | 67.2 | 67.0 | 67.0 | 66.6 | 66.5 | 66.4 | 66.4 | 66.78 |
| 72.3 | 72.4 | 72.3 | 73.0 | 72.9 | 72.4 | 72.3 | 72.1 | 71.7 | 71.5 | 71.0 | 70.5 | 70.5 | 70.85 |
| 73.1 | 72.7 | 72.7 | 72.8 | 72.3 | 71.9 | 71.7 | 71.5 | 71.1 | 70.6 | 70.4 | 69.4 | 69.4 | 71.57 |
| 70.1 | 70.3 | 70.3 | 69.6 | 69.0 | 68.5 | 68.5 | 67.5 | 67.0 | 66.6 | 66.0 | 65.0 | 65.0 | 68.86 |
| 67.6 | 67.6 | 67.6 | 67.4 | 67.0 | 66.6 | 66.0 | 65.1 | 64.6 | 64.0 | 63.6 | 63.2 | 63.2 | 65.86 |
| 66.8 | 66.6 | 66.6 | 66.4 | 65.8 | 65.6 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.6 | 66.3 | 66.0 | 65.6 | 65.4 | 65.4 | 65.4 | 65.11 |
| 69.7 | 69.3 | 69.6 | 69.7 | 69.2 | 69.0 | 69.0 | 69.0 | 68.9 | 69.0 | 68.4 | 68.4 | 68.4 | 68.47 |
| 72.5 | 73.4 | 73.0 | 73.8 | 72.0 | 71.5 | 71.3 | 71.0 | 70.5 | 70.2 | 70.0 | 69.5 | 69.5 | 70.31 |
| 68.3 | 69.0 | 68.9 | 68.7 | 68.4 | 68.2 | 68.1 | 68.0 | 67.6 | 67.6 | 67.4 | 67.0 | 67.0 | 68.56 |
| 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.4 | 65.4 | 65.2 | 65.0 | 65.0 | 64.8 | 64.8 | 64.8 | 65.63 |
| 67.2 | 67.0 | 66.9 | 66.4 | 65.6 ^f | 65.6 ^d | 65.6 | 64.8 | 64.6 | 64.1 | 63.6 | 63.4 | 63.4 | 65.42 |
| 67.0 | 68.0 | 67.6 | 66.8 | 66.6 | 66.4 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.6 | 66.8 | 66.8 | 66.8 | 66.6 | 66.6 | 66.6 | 65.78 |
| 66.48 | 66.49 | 66.40 | 66.19 | 65.76 | 65.46 | 65.02 | 64.62 | 64.27 | 63.94 | 63.59 | 63.26 | 63.26 | 64.84 |

^d Two minutes late.

^e Four minutes late.

^f Two minutes early.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JULY. | 1 | 71.5 | 70.2 | 70.2 | 69.1 | 66.4 | 63.7 | 62.8 | 62.7 | 62.1 | 61.0 | 60.1 | 58.9 |
| | 2 | 69.6 | 69.7 | 68.3 | 66.6 | 64.0 | 62.9 | 60.7 | 60.7 | 60.7 | 61.8 | 61.8 | 64.3 |
| | 3 | 66.8 | 66.8 | 66.8 | 65.8 | 63.9 | 63.9 | 63.9 | 64.2 | 63.8 | 65.7 | 66.2 | 67.2 |
| | 4 | 71.6 | 74.5 | 73.7 | 73.0 | 73.0 | 71.6 | 70.0 | 70.2 | 73.5 | 73.5 | 72.7 | 73.0 |
| | 5 | 78.6 | 78.6 | 78.6 | 76.4 | 76.4 | 76.1 | 76.1 | 75.5 | 76.9 | 78.2 | 78.2 | 77.0 |
| | 6 | 77.4 | 76.3 | 73.5 | 70.9 | 68.4 | 66.0 | 64.9 | 65.5 | 65.7 | 63.9 | 63.9 | 64.6 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 69.7 | 69.7 | 70.8 | 69.6 | 68.1 | 69.6 | 70.0 | 71.1 | 68.1 | 68.7 | 67.0 | 66.5 |
| | 9 | 68.8 | 70.0 | 70.0 | 68.0 | 67.1 | 65.8 | 65.7 | 63.5 | 63.5 | 63.9 | 64.1 | 63.1 |
| | 10 | 63.0 | 64.0 | 62.0 | 61.6 | 59.2 | 58.7 | 57.4 | 57.8 | 57.2 | 58.7 | 58.7 | 59.8 |
| | 11 | 67.6 | 65.4 | 65.4 | 65.1 | 61.8 | 60.4 | 59.3 | 56.1 | 58.9 | 58.9 | 58.5 | 58.5 |
| | 12 | 65.0 | 66.4 | 64.8 | 64.3 | 61.7 | 60.3 | 60.4 | 60.3 | 60.4 | 60.4 | 60.4 | 59.0 |
| | 13 | 61.0 | 62.2 | 62.2 | 62.2 | 62.0 | 59.9 | 58.1 | 60.1 | 59.4 | 60.0 | 62.3 | 60.1 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 61.0 | 61.5 | 61.5 | 60.4 | 60.6 | 59.2 | 60.6 | 60.6 | 60.2 | 60.9 | 61.5 | 62.7 |
| | 16 | 65.2 | 66.3 | 67.2 | 67.1 | 65.0 | 63.7 | 61.7 | 61.3 | 61.8 | 63.5 | 65.2 | 61.9 |
| | 17 | 66.5 | 66.7 | 65.9 | 66.0 | 63.4 | 59.5 ^a | 57.8 | 58.9 | 58.8 | 58.5 | 61.3 | 63.6 |
| | 18 | 62.7 | 64.5 | 62.7 | 62.2 | 63.0 | 59.8 | 60.7 | 59.7 | 58.9 | 58.2 | 61.8 | 61.5 |
| | 19 | 58.9 | 58.9 | 60.1 | 60.1 | 56.6 | 55.9 | 54.6 | 54.6 | 56.6 | 58.3 | 58.0 | 57.2 |
| | 20 | 62.9 | 61.8 | 60.4 ^b | 58.8 | 58.3 | 57.6 | 56.5 | 56.0 | 56.2 | 57.7 | 57.7 | 55.7 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 59.9 | 59.3 | 59.3 | 57.9 | 55.3 | 55.2 | 52.9 | 50.4 | 48.2 | 50.3 | 50.3 | 50.3 |
| | 23 | 54.4 | 54.0 | 53.0 | 52.2 | 50.7 | 49.1 | 45.3 | 47.4 | 47.5 | 47.7 | 48.3 | 49.2 |
| | 24 | 55.7 | 57.1 | 57.0 | 55.6 | 54.2 | 54.5 | 54.8 | 54.8 | 53.6 | 55.9 | 55.0 | 53.9 |
| | 25 | 44.0 | 43.1 | 46.3 | 52.5 | 52.4 | 51.5 | 53.7 | 56.3 | 56.8 | 60.0 | 61.5 | 59.7 |
| | 26 | 63.3 | 60.9 | 59.9 | 59.9 | 60.2 | 59.2 | 58.1 | 57.2 | 58.3 | 59.6 | 55.1 | 62.0 |
| | 27 | 55.7 | 57.7 | 59.5 | 59.5 | 54.7 | 57.1 | 57.1 | 56.3 | 58.7 | 58.0 | 62.3 | 63.1 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 61.4 | 61.4 | 60.0 | 58.9 | 58.1 | 54.9 | 52.9 | 49.5 | 50.3 | 51.7 | 51.2 | 51.2 |
| | 30 | 53.9 | 54.5 | 54.3 | 54.3 | 54.7 | 54.7 | 54.7 | 54.1 | 54.3 | 55.1 ^d | 56.6 | 56.6 |
| | 31 | 55.8 | 55.5 | 55.5 | 54.7 | 51.1 | 50.1 | 50.0 | 49.3 | 48.4 | 50.5 | 48.8 | 50.3 |
| Hourly Means | 63.40 | 63.59 | 63.29 | 62.69 | 61.12 | 60.03 | 59.29 | 59.04 | 59.21 | 60.02 | 60.48 | 60.40 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| JULY. | 1 | 66.0 | 66.5 | 67.4 | 67.5 | 68.4 | 68.6 | 70.3 | 71.0 | 71.9 | 73.0 | 73.5 | 74.1 |
| | 2 | 67.6 | 67.8 | 68.0 | 68.5 | 68.8 | 69.3 | 69.9 | 70.5 | 71.0 | 71.3 | 71.5 | 71.7 |
| | 3 | 68.5 | 68.4 | 68.5 | 68.7 | 68.8 | 69.0 | 69.1 | 69.5 | 69.8 | 69.7 | 69.7 | 69.7 |
| | 4 | 64.4 | 64.6 | 63.8 | 64.2 | 64.2 | 64.6 | 64.8 | 64.6 | 64.6 | 65.0 | 65.4 | 65.8 |
| | 5 | 61.6 | 61.6 | 61.6 | 61.6 | 61.8 | 62.2 | 62.6 | 62.8 | 62.9 | 62.9 | 63.0 | 63.0 |
| | 6 | 62.8 | 63.4 | 64.4 | 65.0 | 65.5 | 66.4 | 67.4 | 68.4 | 68.8 | 69.8 | 70.3 | 70.5 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 63.6 | 63.6 | 63.6 | 63.9 | 64.2 | 64.6 | 65.0 | 65.6 | 66.0 | 66.6 | 67.4 | 68.0 |
| | 9 | 65.8 | 65.8 | 66.1 | 66.8 | 67.6 | 68.6 | 69.0 | 69.5 | 69.8 | 70.3 | 70.5 | 70.3 |
| | 10 | 69.7 | 69.7 | 70.3 | 70.7 | 71.3 | 71.7 | 72.3 | 72.3 | 72.3 | 72.5 | 73.0 | 73.3 |
| | 11 | 68.4 | 68.4 | 68.6 | 68.8 | 69.5 | 70.0 | 70.6 | 71.1 | 71.6 | 72.1 | 72.7 | 73.2 |
| | 12 | 68.4 | 68.6 | 68.8 | 68.9 | 69.5 | 69.8 | 70.2 | 70.4 | 71.3 | 71.7 | 72.5 | 72.9 |
| | 13 | 70.2 | 69.9 | 69.6 | 69.7 | 69.7 | 70.1 | 70.4 | 71.0 | 71.2 | 71.5 | 71.7 | 72.0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 69.6 | 69.4 | 69.4 | 69.6 | 69.5 | 69.5 | 69.6 | 70.0 | 70.0 | 70.1 | 70.0 | 70.0 |
| | 16 | 67.0 | 66.6 | 66.6 | 66.6 | 67.0 | 67.1 | 67.6 | 67.8 | 67.8 | 68.2 | 68.4 | 68.7 |
| | 17 | 65.8 | 66.0 | 66.4 | 66.6 | 67.4 | 68.3 | 68.5 | 69.0 | 69.5 | 69.9 | 70.5 | 70.7 |
| | 18 | 67.4 | 66.4 | 67.3 | 67.5 | 68.3 | 68.8 | 69.5 | 70.2 | 70.6 | 71.0 | 71.2 | 71.5 |
| | 19 | 69.9 | 69.8 | 69.6 | 69.5 | 69.7 | 70.0 | 70.2 | 70.5 | 70.7 | 71.3 | 71.5 | 72.0 |
| | 20 | 69.1 | 69.3 | 69.5 ^b | 69.9 | 69.8 | 70.3 | 70.5 | 70.8 | 71.0 | 71.2 | 71.6 | 71.6 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 69.5 | 69.5 | 69.7 | 70.2 | 70.7 | 72.1 | 72.5 | 73.3 | 73.4 | 73.7 | 74.4 | 74.6 |
| | 23 | 71.5 | 71.5 | 71.5 | 71.8 | 72.4 | 73.0 | 73.6 | 73.9 | 74.6 | 74.8 | 74.8 | 75.0 |
| | 24 | 70.5 | 70.3 | 70.3 | 70.7 | 71.0 | 70.9 | 71.1 | 71.5 | 71.5 | 71.9 | 72.3 | 72.2 |
| | 25 | 71.8 | 70.9 | 70.0 | 70.0 | 70.2 | 70.4 | 70.6 | 70.8 | 71.0 | 71.2 | 71.4 | 71.4 |
| | 26 | 67.6 | 67.6 | 67.6 | 67.8 | 67.9 | 68.4 | 68.6 | 69.0 | 69.0 | 69.2 | 69.4 | 69.7 |
| | 27 | 65.6 | 66.0 | 66.4 | 67.0 | 67.8 | 69.0 | 69.4 | 69.8 | 70.2 | 70.4 | 70.6 | 70.9 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 67.4 | 67.6 | 68.0 | 68.6 | 69.4 | 71.0 | 71.6 | 72.2 | 72.9 | 73.2 | 73.7 | 73.9 |
| | 30 | 71.2 | 70.9 | 70.9 | 70.9 | 71.2 | 71.2 | 71.3 | 71.4 | 71.6 | 71.8 | 71.6 | 71.5 |
| | 31 | 71.0 | 71.0 | 71.5 | 72.0 | 72.5 | 73.3 | 73.9 | 74.0 | 74.5 | 75.2 | 75.5 | 75.5 |
| Hourly Means | 67.85 | 67.82 | 67.98 | 68.26 | 68.67 | 69.19 | 69.63 | 70.03 | 70.35 | 70.72 | 71.04 | 71.25 | |

^a Seven minutes late.

^b Two minutes late.

VERTICAL FORCE.

One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 58.8 | 58.8 | 58.8 | 59.7 | 60.4 | 60.4 | 62.0 | 62.0 | 64.3 | 65.6 | 67.2 | 68.8 | 63.56 |
| 64.5 | 64.5 | 62.9 | 62.9 | 62.9 | 63.0 | 64.1 | 64.7 | 64.7 | 64.7 | 65.5 | 67.5 | 64.29 |
| 66.5 | 66.5 | 66.5 | 67.8 | 67.8 | 69.0 | 70.8 | 63.8 | 69.0 | 71.8 | 71.8 | 75.0 | 67.14 |
| 72.0 | 70.9 | 70.6 | 71.5 | 72.6 | 73.4 | 73.4 | 74.8 | 74.8 | 75.1 | 77.4 | 77.4 | 73.09 |
| 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 76.2 | 75.2 | 76.2 | 76.5 | 77.2 | 77.4 | 76.97 |
| 63.9 | 63.4 | 64.9 | 64.6 | 64.6 | 66.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63.7 | 64.2 | 64.2 | 68.9 | 64.4 | 65.0 | 66.64 |
| 68.3 | 67.6 | 67.0 | 68.1 | 66.1 | 60.8 | 59.0 | 55.9 | 55.9 | 56.2 | 62.6 | 66.1 | 65.94 |
| 64.6 | 64.6 | 64.6 | 65.3 | 63.0 | 63.0 | 63.4 | 63.4 | 63.4 | 59.8 | 59.8 | 62.0 | 64.60 |
| 58.9 | 60.0 | 59.3 | 59.3 | 61.4 | 61.4 | 61.9 | 66.5 | 63.7 | 63.7 | 65.6 | 65.6 | 61.06 |
| 57.9 | 56.7 | 55.0 | 55.4 | 57.3 | 57.3 | 56.8 | 59.2 | 59.2 | 58.2 | 61.9 | 64.4 | 59.80 |
| 56.8 | 56.8 | 56.8 | 57.2 | 58.1 | 58.8 | 53.6 | 56.6 | 59.7 | 60.9 | 59.9 | 59.9 | 59.94 |
| 60.1 | 59.2 | 59.2 | 59.2 | 59.2 | 58.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 51.9 | 56.4 | 57.8 | 58.8 | 59.7 | 61.0 | 59.61 |
| 62.7 | 62.7 | 63.7 | 64.1 | 62.3 | 62.9 | 59.9 | 63.0 | 63.0 | 64.4 | 64.3 | 66.9 | 62.11 |
| 64.1 | 62.9 | 62.4 | 60.9 | 62.4 | 62.4 | 61.6 | 62.2 | 63.6 | 63.6 | 65.2 | 64.7 | 63.58 |
| 63.6 | 61.1 | 60.3 | 58.3 | 60.2 | 58.5 | 58.5 | 59.4 | 60.0 | 61.1 | 61.6 | 63.2 | 61.36 |
| 58.6 | 57.8 | 57.8 | 56.0 | 57.5 | 54.7 | 55.5 | 55.8 | 57.8 | 57.8 | 57.9 | 57.9 | 59.20 |
| 55.9 | 56.0 | 56.2 | 55.1 | 56.3 | 58.0 | 58.0 | 59.5 | 60.0 | 60.5 | 60.5 | 61.3 | 57.80 |
| 55.7 | 55.1 | 54.3 | 55.6 | 53.6 | 57.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.1 | 56.1 | 56.1 | 58.1 | 58.1 | 59.9 | 57.33 |
| 50.5 | 50.5 | 47.7 | 48.2 | 48.2 ^c | 48.2 | 50.2 | 50.4 | 50.4 | 52.9 | 52.9 | 53.4 | 52.20 |
| 49.2 | 49.2 | 49.2 | 49.2 | 50.7 | 49.9 | 51.1 | 51.2 | 52.8 | 53.6 | 53.6 | 54.2 | 50.53 |
| 53.3 | 53.5 | 50.4 | 49.5 | 50.8 | 52.3 | 50.9 | 47.6 | 21.4 | 34.9 | 35.9 | 45.9 | 50.35 |
| 58.9 | 58.7 | 56.9 | 56.9 | 56.4 | 51.2 | 52.4 | 50.4 | 49.2 | 54.1 | 58.6 | 62.1 | 54.32 |
| 59.9 | 59.9 | 59.2 | 59.2 | 59.2 | 60.2 | 58.3 | 57.2 | 57.2 | 53.5 | 51.5 | 56.0 | 58.73 |
| 60.0 | 60.0 | 56.4 | 58.4 | 58.4 | 55.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.4 | 58.2 | 60.0 | 60.0 | 59.7 | 62.5 | 58.50 |
| 51.2 | 50.2 | 48.4 | 48.4 | 48.4 | 50.7 | 50.7 | 51.7 | 52.8 | 53.3 | 53.3 | 52.8 | 53.06 |
| 56.6 | 56.4 | 56.4 | 56.2 | 56.2 | 55.4 | 52.3 | 48.5 | 53.6 | 54.3 | 55.8 | 55.8 | 54.80 |
| 50.4 | 44.2 | 45.8 | 45.8 | 45.6 | 47.0 | 47.0 | 46.9 | 53.3 | 53.3 | 53.1 | 55.0 | 50.31 |
| 60.00 | 59.41 | 58.80 | 58.88 | 59.13 | 59.01 | 58.32 | 58.55 | 58.67 | 59.84 | 60.56 | 62.29 | 60.25 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74.4 | 74.5 | 73.5 | 73.0 | 72.3 | 71.5 | 70.1 | 70.0 | 69.2 | 68.6 | 68.3 | 67.6 | 70.47 |
| 71.5 | 71.5 | 71.5 | 71.5 | 71.0 | 70.5 | 70.0 | 69.6 | 69.3 | 69.0 | 69.0 | 68.5 | 69.95 |
| 69.7 | 69.3 | 69.0 | 68.4 | 67.6 | 67.2 | 66.6 | 66.0 | 65.6 | 65.1 | 64.4 | 63.8 | 68.00 |
| 65.9 | 66.0 | 65.8 | 66.0 | 65.6 | 65.0 | 64.7 | 64.2 | 64.0 | 63.4 | 63.0 | 62.5 | 64.67 |
| 62.9 | 62.8 | 63.3 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 62.6 | 62.6 | 62.6 | 62.60 |
| 70.5 | 70.5 | 70.0 | 69.7 | 69.1 | 68.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.0 | 66.0 | 65.4 | 64.8 | 64.4 | 63.6 | 67.14 |
| 68.6 | 68.6 | 68.7 | 68.6 | 68.6 | 68.0 | 67.4 | 67.8 | 67.5 | 67.0 | 66.6 | 66.1 | 66.48 |
| 70.3 | 70.3 | 70.3 | 70.5 | 70.1 | 69.9 | 69.7 | 69.5 | 69.4 | 69.3 | 69.2 | 68.7 | 69.05 |
| 73.2 | 72.6 | 72.3 | 71.8 | 71.6 | 71.6 | 71.0 | 70.8 | 70.1 | 69.8 | 69.0 | 68.6 | 71.31 |
| 73.3 | 73.5 | 74.1 | 73.7 | 72.9 | 72.7 | 72.5 | 71.4 | 70.8 | 70.2 | 69.8 | 68.6 | 71.19 |
| 73.2 | 73.1 | 73.4 | 72.6 | 72.2 | 72.0 | 71.6 | 71.2 | 70.8 | 70.6 | 70.4 | 70.8 | 71.04 |
| 72.0 | 72.0 | 72.0 | 71.5 | 71.3 | 71.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 72.5 | 72.2 | 72.0 | 71.4 | 70.6 | 70.0 | 71.07 |
| 69.5 | 69.5 | 69.2 | 69.4 | 69.0 | 68.8 | 68.5 | 68.4 | 68.1 | 68.0 | 67.6 | 67.4 | 69.17 |
| 68.8 | 69.0 | 69.5 | 69.3 | 69.2 | 69.0 | 68.8 | 68.6 | 68.0 | 67.8 | 67.4 | 66.6 | 67.97 |
| 70.7 | 71.0 | 71.8 | 71.9 | 70.8 | 70.7 | 70.0 | 69.8 | 69.4 | 69.0 | 68.0 | 67.4 | 69.13 |
| 71.5 | 71.5 | 71.8 | 71.8 | 71.4 | 71.2 | 71.0 | 70.8 | 70.7 | 70.5 | 70.4 | 70.1 | 70.10 |
| 72.0 | 71.5 | 71.5 | 71.3 | 70.9 | 70.6 | 70.2 | 69.8 | 69.4 | 69.0 | 68.6 | 68.3 | 70.32 |
| 71.8 | 72.1 | 72.1 | 72.0 | 71.5 | 71.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71.5 | 71.0 | 70.9 | 70.2 | 69.6 | 69.3 | 70.73 |
| 74.4 | 74.4 | 75.2 | 74.8 | 74.6 | 74.6 | 74.0 | 73.5 | 73.1 | 72.7 | 72.5 | 71.9 | 72.89 |
| 75.0 | 74.7 | 74.7 | 74.5 | 74.0 | 73.8 | 73.5 | 72.8 | 72.2 | 71.8 | 71.4 | 71.1 | 73.25 |
| 72.2 | 72.0 | 72.6 | 72.9 | 72.9 | 72.6 | 72.6 | 72.6 | 72.6 | 72.0 | 72.2 | 72.2 | 71.82 |
| 71.4 | 71.2 | 71.0 | 70.6 | 70.5 | 69.8 | 69.3 | 69.0 | 68.6 | 68.0 | 67.6 | 67.4 | 70.17 |
| 69.7 | 69.7 | 69.7 | 69.5 | 69.0 | 68.2 | 68.0 | 67.6 | 67.1 | 66.6 | 66.6 | 65.6 | 68.30 |
| 70.8 | 71.0 | 70.8 | 69.8 | 69.5 | 68.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 69.5 | 69.3 | 68.7 | 68.2 | 68.9 | 68.0 | 69.02 |
| 74.3 | 74.3 | 74.5 | 74.5 | 74.1 | 73.8 | 73.5 | 73.0 | 72.4 | 72.0 | 72.0 | 71.4 | 72.05 |
| 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.4 | 71.4 | 71.6 | 71.6 | 71.4 | 71.3 | 71.3 | 71.38 |
| 75.5 | 75.5 | 75.5 | 75.5 | 75.3 | 75.3 | 74.8 | 73.5 | 73.0 | 72.6 | 72.3 | 71.5 | 73.76 |
| 71.28 | 71.24 | 71.31 | 71.10 | 70.72 | 70.40 | 70.06 | 69.74 | 69.37 | 68.95 | 68.66 | 68.18 | 69.74 |

^c Eight minutes late.

^d Four minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| AUGUST. | 1 | 52·6 | 50·5 | 48·6 | 47·4 | 45·3 | 36·9 | 42·8 | 56·9 | 64·3 | 61·5 | 56·0 | 55·7 |
| | 2 | 48·9 | 51·8 | 52·9 | 53·2 | 53·2 | 49·0 | 48·7 | 49·0 | 51·2 | 52·3 | 56·5 | 56·5 |
| | 3 | 51·0 | 50·5 | 53·5 | 55·5 | 54·4 | 53·9 | 54·7 | 54·7 | 57·3 | 58·4 | 60·1 | 62·4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 64·3 | 64·8 | 65·2 | 63·7 | 63·7 | 62·8 | 60·0 | 60·0 | 60·2 | 60·7 | 60·5 | 60·5 |
| | 6 | 61·6 | 61·6 | 61·6 | 60·9 | 60·9 | 59·6 | 59·0 | 58·2 | 59·1 | 59·9 | 58·6 | 58·5 |
| | 7 | 65·1 | 63·7 | 63·0 | 62·4 | 61·8 | 60·8 | 60·8 | 60·7 | 59·7 | 59·7 | 59·7 | 58·6 |
| | 8 | 57·0 | 57·7 | 57·7 | 55·8 | 55·8 | 55·8 | 54·6 | 55·6 | 55·9 | 55·9 | 55·0 | 55·0 |
| | 9 | 49·9 | 47·3 | 41·8 | 45·7 | 43·5 | 46·1 | 48·6 | 50·2 | 53·3 | 54·4 | 53·7 | 58·4 |
| | 10 | 58·0 | 57·4 | 57·4 | 57·2 | 56·3 | 54·1 | 54·3 | 54·9 | 54·9 | 55·6 | 55·6 | 55·7 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 68·6 | 70·9 | 69·6 | 68·7 | 67·1 | 67·1 | 64·1 | 63·6 | 66·0 | 64·9 | 64·3 | 63·0 |
| | 13 | 68·9 | 69·3 | 67·8 | 65·7 | 64·8 | 65·4 ^a | 64·7 | 63·3 | 62·5 | 61·5 | 61·0 | 61·0 |
| | 14 | 64·2 | 64·2 | 63·9 | 64·7 | 63·7 | 63·5 | 63·5 | 62·5 | 62·5 | 61·8 | 61·4 | 61·4 |
| | 15 | 62·6 | 62·4 | 60·8 | 59·5 | 57·7 | 56·1 | 55·1 | 55·2 | 55·2 | 55·4 | 54·9 | 54·3 |
| | 16 | 58·7 | 58·7 | 57·3 | 55·9 | 53·5 | 50·5 | 50·5 ^b | 51·7 | 51·7 | 54·5 | 54·3 | 55·6 |
| | 17 | 54·0 | 53·1 | 53·1 | 51·3 | 49·1 | 49·1 | 49·7 | 49·2 | 50·9 | 50·9 | 51·4 | 51·9 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 55·3 | 55·4 | 56·7 | 55·3 | 54·7 | 53·6 | 52·4 | 51·9 | 50·6 | 50·0 | 50·0 | 51·0 |
| | 20 | 52·2 | 53·5 | 54·1 | 55·2 | 55·1 | 53·2 | 51·9 | 52·1 | 53·2 | 53·9 | 54·8 | 54·7 |
| | 21 | 59·1 | 60·5 | 60·5 | 57·8 | 57·0 | 57·0 | 55·6 | 55·6 | 55·6 | 56·4 | 56·4 | 58·0 |
| | 22 | 60·6 | 60·6 | 60·6 | 58·6 | 58·6 | 59·8 | 59·8 | 62·6 | 66·5 | 64·3 | 65·3 | 68·2 |
| | 23 | 51·1 | 51·2 | 56·3 | 55·1 | 59·2 | 60·4 | 64·7 | 60·9 | 61·2 | 60·0 | 58·3 | 58·3 |
| | 24 | 61·7 | 62·2 | 60·2 | 60·4 | 62·3 | 62·3 | 60·2 | 60·7 | 65·0 | 66·1 | 72·5 | 70·0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 67·9 | 68·8 | 68·8 | 65·8 | 65·5 | 64·4 | 64·4 | 64·4 | 64·8 | 64·8 | 65·5 | 66·1 |
| | 27 | 67·3 | 67·3 | 67·3 | 66·0 | 63·7 | 62·9 | 64·3 | 66·0 | 67·5 | 67·5 | 67·1 | 66·4 |
| | 28 | 70·0 | 70·0 | 69·4 | 69·2 | 67·9 ^b | 67·4 ^a | 67·2 | 67·2 | 67·9 | 67·6 | 68·4 | 67·3 |
| | 29 | 70·3 | 69·3 | 68·9 | 66·9 ^c | 66·7 | 65·7 | 64·8 | 64·8 | 66·1 | 67·3 | 66·9 | 69·1 |
| | 30 | 64·6 | 63·6 | 62·2 | 63·5 | 63·5 | 65·9 | 67·6 | 68·2 | 69·8 | 69·8 | 68·8 | 67·1 |
| | 31 | 59·4 | 61·0 | 60·2 | 58·9 | 59·3 | 59·7 | 61·7 | 61·2 | 61·9 | 62·3 | 61·2 | 59·9 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 60·18 | 60·27 | 59·98 | 59·27 | 58·68 | 57·89 | 57·99 | 58·57 | 59·81 | 59·90 | 59·93 | 60·17 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| AUGUST. | 1 | 72·1 | 72·5 | 73·4 | 73·4 | 73·6 | 73·5 | 74·5 | 75·0 | 75·5 | 75·9 | 76·2 | 76·6 |
| | 2 | 71·8 | 72·0 | 72·2 | 72·5 | 73·0 | 73·5 | 74·0 | 73·8 | 74·3 | 74·4 | 74·6 | 75·0 |
| | 3 | 68·7 | 68·5 | 68·7 | 68·7 | 69·0 | 69·5 | 69·7 | 70·4 | 70·7 | 71·0 | 71·3 | 71·4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 65·3 | 65·5 | 66·0 | 66·5 | 67·0 | 67·5 | 68·0 | 68·5 | 68·8 | 69·3 | 69·5 | 69·5 |
| | 6 | 67·6 | 67·6 | 67·4 | 67·6 | 68·1 | 68·7 | 69·0 | 69·2 | 69·7 | 70·1 | 70·5 | 70·5 |
| | 7 | 66·0 | 66·5 | 66·8 | 67·6 | 67·6 | 68·6 | 68·9 | 69·2 | 69·5 | 70·0 | 70·0 | 70·2 |
| | 8 | 68·4 | 68·4 | 68·4 | 68·4 | 68·6 | 69·0 | 69·6 | 70·1 | 70·5 | 70·8 | 71·3 | 71·7 |
| | 9 | 70·5 | 70·3 | 70·3 | 70·5 | 71·0 | 71·9 | 72·5 | 73·0 | 73·0 | 73·2 | 73·2 | 73·3 |
| | 10 | 70·0 | 70·2 | 70·0 | 69·9 | 69·7 | 70·0 | 70·0 | 70·3 | 70·5 | 70·7 | 71·0 | 71·0 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 63·4 | 63·1 | 63·3 | 63·6 | 64·0 | 64·4 | 65·0 | 65·6 | 66·0 | 66·4 | 66·6 | 66·4 |
| | 13 | 63·6 | 63·5 | 63·6 | 64·1 | 64·8 | 65·0 ^a | 65·8 | 66·5 | 66·9 | 67·2 | 67·6 | 67·6 |
| | 14 | 65·4 | 65·4 | 65·4 | 65·2 | 65·4 | 65·6 | 66·0 | 66·4 | 66·8 | 67·4 | 67·8 | 68·4 |
| | 15 | 66·2 | 66·0 | 67·0 | 67·4 | 68·0 | 68·6 | 69·3 | 69·9 | 70·3 | 71·0 | 71·3 | 71·7 |
| | 16 | 68·4 | 68·6 | 69·0 | 69·0 | 69·5 | 70·0 | 70·4 ^b | 71·3 | 71·9 | 72·2 | 72·7 | 72·7 |
| | 17 | 71·0 | 71·0 | 71·2 | 71·5 | 71·7 | 72·3 | 72·5 | 73·0 | 73·0 | 73·4 | 73·6 | 73·7 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 69·5 | 69·2 | 69·3 | 69·5 | 69·9 | 70·5 | 71·3 | 71·5 | 71·7 | 72·4 | 73·0 | 73·4 |
| | 20 | 70·6 | 70·6 | 70·6 | 70·6 | 70·6 | 70·6 | 70·6 | 70·6 | 70·6 | 70·7 | 70·7 | 70·9 |
| | 21 | 66·4 | 66·4 | 67·2 | 67·5 | 68·1 | 68·4 | 68·5 | 68·5 | 68·5 | 68·5 | 68·0 | 68·4 |
| | 22 | 65·0 | 65·0 | 65·0 | 65·0 | 65·0 | 65·0 | 65·0 | 65·4 | 65·6 | 66·2 | 67·0 | 67·2 |
| | 23 | 68·0 | 68·4 | 68·5 | 68·6 | 68·6 | 68·6 | 68·8 | 69·0 | 69·0 | 69·0 | 69·4 | 69·5 |
| | 24 | 65·0 | 65·5 | 65·5 | 66·0 | 66·4 | 66·7 | 67·0 | 67·6 | 67·6 | 67·6 | 67·6 | 67·4 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 62·6 | 62·4 | 62·6 | 63·0 | 63·7 | 64·3 | 64·6 | 65·0 | 65·4 | 65·6 | 65·6 | 65·6 |
| | 27 | 63·3 | 62·8 | 63·0 | 63·1 | 63·5 | 63·8 | 64·0 | 64·0 | 64·4 | 64·4 | 64·8 | 65·0 |
| | 28 | 62·1 | 62·0 | 62·4 | 62·4 | 63·0 ^b | 63·2 ^a | 63·5 | 63·5 | 64·0 | 64·2 | 64·4 | 64·4 |
| | 29 | 62·0 | 62·0 | 62·2 | 63·0 ^c | 63·3 | 63·6 | 64·2 | 64·3 | 64·5 | 65·0 | 65·3 | 65·6 |
| | 30 | 63·4 | 62·8 | 62·2 | 62·7 | 63·0 | 63·6 | 63·8 | 64·4 | 64·8 | 65·0 | 65·3 | 65·6 |
| | 31 | 66·2 | 66·2 | 66·3 | 66·6 | 67·0 | 67·6 | 68·2 | 68·4 | 68·5 | 68·7 | 69·4 | 69·5 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 66·76 | 66·76 | 66·94 | 67·18 | 67·52 | 67·93 | 68·32 | 68·68 | 68·96 | 69·27 | 69·54 | 69·71 | |

^a Three minutes late.

^b Two minutes late.

^c Four minutes late.

VERTICAL FORCE.

One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 56.0 | 56.0 | 49.8 | 46.1 | 46.1 | 44.5 | 39.6 | 36.9 | 35.5 | 33.5 | 40.8 | 43.5 | 47.78 |
| 58.6 | 55.3 | 53.2 | 41.0 | 49.2 | 49.2 | 48.1 | 42.4 | 47.4 | 46.0 | 49.8 | 51.0 | 50.60 |
| 62.1 | 60.6 | 57.8 | 57.8 | 52.5 | 40.4 | — | — | — | — | — | — | 55.70 |
| — | — | — | — | — | — | 53.2 | 50.4 | 57.5 | 55.5 | 58.8 | 63.7 | 60.90 |
| 62.3 | 60.7 | 58.8 | 58.8 | 59.1 | 59.7 | 59.7 | 60.0 | 58.5 | 58.5 | 59.8 | 59.7 | 59.95 |
| 58.0 | 57.8 | 57.8 | 58.8 | 58.8 | 59.2 | 59.8 | 59.8 | 61.0 | 61.0 | 63.0 | 64.4 | 59.46 |
| 57.9 | 56.9 | 56.9 | 57.8 | 57.8 | 58.1 | 58.1 | 57.9 | 57.6 | 56.8 | 56.8 | 58.5 | 54.62 |
| 54.4 | 54.4 | 53.1 | 54.0 | 53.1 | 53.5 | 50.9 | 50.9 | 53.1 | 53.9 | 53.1 | 54.7 | 50.96 |
| 59.8 | 57.7 | 59.0 | 57.1 | 54.8 | 48.6 | 49.0 | 48.7 | 51.7 | 45.5 | 48.2 | 50.1 | 58.33 |
| 55.7 | 55.9 | 57.0 | 51.5 | 56.0 | 57.0 | — | — | — | — | — | — | 64.95 |
| — | — | — | — | — | — | 64.0 | 65.6 | 64.5 | 64.0 | 68.6 | 68.6 | 64.35 |
| 62.9 | 62.2 | 63.2 | 63.9 | 64.7 | 63.5 | 62.8 | 60.6 | 60.6 | 60.2 | 67.5 | 68.9 | 61.65 |
| 61.0 | 61.0 | 60.1 | 60.7 | 60.7 | 61.3 | 61.3 | 62.7 | 63.6 | 63.6 | 64.3 | 64.2 | 56.32 |
| 61.4 | 58.9 | 58.9 | 59.3 | 59.3 | 60.4 | 60.4 | 60.4 | 60.1 | 60.1 | 61.0 | 62.1 | 53.57 |
| 53.7 | 52.8 | 54.2 | 54.2 | 54.6 | 54.6 | 55.4 | 55.6 | 55.8 | 55.8 | 57.9 | 57.9 | 52.03 |
| 54.0 | 52.7 | 52.7 | 52.8 | 52.8 | 51.9 | 52.7 | 52.7 | 51.4 | 51.4 | 53.4 | 54.3 | 51.35 |
| 51.9 | 51.6 | 51.5 | 53.2 | 51.3 | 51.9 | — | — | — | — | — | — | 54.88 |
| — | — | — | — | — | — | 54.8 | 54.8 | 52.0 | 52.0 | 55.0 | 55.0 | 58.41 |
| 49.1 | 48.7 | 47.5 | 47.5 | 48.6 | 48.6 | 48.6 | 48.5 | 50.4 | 51.5 | 53.3 | 53.3 | 59.55 |
| 54.7 | 54.7 | 54.7 | 55.7 | 55.7 | 55.0 | 55.0 | 56.3 | 57.4 | 56.3 | 58.7 | 59.1 | 56.40 |
| 57.7 | 57.0 | 56.2 | 57.5 | 59.5 | 60.2 | 60.5 | 60.5 | 60.5 | 61.1 | 60.8 | 60.8 | 63.73 |
| 65.8 | 67.7 | 64.3 | 54.5 | 54.5 | 59.2 | 59.2 | 58.2 | 51.7 | 48.8 | 52.1 | 47.8 | 65.60 |
| 57.0 | 58.7 | 58.6 | 55.0 | 57.8 | 42.6 | 50.1 | 52.3 | 56.3 ^c | 52.7 | 57.3 | 58.5 | 65.91 |
| 67.5 | 64.8 | 64.8 | 63.8 | 63.8 | 63.8 | — | — | — | — | — | — | 67.53 |
| — | — | — | — | — | — | 54.0 | 60.9 | 62.1 | 64.4 | 67.9 | 68.0 | 65.88 |
| 66.1 | 65.0 | 65.0 | 63.3 | 64.3 | 65.4 | 64.8 | 64.8 | 64.8 | 65.8 | 67.0 | 67.0 | 62.00 |
| 65.7 | 65.4 | 65.4 | 65.0 | 62.0 | 64.1 | 65.7 | 65.7 | 66.3 | 66.3 | 67.4 | 69.5 | 58.63 |
| 65.8 | 65.8 | 65.8 | 64.5 | 65.5 | 66.2 | 67.1 | 67.6 | 67.6 | 67.2 | 68.9 | 69.3 | 69.24 |
| 71.0 | 72.7 | 70.4 | 77.1 | 44.4 | 68.5 | 69.0 | 60.7 | 52.0 | 60.3 | 64.3 | 64.0 | 68.25 |
| 68.1 | 65.2 | 57.1 | 61.7 | 61.7 | 57.0 | 41.7 | 54.0 | 56.8 | 60.8 | 55.1 | 54.3 | 65.89 |
| 59.9 | 59.9 ^d | 59.0 | 57.3 ^c | 57.0 | 54.4 | — | — | — | — | — | — | 68.25 |
| — | — | — | — | — | — | 52.6 | 55.4 | 55.1 | 55.3 | 56.1 | 58.5 | 68.33 |
| 59.93 | 59.26 | 58.25 | 57.41 | 56.50 | 56.25 | 56.23 | 56.46 | 56.71 | 56.60 | 58.78 | 59.51 | 58.52 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------------------|-------|-------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| 76.7 | 76.7 | 76.7 | 76.3 | 75.8 | 75.5 | 74.7 | 74.3 | 74.0 | 73.3 | 72.5 | 71.8 | 74.60 |
| 75.0 | 74.9 | 74.8 | 74.2 | 73.9 | 73.3 | 72.3 | 71.4 | 71.0 | 70.6 | 70.0 | 69.3 | 72.99 |
| 71.3 | 71.0 | 71.0 | 70.8 | 70.8 | 70.5 | — | — | — | — | — | — | 69.23 |
| — | — | — | — | — | — | 67.6 | 67.0 | 66.8 | 66.0 | 65.6 | 65.4 | 68.13 |
| 69.5 | 69.5 | 69.5 | 69.2 | 69.0 | 68.5 | 68.5 | 68.3 | 68.1 | 68.1 | 68.0 | 67.6 | 68.75 |
| 70.5 | 70.5 | 70.1 | 69.5 | 69.4 | 69.0 | 68.5 | 68.1 | 67.6 | 67.3 | 66.9 | 66.5 | 69.09 |
| 70.4 | 70.5 | 70.4 | 70.3 | 70.1 | 69.8 | 69.8 | 69.5 | 69.5 | 69.3 | 69.0 | 68.6 | 70.65 |
| 72.0 | 71.8 | 72.3 | 72.4 | 72.4 | 71.9 | 72.0 | 71.8 | 71.0 | 71.0 | 71.0 | 70.8 | 72.04 |
| 73.3 | 73.5 | 73.5 | 73.2 | 73.0 | 72.6 | 72.3 | 71.7 | 71.5 | 71.0 | 70.5 | 70.2 | 68.88 |
| 71.0 | 70.8 | 70.6 | 70.4 | 70.0 | 70.0 | — | — | — | — | — | — | 65.13 |
| — | — | — | — | — | — | 65.6 | 65.0 | 64.8 | 64.5 | 63.8 | 63.4 | 66.13 |
| 66.6 | 66.6 | 66.6 | 66.6 | 66.4 | 65.8 | 65.6 | 65.0 | 64.7 | 64.1 | 63.7 | 63.6 | 67.13 |
| 67.6 | 67.6 | 67.6 | 67.4 | 67.1 | 66.9 | 66.4 | 66.6 | 66.4 | 66.0 | 65.6 | 65.6 | 69.58 |
| 69.4 | 69.4 | 69.5 | 68.6 | 68.4 | 68.2 | 67.9 | 67.4 | 67.0 | 67.0 | 66.6 | 66.4 | 71.29 |
| 71.9 | 71.7 | 71.3 | 71.0 | 70.7 | 70.4 | 70.2 | 70.0 | 69.7 | 69.4 | 68.8 | 68.1 | 71.70 |
| 72.6 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.0 | 71.9 | 71.5 | 71.5 | 71.3 | 71.87 |
| 73.5 | 73.5 | 73.1 | 72.5 | 71.7 | 71.0 | — | — | — | — | — | — | 69.68 |
| — | — | — | — | — | — | 69.8 | 69.6 | 69.8 | 69.5 | 69.5 | 69.5 | 67.46 |
| 73.5 | 73.7 | 73.7 | 73.9 | 73.3 | 72.8 | 72.5 | 72.5 | 72.2 | 72.2 | 71.9 | 71.4 | 66.88 |
| 71.0 | 70.8 | 70.5 | 69.5 | 69.2 | 69.0 | 68.4 | 67.6 | 67.3 | 67.3 | 67.3 | 66.7 | 68.24 |
| 68.5 | 68.6 | 68.5 | 68.4 | 67.8 | 67.4 | 66.8 | 66.4 | 65.8 | 65.6 | 65.5 | 65.4 | 65.89 |
| 67.6 | 68.2 | 68.5 | 68.4 | 68.5 | 68.4 | 68.4 | 68.3 | 68.2 | 68.1 | 68.0 | 68.0 | 64.34 |
| 69.5 | 70.0 | 69.2 | 68.6 | 68.1 | 67.7 | 67.3 | 67.1 | 66.8 ^c | 66.6 | 66.0 | 65.5 | 63.90 |
| 67.0 | 67.0 | 67.0 | 66.6 | 66.2 | 66.0 | — | — | — | — | — | — | 63.33 |
| — | — | — | — | — | — | 64.3 | 64.3 | 63.8 | 63.6 | 63.0 | 62.6 | 64.55 |
| 65.5 | 65.4 | 65.0 | 65.3 | 65.0 | 64.6 | 64.6 | 64.0 | 63.6 | 63.6 | 63.6 | 63.5 | 65.37 |
| 65.2 | 65.3 | 65.1 | 64.8 | 64.4 | 64.4 | 63.8 | 63.4 | 63.2 | 62.8 | 62.5 | 62.5 | 68.25 |
| 64.2 | 64.4 | 64.4 | 64.0 | 64.0 | 63.6 | 63.4 | 63.0 | 62.7 | 62.5 | 62.4 | 62.2 | 68.33 |
| 65.9 | 66.4 | 66.4 | 66.0 | 66.9 | 66.4 | 65.0 | 64.8 | 65.4 | 64.0 | 63.6 | 63.4 | 65.89 |
| 65.6 | 66.8 | 67.6 | 67.6 | 67.4 | 67.0 | 66.8 | 66.8 | 66.7 | 66.6 | 66.6 | 66.8 | 68.25 |
| 69.5 | 69.3 ^d | 69.3 | 69.1 ^c | 68.6 | 68.6 | — | — | — | — | — | — | 68.33 |
| — | — | — | — | — | — | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.33 |
| 69.79 | 69.86 | 69.80 | 69.52 | 69.28 | 68.95 | 68.27 | 67.94 | 67.70 | 67.41 | 67.11 | 66.84 | 68.33 |

^d Nine minutes late.

^c Ten minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = .000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| SEPTEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 58.5 | 58.5 | 56.3 | 56.8 | 56.8 | 55.4 | 56.1 | 56.5 | 57.4 | 57.4 | 55.3 | 54.3 |
| | 3 | 61.7 | 61.7 | 60.9 | 60.9 | 58.8 | 58.0 | 59.0 | 58.7 | 58.4 | 58.4 | 57.4 | 56.2 |
| | 4 | 58.4 | 60.2 | 58.7 | 57.5 | 57.7 | 57.7 | 57.7 | 57.9 | 58.5 | 60.5 | 61.6 | 59.3 |
| | 5 | 64.5 | 65.0 | 64.2 | 63.4 | 62.5 | 61.1 | 61.1 | 62.0 | 61.2 | 61.2 | 60.9 | 59.8 |
| | 6 | 64.7 | 64.7 | 63.3 | 60.9 | 59.6 | 58.3 | 57.4 | 58.4 | 57.9 | 57.8 | 57.8 | 56.8 |
| | 7 | 61.7 | 60.7 | 59.0 | 58.0 | 56.0 | 55.8 | 55.8 | 56.9 | 57.3 | 56.4 | 56.4 | 56.4 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 58.4 | 57.4 | 56.9 | 58.1 | 59.2 | 59.9 | 59.2 | 59.8 | 59.8 | 58.2 | 60.3 | 58.2 |
| | 10 | 62.0 | 62.3 | 61.5 | 61.7 | 61.7 | 61.8 | 61.7 | 60.5 | 59.4 | 57.3 | 56.4 | 54.4 |
| | 11 | 58.7 | 58.9 | 57.5 | 57.5 | 57.5 | 56.9 | 56.2 | 56.3 | 55.3 | 56.4 | 54.8 | 54.1 |
| | 12 | 58.6 | 60.5 | 59.3 | 58.7 | 57.3 | 57.8 | 57.0 | 58.1 | 58.1 | 59.2 | 58.5 | 56.8 |
| | 13 | 61.6 | 61.6 | 60.0 | 59.4 | 57.1 | 57.0 | 56.7 | 57.5 | 56.4 | 56.9 | 56.3 | 54.9 |
| | 14 | 61.3 | 59.3 | 58.8 | 58.3 | 57.2 | 56.1 | 58.1 | 56.6 | 56.9 | 55.0 | 53.3 | 52.2 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 54.7 | 54.3 | 53.0 | 52.1 | 50.9 | 49.5 | 49.5 | 49.1 | 49.1 | 48.9 | 48.9 | 46.0 |
| | 17 | 54.1 | 54.6 | 52.9 | 50.8 | 50.5 | 51.1 | 51.0 | 49.4 | 49.2 | 48.2 | 45.4 | 45.4 |
| | 18 | 54.9 | 53.1 | 51.9 | 50.1 | 49.4 | 49.6 | 50.6 | 51.3 | 51.7 | 53.3 | 51.3 | 49.8 |
| | 19 | 52.9 | 51.6 | 51.5 | 52.2 | 51.3 | 50.7 | 50.7 | 51.5 | 52.9 | 50.9 | 50.8 | 49.9 |
| | 20 | 39.3 | 47.4 | 48.3 | 47.6 | 47.3 | 49.7 | 48.9 | 47.8 | 52.6 | 50.7 | 49.4 | 48.5 |
| | 21 | 44.1 | 46.1 | 47.5 | 46.7 | 46.7 | 46.1 | 46.1 | 48.5 | 50.8 | 52.6 | 54.3 | 54.3 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 73.1 | 73.1 | 73.2 | 71.0 | 71.0 | 70.6 | 71.6 | 72.6 | 72.6 | 72.0 | 72.0 | 72.0 |
| | 24 | 76.6 | 78.7 | 77.8 | 76.7 | 78.2 | 76.8 | 79.1 | 79.9 | 79.5 | 78.9 | 77.1 | 76.3 |
| | 25 | 71.1 | 75.4 | 76.5 | 76.5 | 76.4 | 77.6 | 77.6 | 81.0 | 82.3 | 83.9 | 84.1 | 84.1 |
| | 26 | 68.7 | 78.5 | 77.3 | 79.4 | 78.2 | 82.4 | 83.2 | 88.7 | 90.8 | 94.5 | 87.8 | 87.5 |
| | 27 | 66.9 | 81.4 | 83.4 | 82.5 | 82.2 | 83.5 | 79.8 | 86.7 | 88.1 | 87.7 | 85.6 | 85.5 |
| | 28 | 89.3 | 89.7 | 90.0 | 89.7 | 87.8 | 85.8 | 88.5 | 87.8 | 86.5 | 86.9 | 86.2 | 86.2 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 87.8 | 87.3 | 85.9 | 84.9 | 86.9 | 86.9 | 86.2 | 84.6 | 83.1 | 83.1 | 83.1 | 82.5 |
| Hourly Means | 62.54 | 64.08 | 63.42 | 62.86 | 62.33 | 62.24 | 62.36 | 63.12 | 63.43 | 63.45 | 62.60 | 61.66 | |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| SEPTEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 68.2 | 68.3 | 68.4 | 68.4 | 68.5 | 68.6 | 69.0 | 69.0 | 69.6 | 70.1 | 70.6 | 71.4 |
| | 3 | 66.8 | 66.6 | 67.2 | 67.6 | 69.2 | 68.4 | 68.6 | 68.7 | 69.2 | 69.5 | 70.0 | 70.0 |
| | 4 | 66.0 | 67.0 | 67.6 | 67.9 | 68.3 | 68.6 | 68.6 | 69.0 | 69.2 | 69.3 | 69.6 | 69.7 |
| | 5 | 64.2 | 64.0 | 64.0 | 64.5 | 65.5 | 66.0 | 66.5 | 66.6 | 66.8 | 67.0 | 67.3 | 67.3 |
| | 6 | 63.8 | 64.4 | 64.8 | 65.4 | 66.2 | 66.8 | 67.4 | 68.0 | 68.4 | 68.7 | 69.0 | 69.2 |
| | 7 | 65.6 | 65.8 | 66.5 | 67.4 | 67.7 | 68.0 | 68.6 | 69.0 | 69.2 | 69.3 | 69.7 | 69.5 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.6 | 67.6 | 68.2 | 68.2 | 68.6 | 68.6 | 68.6 |
| | 10 | 66.6 | 66.4 | 66.4 | 66.5 | 66.4 | 66.6 | 67.0 | 67.5 | 68.0 | 68.6 | 69.0 | 69.0 |
| | 11 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.6 | 68.0 | 68.4 | 68.7 | 69.0 | 69.0 | 69.1 |
| | 12 | 66.7 | 65.5 | 66.4 | 66.6 | 67.2 | 67.6 | 68.0 | 68.4 | 68.6 | 68.8 | 69.3 | 69.5 |
| | 13 | 66.6 | 66.2 | 66.2 | 66.8 | 67.0 | 67.8 | 68.3 | 68.5 | 68.8 | 69.0 | 69.3 | 69.5 |
| | 14 | 65.6 | 66.0 | 66.2 | 66.6 | 67.3 | 67.7 | 68.3 | 69.0 | 69.5 | 70.0 | 70.5 | 71.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 69.5 | 69.4 | 69.5 | 70.0 | 70.5 | 71.5 | 72.0 | 72.3 | 72.7 | 73.0 | 73.9 | 74.3 |
| | 17 | 69.0 | 68.7 | 69.0 | 69.5 | 70.0 | 71.0 | 71.5 | 72.1 | 72.7 | 73.5 | 74.1 | 74.6 |
| | 18 | 69.3 | 69.9 | 70.0 | 70.2 | 70.2 | 70.8 | 70.9 | 71.1 | 71.3 | 71.3 | 71.4 | 71.5 |
| | 19 | 68.3 | 67.9 | 68.0 | 68.1 | 68.3 | 68.9 | 69.5 | 69.5 | 70.0 | 70.7 | 71.3 | 71.6 |
| | 20 | 69.5 | 69.7 | 70.1 | 70.5 | 71.0 | 71.5 | 72.0 | 72.6 | 73.0 | 73.5 | 73.7 | 73.8 |
| | 21 | 71.0 | 70.8 | 71.3 | 72.0 | 72.4 | 72.4 | 72.0 | 71.4 | 70.7 | 70.2 | 69.5 | 69.1 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 57.8 | 57.8 | 57.8 | 58.4 | 59.0 | 59.2 | 59.4 | 59.2 | 59.3 | 59.3 | 59.3 | 59.6 |
| | 24 | 56.5 | 56.6 | 56.5 | 56.5 | 56.3 | 56.9 | 57.1 | 57.3 | 57.5 | 57.9 | 58.3 | 58.3 |
| | 25 | 56.0 | 55.5 | 55.0 | 55.0 | 55.2 | 55.4 | 55.5 | 55.5 | 55.6 | 55.7 | 55.8 | 55.8 |
| | 26 | 53.6 | 54.0 | 54.3 | 54.3 | 55.3 | 55.3 | 55.6 | 56.0 | 56.2 | 56.2 | 56.2 | 56.3 |
| | 27 | 52.0 | 52.0 | 53.0 | 52.8 | 53.3 | 53.6 | 53.8 | 53.8 | 54.1 | 54.3 | 54.8 | 55.1 |
| | 28 | 51.2 | 50.6 | 50.3 | 50.2 | 50.4 | 51.0 | 51.4 | 52.1 | 52.1 | 52.5 | 52.8 | 53.1 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 52.0 | 51.6 | 52.2 | 52.4 | 53.0 | 54.0 | 54.8 | 55.3 | 55.7 | 56.3 | 57.0 | 57.1 |
| Hourly Means | 63.62 | 63.62 | 63.82 | 64.10 | 64.52 | 64.91 | 65.26 | 65.54 | 65.80 | 66.09 | 66.40 | 66.56 | |

VERTICAL FORCE.

One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 53.1 | 53.7 | 55.0 | 56.4 | 54.2 | 55.6 | 55.6 | 58.7 | 58.8 | 59.3 | 58.2 | 57.3 | 56.47 |
| 54.2 | 54.2 | 54.2 | 54.9 | 56.5 | 54.9 | 52.5 | 58.4 | 59.7 | 59.7 | 59.7 | 61.2 | 57.92 |
| 58.8 | 58.2 | 58.2 | 60.2 | 60.2 | 60.2 | 60.3 | 62.3 | 61.7 | 61.4 | 62.4 | 63.7 | 59.72 |
| 59.5 | 59.5 | 59.5 | 60.9 | 61.9 | 61.8 | 61.9 | 62.2 | 62.7 | 62.9 | 63.6 | 64.7 | 62.00 |
| 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 57.9 | 56.7 | 56.8 | 58.0 | 59.3 | 59.9 | 59.7 | 58.72 |
| 56.8 | 56.5 | 56.5 | 56.5 | 56.5 | 53.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.0 | 47.3 | 46.3 | 54.3 | 58.3 | 58.3 | 55.89 |
| 58.2 | 55.8 | 57.8 | 57.8 | 60.1 | 60.1 | 59.6 | 56.8 | 56.8 | 56.8 | 59.9 | 61.7 | 58.62 |
| 54.4 | 54.4 | 55.6 | 56.0 | 56.0 | 56.0 | 56.0 | 57.8 | 57.8 | 57.6 | 57.8 | 58.3 | 58.27 |
| 55.0 | 54.9 | 54.9 | 56.5 | 56.8 | 57.6 | 56.7 | 57.5 | 57.5 | 58.3 | 58.6 | 58.6 | 56.79 |
| 55.7 | 54.6 | 54.6 | 54.9 | 55.3 | 56.9 | 56.9 | 56.9 | 59.1 | 58.8 | 60.2 | 60.2 | 57.67 |
| 54.1 | 54.4 | 53.8 | 53.8 | 56.3 | 56.8 | 58.3 | 58.7 | 58.7 | 59.0 | 59.0 | 58.7 | 57.37 |
| 52.2 | 50.5 | 52.3 | 50.4 | 44.3 | 50.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.7 | 44.7 | 45.7 | 51.5 | 49.9 | 55.8 | 53.39 |
| 46.0 | 46.3 | 51.7 | 51.7 | 50.8 | 50.8 | 50.8 | 51.7 | 51.7 | 53.0 | 54.1 | 54.1 | 50.78 |
| 42.3 | 42.3 | 46.3 | 42.9 | 47.7 | 48.3 | 49.5 | 49.1 | 49.0 | 49.7 | 51.8 | 54.1 | 48.98 |
| 49.5 | 46.9 | 47.5 | 48.0 | 46.5 | 48.5 | 44.8 | 49.2 | 51.3 | 50.9 | 51.3 | 53.0 | 50.18 |
| 49.9 | 49.3 | 50.7 | 33.8 | 45.3 | 47.3 | 38.9 | 47.9 | 47.5 | 52.3 | 52.3 | 36.7 | 48.70 |
| 46.8 | 46.6 | 47.1 | 43.7 | 44.3 | 47.0 | 42.0 | 36.8 | 43.1 | 41.2 | 43.3 | 43.7 | 45.96 |
| 56.4 | 57.1 | 56.3 | 60.7 | 60.7 | 60.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70.7 | 68.3 | 54.6 | 65.4 | 69.7 | 70.9 | 55.63 |
| 72.0 | 71.7 | 72.7 | 72.9 | 75.1 | 70.3 | 70.0 | 68.8 | 69.3 | 71.2 | 71.2 | 75.9 | 71.91 |
| 76.3 | 75.4 | 75.4 | 73.0 | 69.9 | 73.2 | 74.6 | 76.4 | 77.0 | 77.6 | 77.0 | 77.0 | 76.60 |
| 93.9 | 96.3 | 83.0 | 80.8 | 78.1 | 81.3 | 83.9 | 83.2 | 73.2 | 70.0 | 73.7 | 63.8 | 79.49 |
| 88.0 | 84.0 | 83.9 | 83.5 | 83.5 | 78.2 | 78.2 | 63.2 | 46.3 | 68.4 | 68.0 | 64.2 | 78.60 |
| 84.8 | 84.7 | 84.7 | 81.8 | 75.8 | 70.3 | 83.2 | 85.7 | 86.9 | 87.5 | 88.0 | 88.3 | 83.12 |
| 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 89.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65.6 | 65.6 | 67.6 | 75.9 | 79.6 | 86.5 | 84.22 |
| 81.9 | 83.6 | 73.8 | 73.9 | 74.4 | 69.9 | 62.9 | 17.5 | 3.8 | 2.2 | 34.5 | 32.8 | 68.06 |
| 61.76 | 61.40 | 61.18 | 60.36 | 60.57 | 60.66 | 59.61 | 57.66 | 56.16 | 58.75 | 60.88 | 60.77 | 61.40 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 71.5 | 71.5 | 71.2 | 70.5 | 70.0 | 69.3 | 69.3 | 68.5 | 68.4 | 68.2 | 67.8 | 67.2 | 69.31 |
| 70.4 | 70.4 | 70.4 | 69.7 | 69.0 | 68.6 | 68.5 | 68.0 | 67.7 | 67.4 | 67.1 | 66.6 | 68.57 |
| 69.5 | 69.0 | 68.6 | 68.4 | 67.3 | 66.9 | 66.0 | 66.0 | 65.8 | 65.6 | 65.0 | 64.6 | 67.65 |
| 67.4 | 67.3 | 66.8 | 66.9 | 66.8 | 66.6 | 66.0 | 65.5 | 65.0 | 64.8 | 64.3 | 63.8 | 65.87 |
| 69.2 | 69.2 | 68.9 | 68.7 | 68.3 | 68.0 | 67.6 | 67.4 | 67.0 | 66.7 | 66.4 | 66.0 | 67.31 |
| 69.5 | 69.5 | 69.5 | 69.5 | 69.0 | 68.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68.7 | 68.5 | 68.3 | 68.3 | 68.3 | 67.9 | 68.41 |
| 68.6 | 69.0 | 69.0 | 68.6 | 68.4 | 68.0 | 67.6 | 67.6 | 67.4 | 67.4 | 67.1 | 66.8 | 67.91 |
| 69.3 | 69.5 | 69.3 | 69.1 | 68.8 | 68.5 | 68.3 | 68.4 | 68.2 | 68.0 | 68.0 | 67.6 | 67.96 |
| 69.3 | 69.5 | 69.0 | 68.7 | 68.5 | 68.5 | 68.2 | 68.0 | 67.5 | 67.5 | 67.0 | 66.8 | 68.14 |
| 69.7 | 69.8 | 69.7 | 69.3 | 69.0 | 68.6 | 68.4 | 67.6 | 67.2 | 66.8 | 66.6 | 66.4 | 68.03 |
| 69.5 | 69.8 | 69.5 | 69.1 | 68.8 | 68.5 | 67.8 | 67.4 | 67.0 | 66.6 | 66.1 | 65.8 | 67.91 |
| 71.0 | 71.4 | 71.2 | 71.0 | 72.0 | 72.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70.0 | 70.6 | 70.2 | 70.0 | 70.0 | 69.6 | 69.45 |
| 74.5 | 74.3 | 74.0 | 73.7 | 73.0 | 72.6 | 72.0 | 71.7 | 71.0 | 70.3 | 70.2 | 69.7 | 71.90 |
| 74.6 | 74.5 | 74.1 | 73.8 | 73.7 | 73.5 | 73.0 | 72.5 | 72.0 | 70.8 | 70.3 | 69.6 | 72.00 |
| 71.8 | 72.5 | 72.5 | 72.1 | 72.5 | 72.9 | 72.1 | 71.3 | 70.5 | 70.1 | 69.4 | 69.0 | 71.03 |
| 71.6 | 72.0 | 72.0 | 71.8 | 71.4 | 71.2 | 71.5 | 70.9 | 70.4 | 70.0 | 69.8 | 69.5 | 70.18 |
| 73.8 | 73.7 | 73.7 | 73.5 | 73.2 | 72.6 | 72.5 | 72.5 | 72.3 | 72.0 | 71.7 | 71.4 | 72.24 |
| 68.5 | 68.0 | 67.3 | 66.4 | 65.8 | 65.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.6 | 59.3 | 58.8 | 58.8 | 58.6 | 58.0 | 66.95 |
| 59.6 | 59.0 | 58.9 | 58.7 | 59.3 | 59.0 | 59.3 | 58.6 | 58.2 | 57.6 | 57.3 | 56.9 | 58.69 |
| 58.6 | 58.5 | 58.8 | 58.4 | 58.2 | 58.0 | 57.6 | 57.4 | 57.0 | 56.6 | 56.4 | 56.3 | 57.40 |
| 55.9 | 55.7 | 55.6 | 55.5 | 55.4 | 55.1 | 55.0 | 54.7 | 54.5 | 54.3 | 54.1 | 54.3 | 55.25 |
| 56.3 | 56.6 | 56.1 | 56.0 | 55.7 | 55.2 | 55.0 | 54.7 | 54.3 | 53.3 | 52.6 | 52.6 | 55.07 |
| 55.2 | 55.2 | 54.8 | 54.3 | 53.8 | 53.5 | 52.7 | 52.3 | 52.0 | 51.6 | 51.3 | 51.0 | 53.35 |
| 53.1 | 53.1 | 53.0 | 52.7 | 52.4 | 52.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.2 | 53.2 | 52.8 | 52.6 | 52.6 | 52.1 | 52.12 |
| 57.3 | 56.6 | 56.1 | 55.5 | 55.0 | 54.6 | 54.3 | 55.1 | 55.3 | 54.9 | 54.9 | 54.5 | 54.81 |
| 66.63 | 66.62 | 66.40 | 66.08 | 65.81 | 65.50 | 64.97 | 64.71 | 64.35 | 64.01 | 63.72 | 63.36 | 65.10 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah: = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. } } | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| OCTOBER. | 1 | 39·4 | 49·6 | 63·3 | 73·1 | 80·0 | 91·5 | 89·3 | 97·4 | 94·4 | 92·8 | 101·2 | 96·2 |
| | 2 | 86·3 | 88·3 | 85·7 | 85·6 | 84·8 | 83·8 | 83·6 ^a | 81·3 | 82·4 | 82·4 | 79·7 | 79·5 |
| | 3 | 79·3 | 78·8 | 77·0 | 77·0 | 76·3 | 74·5 | 74·5 | 74·6 | 75·9 | 75·5 | 73·4 | 73·4 |
| | 4 | 79·3 | 79·3 | 78·1 | 78·0 | 76·9 | 75·3 | 75·7 | 75·1 | 76·4 | 77·1 | 76·0 | 76·0 |
| | 5 | 80·7 | 80·7 | 81·2 | 81·2 | 79·8 | 78·9 | 80·7 | 81·6 | 84·6 | 82·7 ^b | 82·7 | 82·0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 86·3 | 88·3 | 88·3 | 89·3 | 86·9 | 86·0 | 86·0 | 87·5 | 87·6 | 86·8 | 85·6 | 85·2 |
| | 8 | 91·4 | 91·2 | 91·6 | 87·3 | 87·3 | 85·1 | 84·8 ^c | 84·8 | 84·8 | 81·1 | 79·3 | 78·0 |
| | 9 | 77·8 | 74·5 | 74·5 | 79·3 | 74·8 | 73·6 | 73·6 | 75·2 | 74·4 | 74·4 | 74·4 | 68·1 |
| | 10 | 76·4 | 76·4 | 76·4 | 76·4 | 75·5 | 74·7 | 74·7 | 77·6 | 77·6 | 78·1 | 76·5 | 76·5 |
| | 11 | 84·2 | 84·2 | 84·2 | 83·5 | 80·8 | 78·5 | 79·5 | 81·8 | 80·5 | 80·0 ^d | 79·1 | 78·0 |
| | 12 | 86·3 | 87·8 | 86·8 | 85·6 | 84·3 | 81·5 | 82·8 | 81·2 | 81·2 | 81·3 | 79·3 | 80·6 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 84·3 | 84·3 | 82·2 | 83·9 | 80·3 | 80·1 | 78·3 | 79·0 | 79·7 | 82·0 | 82·7 | 79·6 |
| | 15 | 78·9 | 78·8 | 81·0 | 79·0 | 76·7 | 75·1 | 75·3 | 76·4 | 76·9 | 76·7 | 76·9 | 76·9 |
| | 16 | 83·3 | 83·8 | 84·8 | 81·9 | 80·5 | 79·4 | 80·0 | 80·0 | 80·2 | 80·2 | 80·1 | 79·4 |
| | 17 | 84·2 | 82·7 | 84·4 | 85·1 | 83·4 | 83·4 | 83·4 | 83·5 | 82·2 | 83·5 | 85·3 | 84·5 |
| | 18 | 82·6 | 84·4 | 87·1 | 86·6 | 85·4 | 85·4 | 85·4 | 85·4 | 85·4 | 85·0 | 85·5 | 84·4 |
| | 19 | 85·1 | 86·4 | 84·0 | 84·3 | 85·1 | 83·3 | 83·5 | 83·9 | 85·6 | 85·6 | 86·4 | 86·2 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 68·6 | 78·8 | 82·5 | 91·6 | 94·2 | 94·1 | 94·1 | 94·1 | 94·5 | 94·7 | 95·0 | 93·0 |
| | 22 | 89·6 | 90·4 | 91·1 | 90·1 | 89·0 | 88·1 | 86·6 | 86·6 | 86·6 | 85·9 | 83·4 | 83·3 |
| | 23 | 85·3 | 86·4 | 86·4 | 88·0 | 88·0 | 88·0 | 89·1 | 88·2 | 87·3 | 86·1 | 84·5 | 84·4 |
| | 24 | 81·6 | 83·7 | 83·5 | 81·3 | 79·5 | 78·4 | 79·2 | 79·8 | 79·1 | 78·2 | 77·9 | 77·6 |
| | 25 | 64·9 | 73·5 | 76·1 | 75·3 | 75·7 | 74·7 | 74·8 | 76·2 | 79·2 | 83·9 | 80·7 | 81·2 |
| | 26 | 72·4 | 78·3 | 78·9 | 78·9 | 79·9 | 82·1 | 84·0 | 83·5 | 85·8 | 88·5 | 88·5 | 90·8 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 93·4 | 97·7 | 97·7 | 97·8 | 96·0 | 96·0 | 96·1 | 97·3 | 97·3 | 99·0 | 100·2 | 102·2 |
| | 29 | 100·5 | 100·5 | 101·0 | 100·5 | 101·9 | 104·0 | 103·4 | 104·1 | 104·1 | 106·0 | 102·6 | 105·1 |
| | 30 | 95·8 | 98·0 | 98·8 | 98·8 | 97·5 | 97·4 | 97·4 | 96·2 | 96·2 | 97·7 | 98·2 | 98·7 |
| | 31 | 98·7 | 99·9 | 98·8 | 97·2 | 96·2 | 94·4 | 94·4 | 94·4 | 94·8 | 95·1 | 94·4 | 92·3 |
| Hourly Means | 82·10 | 83·95 | 84·64 | 85·06 | 84·32 | 83·97 | 84·08 | 84·78 | 84·95 | 85·20 | 84·80 | 84·19 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| OCTOBER. | 1 | 53·8 | 53·1 | 54·0 | 53·9 | 53·9 | 54·5 | 54·8 | 55·2 | 55·5 | 56·1 | 56·5 | 56·8 |
| | 2 | 52·7 | 52·6 | 54·9 | 54·3 | 54·6 | 55·1 | 55·3 | 55·8 ^a | 56·3 | 56·8 | 57·3 | 57·7 |
| | 3 | 57·5 | 57·3 | 57·5 | 58·0 | 58·4 | 58·7 | 59·2 | 59·3 | 59·4 | 59·8 | 60·2 | 60·6 |
| | 4 | 57·0 | 56·6 | 57·0 | 57·0 | 57·2 | 57·9 | 58·5 | 59·2 | 59·2 | 59·2 | 59·2 | 59·3 |
| | 5 | 56·1 | 56·1 | 55·8 | 55·7 | 55·6 | 55·6 | 55·7 | 56·1 | 56·1 | 56·3 ^b | 56·3 | 56·3 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 52·1 | 52·1 | 51·8 | 51·0 | 51·4 | 51·8 | 52·0 | 52·6 | 52·6 | 53·0 | 53·5 | 53·8 |
| | 8 | 49·3 | 49·5 | 49·8 | 51·0 | 50·8 | 51·6 | 52·4 ^c | 53·3 | 54·2 | 55·6 | 56·3 | 57·0 |
| | 9 | 56·3 | 56·3 | 56·6 | 56·8 | 58·0 | 58·8 | 59·2 | 59·5 | 60·0 | 60·5 | 61·0 | 62·0 |
| | 10 | 58·0 | 57·8 | 57·5 | 57·7 | 57·4 | 57·6 | 57·6 | 57·8 | 57·5 | 57·8 | 58·3 | 58·2 |
| | 11 | 53·5 | 53·3 | 53·3 | 53·8 | 54·2 | 54·9 | 55·0 | 55·3 | 55·9 | 56·3 ^d | 56·7 | 57·3 |
| | 12 | 52·1 | 51·9 | 52·1 | 52·5 | 53·1 | 53·9 | 54·5 | 54·9 | 55·3 | 55·5 | 56·2 | 56·5 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 54·4 | 54·5 | 54·4 | 54·1 | 54·3 | 54·6 | 54·6 | 54·8 | 54·8 | 54·8 | 55·0 | 55·4 |
| | 15 | 56·0 | 55·7 | 56·0 | 56·0 | 56·3 | 56·8 | 57·0 | 57·0 | 57·0 | 57·0 | 57·1 | 57·1 |
| | 16 | 53·7 | 53·3 | 53·5 | 54·7 | 54·5 | 54·5 | 54·7 | 55·0 | 55·0 | 55·3 | 55·8 | 55·3 |
| | 17 | 53·9 | 53·9 | 53·5 | 53·3 | 53·4 | 53·4 | 53·4 | 53·5 | 53·5 | 53·5 | 53·3 | 53·5 |
| | 18 | 53·0 | 52·7 | 52·3 | 52·2 | 52·0 | 52·2 | 52·3 | 52·3 | 52·3 | 52·3 | 52·3 | 52·5 |
| | 19 | 52·3 | 52·0 | 52·0 | 52·0 | 51·7 | 51·8 | 51·5 | 51·5 | 51·4 | 51·5 | 51·3 | 51·1 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 46·0 | 46·0 | 48·1 | 46·6 | 47·0 | 47·6 | 48·0 | 48·4 | 48·6 | 48·8 | 49·4 | 49·5 |
| | 22 | 50·1 | 50·1 | 49·8 | 49·9 | 50·9 | 51·6 | 52·3 | 53·0 | 53·3 | 54·0 | 54·7 | 54·9 |
| | 23 | 51·4 | 51·4 | 51·2 | 51·1 | 51·1 | 51·5 | 52·0 | 52·6 | 53·0 | 53·9 | 54·5 | 54·9 |
| | 24 | 55·1 | 54·3 | 55·1 | 55·3 | 56·1 | 56·3 | 56·5 | 57·0 | 57·7 | 58·3 | 58·3 | 58·4 |
| | 25 | 56·5 | 56·5 | 57·0 | 57·0 | 57·2 | 57·4 | 57·8 | 57·9 | 58·4 | 58·4 | 59·0 | 59·4 |
| | 26 | 55·5 | 55·3 | 55·2 | 55·1 | 55·0 | 5·1 | 55·3 | 55·8 | 55·5 | 55·5 | 55·3 | 55·5 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 46·0 | 45·5 | 45·5 | 45·0 | 45·0 | 45·3 | 45·4 | 45·4 | 45·4 | 45·4 | 45·2 | 45·1 |
| | 29 | 4·1 | 42·9 | 42·5 | 42·4 | 42·2 | 41·6 | 41·8 | 41·8 | 41·8 | 42·2 | 43·0 | 43·0 |
| | 30 | 4·1 | 44·1 | 44·0 | 44·0 | 44·1 | 45·0 | 45·4 | 45·8 | 45·8 | 45·8 | 45·8 | 45·6 |
| | 31 | 4·8 | 44·4 | 44·4 | 45·1 | 45·7 | 46·6 | 46·8 | 47·6 | 48·3 | 48·7 | 49·0 | 49·5 |
| Hourly Means | 52·38 | 52·19 | 52·40 | 52·43 | 52·63 | 53·03 | 53·30 | 53·64 | 53·84 | 54·16 | 54·46 | 54·67 | |

^a Five minutes late.

^b Two minutes late.

^c Eight minutes late.

VERTICAL FORCE.

One Scale Division = '000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 82.1 | 81.9 | 80.6 | 80.3 | 79.7 | 79.7 | 82.9 | 82.8 | 82.8 | 84.5 | 84.5 | 85.3 | 81.47 |
| 79.5 | 80.2 | 79.1 | 74.3 | 74.3 | 77.5 | 77.5 | — | 75.1 ^b | 74.9 | 79.0 | 77.8 | 80.60 |
| 73.8 | 73.8 | 75.2 | 76.0 | 76.0 | 76.0 | 73.5 | 73.5 | 75.8 | 77.8 | 78.0 | 78.3 | 75.75 |
| 74.3 | 75.9 | 80.7 | 82.6 | 83.0 | 84.0 | 84.0 | 74.8 | 72.2 | 79.8 | 79.8 | 79.8 | 78.09 |
| 82.5 | 82.8 | 81.7 | 81.7 | 83.0 | 83.0 | — | — | — | — | — | — | 82.31 |
| — | — | — | — | — | — | 81.1 | 83.6 | 84.5 | 84.9 | 84.7 | 85.2 | 82.31 |
| 84.7 | 86.3 | 87.4 | 85.3 | 86.4 | 76.7 | 83.0 | 87.0 | 87.0 | 87.0 | 89.4 | 91.4 | 86.48 |
| 78.0 | 78.7 | 78.9 | 78.8 | 78.8 | 80.4 | 80.4 | 79.8 | 79.8 | 79.0 | 78.8 | 77.8 | 82.33 |
| 68.1 | 69.4 | 69.4 | 71.9 | 73.2 | 73.4 | 75.1 | 75.1 | 77.0 | 77.0 | 76.2 | 76.2 | 74.03 |
| 76.6 | 77.9 | 77.4 | 78.0 | 78.3 | 78.7 | 79.0 | 79.2 | 80.2 | 83.6 | 84.0 | 84.3 | 78.08 |
| 78.0 | 78.4 | 79.0 | 79.9 | 79.8 | 80.8 | 80.8 | 81.4 | 81.4 | 83.6 | 83.6 | 84.7 | 81.07 |
| 78.1 | 77.9 | 80.4 | 80.4 | 80.4 | 80.4 | — | — | — | — | — | — | 82.10 |
| — | — | — | — | — | — | 80.2 | 82.6 | 82.6 | 82.1 | 84.0 | 82.6 | 82.10 |
| 79.9 | 80.9 | 79.7 | 79.7 | 80.0 | 78.9 | 78.9 | 75.3 | 77.5 | 71.0 | 74.4 | 76.8 | 79.56 |
| 76.6 | 78.9 | 78.9 | 78.9 | 78.9 | 79.9 | 78.3 | 78.7 | 78.7 | 80.1 | 79.2 | 81.6 | 78.22 |
| 79.4 | 80.2 | 79.4 | 79.8 | 80.2 | 80.9 | 79.9 | 79.9 | 84.3 | 84.1 | 84.2 | 83.3 | 81.22 |
| 85.0 | 84.2 | 84.1 | 84.3 | 83.7 | 83.1 | 82.6 | 83.7 | 83.7 | 84.1 | 84.1 | 81.5 | 86.74 |
| 84.7 | 85.1 | 85.7 | 85.7 | 85.7 | 85.3 | 85.3 | 83.3 | 84.3 | 84.3 | 84.3 | 84.3 | 85.02 |
| 86.3 | 86.3 | 87.6 | 87.6 | 87.6 | 85.8 | — | — | — | — | — | — | 79.23 |
| — | — | — | — | — | — | — ^e | 40.0 | 69.9 | 61.7 | 50.8 | 59.4 | 79.23 |
| 94.1 | 91.3 | 91.3 | 86.6 | 85.9 | 85.9 | 85.9 | 88.2 | 89.2 | 87.4 | 87.4 | 89.6 | 89.08 |
| 81.9 | 84.3 | 84.3 | 84.3 | 83.5 | 84.7 | 84.9 | 84.9 | 83.4 | 81.3 | 82.8 | 82.8 | 85.57 |
| 84.2 | 83.1 | 83.2 | 82.7 | 81.7 | 80.3 | 80.0 | 78.9 | 80.1 | 80.8 | 80.4 | 80.2 | 84.05 |
| 79.8 | 82.0 | 84.7 | 81.8 | 81.8 | 81.7 | 78.4 | 68.0 | 69.2 | 62.6 | 51.0 | 59.0 | 77.08 |
| 86.3 | 85.3 | 83.2 | 81.7 | 75.8 | 75.8 | 76.8 | 66.2 | 65.2 | 59.6 | 60.8 | 64.7 | 74.90 |
| 87.2 | 84.8 | 87.8 | 85.9 | 78.2 | 76.2 | — | — | — | — | — | — | 85.20 |
| — | — | — | — | — | — | 89.3 | 90.4 | 91.9 | 94.6 | 94.6 | 92.2 | 85.20 |
| 99.5 | 101.6 | 101.1 | 100.5 | 99.8 | 98.1 | 98.6 | 96.9 | 96.6 | 100.3 | 100.3 | 100.4 | 98.52 |
| 103.5 | 102.7 | 102.1 | 101.3 | 99.4 | 100.7 | 100.7 | 100.7 | 100.7 | 93.5 | 92.6 | 97.4 | 101.21 |
| 98.9 | 98.5 | 98.1 | 98.4 | 98.4 | 96.6 | 97.7 | 96.7 | 98.3 | 102.0 | 101.8 | 97.5 | 98.07 |
| 92.3 | 92.3 | 93.7 | 93.7 | 93.5 | 93.5 | — | 92.6 | 94.0 | 94.8 | 93.9 | 96.9 | 94.86 |
| 83.53 | 83.88 | 84.25 | 83.78 | 83.22 | 82.89 | 82.99 | 81.32 | 82.42 | 82.09 | 81.65 | 82.63 | 83.62 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|----------------|-------|-------------------|-------|-------|-------|-------|
| 57.0 | 56.8 | 56.8 | 56.3 | 55.5 | 55.2 | 55.0 | 54.5 | 54.0 | 53.5 | 53.1 | 53.0 | 54.95 |
| 58.1 | 58.1 | 58.3 | 58.8 | 58.8 | 58.5 | 58.1 | — | 58.3 ^b | 58.3 | 58.3 | 57.8 | 56.73 |
| 60.2 | 60.0 | 59.8 | 59.4 | 58.9 | 58.7 | 59.1 | 58.7 | 58.5 | 58.2 | 57.8 | 57.3 | 58.85 |
| 59.6 | 59.6 | 59.1 | 59.2 | 58.6 | 58.3 | 57.8 | 57.5 | 57.2 | 56.8 | 56.7 | 56.4 | 58.09 |
| 56.3 | 56.3 | 56.3 | 56.1 | 56.0 | 55.8 | — | — | — | — | — | — | 55.37 |
| — | — | — | — | — | — | 54.7 | 54.1 | 53.5 | 53.0 | 52.8 | 52.3 | 55.37 |
| 53.8 | 53.6 | 53.3 | 52.9 | 52.4 | 52.2 | 52.0 | 51.5 | 51.1 | 50.8 | 50.2 | 49.8 | 52.14 |
| 57.3 | 57.1 | 57.1 | 57.1 | 57.0 | 56.8 | 56.8 | 57.3 | 56.8 | 56.7 | 56.3 | 56.3 | 54.72 |
| 61.8 | 61.0 | 60.6 | 60.6 | 60.2 | 59.6 | 59.1 | 59.2 | 59.0 | 58.4 | 58.0 | 57.8 | 59.18 |
| 58.0 | 57.8 | 57.3 | 57.3 | 56.8 | 56.4 | 55.8 | 55.5 | 54.8 | 54.4 | 54.0 | 53.7 | 56.88 |
| 57.3 | 57.0 | 56.7 | 56.3 | 55.7 | 55.4 | 55.1 | 54.3 | 53.5 | 53.0 | 52.3 | 52.3 | 54.93 |
| 56.4 | 56.3 | 56.0 | 55.5 | 55.5 | 55.5 | — | — | — | — | — | — | 54.60 |
| — | — | — | — | — | — | 54.6 | 54.4 | 54.4 | 54.4 | 54.4 | 54.0 | 54.60 |
| 55.8 | 56.0 | 56.1 | 56.3 | 56.1 | 56.1 | 56.1 | 56.4 | 56.5 | 56.5 | 56.4 | 56.0 | 55.42 |
| 56.5 | 56.1 | 56.3 | 55.9 | 55.6 | 55.3 | 55.3 | 55.0 | 55.0 | 54.7 | 54.5 | 54.0 | 55.97 |
| 55.5 | 55.3 | 55.3 | 55.3 | 55.0 | 54.7 | 54.7 | 54.3 | 54.1 | 54.0 | 54.0 | 54.0 | 54.65 |
| 53.5 | 53.8 | 54.2 | 53.9 | 53.7 | 53.7 | 53.7 | 53.7 | 53.5 | 53.3 | 53.3 | 53.3 | 53.57 |
| 52.5 | 52.3 | 52.3 | 52.3 | 52.5 | 52.5 | 52.7 | 53.3 | 53.6 | 53.6 | 53.6 | 52.5 | 52.59 |
| 51.1 | 50.5 | 50.2 | 49.9 | 49.8 | 49.2 | — | — | — | — | — | — | 50.20 |
| — | — | — | — | — | — | — ^e | 47.2 | 47.6 | 46.6 | 46.4 | 46.0 | 50.20 |
| 49.5 | 49.7 | 49.9 | 50.3 | 50.3 | 50.5 | 50.5 | 50.3 | 50.0 | 50.2 | 50.2 | 49.9 | 48.97 |
| 55.1 | 54.9 | 54.3 | 53.8 | 53.5 | 53.3 | 53.0 | 52.4 | 52.2 | 52.1 | 52.0 | 51.9 | 52.63 |
| 55.3 | 56.0 | 56.1 | 55.9 | 56.2 | 56.3 | 56.4 | 56.1 | 55.6 | 55.5 | 55.5 | 55.6 | 54.13 |
| 58.2 | 57.7 | 57.4 | 57.1 | 57.0 | 57.0 | 57.0 | 57.2 | 57.0 | 57.0 | 56.7 | 56.5 | 56.84 |
| 58.7 | 58.3 | 58.8 | 58.3 | 57.9 | 57.7 | 57.3 | 57.2 | 56.8 | 56.3 | 56.2 | 56.0 | 57.58 |
| 55.5 | 55.7 | 55.5 | 55.5 | 55.3 | 55.3 | — | — | — | — | — | — | 53.19 |
| — | — | — | — | — | — | 47.0 | 47.0 | 47.0 | 46.4 | 46.2 | 46.1 | 53.19 |
| 44.9 | 44.6 | 44.5 | 44.1 | 44.0 | 44.0 | 43.7 | 43.6 | 43.4 | 43.3 | 43.3 | 43.3 | 44.62 |
| 43.0 | 43.6 | 43.8 | 43.9 | 43.9 | 43.8 | 43.8 | 44.1 | 44.2 | 44.3 | 43.6 | 44.0 | 43.10 |
| 45.7 | 45.7 | 45.7 | 45.7 | 46.0 | 46.3 | 46.1 | 45.9 | 45.8 | 45.6 | 45.6 | 45.1 | 45.36 |
| 49.5 | 49.1 | 48.7 | 48.0 | 47.7 | 47.3 | — | 46.8 | 46.8 | 46.6 | 46.2 | 46.0 | 47.11 |
| 54.67 | 54.55 | 54.46 | 54.29 | 54.07 | 53.90 | 53.82 | 52.98 | 52.97 | 52.72 | 52.50 | 52.27 | 53.43 |

^d Three minutes late.

^e Out of the field of the telescope.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------------|-------|
| One Scale Division = .000062 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen } Time. } | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| NOVEMBER. | 1 | 98.2 | 98.3 | 97.5 | 95.0 | 93.7 | 92.3 | 92.3 | 90.6 | 91.6 | 92.8 | 94.3 | 93.8 |
| | 2 | 90.4 | 90.4 | 95.6 | 88.7 | 86.8 | 85.8 | 84.8 | 85.3 | 86.7 | 88.5 | 87.5 | 86.4 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 90.3 | 90.9 | 92.3 | 91.0 | 90.9 | 90.9 | 89.8 | 89.8 | 91.6 | 91.2 | 91.2 | 92.4 |
| | 5 | 90.8 | 91.7 | 91.3 | 90.4 | 89.0 | 90.4 | 90.2 | 90.2 | 89.7 | 88.3 | 87.9 | 87.9 |
| | 6 | 88.7 | 90.1 | 89.5 | 88.4 | 92.0 | 92.6 | 88.8 | 90.7 | 90.0 | 88.3 | 88.3 | 87.5 |
| | 7 | 91.1 | 91.5 | 91.5 | 90.2 | 89.4 | 87.7 | 86.8 | 85.1 | 85.9 | 86.2 | 86.2 | 85.5 |
| | 8 | 87.6 | 87.6 | 89.6 | 88.6 | 88.6 | 87.9 | 88.3 | 90.3 | 89.6 | 89.6 | 89.6 | 89.4 |
| | 9 | 93.1 | 93.1 | 95.2 | 95.2 | 95.7 | 95.1 | 95.1 | 94.8 | 94.8 | 94.3 | 91.0 | 91.0 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 92.3 | 87.7 | 90.2 | 90.2 | 91.6 | 92.0 | 93.6 | 93.0 | 93.8 | 100.4 | 101.4 | 95.9 |
| | 12 | 90.8 | 91.1 | 91.4 | 90.4 | 89.8 | 91.7 | 91.2 | 91.2 | 90.7 | 90.0 | 90.0 | 90.0 |
| | 13 | 89.9 | 90.4 | 89.1 | 85.4 | 89.1 | 88.7 | 90.1 | 91.3 | 91.9 | 92.9 | 92.9 | 91.3 |
| | 14 | 93.3 | 97.8 | 92.9 | 91.2 | 92.6 | 92.6 | 94.1 | 94.0 | 94.0 | 94.0 | 94.0 | 93.3 |
| | 15 | 94.0 | 94.3 | 94.0 | 93.3 | 93.3 | 93.9 | 93.9 | 94.8 | 94.8 | 93.5 | 92.8 | 91.0 |
| | 16 | 74.0 | 71.5 | 87.8 | 88.9 | 91.2 | 94.8 | 94.2 | 100.6 | 104.8 | 105.0 | 99.4 | 99.9 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 91.2 | 94.9 | 96.1 | 96.1 | 95.4 | 96.3 | 96.3 | 97.4 | 98.3 | 99.5 | 101.1 | 101.1 |
| | 19 | 91.5 | 95.6 | 96.7 | 97.6 | 97.9 | 99.9 | 99.9 | 100.5 | 100.9 | 100.9 | 100.2 | 100.2 |
| | 20 | 97.9 | 99.3 | 100.3 | 99.7 | 98.1 | 98.2 | 98.3 | 98.3 | 98.8 | 97.0 | 96.3 | 94.8 |
| | 21 | 98.1 | 99.0 | 99.0 | 96.5 | 95.7 | 95.0 | 93.5 | 92.2 | 93.8 | 93.6 | 93.1 | 92.7 |
| | 22 | 75.6 | 84.3 | 88.2 | 90.5 | 90.5 | 90.8 | 92.3 | 96.5 | 104.8 | 105.1 | 99.8 | 105.1 |
| | 23 | 85.5 | 91.9 | 91.9 | 91.2 | 93.2 | 93.2 | 92.5 | 93.2 | 97.3 | 96.0 | 92.8 | 92.7 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 107.1 | 106.9 | 105.5 | 107.8 | 107.5 | 108.0 | 108.0 | 109.1 | 109.9 | 109.9 | 109.6 | 109.6 |
| | 26 | 109.2 | 109.2 | 110.2 | 110.2 | 110.2 | 108.8 | 108.8 | 110.3 | 110.3 | 110.0 ^b | 109.7 | 108.9 |
| | 27 | 109.4 | 109.2 | 112.0 | 109.5 | 107.2 | 106.3 | 106.0 | 106.3 | 107.6 | 108.1 | 107.7 | 107.3 |
| | 28 | 107.0 | 107.0 | 106.5 | 106.5 | 106.5 | 108.5 | 108.8 | 108.8 | 107.4 | 107.4 | 105.7 | 109.6 |
| | 29 | 108.8 | 108.8 | 107.0 | 106.6 | 104.6 | 104.5 | 104.5 | 103.1 | 102.5 | 102.5 | 102.3 | 99.6 |
| | 30 | 88.1 | 90.0 | 90.1 | 93.3 | 92.8 | 92.4 | 92.7 | 93.5 | 94.3 | 94.2 | 93.7 | 93.5 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 93.61 | 94.71 | 95.82 | 95.09 | 95.13 | 95.32 | 95.18 | 95.80 | 96.76 | 96.89 | 96.10 | 95.78 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| NOVEMBER. | 1 | 45.6 | 45.4 | 45.0 | 45.5 | 46.2 | 47.4 | 48.0 | 48.8 | 49.0 | 49.4 | 49.6 | 49.5 |
| | 2 | 49.6 | 49.6 | 50.2 | 50.0 | 50.6 | 51.1 | 51.5 | 52.1 | 52.3 | 52.7 | 53.3 | 53.8 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 49.4 | 49.2 | 48.8 | 49.0 | 49.4 | 49.4 | 49.6 | 50.0 | 50.1 | 50.5 | 50.7 | 50.3 |
| | 5 | 49.6 | 49.4 | 49.4 | 49.8 | 50.2 | 50.3 | 50.3 | 50.7 | 51.2 | 51.5 | 51.6 | 51.6 |
| | 6 | 49.7 | 49.5 | 49.5 | 49.5 | 50.2 | 50.0 | 50.1 | 50.3 | 50.3 | 50.8 | 51.5 | 52.1 |
| | 7 | 49.7 | 49.5 | 50.0 | 49.8 | 50.2 | 51.0 | 51.5 | 52.8 | 53.2 | 53.2 | 53.2 | 53.9 |
| | 8 | 51.5 | 51.3 | 50.7 | 50.6 | 50.8 | 50.8 | 50.8 | 51.0 | 51.1 | 50.9 | 50.8 | 50.8 |
| | 9 | 48.4 | 48.6 | 48.0 | 47.6 | 47.9 | 48.0 | 48.2 | 48.6 | 48.6 | 49.0 | 49.4 | 49.3 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 48.1 | 48.3 | 48.0 | 47.8 | 47.8 | 48.0 | 48.2 | 48.6 | 48.6 | 49.0 | 49.2 | 49.0 |
| | 12 | 50.0 | 49.8 | 49.6 | 49.5 | 49.4 | 49.6 | 50.1 | 50.2 | 50.4 | 50.7 | 51.3 | 51.3 |
| | 13 | 50.6 | 50.5 | 50.9 | 51.3 | 50.5 | 50.3 | 50.0 | 49.8 | 49.8 | 49.6 | 49.6 | 49.9 |
| | 14 | 46.4 | 46.0 | 49.2 | 47.2 | 47.0 | 47.0 | 47.0 | 47.2 | 47.3 | 47.6 | 48.0 | 48.2 |
| | 15 | 47.2 | 47.2 | 47.2 | 47.6 | 47.5 | 47.5 | 47.5 | 47.5 | 47.7 | 48.0 | 48.4 | 48.8 |
| | 16 | 47.5 | 47.5 | 46.8 | 47.4 | 47.6 | 48.4 | 49.1 | 49.6 | 50.1 | 50.5 | 50.7 | 50.4 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 45.9 | 45.5 | 45.2 | 45.2 | 45.5 | 45.6 | 45.8 | 45.8 | 45.8 | 45.8 | 45.6 | 45.6 |
| | 19 | 43.6 | 43.0 | 43.4 | 43.8 | 43.9 | 44.0 | 44.2 | 44.2 | 44.5 | 44.9 | 45.2 | 45.5 |
| | 20 | 45.0 | 44.7 | 45.0 | 45.0 | 45.9 | 46.0 | 46.6 | 46.9 | 47.5 | 48.3 | 48.8 | 49.0 |
| | 21 | 46.0 | 45.8 | 45.8 | 46.0 | 46.9 | 47.4 | 47.8 | 48.4 | 48.6 | 49.0 | 49.6 | 49.6 |
| | 22 | 48.0 | 47.6 | 47.6 | 47.6 | 48.0 | 48.5 | 48.5 | 48.8 | 48.8 | 49.0 | 49.4 | 49.4 |
| | 23 | 49.6 | 49.6 | 49.6 | 49.6 | 49.4 | 49.4 | 49.6 | 49.8 | 49.8 | 50.0 | 50.0 | 50.3 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 38.2 | 38.0 | 38.3 | 38.2 | 38.3 | 38.3 | 38.4 | 38.6 | 38.6 | 39.1 | 38.9 | 39.9 |
| | 26 | 39.0 | 39.0 | 38.9 | 38.5 | 38.1 | 38.5 | 38.8 | 38.8 | 38.9 | 39.4 ^b | 39.8 | 40.0 |
| | 27 | 39.9 | 39.5 | 39.1 | 39.3 | 39.6 | 39.9 | 39.8 | 40.1 | 40.4 | 40.5 | 40.8 | 40.6 |
| | 28 | 38.0 | 38.2 | 38.3 | 38.2 | 38.0 | 37.8 | 37.5 | 38.0 | 39.4 | 39.4 | 39.4 | 39.6 |
| | 29 | 40.0 | 40.0 | 40.0 | 41.0 | 41.2 | 42.2 | 42.4 | 42.8 | 43.0 | 43.6 | 44.2 | 44.6 |
| | 30 | 49.8 | 49.4 | 48.8 | 48.1 | 48.1 | 48.5 | 48.6 | 48.5 | 48.6 | 49.1 | 49.2 | 49.4 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 46.40 | 46.23 | 46.28 | 46.27 | 46.47 | 46.73 | 46.92 | 47.23 | 47.45 | 47.75 | 48.01 | 48.17 | |

^b Three minutes late.

VERTICAL FORCE.

One Scale Division = '000062 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 93·2 | Sc. Div. 92·8 | Sc. Div. 92·8 | Sc. Div. 92·8 | Sc. Div. 94·3 | Sc. Div. 93·3 | Sc. Div. 93·3 | Sc. Div. 93·2 | Sc. Div. 87·2 | Sc. Div. 87·2 | Sc. Div. 87·2 | Sc. Div. 87·5 | Sc. Div. 92·72 |
| 86·4 | 88·1 | 99·0 | 89·4 | 88·3 | 84·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 82·6 | 83·9 | 87·2 | 87·5 | 90·3 | 90·8 | 87·82 |
| 91·8 | 91·8 | 91·8 | 91·0 | 91·0 | 90·5 | 90·5 | 89·0 | 88·5 | 90·1 | 90·1 | 90·8 | 90·80 |
| 87·9 | 88·4 | 89·2 | 89·2 | 89·2 | 88·3 | 89·9 | 89·4 | 89·4 | 89·4 | 90·9 | 88·7 | 89·49 |
| 87·5 | 87·5 | 88·7 | 89·6 | 89·6 | 90·5 | 90·1 | 90·3 | 90·3 | 90·7 | 90·7 | 91·1 | 89·65 |
| 86·7 | 86·5 | 86·5 | 86·0 | 86·0 | 86·0 | 86·5 | 86·8 | 86·8 | 86·8 | 87·6 | 87·4 | 87·36 |
| 89·8 | 90·3 | 90·3 | 90·7 | 91·0 | 91·0 | 91·5 | 91·8 | 91·8 | 92·2 | 92·4 | 93·1 | 90·11 |
| 91·3 | 93·4 | 91·4 | 91·4 | 91·4 | 91·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 94·5 | 93·5 | 93·5 | 91·3 | 91·3 | 91·3 | 93·09 |
| 98·0 | 99·4 | 99·4 | 94·2 | 93·8 | 93·8 | 93·7 | 89·4 | 90·5 | 91·0 | 92·4 | 92·5 | 93·76 |
| 89·8 | 89·8 | 89·8 | 89·8 | 89·1 | 88·0 | 87·5 | 88·0 | 88·0 | 86·7 | 88·3 | 89·0 | 89·97 |
| 93·1 | 94·1 | 94·3 | 92·8 | 94·4 | 89·2 | 89·9 | 92·8 | 87·3 | 89·3 | 93·6 | 93·9 | 91·15 |
| 93·3 | 93·3 | 93·3 | 93·5 | 93·6 | 93·6 | 93·6 | 93·6 | 94·0 | 94·1 | 94·0 | 94·0 | 93·65 |
| 90·2 | 91·3 | 91·2 | 92·7 | 91·5 | 92·8 | 92·8 | 92·2 | 88·9 | 58·6 | 76·6 | 76·8 | 89·97 |
| 99·9 | 103·2 | 99·8 | 99·8 | 99·9 | 99·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 93·1 | 90·6 | 92·1 | 94·7 | 94·7 | 93·2 | 94·68 |
| 100·2 | 100·2 | 100·2 | 98·6 | 95·9 | 99·0 | 99·0 | 94·7 | 96·3 | 99·3 | 98·8 | 91·9 | 97·41 |
| 99·9 | 99·7 | 99·7 | 98·7 | 98·7 | 98·7 | 98·7 | 97·8 | 97·9 | 98·0 | 97·9 | 97·9 | 98·56 |
| 94·8 | 94·8 | 94·8 | 94·8 | 95·0 | 95·2 | 95·5 | 96·2 ^a | 96·2 | 96·2 | 96·2 | 98·9 | 96·90 |
| 92·8 | 93·4 | 93·4 | 93·4 | 93·0 | 93·0 | 93·8 | 93·0 | 90·3 | 91·6 | 75·0 | 75·3 | 92·51 |
| 105·1 | 106·6 | 105·0 | 91·3 | 90·7 | 60·8 | 60·5 | 80·1 | 79·3 | 79·5 | 80·1 | 83·9 | 89·43 |
| 91·4 | 92·4 | 92·4 | 93·5 | 92·9 | 90·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 108·1 | 108·1 | 108·1 | 107·2 | 106·7 | 106·7 | 96·23 |
| 109·1 | 108·8 | 108·9 | 108·6 | 108·9 | 108·6 | 109·1 | 107·3 | 109·2 | 109·1 | 109·3 | 109·2 | 108·54 |
| 107·6 | 107·1 | 106·4 | 106·2 | 106·8 | 106·8 | 106·8 | 108·2 | 108·4 | 108·6 | 108·6 | 109·4 | 108·61 |
| 108·6 | 106·1 | 112·8 | 112·8 | 111·2 | 111·8 | 111·8 | 111·8 | 111·8 | 108·3 | 109·4 | 110·4 | 109·31 |
| 109·6 | 110·5 | 110·9 | 110·9 | 111·7 | 111·7 | 108·1 | 109·0 | 110·0 | 110·0 | 110·4 | 110·2 | 108·86 |
| 97·3 | 95·9 | 95·8 | 95·8 | 94·0 | 92·3 | 91·3 | 91·5 | 91·2 | 91·2 | 90·0 | 89·8 | 98·79 |
| 92·3 | 91·4 | 93·8 | 92·7 | 92·3 | 90·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 92·7 | 96·9 | 96·0 | 97·0 | 97·0 | 96·8 | 93·24 |
| 95·68 | 96·03 | 96·33 | 95·39 | 95·16 | 93·49 | 94·03 | 94·58 | 94·24 | 93·29 | 93·83 | 93·87 | 95·09 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| 49·7 | 49·9 | 49·9 | 50·0 | 50·0 | 50·0 | 50·0 | 49·5 | 49·6 | 49·6 | 49·6 | 49·5 | 48·61 |
| 53·8 | 53·8 | 53·0 | 52·8 | 52·5 | 52·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 49·2 | 49·0 | 49·2 | 49·3 | 49·4 | 49·4 | 51·27 |
| 50·3 | 50·3 | 50·3 | 50·2 | 50·3 | 50·4 | 50·2 | 50·3 | 50·1 | 50·0 | 49·8 | 49·5 | 49·92 |
| 51·4 | 51·3 | 51·3 | 51·3 | 50·8 | 50·8 | 50·5 | 50·3 | 50·3 | 50·1 | 49·9 | 49·9 | 50·56 |
| 51·6 | 51·3 | 51·3 | 51·3 | 51·2 | 50·6 | 50·3 | 50·0 | 49·8 | 49·8 | 49·8 | 49·8 | 50·43 |
| 53·5 | 53·3 | 53·0 | 53·3 | 53·2 | 53·2 | 53·0 | 52·6 | 52·3 | 52·3 | 52·1 | 52·0 | 52·16 |
| 50·6 | 50·6 | 50·3 | 50·2 | 50·0 | 49·8 | 49·6 | 49·8 | 49·6 | 49·5 | 49·1 | 48·6 | 50·37 |
| 49·3 | 49·2 | 49·0 | 48·7 | 48·5 | 48·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 47·5 | 47·4 | 47·3 | 47·3 | 47·3 | 47·8 | 48·31 |
| 49·5 | 49·3 | 49·5 | 49·5 | 49·5 | 49·5 | 49·4 | 49·8 | 49·9 | 50·0 | 50·0 | 50·0 | 49·01 |
| 51·3 | 51·5 | 51·5 | 51·9 | 51·9 | 52·0 | 51·9 | 51·7 | 51·7 | 51·3 | 51·3 | 51·1 | 50·87 |
| 49·3 | 49·2 | 49·0 | 49·0 | 48·5 | 48·3 | 48·0 | 47·8 | 47·5 | 47·2 | 46·8 | 46·6 | 49·17 |
| 48·2 | 48·4 | 48·4 | 48·0 | 47·8 | 47·6 | 47·5 | 47·5 | 47·3 | 47·3 | 47·3 | 47·3 | 47·53 |
| 49·0 | 49·0 | 49·1 | 48·6 | 48·5 | 48·0 | 47·9 | 47·8 | 47·5 | 47·5 | 47·5 | 47·5 | 47·92 |
| 50·4 | 50·4 | 50·3 | 49·9 | 49·5 | 49·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 47·8 | 47·6 | 47·2 | 47·0 | 46·5 | 46·2 | 48·65 |
| 45·0 | 45·0 | 44·6 | 44·6 | 44·6 | 44·6 | 44·6 | 44·8 | 44·5 | 44·5 | 43·0 | 43·0 | 45·00 |
| 45·6 | 45·5 | 45·6 | 45·4 | 45·4 | 45·4 | 45·4 | 45·6 | 45·2 | 45·0 | 45·0 | 45·0 | 44·76 |
| 48·5 | 48·5 | 48·5 | 48·5 | 48·1 | 47·7 | 47·6 | 47·4 ^a | 47·2 | 47·0 | 46·7 | 46·5 | 47·12 |
| 49·4 | 49·4 | 48·8 | 48·5 | 48·5 | 48·3 | 48·3 | 48·4 | 48·5 | 48·3 | 48·3 | 48·0 | 48·07 |
| 49·3 | 49·3 | 49·3 | 49·5 | 49·5 | 49·5 | 49·5 | 49·7 | 49·5 | 49·5 | 49·5 | 49·7 | 48·96 |
| 50·3 | 50·1 | 49·5 | 49·4 | 49·0 | 48·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38·4 | 38·5 | 38·6 | 38·2 | 38·1 | 38·0 | 46·81 |
| 39·7 | 39·7 | 39·8 | 39·8 | 39·8 | 39·6 | 39·6 | 39·4 | 39·3 | 39·3 | 39·2 | 39·0 | 39·04 |
| 40·1 | 40·4 | 40·6 | 40·0 | 40·0 | 40·4 | 40·4 | 40·0 | 40·0 | 40·0 | 40·0 | 40·0 | 39·57 |
| 40·4 | 40·0 | 39·4 | 39·8 | 39·4 | 39·4 | 39·4 | 39·2 | 39·0 | 38·2 | 38·1 | 37·8 | 39·57 |
| 39·4 | 39·3 | 39·1 | 38·9 | 38·6 | 38·7 | 38·7 | 39·1 | 39·3 | 39·4 | 39·5 | 39·7 | 38·81 |
| 45·6 | 46·1 | 46·6 | 46·6 | 47·4 | 47·7 | 48·2 | 48·4 | 48·2 | 48·6 | 48·4 | 49·4 | 44·84 |
| 49·2 | 49·0 | 48·9 | 49·2 | 49·5 | 49·7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45·4 | 45·2 | 45·0 | 44·6 | 44·5 | 44·4 | 47·95 |
| 48·09 | 48·07 | 47·95 | 47·88 | 47·77 | 47·69 | 46·86 | 46·80 | 46·68 | 46·57 | 46·41 | 46·37 | 47·13 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|--------------------|
| One Scale Division = .000062 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| DECEMBER. | 2 | 98.6 | 99.8 | 99.8 | 97.9 | 95.9 | 95.4 | 96.3 | 99.9 | 98.4 | 97.2 | 97.3 | 96.8 |
| | 3 | 98.9 | 98.9 | 98.3 | 98.1 | 96.5 | 96.5 | 95.0 | 95.3 | 95.3 | 93.8 | 95.6 | 94.4 |
| | 4 | 95.0 | 93.4 | 94.1 | 93.0 | 92.8 | 92.3 | 91.7 | 91.8 | 91.8 | 93.1 | 92.5 | 95.7 |
| | 5 | 94.5 | 94.5 | 94.5 | 96.6 | 93.8 | 93.9 | 94.7 | 95.7 | 96.4 | 95.9 | 97.4 | 97.4 |
| | 6 | 93.7 | 92.9 | 96.9 | 94.3 | 96.0 | 93.4 | 94.3 | 94.3 | 97.3 | 97.3 | 96.2 | 96.2 |
| | 7 | 91.6 | 91.2 | 88.8 | 88.8 | 86.3 | 84.3 | 84.3 | 86.4 | 87.6 | 88.9 | 90.0 | 89.4 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 109.0 | 109.0 | 106.7 | 108.9 | 108.0 | 107.4 | 106.4 | 105.8 | 104.8 | 103.6 | 101.2 | 99.8 |
| | 10 | 100.6 | 100.2 | 101.4 | 102.5 | 101.6 | 101.6 ^a | 102.7 | 101.0 | 100.1 | 100.2 | 99.5 | 99.5 |
| | 11 | 100.0 | 98.5 | 98.5 | 98.5 | 97.6 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.1 | 96.1 |
| | 12 | 96.8 | 96.7 | 96.8 | 97.9 | 96.8 | 95.4 | 95.0 | 95.3 | 96.8 | 95.6 ^b | 95.0 | 95.0 |
| | 13 | 92.5 | 93.2 | 92.0 | 92.0 | 93.9 | 91.5 | 93.4 | 94.2 | 94.6 | 94.6 | 94.5 | 93.0 |
| | 14 | 92.9 | 92.3 | 91.7 | 91.5 | 91.3 | 91.3 | 92.5 | 97.1 | 99.7 | 97.8 | 94.4 | 94.4 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 105.1 | 105.5 | 107.5 | 107.5 | 105.8 | 106.3 | 108.2 | 107.3 | 107.3 | 107.3 | 107.1 | 109.6 |
| | 17 | 110.5 | 111.9 | 105.4 | 109.7 | 108.4 | 108.4 | 109.2 | 108.8 | 107.9 | 108.6 | 109.4 | 109.2 |
| | 18 | 113.1 | 114.1 | 114.1 | 114.8 | 114.7 | 113.1 | 112.5 | 112.5 | 112.5 | 112.5 | 110.4 | 108.2 |
| | 19 | 98.6 | 98.2 | 97.0 | 98.6 | 100.6 | 102.3 | 102.7 | 104.5 | 103.5 | 104.0 | 105.7 | 105.7 |
| | 20 | 109.7 | 106.5 | 112.3 | 101.2 | 113.4 | 113.0 | 111.6 | 111.6 | 113.3 | 115.0 | 114.7 | 113.6 |
| | 21 | 106.7 | 107.9 | 109.0 | 109.5 | 109.5 | 112.0 | 112.0 | 111.9 | 110.8 | 109.5 | 108.1 | 107.8 ^c |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 102.6 | 102.6 | 103.3 | 102.8 | 102.8 | 103.7 | 104.3 | 104.3 | 103.7 | 104.7 | 106.3 | 104.7 |
| | 24 | 105.1 | 104.3 | 104.3 | 103.5 | 102.9 | 102.9 | 102.9 | 102.6 | 101.5 | 101.2 | 100.0 | 99.1 |
| | 25 ^d | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 95.3 | 95.3 | 95.5 | 95.9 | 95.7 | 94.9 | 95.3 | 95.0 | 95.1 | 97.5 | 95.2 | 94.7 |
| | 27 | 99.0 | 100.9 | 102.9 | 100.6 | 104.3 | 104.3 | 105.1 | 105.1 | 104.5 | 103.3 | 103.0 | 102.8 |
| | 28 | 107.9 | 107.9 | 109.6 | 108.3 | 108.3 | 108.3 | 108.3 | 106.8 | 106.8 | 105.1 | 105.1 | 103.0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 111.5 | 107.9 | 107.9 | 107.9 | 105.1 | 103.6 ^f | 105.0 | 105.7 | 107.7 | 108.2 | 106.3 | 105.7 |
| | 31 | 101.1 | 101.1 | 99.4 | 100.4 | 104.3 | 103.4 | 102.1 | 102.1 | 104.1 | 104.1 | 103.3 | 103.8 |
| | Hourly Means | 101.21 | 100.99 | 101.11 | 100.83 | 101.05 | 100.64 | 100.89 | 101.27 | 101.53 | 101.43 | 100.97 | 100.62 |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| DECEMBER. | 2 | 44.0 | 43.8 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.8 | 45.4 | 46.3 | 46.5 | 46.5 |
| | 3 | 44.5 | 44.4 | 44.4 | 44.6 | 44.8 | 45.4 | 45.8 | 46.6 | 46.7 | 47.0 | 47.2 | 47.4 |
| | 4 | 45.6 | 45.8 | 45.8 | 45.8 | 46.4 | 46.8 | 47.0 | 47.4 | 47.0 | 46.2 | 48.0 | 47.6 |
| | 5 | 46.6 | 46.6 | 46.6 | 46.7 | 46.4 | 46.4 | 47.0 | 46.6 | 46.6 | 46.6 | 46.5 | 46.4 |
| | 6 | 47.0 | 47.0 | 47.0 | 47.4 | 46.4 | 46.4 | 46.8 | 46.8 | 46.6 | 46.8 | 47.2 | 47.0 |
| | 7 | 48.3 | 48.5 | 48.7 | 49.3 | 50.8 | 51.5 | 51.4 | 51.0 | 50.5 | 50.3 | 50.0 | 49.7 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 38.2 | 38.2 | 38.6 | 38.6 | 38.9 | 39.3 | 39.8 | 40.1 | 41.0 | 41.7 | 42.7 | 43.0 |
| | 10 | 42.4 | 42.6 | 42.3 | 41.6 | 41.6 | 41.6 ^a | 41.8 | 42.7 | 43.0 | 43.4 | 43.2 | 43.0 |
| | 11 | 42.5 | 42.8 | 42.8 | 42.8 | 43.0 | 42.8 | 43.2 | 43.4 | 44.0 | 45.0 | 44.6 | 44.8 |
| | 12 | 44.4 | 44.4 | 44.0 | 43.5 | 43.5 | 43.7 | 44.0 | 44.4 | 44.6 | 45.6 ^b | 46.0 | 46.0 |
| | 13 | 46.6 | 46.6 | 46.4 | 46.4 | 45.8 | 45.8 | 46.0 | 46.0 | 46.4 | 46.6 | 47.0 | 47.0 |
| | 14 | 47.0 | 47.0 | 46.5 | 46.5 | 46.6 | 46.6 | 46.6 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 38.9 | 38.6 | 38.4 | 38.4 | 38.4 | 38.6 | 39.0 | 38.8 | 39.0 | 40.0 | 40.0 | 40.0 |
| | 17 | 37.0 | 37.0 | 37.0 | 37.0 | 36.8 | 37.3 | 37.6 | 38.0 | 38.5 | 38.8 | 39.0 | 39.3 |
| | 18 | 35.3 | 35.0 | 34.8 | 34.5 | 34.2 | 35.2 | 35.6 | 36.1 | 36.2 | 36.6 | 36.9 | 38.7 |
| | 19 | 42.6 | 42.8 | 42.8 | 41.6 | 41.6 | 41.6 | 41.0 | 41.6 | 41.7 | 41.6 | 41.6 | 41.1 |
| | 20 | 38.1 | 37.9 | 37.2 | 37.2 | 37.2 | 37.5 | 38.0 | 37.1 | 36.9 | 37.1 | 37.1 | 36.5 |
| | 21 | 36.2 | 36.1 | 36.0 | 36.6 | 37.0 | 37.0 | 37.0 | 37.2 | 37.5 | 38.5 | 38.7 | 39.4 ^c |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 41.6 | 41.5 | 41.5 | 41.3 | 41.0 | 40.9 | 41.0 | 41.0 | 41.0 | 40.8 | 40.2 | 40.1 |
| | 24 | 40.6 | 40.6 | 40.8 | 40.6 | 40.4 | 40.6 | 41.4 | 42.0 | 42.4 | 42.6 | 43.0 | 43.7 |
| | 25 ^d | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 43.9 | 43.9 | 44.4 | 44.6 | 44.6 | 44.8 | 45.4 | 46.0 | 46.2 | 46.6 | 47.0 | 47.0 |
| | 27 | 42.8 | 42.0 | 41.2 | 40.7 | 40.4 | 40.4 | 40.4 | 40.7 | 41.0 | 41.3 | 41.6 | 41.6 |
| | 28 | 38.1 | 38.1 | 37.3 | 37.7 | 38.0 | 38.3 | 38.8 | 40.0 | 40.1 | 40.1 | 40.6 | 41.0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 38.8 | 39.3 | 39.8 | 40.0 | 40.8 | 40.8 ^f | 41.3 | 41.6 | 41.6 | 41.6 | 42.2 | 42.5 |
| | 31 | 42.6 | 42.6 | 42.6 | 43.0 | 43.0 | 43.6 | 43.6 | 43.6 | 43.6 | 44.0 | 44.4 | 44.6 |
| | Hourly Means | 42.14 | 42.12 | 42.03 | 42.02 | 42.07 | 42.29 | 42.56 | 42.81 | 42.97 | 43.28 | 43.52 | 43.63 |

^a Ten minutes late.

^b Four minutes late.

^c Three minutes late.

VERTICAL FORCE.

One Scale Division = .000062 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 97.5 | Sc. Div. 97.5 | Sc. Div. 97.5 | Sc. Div. 97.5 | Sc. Div. 98.3 | Sc. Div. 98.6 | Sc. Div. 98.0 | Sc. Div. 98.0 | Sc. Div. 98.0 | Sc. Div. 98.0 | Sc. Div. 100.2 | Sc. Div. 100.2 | Sc. Div. 98.02 |
| 94.4 | 94.1 | 97.6 | 96.7 | 96.7 | 96.7 | 97.0 | 97.0 | 97.0 | 95.4 | 95.4 | 96.1 | 96.28 |
| 97.0 | 94.4 | 94.4 | 94.9 | 94.9 | 94.6 | 93.1 | 93.5 | 96.0 | 96.0 | 94.5 | 94.5 | 93.96 |
| 97.4 | 98.2 | 98.2 | 97.1 | 96.3 | 96.3 | 96.3 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 95.71 |
| 96.4 | 95.8 | 95.5 | 95.5 | 95.8 | 94.1 | 94.1 | 94.2 | 92.1 | 92.7 | 92.5 | 91.6 | 94.71 |
| 89.8 | 90.3 | 90.3 | 90.3 | 92.2 | 94.0 | — | — | — | — | — | — | 94.07 |
| — | — | — | — | — | — | 108.4 | 109.2 | 109.2 | 108.8 | 108.8 | 108.8 | — |
| 99.6 | 100.9 | 100.9 | 101.9 | 102.2 | 102.2 | 102.8 | 101.9 | 101.9 | 101.9 | 100.3 | 101.9 | 103.71 |
| 99.8 | 100.2 | 100.2 | 100.2 | 100.0 | 100.0 | 100.5 | 100.5 | 99.3 | 100.3 | 100.3 | 100.0 | 100.51 |
| 95.6 | 96.2 | 96.2 | 96.2 | 97.4 | 97.6 | 98.1 | 97.2 | 96.5 | 96.5 | 95.8 | 96.6 | 97.03 |
| 96.4 | 95.1 | 95.6 | 95.5 | 95.5 | 95.5 | 93.4 | 92.7 | 92.7 | 93.4 | 93.6 | 93.8 | 95.26 |
| 92.4 | 91.9 | 91.9 | 91.9 | 92.7 | 92.7 | 93.4 | 92.8 | 91.2 | 92.2 | 92.2 | 92.7 | 92.81 |
| 95.1 | 96.4 | 97.5 | 99.4 | 97.6 | 92.3 | — | — | — | — | — | — | 97.10 |
| — | — | — | — | — | — | 103.1 | 103.1 | 102.6 | 105.5 | 105.5 | 105.5 | — |
| 109.6 | 107.9 | 107.9 | 107.9 | 109.8 | 109.8 ^a | 109.1 | 108.0 | 108.0 | 109.6 | 110.7 | 111.5 | 108.10 |
| 109.2 | 109.2 | 108.6 | 108.4 | 110.3 | 109.7 | 109.3 | 109.3 | 109.9 | 109.9 | 109.7 | 109.4 | 109.18 |
| 105.0 | 104.2 | 104.1 | 102.4 | 102.4 | 100.6 | 100.1 | 100.5 | 98.3 | 93.2 | 90.9 | 94.4 | 106.19 |
| 105.7 | 106.3 | 106.7 | 112.0 | 111.5 | 111.5 | 112.2 | 107.7 | 108.4 | 109.5 | 109.7 | 109.7 | 105.51 |
| 112.7 | 112.9 | 113.5 | 115.5 | 112.7 | 110.4 | 106.3 | 106.7 | 109.2 | 109.2 | 109.2 | 107.9 | 110.92 |
| 108.6 | 107.0 | 106.3 | 107.0 | 107.0 | 107.1 | — | — | — | — | — | — | 107.79 |
| — | — | — | — | — | — | 105.3 | 103.8 | 105.0 | 103.8 | 103.8 | 107.6 | — |
| 104.7 | 106.4 | 106.4 | 106.4 | 106.4 | 106.7 | 108.0 | 106.9 | 105.7 | 105.7 | 105.3 | 105.3 | 104.99 |
| 99.1 | 99.1 | 99.1 | 97.7 | 96.9 | 96.9 | — | — | — | — | — | — | 100.41 |
| — | — | — | — | — | — | 100.1 ^c | 99.3 | 99.3 | 98.8 | 97.1 | 96.2 | — |
| 94.7 | 96.6 | 95.9 | 94.9 | 96.2 | 96.2 | 96.2 | 95.4 | 97.6 | 98.8 | 98.7 | 98.1 | 96.03 |
| 103.6 | 104.8 | 106.1 | 107.5 | 106.1 | 106.1 | 104.2 | 106.7 | 106.7 | 107.0 | 106.6 | 106.6 | 104.49 |
| 104.4 | 104.4 | 104.1 | 104.4 | 104.4 | 104.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 114.5 | 114.5 | 115.4 | 115.1 | 113.9 | 112.1 | 108.21 |
| 107.2 | 107.2 | 107.2 | 105.3 | 104.1 | 103.4 | 103.1 | 103.3 | 104.1 | 104.1 | 98.6 | 92.4 | 105.10 |
| 102.6 | 102.9 | 102.9 | 102.9 | 102.9 | 102.0 | 102.0 | 102.0 | 102.0 | 103.2 | 102.9 | 102.3 | 102.49 |
| 100.74 | 100.80 | 100.98 | 101.18 | 101.21 | 100.78 | 101.94 | 101.54 | 101.62 | 101.72 | 101.22 | 101.20 | 101.14 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| 46.4 | 46.2 | 46.0 | 46.0 | 45.0 | 45.2 | 46.0 | 45.4 | 45.0 | 44.8 | 44.6 | 44.5 | 45.13 |
| 47.0 | 47.2 | 46.0 | 46.0 | 45.8 | 45.2 | 45.6 | 46.0 | 45.6 | 45.6 | 45.6 | 45.6 | 45.83 |
| 47.5 | 47.5 | 47.4 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 46.9 | 46.8 | 46.8 | 46.8 | 46.84 |
| 46.2 | 46.4 | 46.1 | 46.2 | 46.6 | 46.6 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 46.63 |
| 46.8 | 46.6 | 46.6 | 46.6 | 47.1 | 47.6 | 47.7 | 47.6 | 47.6 | 47.6 | 47.7 | 48.0 | 47.08 |
| 49.5 | 49.4 | 49.0 | 48.8 | 47.6 | 47.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.1 | 38.0 | 38.0 | 38.3 | 38.4 | 38.2 | 46.68 |
| 43.4 | 43.4 | 42.7 | 42.2 | 42.2 | 42.4 | 42.4 | 42.4 | 42.1 | 42.2 | 42.2 | 42.3 | 41.25 |
| 42.8 | 42.4 | 42.4 | 42.2 | 42.0 | 42.0 | 41.8 | 42.0 | 41.9 | 41.8 | 41.7 | 42.1 | 42.26 |
| 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.3 | 44.0 | 44.0 | 44.0 | 44.0 | 44.6 | 44.6 | 43.92 |
| 46.0 | 46.2 | 45.9 | 45.8 | 45.7 | 46.0 | 46.5 | 46.6 | 46.8 | 46.6 | 46.8 | 46.4 | 45.39 |
| 47.2 | 47.4 | 47.2 | 47.5 | 47.3 | 47.2 | 46.8 | 46.7 | 46.8 | 47.0 | 47.0 | 47.0 | 46.74 |
| 46.8 | 46.8 | 47.0 | 46.2 | 45.8 | 46.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.5 | 39.2 | 39.0 | 39.1 | 39.1 | 39.0 | 44.76 |
| 39.8 | 39.3 | 39.0 | 38.9 | 38.6 | 38.2 | 38.0 | 37.7 | 37.7 | 37.6 | 37.4 | 37.3 | 38.65 |
| 39.1 | 39.0 | 38.7 | 38.3 | 38.0 | 38.1 | 38.1 | 38.1 | 37.8 | 37.4 | 37.0 | 36.6 | 37.90 |
| 39.6 | 39.8 | 40.4 | 41.4 | 41.6 | 41.6 | 41.8 | 41.9 | 41.6 | 42.1 | 42.4 | 42.7 | 38.58 |
| 40.9 | 40.6 | 40.4 | 39.6 | 39.8 | 40.0 | 39.5 | 39.4 | 39.0 | 38.5 | 38.2 | 37.7 | 40.63 |
| 36.1 | 36.4 | 36.0 | 36.2 | 36.2 | 36.2 | 36.5 | 36.4 | 36.8 | 36.9 | 37.0 | 36.4 | 36.87 |
| 39.9 | 40.0 | 40.2 | 40.4 | 40.0 | 40.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.8 | 40.8 | 40.8 | 41.0 | 41.3 | 41.6 | 38.92 |
| 40.0 | 39.5 | 39.2 | 39.2 | 39.0 | 39.2 | 39.3 | 39.9 | 40.1 | 40.2 | 40.4 | 40.6 | 40.35 |
| 44.0 | 44.0 | 44.2 | 44.2 | 44.4 | 44.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 42.6 ^c | 42.9 | 43.0 | 43.2 | 43.4 | 43.6 | 42.61 |
| 46.6 | 46.4 | 45.8 | 45.4 | 45.0 | 44.8 | 44.6 | 44.6 | 44.6 | 44.4 | 43.8 | 43.1 | 45.15 |
| 41.6 | 41.6 | 41.6 | 41.2 | 41.0 | 40.0 | 40.1 | 39.8 | 39.1 | 39.0 | 38.8 | 38.6 | 40.69 |
| 41.0 | 41.3 | 41.3 | 40.9 | 40.6 | 40.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.5 | 37.5 | 37.5 | 37.4 | 37.8 | 38.3 | 39.15 |
| 42.6 | 42.6 | 42.6 | 42.3 | 42.4 | 42.4 | 42.6 | 42.4 | 42.4 | 42.6 | 42.6 | 42.8 | 41.69 |
| 44.3 | 44.5 | 44.6 | 44.0 | 43.8 | 43.7 | 43.6 | 43.8 | 43.6 | 43.6 | 43.8 | 44.0 | 43.69 |
| 43.59 | 43.56 | 43.40 | 43.24 | 43.08 | 43.02 | 42.30 | 42.28 | 42.19 | 42.19 | 42.22 | 42.19 | 42.70 |

^a Christmas Day.

^c Twelve minutes late.

Seven minutes late.

| February 23rd and 24th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | |
|-------------------------|----|---|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 124.8 | 124.7 | 125.2 | 125.5 | 126.2 | 125.5 | 126.2 | 127.0 | 126.8 | 127.0 | 127.0 |
| 5 | 0 | 125.0 | 124.8 | 125.2 | 125.5 | 126.4 | 125.7 | 126.5 | 127.0 | 126.6 | 127.0 | 127.0 |
| 10 | 0 | 125.0 | 124.8 | 125.2 | 125.5 | 126.2 | 125.8 | 127.1 | 126.7 | 127.0 | 127.0 | 127.0 |
| 15 | 0 | 125.0 | 124.8 | 125.3 | 125.5 | 126.4 | 125.8 | 127.2 | 126.8 | 127.0 | 126.9 | 127.3 |
| 20 | 0 | 125.1 | 124.8 | 125.7 | 125.9 | 126.7 | 125.8 | 127.1 | 127.0 | 127.0 | 127.0 | 127.9 |
| 25 | 0 | 125.1 | 124.9 | 125.8 | 126.0 | 126.8 | 125.8 | 127.0 | 127.0 | 126.9 | 126.8 | 128.0 |
| 30 | 0 | 125.0 | 124.9 | 125.9 | 126.0 | 126.5 | 126.0 | 126.6 | 127.0 | 126.7 | 127.0 | 128.2 |
| 35 | 0 | 125.0 | 124.9 | 126.0 | 126.1 | 126.0 | 126.2 | 126.8 | 127.0 | 126.7 | 127.0 | 128.1 |
| 40 | 0 | 125.0 | 125.6 | 125.6 | 126.4 | 125.9 | 126.1 | 126.8 | 127.0 | 126.6 | 127.0 | 128.4 |
| 45 | 0 | 124.7 | 125.6 | 125.4 | 126.2 | 125.7 | 126.0 | 127.0 | 127.0 | 126.9 | 127.1 | 128.4 |
| 50 | 0 | 124.8 | 125.7 | 125.2 | 126.2 | 125.3 | 126.1 | 127.0 | 127.0 | 127.0 | 127.1 | 128.4 |
| 55 | 0 | 124.8 | 125.4 | 125.5 | 126.4 | 125.1 | 125.9 | 126.8 | 127.0 | 127.0 | 127.0 | 128.4 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| M. | S. | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 2 | 0 | 517.5 | 519.0 | 520.7 | 522.0 | 519.2 | 519.5 | 519.6 | 519.0 | 519.0 | 520.0 | 520.9 |
| 7 | 0 | 517.6 | 518.5 | 520.1 | 521.0 | 519.0 | 519.5 | 519.3 | 518.0 | 519.0 | 520.0 | 521.8 |
| 12 | 0 | 518.3 | 518.3 | 520.2 | 521.0 | 519.0 | 519.2 | 518.8 | 518.4 | 519.0 | 519.0 | 522.7 |
| 17 | 0 | 517.8 | 519.2 | 520.3 | 520.9 | 519.2 | 519.4 | 519.1 | 518.0 | 519.0 | 519.2 | 521.8 |
| 22 | 0 | 518.1 | 519.5 | 520.8 | 519.9 | 519.0 | 519.6 | 519.0 | 518.0 | 519.1 | 519.7 | 521.9 |
| 27 | 0 | 518.9 | 520.4 | 520.8 | 520.0 | 519.0 | 519.4 | 519.6 | 518.0 | 519.0 | 520.0 | 521.8 |
| 32 | 0 | 519.0 | 519.9 | 521.5 | 520.0 | 519.0 | 519.2 | 519.9 | 518.0 | 519.0 | 520.2 | 521.7 |
| 37 | 0 | 519.5 | 518.4 | 520.9 | 519.7 | 519.6 | 519.5 | 520.0 | 519.0 | 519.0 | 520.2 | 521.4 |
| 42 | 0 | 519.8 | 518.6 | 520.9 | 519.6 | 519.8 | 519.9 | 519.5 | 519.3 | 520.0 | 520.2 | 521.8 |
| 47 | 0 | 520.0 | 519.3 | 520.9 | 519.5 | 519.6 | 520.0 | 520.0 | 519.9 | 520.0 | 520.1 | 522.0 |
| 52 | 0 | 518.6 | 519.7 | 521.1 | 519.1 | 519.5 | 520.3 | 520.0 | 519.0 | 520.0 | 520.2 | 522.0 |
| 57 | 0 | 519.2 | 520.9 | 521.3 | 519.0 | 519.5 | 520.1 | 520.0 | 519.0 | 520.0 | 520.8 | 522.0 |

| Thermometer | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
|-------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 44.5 | 45.0 | 45.3 | 45.5 | 45.7 | 45.8 | 46.2 | 46.0 | 46.0 | 45.5 | 45.2 |

| | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|----|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| M. | S. | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 3 | 0 | 123.3 | 123.3 | 120.5 | 119.9 | 119.7 | 119.9 | 120.5 | 120.4 | 120.1 | 119.3 | 118.4 |
| 8 | 0 | 123.3 | 123.0 | 120.5 | 119.9 | 119.7 | 119.9 | 120.2 | 120.4 | 120.1 | 119.3 | 118.4 |
| 13 | 0 | 123.3 | 123.0 | 120.5 | 119.9 | 119.5 | 120.1 | 120.2 | 120.4 | 120.1 | 119.3 | 118.4 |
| 18 | 0 | 123.3 | 122.7 | 120.4 | 119.9 | 119.5 | 120.1 | 120.2 | 120.0 | 120.1 | 119.0 | 118.4 |
| 23 | 0 | 123.3 | 122.5 | 119.9 | 119.9 | 119.5 | 120.1 | 120.2 | 120.1 | 120.1 | 119.0 | 118.4 |
| 28 | 0 | 123.4 | 122.1 | 119.9 | 119.9 | 119.5 | 120.1 | 120.2 | 120.1 | 120.1 | 118.5 | 118.4 |
| 33 | 0 | 123.5 | 121.7 | 120.1 | 119.9 | 119.5 | 120.1 | 120.2 | 120.1 | 120.4 | 118.5 | 118.4 |
| 38 | 0 | 123.5 | 121.2 | 119.9 | 119.6 | 119.5 | 120.1 | 120.2 | 120.1 | 120.4 | 118.5 | 118.3 |
| 43 | 0 | 123.5 | 121.2 | 119.8 | 119.6 | 119.5 | 120.1 | 120.0 | 120.1 | 120.4 | 118.4 | 118.3 |
| 48 | 0 | 123.5 | 121.2 | 119.8 | 119.8 | 119.5 | 120.1 | 120.0 | 120.1 | 119.7 | 118.4 | 118.2 |
| 53 | 0 | 123.3 | 121.0 | 119.9 | 119.7 | 119.9 | 120.5 | 120.4 | 120.1 | 119.7 | 118.4 | 118.2 |
| 58 | 0 | 123.2 | 120.5 | 119.8 | 119.7 | 119.9 | 120.6 | 120.4 | 120.1 | 119.5 | 118.4 | 118.2 |

| Thermometer | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
|-------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 45.3 | 45.5 | 46.6 | 46.8 | 47.0 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 23 | 10 | 0 | 29.337 | 28.6 | 26.8 | E. S. E. | Light. | Densely overcast; snowing heavily. |
| | 11 | 0 | 29.371 | 27.2 | 25.7 | E. | Very light. | Densely overcast; moderate snow. |
| | 12 | 0 | 29.403 | 26.6 | 25.5 | E. | Very light. | Densely overcast; snowing slightly. |
| | 13 | 0 | 29.444 | 26.2 | 25.3 | E. by N. | Very light. | Densely overcast; snowing slightly. |
| | 14 | 0 | 29.486 | 26.4 | 25.0 | E. by N. | Very light. | Densely overcast; snowing slightly. |
| | 15 | 0 | 29.524 | 25.0 | 24.0 | E. by N. | Very light. | Overcast; dense haze; slight snow. |
| | 16 | 0 | 29.554 | 25.0 | 23.4 | E. by N. | Very light. | Overcast; dense haze; slight snow. |
| | 17 | 0 | 29.564 | 24.0 | 23.0 | — | Calm. | Clear in zenith, remainder hazy; ceased snowing. |
| | 18 | 0 | 29.580 | 22.8 | 20.4 | E. | Light. | Clear, except haze round horizon. |
| | 19 | 0 | 29.596 | 19.2 | 17.0 | E. | Light. | Clear. |
| | 20 | 0 | 29.643 | 17.0 | 15.2 | N. E. | Light. | Clear. |
| | 21 | 0 | 29.665 | 14.6 | 12.5 | N. E. | Light. | Clear. |

| MAGNETICAL OBSERVATIONS. | | | | | | | | | | | | February 23rd and 24th. | | |
|--------------------------|-------------------|-------------------|------------------|------------------|------------------|--|------------------|------------------|------------------|------------------|------------------|-------------------------|----------|----------|
| DECLINATION. | | | | | | Angular Value of one Scale Division = 0'·721. | | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | | |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 128·0 | 128·8 | 128·1 | 129·0 | 129·9 | 130·2 | 129·1 | 127·0 | 122·2 | 122·0 | 123·0 | 124·6 | 126·1 | | |
| 128·5 | 128·2 | 128·5 | 129·0 | 129·8 | 130·3 | 129·3 | 127·0 | 122·0 | 122·0 | 123·0 | 125·0 | 126·1 | | |
| 128·4 | 128·7 | 128·7 | 128·9 | 129·4 | 130·0 | 129·2 | 127·0 | 122·4 | 122·0 | 122·9 | 125·1 | 126·4 | | |
| 128·4 | 128·8 | 128·2 | 129·5 | 130·0 | 129·8 | 129·3 | 126·8 | 122·4 | 122·0 | 122·9 | 125·3 | 126·1 | | |
| 128·0 | 129·0 | 128·7 | 129·5 | 130·0 | 130·3 | 129·3 | 126·4 | 123·0 | 122·0 | 123·1 | 125·3 | 126·6 | | |
| 128·0 | 128·8 | 128·4 | 129·2 | 130·0 | 130·4 | 129·8 | 125·6 | 122·9 | 122·2 | 123·7 | 125·4 | 126·5 | | |
| 128·1 | 128·7 | 128·8 | 129·4 | 129·6 | 130·7 | 129·0 | 125·1 | 122·9 | 122·2 | 124·0 | 125·1 | 126·5 | | |
| 128·2 | 128·8 | 128·8 | 129·3 | 130·1 | 130·1 | 129·4 | 125·1 | 122·5 | 122·5 | 123·8 | 125·3 | 126·4 | | |
| 128·8 | 128·8 | 128·7 | 129·8 | 130·2 | 129·6 | 129·3 | 125·0 | 122·1 | 122·6 | 124·5 | 125·3 | 126·8 | | |
| 128·8 | 128·8 | 128·7 | 129·5 | 130·1 | 129·2 | 128·5 | 123·9 | 122·0 | 122·9 | 124·9 | 125·7 | 126·6 | | |
| 129·0 | 128·6 | 128·9 | 129·6 | 130·0 | 129·1 | 128·0 | 123·4 | 122·0 | 122·9 | 124·8 | 125·7 | 126·8 | | |
| 129·0 | 128·3 | 129·0 | 129·6 | 129·6 | 128·6 | 127·9 | 122·4 | 121·9 | 123·0 | 124·8 | 125·9 | 126·1 | | |
| HORIZONTAL FORCE. | | | | | | Change in the Magnetic moment of the Bar for 1° Fah. = ·00027. | | | | | | | | |
| 521·9 | 524·1 | 523·4 | 524·4 | 523·3 | 519·8 | 518·6 | 519·1 | 521·9 | 527·0 | 528·0 | 530·6 | 527·4 | | |
| 521·5 | 523·2 | 523·5 | 524·6 | 522·5 | 519·4 | 518·5 | 519·0 | 522·6 | 527·0 | 528·4 | 530·8 | 527·4 | | |
| 522·0 | 523·3 | 523·8 | 524·2 | 521·7 | 519·7 | 518·7 | 519·0 | 522·1 | 527·3 | 529·1 | 530·1 | 528·5 | | |
| 521·8 | 523·1 | 523·9 | 524·5 | 522·3 | 519·8 | 519·2 | 520·0 | 524·4 | 527·7 | 530·1 | 530·5 | 528·7 | | |
| 522·8 | 523·4 | 524·3 | 524·1 | 522·2 | 519·6 | 518·8 | 520·4 | 524·3 | 528·0 | 528·7 | 530·7 | 524·6 | | |
| 522·9 | 523·1 | 524·2 | 523·7 | 522·5 | 519·5 | 518·6 | 521·0 | 524·6 | 528·0 | 528·2 | 530·4 | 527·9 | | |
| 523·2 | 523·6 | 524·6 | 522·9 | 522·8 | 520·1 | 518·0 | 521·2 | 523·9 | 529·0 | 529·8 | 529·4 | 526·6 | | |
| 523·2 | 523·5 | 524·2 | 523·4 | 522·2 | 519·9 | 518·0 | 521·5 | 525·3 | 529·0 | 529·9 | 530·2 | 528·9 | | |
| 522·9 | 523·0 | 524·2 | 523·5 | 523·0 | 520·0 | 518·6 | 521·6 | 525·0 | 528·8 | 529·4 | 530·3 | 529·8 | | |
| 522·9 | 523·1 | 524·2 | 523·7 | 521·8 | 519·7 | 518·5 | 522·0 | 526·0 | 528·4 | 531·3 | 529·9 | 530·0 | | |
| 522·9 | 523·9 | 523·6 | 524·1 | 519·7 | 519·8 | 518·0 | 521·6 | 526·1 | 530·5 | 530·6 | 529·5 | 530·2 | | |
| 522·6 | 524·2 | 523·3 | 523·2 | 519·3 | 519·5 | 519·0 | 521·4 | 526·7 | 530·1 | 530·8 | 529·2 | 530·2 | | |
| 44·8 | 44·2 | 43·5 | 43·0 | 42·6 | 42·8 | 42·4 | 43·0 | 43·6 | 44·0 | 44·4 | 44·6 | 45·0 ^a | | |
| VERTICAL FORCE. | | | | | | Change in the Magnetic moment of the Bar for 1° Fah. = ·00007. | | | | | | | | |
| 118·5 | 118·8 | 119·0 | 122·1 | 123·3 | 126·9 | 124·8 | 124·8 | 123·8 | 123·6 | 122·0 | 121·9 | 121·4 | | |
| 119·5 | 118·8 | 119·3 | 122·2 | 123·3 | 127·0 | 124·8 | 124·8 | 123·9 | 123·6 | 122·1 | 121·9 | 121·3 | | |
| 119·5 | 118·8 | 120·0 | 122·2 | 123·3 | 127·0 | 125·0 | 124·4 | 123·6 | 122·8 | 122·1 | 121·9 | 121·3 | | |
| 119·4 | 118·8 | 120·6 | 122·5 | 123·3 | 126·0 | 124·8 | 124·4 | 123·6 | 122·8 | 122·0 | 121·9 | 121·1 | | |
| 119·4 | 118·9 | 120·9 | 122·5 | 123·3 | 125·8 | 124·8 | 124·4 | 123·6 | 122·8 | 122·0 | 121·7 | 121·1 | | |
| 119·1 | 118·9 | 121·1 | 122·6 | 124·7 | 125·5 | 124·8 | 124·4 | 123·6 | 122·8 | 122·0 | 121·7 | 121·1 | | |
| 119·1 | 119·0 | 121·1 | 123·0 | 123·6 | 125·5 | 124·8 | 124·4 | 123·6 | 122·8 | 121·9 | 121·7 | 121·7 | | |
| 119·0 | 118·9 | 121·1 | 123·2 | 124·8 | 125·8 | 124·8 | 123·8 | 123·6 | 122·8 | 121·9 | 121·6 | 121·7 | | |
| 119·0 | 118·9 | 121·1 | 123·0 | 126·5 | 126·3 | 124·8 | 124·1 | 123·6 | 122·0 | 121·9 | 121·6 | 121·7 | | |
| 119·0 | 118·9 | 121·5 | 123·0 | 126·5 | 127·9 | 124·8 | 124·2 | 123·6 | 122·0 | 121·9 | 121·6 | 121·7 | | |
| 119·0 | 118·9 | 121·8 | 123·0 | 126·4 | 124·8 | 124·8 | 123·8 | 123·6 | 122·0 | 121·9 | 121·6 | 121·7 | | |
| 118·9 | 119·1 | 122·0 | 123·3 | 126·5 | 125·0 | 124·8 | 123·8 | 123·6 | 122·0 | 121·9 | 121·5 | 121·7 | | |
| 46·6 | 46·4 | 46·4 | 44·6 | 43·9 | 43·1 | 44·0 | 43·6 | 44·1 | 44·4 | 44·6 | 44·8 | 45·0 ^a | | |

^a At 24^h 10^h Thermometer of H. F. 45°·6; of V. F. 45°·3.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|-------------|---|--|--|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | | | |
| D. | H. | M. | In. | ° | ° | | | | | | | | | |
| 23 | 22 | 0 | 29·682 | 12·9 | 10·9 | N. E. | Light. | Clear. | | | | | | |
| | 23 | 0 | 29·705 | 11·7 | 9·9 | N. E. | Light. | Clear. | | | | | | |
| 24 | 0 | 0 | 29·745 | 10·0 | 8·4 | N. E. | Very light. | Clear. | | | | | | |
| | 1 | 0 | 29·784 | 9·1 | 7·8 | N. E. | Very light. | Clear, except haze round horizon; fair. | | | | | | |
| | 2 | 0 | 29·810 | 10·5 | 8·8 | N. E. | Light. | Clear, except a few cir.-strat. and light haze round horizon. | | | | | | |
| | 3 | 0 | 29·834 | 12·4 | 10·2 | N. E. | Very light. | Clear. | | | | | | |
| | 4 | 0 | 29·838 | 14·6 | 12·4 | — | Calm. | Clear. | | | | | | |
| | 5 | 0 | 29·865 | 17·8 | 15·6 | — | Calm. | Clear. | | | | | | |
| | 6 | 0 | 29·864 | 19·0 | 17·0 | — | Calm. | Clear. | | | | | | |
| | 7 | 0 | 29·841 | 21·4 | 19·8 | S. E. | Very light. | Light cir.; haze round horizon, otherwise clear. | | | | | | |
| | 8 | 0 | 29·841 | 22·9 | 21·2 | S. E. | Very light. | Light cir. and haze in West, remainder clear; fair. | | | | | | |
| | 9 | 0 | 29·845 | 24·3 | 22·2 | S. E. | Very light. | Light cir. and haze round horizon, remainder clear; fair. | | | | | | |

| March 20th and 21st | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | |
|----------------------|----|---|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | | DECLINATION. | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 120.3 | 123.8 | 126.1 | 127.2 | 126.8 | 126.0 | 126.1 | 126.4 | 133.4 | 130.9 | 126.2 |
| 5 | 0 | 120.4 | 124.0 | 127.0 | 127.1 | 126.5 | 125.8 | 126.1 | 126.5 | 133.1 | 130.3 | 126.3 |
| 10 | 0 | 120.3 | 124.5 | 126.4 | 127.0 | 126.3 | 125.9 | 126.1 | 126.5 | 132.6 | 129.2 | 126.9 |
| 15 | 0 | 120.4 | 125.3 | 126.6 | 126.9 | 126.1 | 125.9 | 126.0 | 126.5 | 132.1 | 129.0 | 127.0 |
| 20 | 0 | 120.4 | 125.7 | 125.8 | 126.6 | 126.0 | 125.9 | 126.2 | 126.4 | 131.8 | 128.3 | 127.2 |
| 25 | 0 | 121.1 | 126.0 | 125.8 | 126.4 | 126.1 | 125.9 | 126.2 | 127.2 | 131.5 | 127.2 | 127.2 |
| 30 | 0 | 121.9 | 126.1 | 126.0 | 126.2 | 126.1 | 126.1 | 126.2 | 128.6 | 132.0 | 127.2 | 127.0 |
| 35 | 0 | 122.2 | 126.2 | 126.5 | 126.6 | 126.1 | 126.1 | 126.4 | 128.8 | 132.7 | 127.2 | 126.9 |
| 40 | 0 | 122.7 | 126.2 | 126.3 | 126.8 | 126.1 | 126.3 | 126.4 | 129.0 | 132.8 | 127.0 | 127.0 |
| 45 | 0 | 122.9 | 126.1 | 126.6 | 126.8 | 126.3 | 126.2 | 126.3 | 130.5 | 132.3 | 126.8 | 127.9 |
| 50 | 0 | 123.3 | 126.3 | 127.3 | 126.8 | 126.3 | 125.9 | 125.3 | 132.1 | 131.0 | 126.8 | 127.0 |
| 55 | 0 | 123.4 | 126.4 | 127.2 | 126.9 | 126.2 | 126.1 | 126.4 | 133.7 | 130.1 | 126.4 | 126.9 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
|----|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| M. | S. | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 2 | 0 | 524.0 | 520.6 | 520.5 | 526.4 | 528.1 | 527.4 | 526.4 | 524.2 | 524.6 | 522.0 | 524.0 |
| 7 | 0 | 523.0 | 521.5 | 521.0 | 526.2 | 527.9 | 527.2 | 526.1 | 524.3 | 525.8 | 519.9 | 524.6 |
| 12 | 0 | 521.2 | 521.0 | 521.8 | 526.8 | 527.7 | 527.4 | 525.2 | 524.4 | 527.1 | 519.0 | 524.0 |
| 17 | 0 | 518.1 | 519.9 | 524.0 | 527.2 | 527.8 | 527.8 | 525.2 | 524.3 | 527.8 | 519.1 | 524.0 |
| 22 | 0 | 516.8 | 520.5 | 524.5 | 528.0 | 527.8 | 527.4 | 525.0 | 524.2 | 525.2 | 520.0 | 523.0 |
| 27 | 0 | 516.3 | 522.8 | 525.5 | 527.7 | 528.0 | 527.8 | 525.0 | 523.7 | 524.3 | 521.1 | 521.8 |
| 32 | 0 | 518.4 | 521.6 | 525.7 | 526.8 | 528.0 | 527.9 | 525.0 | 523.8 | 523.9 | 522.5 | 520.5 |
| 37 | 0 | 521.2 | 519.5 | 525.2 | 527.2 | 527.2 | 527.8 | 524.9 | 523.7 | 524.2 | 522.9 | 520.0 |
| 42 | 0 | 522.2 | 521.1 | 525.6 | 527.2 | 527.0 | 527.6 | 524.8 | 523.8 | 524.5 | 523.0 | 520.0 |
| 47 | 0 | 519.9 | 519.6 | 525.7 | 528.0 | 528.0 | 527.6 | 524.9 | 523.7 | 524.9 | 522.9 | 519.0 |
| 52 | 0 | 519.4 | 519.7 | 525.6 | 528.0 | 528.0 | 526.3 | 524.5 | 523.4 | 523.9 | 523.3 | 520.0 |
| 57 | 0 | 520.9 | 518.7 | 526.1 | 527.7 | 527.8 | 526.7 | 524.2 | 523.8 | 523.0 | 524.0 | 520.0 |

| Thermometer | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
|-------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 44.2 | 43.8 | 43.6 | 44.2 | 44.1 | 44.6 | 44.8 | 44.6 | 44.4 | 44.2 | 44.0 |

| | | One Scale Division = .000062 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | |
|----|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| M. | S. | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 3 | 0 | 128.8 | 130.4 | 129.9 | 128.4 | 127.2 | 126.4 | 125.9 | 126.9 | 125.3 | 123.1 | 125.3 |
| 8 | 0 | 128.8 | 130.1 | 130.2 | 128.4 | 126.8 | 126.4 | 125.9 | 126.9 | 125.1 | 123.5 | 125.3 |
| 13 | 0 | 128.8 | 130.1 | 130.2 | 128.4 | 126.6 | 126.4 | 125.9 | 126.9 | 124.8 | 123.8 | 125.3 |
| 18 | 0 | 128.8 | 130.4 | 130.2 | 128.2 | 126.6 | 125.9 | 125.9 | 127.1 | 124.6 | 123.9 | 125.3 |
| 23 | 0 | 129.1 | 130.4 | 131.1 | 127.8 | 126.6 | 125.9 | 126.5 | 127.1 | 124.3 | 124.6 | 125.3 |
| 28 | 0 | 129.4 | 130.4 | 130.8 | 127.6 | 126.6 | 125.9 | 126.5 | 127.1 | 124.3 | 124.9 | 125.3 |
| 33 | 0 | 129.9 | 130.4 | 130.8 | 127.2 | 126.6 | 125.9 | 126.5 | 127.1 | 123.9 | 125.3 | 125.3 |
| 38 | 0 | 130.2 | 130.2 | 129.3 | 127.2 | 126.6 | 125.8 | 126.7 | 127.1 | 123.6 | 125.3 | 125.3 |
| 43 | 0 | 130.2 | 130.2 | 129.3 | 127.2 | 126.4 | 125.9 | 126.7 | 126.5 | 123.3 | 125.3 | 125.3 |
| 48 | 0 | 129.8 | 129.9 | 128.9 | 127.2 | 126.4 | 125.9 | 126.7 | 126.2 | 123.1 | 125.3 | 125.3 |
| 53 | 0 | 129.7 | 129.9 | 128.4 | 127.2 | 126.4 | 125.9 | 126.8 | 126.1 | 123.2 | 125.3 | 125.3 |
| 58 | 0 | 129.7 | 129.9 | 128.4 | 127.2 | 126.4 | 125.9 | 126.8 | 125.4 | 123.2 | 125.3 | 125.3 |

| Thermometer | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
|-------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 44.3 | 44.1 | 43.8 | 44.4 | 44.7 | 45.1 | 45.1 | 45.0 | 44.8 | 45.1 | 45.2 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|---|-------------------|---------------|------|------------|------------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| 20 | 10 | 0 | 29.527 | 29.5 | 28.0 | N. | Brisk with gusts | Overcast with dense haze; constant slight snow. [falling.] |
| | 11 | 0 | 29.562 | 29.7 | 27.8 | N. | Brisk with gusts | Overcast with cir-cum. and haze; a few light particles of snow |
| | 12 | 0 | 29.594 | 29.5 | 26.8 | N. | Brisk. | Overcast with cir-cum. and haze. |
| | 13 | 0 | 29.624 | 29.1 | 26.3 | N. | Moderate. | Densely overcast. |
| | 14 | 0 | 29.660 | 28.0 | 26.2 | N. | Moderate. | Densely overcast; light snow falling. |
| | 15 | 0 | 29.688 | 26.7 | 25.3 | N. | Brisk. | Densely overcast; a few flakes of snow falling. |
| | 16 | 0 | 29.705 | 25.5 | 23.9 | N. | Brisk with gusts | Densely overcast; very dark; a few flakes of snow falling. |
| | 17 | 0 | 29.693 | 24.5 | 22.8 | N. | Brisk. | Densely overcast; ceased snowing. |
| | 18 | 0 | 29.694 | 22.5 | 20.8 | N. | Brisk. | Densely overcast. |
| | 19 | 0 | 29.704 | 20.6 | 19.0 | N. | Light. | Perfectly clear, except a bank of heavy cum. on S. horizon. |
| | 20 | 0 | 29.704 | 18.4 | 17.0 | — | Calm. | Clear and unclouded. |
| | 21 | 0 | 29.702 | 16.8 | 15.6 | — | Calm. | Clear and unclouded. |

MAGNETICAL OBSERVATIONS.

March 20th and 21st.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 125.6 | 125.3 | 128.0 | 130.0 | 131.0 | 132.7 | 132.2 | 129.5 | 124.6 | 121.2 | 118.5 | 118.0 | 119.1 |
| 125.5 | 125.7 | 128.1 | 130.1 | 131.0 | 133.0 | 131.8 | 129.9 | 124.6 | 120.7 | 118.4 | 118.0 | 119.1 |
| 124.1 | 126.0 | 128.2 | 130.1 | 131.2 | 132.9 | 131.9 | 129.8 | 123.8 | 120.3 | 118.1 | 118.0 | 119.2 |
| 123.6 | 126.0 | 128.4 | 130.0 | 131.5 | 132.2 | 131.5 | 128.5 | 123.3 | 120.1 | 118.2 | 118.1 | 119.5 |
| 123.1 | 127.4 | 128.3 | 130.7 | 131.4 | 132.7 | 131.5 | 128.0 | 123.7 | 120.4 | 117.8 | 118.2 | 119.6 |
| 123.0 | 127.2 | 128.5 | 130.1 | 131.7 | 132.3 | 131.1 | 127.9 | 122.8 | 119.8 | 117.6 | 118.2 | 119.4 |
| 123.0 | 127.1 | 129.0 | 130.3 | 132.2 | 133.6 | 130.9 | 126.7 | 122.8 | 119.6 | 117.8 | 118.2 | 119.8 |
| 122.9 | 127.5 | 129.6 | 130.2 | 132.1 | 133.1 | 130.4 | 126.1 | 122.4 | 119.0 | 117.8 | 118.8 | 119.8 |
| 123.0 | 127.5 | 129.9 | 130.2 | 132.0 | 133.0 | 130.2 | 125.8 | 122.0 | 118.7 | 117.8 | 118.8 | 120.0 |
| 123.7 | 127.5 | 130.1 | 130.1 | 132.8 | 132.7 | 130.0 | 125.1 | 121.9 | 118.6 | 117.9 | 118.8 | 120.0 |
| 124.5 | 127.7 | 130.3 | 130.8 | 133.0 | 132.5 | 130.2 | 125.0 | 121.3 | 118.7 | 118.1 | 118.9 | 120.1 |
| 125.1 | 127.9 | 130.0 | 130.8 | 132.9 | 132.2 | 129.8 | 125.0 | 121.3 | 118.8 | 118.0 | 119.1 | 120.4 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 519.3 | 526.5 | 526.8 | 527.1 | 524.0 | 522.1 | 519.3 | 510.4 | 505.7 | 504.7 | 505.8 | 516.3 | 519.4 |
| 519.4 | 527.0 | 526.2 | 527.2 | 524.0 | 522.6 | 518.3 | 511.1 | 507.1 | 504.9 | 506.2 | 516.0 | 519.8 |
| 520.5 | 527.0 | 525.8 | 526.6 | 524.0 | 522.1 | 518.0 | 510.9 | 507.0 | 505.5 | 506.2 | 516.0 | 519.9 |
| 520.0 | 525.9 | 526.7 | 525.8 | 524.1 | 522.2 | 517.0 | 509.9 | 506.0 | 506.2 | 508.3 | 516.0 | 521.0 |
| 522.0 | 526.5 | 526.2 | 524.5 | 523.4 | 521.6 | 516.0 | 509.6 | 505.0 | 507.0 | 510.2 | 517.2 | 520.9 |
| 523.5 | 526.8 | 526.3 | 524.4 | 523.6 | 520.7 | 516.9 | 507.4 | 504.0 | 507.6 | 510.6 | 517.8 | 520.8 |
| 524.0 | 526.8 | 526.6 | 524.5 | 523.4 | 520.6 | 516.3 | 507.3 | 503.1 | 506.9 | 510.7 | 518.2 | 521.0 |
| 524.5 | 527.2 | 527.4 | 524.4 | 523.3 | 521.1 | 514.5 | 506.1 | 502.5 | 505.0 | 511.5 | 518.3 | 521.0 |
| 525.0 | 527.2 | 527.1 | 523.6 | 523.0 | 520.3 | 514.3 | 506.1 | 503.2 | 504.7 | 512.1 | 518.4 | 521.9 |
| 525.0 | 526.9 | 527.3 | 523.6 | 523.1 | 520.1 | 512.3 | 505.4 | 503.0 | 505.2 | 512.4 | 518.0 | 521.0 |
| 526.0 | 527.1 | 527.5 | 524.0 | 522.8 | 519.8 | 512.6 | 504.5 | 504.0 | 504.2 | 514.4 | 517.7 | 521.6 |
| 526.5 | 527.0 | 527.7 | 524.4 | 523.5 | 519.1 | 512.1 | 504.9 | 503.7 | 504.4 | 516.2 | 517.8 | 521.0 |
| 44.0 | 44.0 | 44.0 | 43.6 | 43.0 | 44.4 | 45.0 | 45.5 | 46.0 | 46.2 | 46.5 | 47.0 | 47.0 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 124.8 | 124.0 | 126.4 | 127.7 | 129.4 | 126.6 | 125.3 | 122.6 | 121.8 | 122.2 | 122.9 | 121.2 | 122.0 |
| 124.8 | 124.4 | 126.4 | 127.8 | 129.0 | 126.6 | 124.8 | 122.6 | 121.9 | 122.2 | 122.3 | 121.2 | 122.0 |
| 124.7 | 124.4 | 126.4 | 127.4 | 128.8 | 126.4 | 124.8 | 122.6 | 121.9 | 122.4 | 122.1 | 121.2 | 122.0 |
| 124.3 | 124.7 | 126.4 | 127.4 | 128.7 | 126.4 | 124.8 | 122.1 | 121.9 | 122.4 | 122.1 | 121.2 | 123.2 |
| 124.3 | 124.4 | 126.3 | 127.3 | 128.6 | 126.3 | 124.6 | 122.0 | 121.9 | 122.7 | 122.2 | 121.5 | 122.8 |
| 124.3 | 124.4 | 126.3 | 128.5 | 128.5 | 125.7 | 124.4 | 122.0 | 121.7 | 122.7 | 122.0 | 121.5 | 122.9 |
| 124.1 | 124.7 | 126.9 | 129.0 | 128.1 | 125.7 | 124.4 | 122.0 | 121.8 | 122.7 | 121.9 | 121.5 | 123.0 |
| 123.7 | 125.3 | 126.9 | 129.3 | 127.7 | 125.4 | 124.0 | 121.7 | 121.8 | 122.7 | 121.9 | 121.5 | 123.0 |
| 123.7 | 126.0 | 126.9 | 129.3 | 127.5 | 125.4 | 124.0 | 121.7 | 121.8 | 122.8 | 121.9 | 121.5 | 123.6 |
| 123.9 | 126.0 | 127.2 | 129.3 | 126.9 | 125.4 | 123.5 | 121.7 | 121.8 | 122.9 | 121.4 | 121.4 | 123.6 |
| 124.2 | 126.0 | 127.2 | 129.4 | 126.9 | 125.4 | 123.2 | 122.0 | 121.9 | 122.9 | 121.6 | 121.4 | 123.6 |
| 124.1 | 126.0 | 127.4 | 129.4 | 126.8 | 125.3 | 123.2 | 122.0 | 121.9 | 123.1 | 121.6 | 121.4 | 123.6 |
| 45.1 | 45.1 | 44.8 | 44.6 | 44.0 | 44.9 | 45.3 | 45.9 | 46.2 | 46.4 | 46.6 | 47.0 | 47.1 ^a |

^a At 21^d 10^h Thermometer of H. F. 47.4; of V. F. 47.3.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|------------|-------------|--|
| | | Dry. | Wet. | Direction. | Force. | |
| D. H. M. | In. | ° | ° | — | — | |
| 20 22 0 | 29.712 | 16.8 | 15.0 | — | Calm. | Clouded round horizon with cir.-cum. and cir.-strat.; remainder clear. |
| 23 0 | 29.729 | 16.5 | 15.2 | N. | Very light. | Partially clouded with light cir.-strat. and haze. [remainder clear. |
| 21 0 0 | 29.724 | 15.4 | 13.9 | N. by W. | Light. | Dense cum.-strat. and cir.-strat. on the S. and East horizons; re- |
| 1 0 | 29.720 | 14.8 | 13.5 | — | Calm. | Dense cum.-strat. in S. horizon. |
| 2 0 | 29.721 | 16.7 | 14.8 | — | Calm. | Dense cum.-strat. in S. horizon; remainder clear; fair. |
| 3 0 | 29.718 | 19.1 | 16.9 | — | Calm. | Dense cum.-strat. along S. horizon; remainder clear; fair. |
| 4 0 | 29.705 | 20.8 | 18.5 | — | Calm. | Dense cum.-strat. along S. horizon; remainder clear; fair. |
| 5 0 | 29.692 | 22.8 | 20.8 | — | Calm. | Detached cum.-strat. and cir.-cum. round horizon; zenith clear; fair. |
| 6 0 | 29.674 | 24.4 | 22.4 | N. N. W. | Very light. | Detached cum.-strat. and cir.-cum. round horizon; zenith clear; fair. |
| 7 0 | 29.658 | 26.5 | 24.8 | S. S. W. | Very light. | Detached cir.-cum. and cum.-strat.; generally fair. |
| 8 0 | 29.628 | 28.0 | 26.2 | S. S. E. | Very light. | Detached cir.-cum. round horizon; remainder clear; fair. |
| 9 0 | 29.608 | 29.1 | 27.2 | S. S. E. | Very light. | Light cir.-cum. generally round horizon; remainder clear; fair. |

| April 24th and 25th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | | 121.2 | 122.3 | 123.0 | 123.0 | 123.3 | 123.0 | 123.5 | 130.9 | 120.1 | 127.9 | 125.5 |
| 5 | 0 | | 121.2 | 122.4 | 123.0 | 122.5 | 123.6 | 123.4 | 123.8 | 131.7 | 120.5 | 127.5 | 125.1 |
| 10 | 0 | | 121.2 | 122.4 | 123.0 | 122.5 | 123.1 | 123.0 | 123.7 | 132.1 | 121.1 | 127.6 | 125.1 |
| 15 | 0 | | 121.2 | 122.9 | 123.1 | 122.2 | 123.1 | 123.0 | 123.7 | 132.1 | 122.3 | 127.3 | 125.0 |
| 20 | 0 | | 121.5 | 123.0 | 123.0 | 122.5 | 123.0 | 123.2 | 123.6 | 132.0 | 123.8 | 127.7 | 125.0 |
| 25 | 0 | | 121.7 | 123.0 | 123.0 | 123.0 | 123.0 | 123.1 | 123.5 | 129.6 | 124.3 | 127.5 | 125.0 |
| 30 | 0 | | 121.8 | 123.0 | 123.4 | 123.1 | 123.0 | 123.2 | 123.3 | 128.1 | 126.2 | 127.3 | 124.8 |
| 35 | 0 | | 122.0 | 123.1 | 123.3 | 123.7 | 123.0 | 123.8 | 123.4 | 128.2 | 126.9 | 127.1 | 124.9 |
| 40 | 0 | | 122.0 | 123.1 | 123.4 | 123.0 | 123.0 | 123.9 | 123.5 | 127.5 | 128.1 | 126.4 | 125.0 |
| 45 | 0 | | 122.0 | 123.1 | 123.4 | 123.0 | 122.9 | 123.8 | 125.0 | 127.0 | 128.2 | 126.4 | 125.0 |
| 50 | 0 | | 122.1 | 123.1 | 123.4 | 123.0 | 123.0 | 123.5 | 127.1 | 125.3 | 128.0 | 126.3 | 125.1 |
| 55 | 0 | | 122.2 | 123.1 | 123.7 | 123.1 | 123.0 | 123.4 | 129.0 | 122.6 | 128.3 | 126.0 | 125.7 |

| | | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|--|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 500.0 | 503.0 | 502.6 | 497.1 | 495.5 | 496.0 | 497.0 | 494.1 | 492.9 | 499.7 | 500.7 |
| 7 | 0 | | 500.0 | 502.9 | 502.5 | 497.0 | 496.0 | 496.0 | 497.0 | 493.6 | 493.2 | 500.4 | 501.1 |
| 12 | 0 | | 500.0 | 501.9 | 503.2 | 496.5 | 496.0 | 495.6 | 496.8 | 494.0 | 494.1 | 500.4 | 501.5 |
| 17 | 0 | | 500.1 | 501.1 | 501.4 | 496.8 | 496.8 | 495.6 | 496.6 | 493.6 | 494.9 | 500.4 | 502.1 |
| 22 | 0 | | 500.0 | 500.7 | 509.2 | 496.0 | 496.8 | 495.9 | 496.6 | 493.7 | 495.4 | 500.1 | 502.1 |
| 27 | 0 | | 500.0 | 500.9 | 599.1 | 497.0 | 496.0 | 496.0 | 496.7 | 494.0 | 498.9 | 499.8 | 502.4 |
| 32 | 0 | | 500.7 | 500.3 | 598.6 | 498.0 | 496.0 | 496.4 | 496.5 | 493.7 | 497.9 | 500.1 | 502.9 |
| 37 | 0 | | 501.9 | 500.0 | 598.1 | 498.0 | 496.0 | 497.4 | 496.0 | 492.0 | 498.3 | 500.5 | 503.0 |
| 42 | 0 | | 503.9 | 500.0 | 597.8 | 498.0 | 495.7 | 497.9 | 495.8 | 491.6 | 498.7 | 500.0 | 503.4 |
| 47 | 0 | | 504.0 | 501.7 | 597.8 | 498.0 | 495.5 | 498.0 | 494.8 | 491.5 | 499.0 | 499.9 | 504.3 |
| 52 | 0 | | 502.5 | 502.8 | 597.4 | 496.8 | 495.6 | 497.2 | 493.5 | 492.9 | 499.1 | 499.7 | 505.0 |
| 57 | 0 | | 502.4 | 502.5 | 597.6 | 496.1 | 496.0 | 497.0 | 493.0 | 492.5 | 499.6 | 499.7 | 504.8 |

| Thermometer | | | 65.0 | 65.2 | 65.0 | 65.0 | 64.5 | 63.5 | 62.7 | 62.1 | 61.4 | 61.2 | 61.0 |
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|
| | | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |

| | | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|----|----|--|---|------|------|------|------|-----------------|------|------|------|------|------|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 85.0 | 84.7 | 84.6 | 83.1 | 81.9 | 83.2 | 84.3 | 84.5 | 85.9 | 86.2 | 86.1 |
| 8 | 0 | | 85.0 | 84.3 | 84.6 | 83.1 | 81.9 | 83.2 | 84.3 | 84.5 | 85.9 | 86.5 | 86.3 |
| 13 | 0 | | 85.0 | 84.3 | 84.4 | 82.2 | 81.9 | 83.2 | 84.3 | 84.5 | 85.7 | 85.9 | 86.3 |
| 18 | 0 | | 85.0 | 84.3 | 84.5 | 82.2 | 81.9 | 83.1 | 83.8 | 84.6 | 85.7 | 85.9 | 86.1 |
| 23 | 0 | | 85.0 | 84.3 | 84.5 | 82.2 | 82.4 | 83.6 | 83.8 | 84.8 | 85.7 | 85.4 | 86.1 |
| 28 | 0 | | 85.0 | 84.3 | 84.5 | 82.2 | 82.3 | 83.8 | 83.7 | 84.8 | 86.2 | 85.2 | 86.1 |
| 33 | 0 | | 84.8 | 84.5 | 84.5 | 82.2 | 82.3 | 83.8 | 84.5 | 84.8 | 85.8 | 85.2 | 86.1 |
| 38 | 0 | | 85.0 | 84.5 | 84.2 | 82.2 | 82.5 | 84.3 | 84.8 | 85.1 | 85.7 | 85.1 | 86.1 |
| 43 | 0 | | 85.0 | 84.5 | 84.2 | 82.2 | 82.9 | 84.3 | 84.8 | 85.1 | 87.7 | 85.1 | 86.1 |
| 48 | 0 | | 85.0 | 84.6 | 84.2 | 82.2 | 82.8 | 84.3 | 84.8 | 85.8 | 86.7 | 85.1 | 86.5 |
| 53 | 0 | | 84.6 | 84.6 | 84.7 | 81.9 | 82.8 | 84.3 | 83.8 | 85.9 | 86.7 | 85.1 | 86.7 |
| 58 | 0 | | 84.7 | 84.6 | 83.1 | 81.9 | 83.2 | 84.3 | 83.8 | 85.9 | 86.8 | 85.1 | 86.7 |

| Thermometer | | | 63.6 | 63.6 | 63.6 | 63.8 | 64.5 | 63.8 | 63.3 | 62.8 | 61.8 | 61.8 | 61.6 |
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|
| | | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|------------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 24 | 10 | 0 | 29.391 | 68.0 | 57.4 | N. | Brisk with gusts | Generally cloudy, with heavy detached cir.-cum. |
| | 11 | 0 | 29.454 | 66.4 | 56.4 | N. N. W. | Brist. | Detached cir.-cum., with clear intervals. |
| | 12 | 0 | 29.464 | 62.6 | 54.8 | N. | Moderate. | Detached cir.-cum. and cum.-strat., with clear intervals. |
| | 13 | 0 | 29.520 | 57.4 | 51.8 | N. N. W. | Brisk. | Heavy cir.-strat. and cir.-cum. round horizon; zenith clear; hazy. |
| | 14 | 0 | 29.618 | 52.8 | 47.0 | N. W. | Brisk. | Densely clouded cir.-cum. and cum.-strat. |
| | 15 | 0 | 29.617 | 49.2 | 44.2 | N. W. | Brisk. | Densely clouded cir.-cum. and cum.-strat. |
| | 16 | 0 | 29.673 | 48.2 | 44.0 | N. N. W. | Moderate. | Densely clouded cir.-cum. and cum.-strat. |
| | 17 | 0 | 29.711 | 46.8 | 43.2 | N. N. W. | Moderate. | Generally overcast with cir.-cum. and cum.-strat; clear spaces. |
| | 18 | 0 | 29.748 | 45.5 | 42.1 | N. N. W. | Moderate. | Generally clear, a few cir.-cum. passing rapidly across zenith from N.W. |
| | 19 | 0 | 29.776 | 44.4 | 41.4 | N. N. W. | Moderate. | Clear. |
| | 20 | 0 | 29.811 | 42.9 | 40.3 | — | Calm. | Clear. |
| | 21 | 0 | 29.809 | 39.9 | 35.1 | — | Calm. | Clear. |

MAGNETICAL OBSERVATIONS.

April 24th and 25th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 126.3 | Sc. Div. 128.2 | Sc. Div. 129.5 | Sc. Div. 127.0 | Sc. Div. 129.1 | Sc. Div. 122.8 | Sc. Div. 117.0 | Sc. Div. 117.7 | Sc. Div. 121.0 | Sc. Div. 118.7 | Sc. Div. 117.1 | Sc. Div. 115.2 | Sc. Div. 117.7 |
| 126.5 | 128.6 | 128.9 | 126.8 | 128.5 | 121.8 | 117.8 | 118.0 | 122.0 | 120.3 | 117.0 | 115.3 | 118.0 |
| 126.6 | 129.4 | 128.3 | 127.1 | 127.8 | 122.7 | 116.9 | 120.1 | 122.8 | 120.9 | 116.2 | 115.9 | 118.1 |
| 127.0 | 130.5 | 128.0 | 126.8 | 128.3 | 119.2 | 116.0 | 122.0 | 122.8 | 121.3 | 116.9 | 115.8 | 118.2 |
| 127.0 | 130.5 | 128.0 | 126.6 | 129.0 | 115.7 | 116.7 | 124.3 | 123.0 | 120.4 | 115.9 | 115.6 | 118.3 |
| 126.8 | 130.4 | 127.6 | 127.1 | 129.6 | 114.9 | 117.9 | 125.2 | 122.6 | 118.8 | 114.9 | 116.1 | 118.1 |
| 127.0 | 130.5 | 127.9 | 128.2 | 129.9 | 114.1 | 117.3 | 123.8 | 122.9 | 118.8 | 115.2 | 115.8 | 118.1 |
| 127.0 | 130.1 | 128.0 | 128.8 | 129.4 | 114.5 | 118.3 | 122.8 | 122.2 | 121.1 | 115.1 | 115.5 | 118.1 |
| 127.5 | 129.5 | 127.8 | 129.9 | 124.5 | 115.1 | 119.1 | 123.6 | 120.9 | 121.2 | 114.3 | 116.1 | 118.3 |
| 127.9 | 128.9 | 127.3 | 130.4 | 123.9 | 114.9 | 117.8 | 124.0 | 118.5 | 119.4 | 112.6 | 116.6 | 118.3 |
| 127.9 | 129.4 | 126.9 | 129.0 | 123.5 | 115.4 | 117.1 | 122.8 | 118.2 | 117.1 | 113.1 | 117.0 | 118.5 |
| 128.2 | 129.6 | 126.8 | 128.8 | 123.0 | 116.9 | 117.4 | 121.7 | 117.4 | 116.4 | 113.7 | 117.7 | 118.8 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 505.0 | 503.8 | 505.4 | 506.1 | 501.6 | 488.3 | 493.1 | 507.3 | 494.7 | 487.4 | 478.9 | 479.5 | 492.4 |
| 504.9 | 503.3 | 505.2 | 507.0 | 502.4 | 487.6 | 499.0 | 506.5 | 493.7 | 489.8 | 481.6 | 480.5 | 496.3 |
| 504.6 | 503.0 | 505.9 | 507.7 | 500.8 | 482.0 | 503.7 | 505.1 | 491.5 | 493.4 | 475.0 | 481.6 | 498.9 |
| 505.0 | 503.7 | 505.6 | 507.7 | 497.4 | 481.6 | 408.4 | 504.6 | 490.4 | 494.4 | 478.9 | 480.0 | 497.1 |
| 505.4 | 503.3 | 504.2 | 507.4 | 494.3 | 480.8 | 509.1 | 505.5 | 488.6 | 493.6 | 479.9 | 479.7 | 494.8 |
| 505.0 | 503.1 | 503.6 | 507.3 | 491.4 | 481.9 | 510.9 | 503.4 | 483.1 | 494.2 | 478.9 | 481.0 | 494.4 |
| 505.0 | 503.0 | 505.2 | 508.7 | 489.6 | 481.4 | 510.5 | 501.8 | 485.1 | 495.9 | 472.7 | 479.7 | 494.7 |
| 504.2 | 503.0 | 505.6 | 508.1 | 487.8 | 485.0 | 507.2 | 500.8 | 481.4 | 495.5 | 474.5 | 482.1 | 494.8 |
| 503.2 | 504.1 | 504.6 | 507.4 | 488.3 | 488.8 | 503.5 | 499.1 | 482.5 | 494.0 | 480.0 | 481.7 | 494.5 |
| 504.1 | 505.6 | 503.5 | 508.2 | 490.7 | 489.3 | 505.7 | 497.1 | 481.9 | 481.5 | 478.9 | 483.1 | 494.2 |
| 504.3 | 507.4 | 504.6 | 506.2 | 492.8 | 491.1 | 507.8 | 497.3 | 483.3 | 478.4 | 482.0 | 485.6 | 494.4 |
| 504.9 | 506.3 | 504.3 | 503.8 | 499.0 | 491.5 | 508.5 | 494.8 | 483.9 | 477.4 | 480.4 | 490.7 | 495.0 |
| 60.0 | 59.9 | 59.6 | 58.8 | 59.6 | 61.0 | 61.8 | 62.3 | 62.5 | 62.4 | 62.5 | 62.6 | 62.6 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 86.9 | 87.5 | 89.6 | 90.1 | 86.6 | 84.1 | 80.9 | 79.0 | 81.5 | 82.5 | 85.7 | 94.5 | 91.2 |
| 87.1 | 87.5 | 89.0 | 90.1 | 87.2 | 83.0 | 81.6 | 79.0 | 80.6 | 82.9 | 85.8 | 94.2 | 92.2 |
| 87.1 | 87.5 | 89.0 | 90.3 | 86.9 | 82.0 | 81.5 | 79.0 | 80.6 | 83.5 | 86.8 | 93.8 | 92.2 |
| 87.2 | 87.5 | 89.1 | 90.3 | 86.6 | 82.7 | 80.4 | 79.8 | 81.0 | 83.8 | 88.5 | 92.2 | 92.2 |
| 87.3 | 87.5 | 89.5 | 90.1 | 86.6 | 81.1 | 79.9 | 80.6 | 80.8 | 84.1 | 89.4 | 91.4 | 91.2 |
| 87.3 | 87.2 | 89.5 | 89.7 | 86.6 | 80.1 | 79.3 | 80.6 | 80.8 | 84.6 | 89.8 | 90.5 | 90.9 |
| 87.5 | 87.5 | 89.5 | 88.9 | 86.6 | 80.1 | 78.9 | 80.6 | 81.2 | 85.1 | 90.3 | 99.5 | 90.9 |
| 87.5 | 87.9 | 89.9 | 87.7 | 86.6 | 80.1 | 78.4 | 80.6 | 81.7 | 85.1 | 92.2 | 90.3 | 90.4 |
| 87.3 | 88.6 | 90.0 | 87.7 | 87.4 | 80.4 | 78.7 | 81.2 | 81.7 | 85.0 | 94.1 | 89.9 | 90.2 |
| 87.2 | 89.0 | 90.0 | 87.7 | 87.3 | 80.4 | 79.1 | 80.7 | 81.9 | 84.4 | 94.2 | 89.8 | 90.2 |
| 87.2 | 89.0 | 90.4 | 87.7 | 86.8 | 80.4 | 79.1 | 81.5 | 81.9 | 84.4 | 95.2 | 80.4 | 89.7 |
| 87.2 | 89.4 | 90.3 | 87.6 | 86.5 | 80.4 | 79.1 | 81.5 | 81.9 | 85.0 | 94.9 | 81.2 | 89.7 |
| 61.2 | 60.8 | 60.4 | 59.6 | 60.4 | 60.6 | 61.1 | 61.4 | 61.6 | 61.8 | 61.8 | 62.0 | 62.1 ^a |

^a At 25^d 10^h Thermometer of H. F. 62°·4; of V. F. 62°·0.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|-----------|-------------|--|
| | | Dry. | Wet. | Direction | Force. | |
| D. H. M. | In. | ° | ° | | | |
| 24 22 0 | 29.810 | 41.0 | 38.7 | — | Calm. | Unclouded, but hazy. |
| 23 0 | 29.824 | 40.4 | 38.0 | N. N. W. | Very light. | Clear. |
| 25 0 0 | 29.831 | 39.8 | 38.2 | N. N. W. | Very light. | Quite clear. |
| 1 0 | 29.830 | 43.0 | 40.8 | — | Calm. | Quite clear. |
| 2 0 | 29.828 | 47.6 | 43.4 | — | Calm. | Quite clear. |
| 3 0 | 29.833 | 50.8 | 45.8 | — | Calm. | Quite clear. |
| 4 0 | 29.833 | 52.2 | 47.4 | S. W. | Very light. | Generally clear; very light cir. scattered; fair. |
| 5 0 | 29.818 | 54.9 | 48.4 | S. S. W. | Very light. | Light cir. haze scattered generally; clear intervals. |
| 6 0 | 29.808 | 56.2 | 47.9 | S. S. W. | Very light. | Very light cir. haze generally diffused; fair [diameter about 35° perfect. |
| 7 0 | 29.793 | 57.7 | 48.4 | S. S. W. | Very light. | Overspread with very light cir. and haze; fair; halo round the ☉ |
| 8 0 | 29.782 | 59.5 | 50.5 | S. S. W. | Light. | Overcast; cir. and haze. |
| 9 0 | 29.735 | 56.5 | 47.1 | S. S. W. | Light. | Thickly overcast cir.; cir.-strat. and haze. |

| May 24th and 25th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'·721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 122·0 | 119·4 | 119·0 | 114·1 | 115·8 | 122·0 | 115·0 | 117·0 | 116·1 | 123·3 | 117·0 |
| 5 | 0 | | 124·0 | 119·4 | 119·0 | 113·7 | 116·1 | 122·7 | 115·6 | 117·1 | 118·1 | 124·2 | 116·8 |
| 10 | 0 | | 124·0 | 119·5 | 119·0 | 114·0 | 116·2 | 119·7 | 116·4 | 116·8 | 118·9 | 124·0 | 117·1 |
| 15 | 0 | | 123·9 | 120·2 | 119·1 | 115·0 | 117·7 | 115·0 | 116·8 | 116·7 | 119·9 | 123·3 | 118·2 |
| 20 | 0 | | 122·7 | 120·2 | 121·6 | 117·5 | 121·0 | 114·4 | 117·2 | 116·6 | 120·2 | 121·4 | 118·8 |
| 25 | 0 | | 121·9 | 120·2 | 132·7 | 119·8 | 122·0 | 113·1 | 117·8 | 117·8 | 121·3 | 120·8 | 119·2 |
| 30 | 0 | | 121·3 | 120·2 | 131·6 | 120·0 | 120·5 | 114·8 | 118·9 | 118·1 | 121·5 | 120·7 | 120·0 |
| 35 | 0 | | 121·2 | 119·9 | 124·3 | 119·4 | 119·0 | 115·4 | 118·8 | 117·6 | 122·4 | 120·6 | 120·7 |
| 40 | 0 | | 121·1 | 119·2 | 122·8 | 117·6 | 119·0 | 114·5 | 118·2 | 117·7 | 123·4 | 120·5 | 120·8 |
| 45 | 0 | | 119·9 | 119·3 | 119·7 | 116·9 | 116·9 | 114·8 | 117·1 | 116·7 | 123·6 | 120·4 | 121·2 |
| 50 | 0 | | 119·7 | 119·2 | 119·3 | 116·0 | 118·0 | 115·4 | 116·6 | 116·2 | 124·1 | 120·4 | 121·3 |
| 55 | 0 | | 119·8 | 118·9 | 115·0 | 115·1 | 120·1 | 115·0 | 116·2 | 115·0 | 123·9 | 120·4 | 121·0 |
| | | | One Scale Division = ·000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 502·0 | 499·0 | 498·0 | 494·4 | 496·9 | 490·0 | 495·0 | 493·2 | 495·3 | 496·0 | 491·6 |
| 7 | 0 | | 511·5 | 499·6 | 497·2 | 490·0 | 496·0 | 490·0 | 494·0 | 493·3 | 494·8 | 496·0 | 491·4 |
| 12 | 0 | | 515·3 | 501·0 | 496·0 | 488·0 | 494·0 | 492·5 | 493·0 | 493·3 | 495·5 | 495·8 | 492·6 |
| 17 | 0 | | 515·6 | 500·7 | 494·8 | 488·0 | 491·9 | 494·5 | 492·5 | 493·4 | 496·0 | 494·4 | 492·9 |
| 22 | 0 | | 512·6 | 500·4 | 494·2 | 487·4 | 492·4 | 495·0 | 493·0 | 493·6 | 496·0 | 493·4 | 493·9 |
| 27 | 0 | | 508·0 | 501·2 | 506·3 | 491·4 | 494·0 | 494·0 | 492·2 | 493·9 | 495·8 | 494·4 | 494·6 |
| 32 | 0 | | 506·7 | 500·8 | 515·8 | 495·0 | 493·0 | 495·5 | 492·3 | 495·9 | 496·0 | 495·1 | 495·0 |
| 37 | 0 | | 508·3 | 500·2 | 515·6 | 496·3 | 491·0 | 496·5 | 492·7 | 495·2 | 495·1 | 494·8 | 495·0 |
| 42 | 0 | | 506·9 | 499·7 | 508·6 | 495·6 | 492·5 | 496·8 | 492·9 | 495·0 | 496·1 | 494·3 | 495·1 |
| 47 | 0 | | 505·4 | 501·5 | 505·1 | 495·0 | 493·0 | 496·5 | 492·9 | 494·2 | 495·9 | 496·0 | 495·0 |
| 52 | 0 | | 501·7 | 501·5 | 501·3 | 495·0 | 491·0 | 496·0 | 492·9 | 494·1 | 495·6 | 496·0 | 495·9 |
| 57 | 0 | | 499·5 | 500·4 | 497·8 | 495·0 | 488·5 | 496·5 | 493·4 | 495·6 | 495·8 | 496·0 | 496·3 |
| Thermometer | | | 64·6 | 65·5 | 66·2 | 65·4 | 66·0 | 66·1 | 66·0 | 65·8 | 65·5 | 65·6 | 65·5 |
| | | | One Scale Division = ·000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 86·9 | 83·8 | 83·0 | 81·4 | 79·1 | 76·4 | 72·2 | 77·4 | 75·7 | 77·5 | 78·5 |
| 8 | 0 | | 88·0 | 83·8 | 83·0 | 80·9 | 78·4 | 75·9 | 73·1 | 77·4 | 75·7 | 77·5 | 78·1 |
| 13 | 0 | | 88·3 | 84·1 | 83·2 | 81·7 | 77·7 | 74·8 | 73·5 | 77·5 | 75·7 | 77·5 | 78·7 |
| 18 | 0 | | 88·0 | 84·1 | 83·0 | 82·2 | 77·7 | 74·8 | 74·5 | 77·5 | 75·7 | 77·5 | 78·7 |
| 23 | 0 | | 86·8 | 84·1 | 83·0 | 82·2 | 77·7 | 72·4 | 74·9 | 77·5 | 75·4 | 77·2 | 78·3 |
| 28 | 0 | | 86·0 | 84·1 | 84·4 | 82·2 | 77·7 | 72·4 | 75·2 | 77·5 | 75·4 | 77·3 | 78·3 |
| 33 | 0 | | 86·0 | 83·8 | 82·8 | 82·1 | 77·7 | 73·3 | 75·2 | 75·9 | 75·3 | 77·3 | 77·4 |
| 38 | 0 | | 86·0 | 83·7 | 83·1 | 82·1 | 77·7 | 70·3 | 75·4 | 75·9 | 78·6 | 77·2 | 77·4 |
| 43 | 0 | | 85·2 | 83·7 | 81·6 | 81·2 | 77·7 | 70·3 | 75·4 | 75·9 | 78·5 | 77·2 | 77·4 |
| 48 | 0 | | 85·2 | 83·0 | 81·6 | 80·5 | 77·7 | 70·3 | 75·5 | 75·5 | 78·6 | 77·0 | 77·4 |
| 53 | 0 | | 83·4 | 83·0 | 81·6 | 80·6 | 77·7 | 70·7 | 76·5 | 75·5 | 78·6 | 77·1 | 77·4 |
| 58 | 0 | | 83·4 | 83·0 | 80·8 | 79·8 | 76·4 | 71·5 | 76·5 | 75·5 | 78·5 | 77·3 | 77·2 |
| Thermometer | | | 63·6 | 64·1 | 64·8 | 65·2 | 66·0 | 66·6 | 66·6 | 66·0 | 65·6 | 65·4 | 64·9 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 24 | 10 | 0 | 29·730 | 68·2 | 61·0 | E. | Very light. | Detached cir. and cir.-cum. scattered; fair. |
| | 11 | 0 | 29·715 | 72·4 | 64·8 | — | Calm. | Detached cir. and cir.-cum. scattered; fair. |
| | 12 | 0 | 29·712 | 71·5 | 63·8 | — | Calm. | Flexuous cir. generally over the sky; fair. |
| | 13 | 0 | 29·693 | 65·4 | 58·8 | — | Calm. | Unclouded, hazy round horizon. |
| | 14 | 0 | 29·684 | 59·8 | 56·8 | — | Calm. | Cir. and haze round horizon; clear in zenith. |
| | 15 | 0 | 29·676 | 57·6 | 55·6 | — | Calm. | Unclouded, hazy round horizon. |
| | 16 | 0 | 29·672 | 56·2 | 54·6 | — | Calm. | Unclouded, hazy in W. |
| | 17 | 0 | 29·676 | 55·7 | 54·7 | — | Calm. | Clear except a few light cir.-cum. in S. |
| | 18 | 0 | 29·674 | 55·1 | 54·0 | — | Calm. | Clear except a few light cir.-cum. in S. |
| | 19 | 0 | 29·642 | 53·9 | 53·1 | — | Calm. | Clear except light cir.; haze round horizon. |
| | 20 | 0 | 29·632 | 53·7 | 52·8 | — | Calm. | Clear except cir.; haze round horizon. |
| | 21 | 0 | 29·622 | 53·9 | 53·2 | — | Calm. | Clouded cir.-cum. and haze. |

MAGNETICAL OBSERVATIONS.

May 24th and 25th.

| DECLINATION. | | | | | | | | | | | | |
|---|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Angular Value of one Scale Division = 0'·721. | | | | | | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 120·5 | 123·7 | 126·9 | 128·4 | 130·4 | 129·9 | 127·2 | 123·6 | 121·1 | 115·4 | 115·9 | 118·5 | 118·0 |
| 121·2 | 124·4 | 127·3 | 128·8 | 131·1 | 129·1 | 127·5 | 124·0 | 121·0 | 115·0 | 115·3 | 118·5 | 118·1 |
| 121·6 | 124·1 | 127·9 | 128·4 | 130·0 | 129·0 | 127·0 | 124·0 | 121·0 | 115·5 | 115·0 | 118·2 | 118·1 |
| 121·5 | 124·3 | 127·8 | 128·8 | 131·0 | 128·2 | 127·0 | 124·1 | 119·6 | 115·4 | 115·0 | 118·3 | 119·3 |
| 121·1 | 125·0 | 128·0 | 129·7 | 131·8 | 128·1 | 126·3 | 123·7 | 119·4 | 115·7 | 116·1 | 118·5 | 120·9 |
| 121·5 | 125·5 | 128·4 | 129·9 | 131·3 | 128·0 | 126·0 | 122·3 | 119·2 | 115·0 | 116·2 | 118·5 | 121·1 |
| 121·9 | 126·0 | 128·1 | 130·0 | 132·0 | 128·0 | 126·0 | 122·0 | 118·4 | 115·1 | 115·8 | 118·2 | 121·1 |
| 122·4 | 126·6 | 127·8 | 130·0 | 132·0 | 128·0 | 125·9 | 122·1 | 118·0 | 115·0 | 116·5 | 118·5 | 121·0 |
| 122·8 | 126·4 | 127·9 | 130·0 | 131·8 | 128·0 | 124·9 | 121·2 | 117·8 | 115·1 | 117·0 | 119·1 | 121·2 |
| 122·9 | 126·9 | 128·0 | 130·0 | 130·7 | 127·7 | 123·9 | 121·0 | 117·7 | 115·1 | 118·2 | 119·2 | 121·2 |
| 123·6 | 126·8 | 128·2 | 130·0 | 131·3 | 127·7 | 123·4 | 121·3 | 116·9 | 115·4 | 117·9 | 119·2 | 121·0 |
| 123·4 | 126·1 | 128·5 | 129·6 | 129·9 | 127·3 | 124·0 | 121·0 | 115·6 | 116·0 | 118·1 | 119·3 | 120·6 |

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Change in the Magnetic moment of the Bar for 1° Fahr. = ·00027. | | | | | | | | | | | | |
| 496·2 | 496·4 | 496·0 | 495·2 | 493·6 | 488·3 | 488·3 | 493·0 | 490·7 | 488·0 | 495·4 | 500·6 | 487·7 |
| 495·7 | 495·9 | 496·0 | 494·0 | 493·3 | 487·9 | 490·0 | 494·4 | 490·9 | 487·6 | 493·0 | 501·3 | 485·2 |
| 496·5 | 496·5 | 496·0 | 495·2 | 493·3 | 488·4 | 489·7 | 494·8 | 490·2 | 492·3 | 489·9 | 501·8 | 485·2 |
| 496·1 | 495·8 | 495·2 | 495·3 | 491·2 | 489·3 | 490·0 | 493·9 | 490·0 | 491·6 | 489·8 | 502·7 | 489·1 |
| 496·4 | 496·1 | 496·5 | 495·4 | 489·2 | 489·9 | 489·8 | 490·6 | 489·8 | 490·0 | 494·7 | 501·9 | 496·9 |
| 495·6 | 496·0 | 496·9 | 496·3 | 491·0 | 489·6 | 489·4 | 492·7 | 491·7 | 489·9 | 494·6 | 503·8 | 500·2 |
| 495·0 | 495·9 | 497·0 | 495·1 | 491·0 | 489·0 | 489·6 | 491·9 | 488·7 | 493·0 | 493·0 | 504·5 | 499·4 |
| 495·0 | 496·2 | 495·9 | 493·8 | 491·0 | 488·6 | 491·9 | 493·7 | 488·6 | 492·9 | 496·6 | 505·0 | 498·9 |
| 495·8 | 496·2 | 495·1 | 492·9 | 489·0 | 488·6 | 493·4 | 494·3 | 488·3 | 490·8 | 501·1 | 506·7 | 501·7 |
| 495·0 | 496·0 | 495·0 | 492·7 | 490·9 | 490·0 | 493·4 | 493·4 | 489·6 | 490·8 | 502·5 | 505·9 | 502·7 |
| 495·3 | 496·3 | 495·6 | 494·2 | 487·5 | 488·5 | 492·9 | 491·8 | 488·9 | 491·9 | 501·4 | 501·5 | 502·4 |
| 495·0 | 496·4 | 495·9 | 494·4 | 488·8 | 488·9 | 492·9 | 491·8 | 487·0 | 495·2 | 504·0 | 497·4 | 501·9 |
| 65·4 | 65·2 | 65·0 | 64·5 | 64·8 | 65·0 | 65·0 | 66·0 | 67·2 | 68·5 | 70·2 | 70·7 | 71·4 ^a |

| VERTICAL FORCE. | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| Change in the Magnetic moment of the Bar for 1° Fahr. = ·00007. | | | | | | | | | | | | |
| 77·1 | 77·7 | 78·5 | 80·9 | 80·1 | 80·8 | 79·5 | 78·4 | 77·3 | 75·7 | 73·1 | 71·1 | 70·5 |
| 76·9 | 77·7 | 79·1 | 80·9 | 80·1 | 80·8 | 79·5 | 78·4 | 77·3 | 75·9 | 71·2 | 71·5 | 70·5 |
| 77·0 | 78·2 | 79·1 | 80·9 | 79·9 | 80·4 | 79·4 | 78·1 | 77·7 | 75·9 | 70·8 | 71·5 | 71·4 |
| 77·0 | 78·2 | 79·1 | 80·9 | 80·4 | 80·4 | 79·4 | 78·1 | 77·7 | 75·9 | 70·8 | 71·5 | 72·5 |
| 76·7 | 78·2 | 79·1 | 81·3 | 80·4 | 80·4 | 79·3 | 78·1 | 77·6 | 74·8 | 70·6 | 71·5 | 73·2 |
| 76·6 | 78·2 | 79·1 | 81·3 | 80·4 | 80·4 | 78·8 | 78·1 | 77·6 | 74·8 | 70·4 | 71·5 | 73·2 |
| 76·6 | 78·5 | 79·8 | 81·3 | 80·4 | 80·1 | 79·1 | 78·1 | 76·6 | 74·6 | 70·3 | 71·8 | 73·3 |
| 76·5 | 78·5 | 79·8 | 81·4 | 81·1 | 79·9 | 79·1 | 78·1 | 76·6 | 73·5 | 70·4 | 72·3 | 73·4 |
| 76·5 | 78·5 | 79·8 | 81·4 | 81·1 | 80·1 | 79·2 | 78·1 | 76·6 | 73·1 | 70·6 | 72·3 | 72·3 |
| 76·7 | 78·5 | 80·3 | 80·6 | 81·1 | 79·7 | 79·2 | 78·0 | 76·6 | 73·1 | 71·4 | 72·3 | 72·3 |
| 77·2 | 78·5 | 81·0 | 80·6 | 80·8 | 79·5 | 78·8 | 77·3 | 76·6 | 73·1 | 71·2 | 71·7 | 72·3 |
| 77·2 | 78·5 | 81·0 | 80·6 | 80·8 | 79·5 | 78·8 | 77·3 | 75·7 | 73·1 | 71·2 | 71·4 | 72·3 |
| 65·3 | 64·9 | 65·0 | 63·4 | 64·0 | 64·6 | 64·6 | 64·9 | 66·0 | 67·6 | 68·6 | 69·2 | 70·0 ^a |

^a At 25^d 10^h Thermometer of H. F. 71°·9; of V. F. 70°·6.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|-------------|-------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | — | Calm. | Clouded cir.-cum. and haze. |
| 24 | 22 | 0 | 29·618 | 54·3 | 53·1 | — | Calm. | Clouded cir.-cum. and haze. |
| | 23 | 0 | 29·620 | 54·5 | 53·0 | — | Calm. | Clouded cir.-cum. and haze. |
| 25 | 0 | 0 | 29·620 | 55·8 | 54·4 | — | Calm. | Clouded cir.-cum. and haze. |
| | 1 | 0 | 29·624 | 59·5 | 57·6 | — | Calm. | Clouded cir.-cum. and haze. |
| | 2 | 0 | 29·614 | 62·8 | 60·8 | — | Calm. | Clouded cir.-cum. and haze; distant thunder in W. |
| | 3 | 0 | 29·612 | 64·8 | 62·4 | — | Calm. | Overcast light cir.-cum. and haze. |
| | 4 | 9 | 29·591 | 69·4 | 66·4 | — | Calm. | Partially overcast with light cir.-cum. and haze. |
| | 5 | 0 | 29·581 | 70·3 | 67·5 | S. | Very light. | Dense cum.-strat. round horizon; light cir.; haze generally diffused in [zenith. |
| | 6 | 0 | 29·560 | 74·0 | 69·6 | S. | Very light. | Dense cir.-strat. in N. W. and W. light cir.; haze diffused over remainder |
| | 7 | 0 | 29·530 | 75·5 | 69·7 | S. E. by S. | Light. | Partially clear above; cir. and cum. over remainder. [of sky. |
| | 8 | 0 | 29·510 | 75·8 | 68·3 | S. by E. | Moderate. | Partially clouded cir. and detached cum. |
| | 9 | 0 | 29·480 | 76·6 | 68·4 | S. S. E. | Moderate. | Light cir. generally over the sky; hazy. |

| June 19th and 20th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | S. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 116.9 | 120.1 | 122.0 | 122.5 | 121.4 | 122.6 | 121.0 | 123.0 | — | 121.3 | 123.3 |
| 5 | 0 | | 117.3 | 120.2 | 122.0 | 122.9 | 122.2 | 121.5 | 121.0 | 123.0 | 122.6 | 122.0 | 124.0 |
| 10 | 0 | | 117.8 | 120.3 | 122.3 | 122.4 | 122.4 | 121.3 | 120.9 | 123.0 | 122.2 | 122.7 | 123.7 |
| 15 | 0 | | 118.1 | 120.7 | 122.2 | 122.0 | 122.0 | 121.3 | 121.0 | 122.1 | 122.0 | 122.5 | 123.9 |
| 20 | 0 | | 118.5 | 120.9 | 122.0 | 122.0 | 121.3 | 122.0 | 121.0 | 122.0 | 122.2 | 123.0 | 123.9 |
| 25 | 0 | | 119.0 | 121.0 | 122.4 | 122.8 | 121.1 | 121.3 | 121.2 | 122.2 | 122.0 | 123.2 | 123.9 |
| 30 | 0 | | 119.2 | 121.0 | 122.9 | 122.1 | 121.2 | 120.0 | 122.0 | 122.6 | 122.0 | 124.3 | 123.3 |
| 35 | 0 | | 119.7 | 121.2 | 122.9 | 121.7 | 121.0 | 119.2 | 122.8 | 122.8 | 121.6 | 123.9 | 123.7 |
| 40 | 0 | | 119.7 | 121.4 | 122.9 | 121.8 | 120.9 | 119.7 | 123.0 | 122.8 | 121.3 | 123.2 | 123.9 |
| 45 | 0 | | 119.5 | 121.3 | 123.0 | 121.3 | 121.0 | 121.0 | 122.8 | 122.3 | 121.1 | 123.0 | 124.2 |
| 50 | 0 | | 119.9 | 121.8 | 123.0 | 120.9 | 121.0 | 121.8 | 122.8 | 122.0 | 120.9 | 122.8 | 124.2 |
| 55 | 0 | | 120.0 | 121.7 | 122.8 | 120.6 | 122.0 | 121.7 | 122.8 | 122.7 | 121.0 | 123.0 | 124.5 |
| | | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 496.9 | 500.1 | 498.5 | 493.4 | 492.3 | 494.0 | 497.0 | 495.8 | 495.0 | 497.0 | 497.0 |
| 8 | 0 | | 494.6 | 499.7 | 498.4 | 492.7 | 492.2 | 491.8 | 497.0 | 495.4 | 495.3 | 496.8 | 496.7 |
| 13 | 0 | | 496.2 | 500.3 | 498.2 | 493.0 | 494.5 | 491.3 | 496.0 | 495.2 | 495.6 | 497.2 | 495.9 |
| 18 | 0 | | 497.1 | 500.1 | 497.9 | 494.8 | 493.8 | 491.7 | 495.0 | 495.3 | 496.0 | 496.2 | 495.3 |
| 23 | 0 | | 500.0 | 500.0 | 496.0 | 493.8 | 494.1 | 496.1 | 493.8 | 495.2 | 496.3 | 495.8 | 495.6 |
| 28 | 0 | | 502.6 | 499.2 | 496.6 | 495.5 | 494.4 | 497.9 | 492.1 | 495.4 | 496.7 | 495.5 | 495.3 |
| 33 | 0 | | 503.6 | 498.0 | 496.5 | 494.8 | 493.6 | 497.3 | 492.0 | 495.1 | 496.0 | 496.9 | 495.0 |
| 38 | 0 | | 503.4 | 498.0 | 496.5 | 493.7 | 492.2 | 495.8 | 492.0 | 495.0 | 495.8 | 495.8 | 495.2 |
| 43 | 0 | | 502.8 | 498.3 | 498.0 | 493.4 | 493.0 | 496.9 | 493.0 | 495.0 | 496.0 | 495.7 | 495.2 |
| 48 | 0 | | 501.0 | 498.0 | 497.6 | 492.6 | 492.8 | 496.1 | 493.8 | 494.6 | 496.8 | 495.8 | 495.0 |
| 53 | 0 | | 500.0 | 499.9 | 497.6 | 492.8 | 493.2 | 495.4 | 494.2 | 494.0 | 497.2 | 496.8 | 495.5 |
| 58 | 0 | | 500.0 | 499.2 | 495.3 | 491.3 | 493.8 | 495.7 | 495.3 | 494.0 | 497.4 | 496.7 | 495.0 |
| Thermometer | | | 73.5 | 74.0 | 73.7 | 73.7 | 73.2 | 72.8 | 72.0 | 71.8 | 71.6 | 71.5 | 71.0 |
| | | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 63.6 | 63.2 | 63.3 | 62.8 | 62.8 | 61.4 | 60.7 | 61.8 | 61.8 | 61.7 | 62.7 |
| 8 | 0 | | 63.2 | 63.1 | 63.2 | 62.8 | 62.8 | 61.4 | 60.7 | 61.8 | 62.1 | 61.7 | 62.7 |
| 13 | 0 | | 63.4 | 63.1 | 63.2 | 62.8 | 62.1 | 61.4 | 60.7 | 61.8 | 62.1 | 61.7 | 62.7 |
| 18 | 0 | | 63.4 | 63.1 | 63.0 | 62.8 | 62.1 | 61.4 | 61.0 | 61.8 | 61.8 | 61.8 | 62.7 |
| 23 | 0 | | 63.7 | 63.0 | 63.0 | 62.8 | 62.1 | 61.4 | 60.8 | 61.8 | 61.8 | 61.8 | 62.7 |
| 28 | 0 | | 63.9 | 63.1 | 63.0 | 63.1 | 62.1 | 61.4 | 60.8 | 61.8 | 61.8 | 61.8 | 62.7 |
| 33 | 0 | | 63.9 | 63.1 | 63.0 | 63.1 | 62.1 | 61.4 | 61.2 | 61.8 | 61.8 | 61.8 | 62.7 |
| 38 | 0 | | 63.8 | 63.2 | 63.0 | 63.1 | 61.8 | 61.4 | 61.2 | 61.8 | 61.8 | 61.8 | 62.7 |
| 43 | 0 | | 63.6 | 63.2 | 63.1 | 63.1 | 61.8 | 61.4 | 61.8 | 61.8 | 61.8 | 62.2 | 62.7 |
| 48 | 0 | | 63.4 | 63.2 | 63.1 | 62.8 | 61.8 | 60.8 | 61.8 | 61.8 | 61.8 | 62.2 | 62.7 |
| 53 | 0 | | 63.4 | 63.4 | 63.1 | 62.8 | 61.8 | 60.8 | 61.8 | 61.8 | 61.8 | 62.7 | 62.7 |
| 58 | 0 | | 63.4 | 63.3 | 63.1 | 62.8 | 61.4 | 60.9 | 61.8 | 61.8 | 61.8 | 62.7 | 63.0 |
| Thermometer | | | 72.5 | 73.2 | 73.1 | 72.7 | 72.7 | 72.8 | 72.3 | 71.9 | 71.7 | 71.5 | 71.1 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|------------------|--|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | |
| D. | H. | M. | In. | ° | ° | — | — | No remark. | | | | |
| 19 | 10 | 0 | 29.279 | 75.6 | 69.1 | — | — | Partially overcast, with heavy masses of cum. and cum.-strat. | | | | |
| | 11 | 0 | 29.320 | 76.2 | 68.7 | N. | Light. | Partially overcast; cir.-cum. and cum.-strat. | | | | |
| | 12 | 0 | 29.357 | 72.1 | 66.8 | N. W. | Very light. | A few detached cir.-cum. round horizon. | | | | |
| | 13 | 0 | 29.368 | 74.3 | 66.0 | N. | Mod. with gusts. | Unclouded; light haze round horizon. | | | | |
| | 14 | 0 | 29.402 | 68.2 | 63.2 | N. | Light. | Clear. | | | | |
| | 15 | 0 | 29.435 | 64.7 | 61.1 | — | Calm. | Clouded; cir.-cum. and haze. [and clear alternately.] | | | | |
| | 16 | 0 | 29.448 | 63.0 | 60.0 | — | Calm. | Clear in N.W., remainder clouded; cir.-cum. and haze; clouded | | | | |
| | 17 | 0 | 29.463 | 62.4 | 60.2 | — | Calm. | Unclouded; slight haze round horizon; sheet lightning in N. [horizon.] | | | | |
| | 18 | 0 | 29.465 | 63.2 | 61.2 | — | Calm. | Clear. | | | | |
| | 19 | 0 | 29.466 | 61.6 | 60.2 | — | Calm. | Clear, except very light flexuous cir.-haze rising in N. | | | | |
| | 20 | 0 | 29.476 | 60.4 | 59.6 | N. N. W. | Very light. | | | | | |
| | 21 | 0 | 29.479 | 60.2 | 59.1 | N. N. W. | Very light. | | | | | |

MAGNETICAL OBSERVATIONS.

June 19th and 20th.

| DECLINATION. | | | | | | | | | | | | |
|---|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Angular Value of one Scale Division = 0'.721. | | | | | | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 124.8 | 125.5 | 128.7 | 130.0 | 130.5 | 131.0 | 129.2 | 125.4 | 121.5 | 116.7 | 115.8 | 112.3 | 115.1 |
| 124.9 | 125.5 | 128.0 | 130.3 | 129.8 | 131.0 | 129.4 | 124.7 | 120.9 | 116.2 | 115.1 | 114.3 | 115.8 |
| 124.9 | 126.0 | 128.1 | 130.9 | 130.5 | 130.9 | 129.2 | 124.4 | 120.1 | 116.2 | 115.9 | 112.9 | 115.4 |
| 125.0 | 126.0 | 128.2 | 130.7 | 131.0 | 130.8 | 129.0 | 123.7 | 119.6 | 115.9 | 114.7 | 112.9 | 115.1 |
| 125.0 | 126.3 | 128.6 | 130.9 | 130.3 | 130.9 | 128.8 | 123.7 | 119.2 | 115.5 | 114.2 | 112.9 | 115.1 |
| 124.6 | 126.9 | 129.0 | 130.9 | 130.0 | 131.0 | 128.6 | 124.0 | 118.4 | 115.6 | 114.1 | 113.7 | 116.0 |
| 124.4 | 127.0 | 129.0 | 130.5 | 130.4 | 131.0 | 128.3 | 123.8 | 118.0 | 115.5 | 114.1 | 113.7 | 116.0 |
| 124.4 | 127.3 | 129.1 | 130.0 | 130.6 | 130.9 | 127.4 | 123.8 | 117.8 | 115.6 | 113.9 | 114.0 | 116.6 |
| 124.0 | 127.3 | 129.3 | 129.2 | 131.0 | 130.4 | 127.0 | 123.3 | 117.2 | 115.4 | 113.9 | 114.1 | 117.1 |
| 124.0 | 127.8 | 129.3 | 130.0 | 131.1 | 130.3 | 126.7 | 123.7 | 117.0 | 115.1 | 113.8 | 114.0 | 117.7 |
| 124.4 | 128.8 | 129.9 | 130.2 | 131.6 | 130.0 | 126.3 | 123.2 | 116.9 | 114.9 | 113.9 | 114.1 | 118.2 |
| 125.2 | 123.6 | 130.0 | 130.9 | 131.0 | 129.7 | 125.7 | 122.2 | 116.8 | 115.3 | 113.1 | 115.0 | 119.0 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 495.7 | 495.4 | 498.4 | 499.6 | 498.0 | 497.5 | 491.0 | 485.6 | 489.5 | 493.4 | 499.9 | 515.7 | 510.7 |
| 495.1 | 495.8 | 498.9 | 500.1 | 497.2 | 497.4 | 491.0 | 487.4 | 490.1 | 494.3 | 500.9 | 508.8 | 510.2 |
| 494.6 | 496.3 | 498.9 | 500.6 | 497.9 | 496.9 | 489.6 | 487.3 | 490.2 | 495.9 | 502.7 | 504.9 | 505.0 |
| 494.7 | 496.7 | 498.9 | 500.5 | 497.0 | 496.8 | 489.5 | 488.2 | 490.5 | 496.4 | 503.3 | 505.2 | 504.7 |
| 494.6 | 496.8 | 498.9 | 500.8 | 497.0 | 496.4 | 488.9 | 489.3 | 491.5 | 498.2 | 502.7 | 507.8 | 507.9 |
| 494.6 | 497.3 | 499.5 | 501.4 | 497.0 | 496.5 | 488.0 | 488.9 | 491.9 | 498.9 | 504.8 | 513.2 | 506.9 |
| 494.8 | 497.6 | 499.2 | 501.0 | 498.4 | 496.1 | 487.0 | 489.6 | 492.1 | 499.6 | 504.2 | 511.9 | 507.2 |
| 495.4 | 497.6 | 499.7 | 500.8 | 498.3 | 494.4 | 487.1 | 489.8 | 492.7 | 500.2 | 505.9 | 512.6 | 504.8 |
| 495.0 | 497.9 | 499.8 | 502.5 | 497.7 | 494.3 | 486.9 | 490.0 | 493.4 | 500.5 | 503.6 | 514.1 | 506.0 |
| 495.3 | 497.3 | 499.1 | 499.5 | 498.0 | 493.4 | 487.3 | 490.3 | 493.6 | 498.8 | 504.9 | 511.2 | 510.6 |
| 495.0 | 497.4 | 499.4 | 498.2 | 498.1 | 492.8 | 486.8 | 490.1 | 493.9 | 498.5 | 506.4 | 510.2 | 509.8 |
| 495.1 | 497.8 | 499.4 | 498.4 | 497.8 | 492.0 | 486.9 | 489.9 | 493.9 | 499.1 | 506.8 | 509.0 | 510.5 |
| 70.4 | 70.0 | 69.5 | 69.5 | 69.0 | 68.5 | 68.5 | 69.0 | 69.2 | 69.6 | 70.2 | 70.5 | 71.0 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 63.0 | 63.3 | 64.6 | 62.5 | 64.0 | 64.9 | 65.3 | 64.1 | 63.4 | 63.4 | 62.9 | 63.6 | 64.3 |
| 63.6 | 63.3 | 64.6 | 62.5 | 64.0 | 64.9 | 65.3 | 64.1 | 63.4 | 63.4 | 62.9 | 63.6 | 64.3 |
| 63.6 | 63.3 | 64.0 | 63.1 | 64.0 | 64.9 | 65.3 | 64.1 | 63.4 | 63.4 | 62.9 | 63.6 | 63.6 |
| 63.6 | 63.3 | 64.0 | 63.1 | 64.5 | 64.9 | 65.3 | 63.7 | 63.4 | 63.0 | 62.9 | 63.6 | 63.6 |
| 63.6 | 63.3 | 63.4 | 63.2 | 64.9 | 64.9 | 64.9 | 63.7 | 63.4 | 63.0 | 63.4 | 63.6 | 64.0 |
| 63.3 | 64.2 | 63.4 | 63.6 | 64.9 | 64.9 | 64.9 | 63.4 | 63.4 | 63.0 | 63.4 | 64.3 | 64.0 |
| 63.3 | 64.2 | 62.6 | 63.6 | 64.9 | 65.3 | 64.5 | 63.4 | 63.4 | 63.0 | 63.4 | 64.3 | 64.0 |
| 63.3 | 64.2 | 62.6 | 63.6 | 64.9 | 65.3 | 64.5 | 63.4 | 63.4 | 63.0 | 63.4 | 64.3 | 64.0 |
| 63.3 | 64.6 | 62.1 | 63.6 | 64.9 | 65.3 | 64.5 | 63.3 | 63.4 | 63.0 | 63.4 | 64.3 | 64.0 |
| 63.3 | 64.6 | 62.1 | 64.0 | 64.9 | 65.3 | 64.3 | 63.3 | 63.4 | 62.9 | 63.6 | 64.3 | 64.0 |
| 63.3 | 64.6 | 62.1 | 64.0 | 64.9 | 65.3 | 64.2 | 63.3 | 63.4 | 62.9 | 63.6 | 64.3 | 64.0 |
| 63.3 | 64.6 | 62.1 | 64.0 | 64.9 | 65.3 | 64.1 | 63.4 | 63.4 | 62.9 | 63.6 | 64.3 | 64.0 |
| 70.6 | 70.4 | 69.4 | 71.0 | 69.5 | 68.8 | 68.5 | 68.6 | 68.7 | 69.1 | 69.5 | 70.0 | 70.0 ^a |

^a At 20^d 10^h the Thermometer of H. F. 71.2; of V. F. 70.3.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|-----|-------------------|---------------|------|------------|-------------|---|
| H. | M. | In. | | Dry. | Wet. | Direction. | Force. | |
| 19 | 22 | 0 | 29.487 | 58.8 | 58.0 | — | Calm. | Light cir. round horizon; zenith clear. |
| | 23 | 0 | 29.508 | 58.7 | 55.4 | N. N. W. | Very light. | Light cir. round horizon; zenith clear. |
| 20 | 0 | 0 | 29.517 | 59.5 | 55.6 | N. by W. | Light. | Light cir.-strat. generally dispersed round horizon, otherwise clear. |
| | 1 | 0 | 29.535 | 61.0 | 55.6 | N. by W. | Light. | Light cir.-strat. round S. horizon, remainder clear. |
| | 2 | 0 | 29.528 | 63.4 | 57.4 | N. by W. | Light. | Clear. |
| | 3 | 0 | 29.529 | 66.0 | 58.4 | N. by W. | Light. | Clear. |
| | 4 | 0 | 29.545 | 67.9 | 58.8 | N. N. W. | Light. | Zenith clear; light detached cir.-cum. round N. W. and S. horizon; fair. |
| | 5 | 0 | 29.545 | 69.7 | 61.5 | N. N. W. | Light. | Overcast, with detached cir.-cum. and cum.-strat.; clear intervals; fair. |
| | 6 | 0 | 29.548 | 69.9 | 60.1 | N. N. W. | Light. | Overcast; well-defined cir.-cum. and cum.-strat.; clear intervals; fair. |
| | 7 | 0 | 29.546 | 71.1 | 61.7 | N. N. W. | Light. | Overcast; dense masses of cir.-cum. interspersed with clear spaces. |
| | 8 | 0 | 29.548 | 72.3 | 62.0 | N. N. W. | Light. | Overcast; dense masses of cum. and cir.-cum. |
| | 9 | 0 | 29.544 | 71.2 | 60.6 | N. N. W. | Light. | Clouded; cum., cir.-cum. and haze. |

| July 24th and 25th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 119.9 | 120.2 | 121.1 | 121.5 | 121.4 | 120.9 | 121.0 | 124.3 | 127.0 | 128.2 | 125.6 |
| 5 | 0 | | 119.8 | 120.2 | 121.3 | 121.3 | 121.5 | 121.0 | 120.7 | 126.6 | 131.9 | 128.1 | 128.2 |
| 10 | 0 | | 119.6 | 120.4 | 121.4 | 121.4 | 121.7 | 121.0 | 120.8 | 130.0 | 136.7 | 130.5 | 127.2 |
| 15 | 0 | | 119.8 | 120.5 | 121.4 | 124.7 | 121.2 | 120.8 | 121.0 | 130.7 | 139.2 | 129.0 | 128.6 |
| 20 | 0 | | 119.8 | 119.7 | 121.4 | 124.9 | 121.0 | 121.1 | 121.0 | 129.5 | 139.8 | 126.5 | 129.3 |
| 25 | 0 | | 119.8 | 120.9 | 121.8 | 122.1 | 121.1 | 122.9 | 121.1 | 129.0 | 139.3 | 121.0 | 127.7 |
| 30 | 0 | | 119.9 | 120.8 | 121.8 | 121.0 | 121.6 | 122.4 | 121.5 | 127.0 | 139.8 | 114.7 | 127.5 |
| 35 | 0 | | 120.0 | 120.8 | 121.9 | 120.5 | 122.0 | 122.4 | 121.9 | 126.3 | 137.2 | 115.4 | 124.2 |
| 40 | 0 | | 120.0 | 119.9 | 121.6 | 120.2 | 122.0 | 122.4 | 122.3 | 125.3 | 134.1 | 115.5 | 119.3 |
| 45 | 0 | | 120.0 | 120.7 | 121.5 | 120.9 | 121.0 | 122.0 | 122.8 | 124.5 | 132.0 | 115.6 | 121.1 |
| 50 | 0 | | 120.0 | 121.1 | 121.9 | 121.0 | 121.2 | 121.1 | 123.3 | 123.5 | 130.8 | 118.9 | 123.9 |
| 55 | 0 | | 120.1 | 121.2 | 121.9 | 120.8 | 120.8 | 121.0 | 123.9 | 125.8 | 129.6 | 122.5 | 126.9 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | | |
|----|----|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 511.8 | 509.2 | 510.8 | 512.1 | 522.9 | 523.1 | 525.0 | 522.9 | 518.9 | 522.2 | 491.6 |
| 7 | 0 | | 511.4 | 508.3 | 510.0 | 512.4 | 523.2 | 523.7 | 524.4 | 523.9 | 523.5 | 519.8 | 495.0 |
| 12 | 0 | | 510.5 | 508.9 | 510.8 | 512.4 | 524.0 | 525.0 | 523.8 | 522.8 | 528.4 | 518.1 | 493.0 |
| 17 | 0 | | 510.1 | 507.1 | 511.8 | 529.6 | 524.2 | 523.0 | 523.6 | 521.1 | 532.4 | 519.0 | 492.3 |
| 22 | 0 | | 509.3 | 505.6 | 511.5 | 524.5 | 525.4 | 526.4 | 523.8 | 518.1 | 529.8 | 517.2 | 495.1 |
| 27 | 0 | | 509.7 | 509.1 | 512.7 | 523.5 | 526.3 | 528.8 | 524.0 | 518.7 | 525.7 | 513.9 | 489.8 |
| 32 | 0 | | 508.0 | 510.8 | 512.9 | 520.5 | 528.1 | 527.0 | 523.3 | 526.5 | 523.5 | 512.5 | 489.5 |
| 37 | 0 | | 508.5 | 510.5 | 512.8 | 519.5 | 530.9 | 526.2 | 523.3 | 515.8 | 520.1 | 507.7 | 489.6 |
| 42 | 0 | | 508.6 | 511.3 | 512.5 | 518.4 | 525.6 | 527.4 | 524.1 | 532.9 | 518.4 | 504.0 | 486.3 |
| 47 | 0 | | 508.9 | 510.9 | 512.2 | 519.4 | 522.0 | 526.7 | 525.2 | 538.8 | 519.9 | 502.3 | 494.6 |
| 52 | 0 | | 509.7 | 510.7 | 512.5 | 520.9 | 521.6 | 525.5 | 524.6 | 516.4 | 520.3 | 503.4 | 503.8 |
| 57 | 0 | | 510.8 | 510.9 | 513.0 | 521.0 | 521.7 | 525.0 | 524.4 | 512.4 | 521.6 | 497.3 | 510.5 |

| Thermometer | 72.8 | 72.7 | 72.7 | 72.5 | 72.5 | 72.5 | 72.5 | 72.2 | 72.0 | 72.0 | 71.8 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | | |
|----|----|---|------|------|------|------|-----------------|------|------|------|------|------|------|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 55.0 | 53.9 | 53.3 | 53.5 | 50.4 | 49.5 | 50.8 | 52.3 | 50.9 | 47.6 | 21.4 |
| 8 | 0 | | 55.0 | 53.9 | 53.5 | 54.0 | 50.4 | 49.5 | 50.8 | 52.7 | 49.5 | 45.8 | 22.7 |
| 13 | 0 | | 55.0 | 53.9 | 53.5 | 54.0 | 50.4 | 49.5 | 50.8 | 51.5 | 48.5 | 39.4 | 21.9 |
| 18 | 0 | | 55.0 | 53.9 | 53.5 | 56.5 | 49.7 | 49.5 | 51.0 | 51.5 | 46.8 | 39.4 | 23.8 |
| 23 | 0 | | 55.0 | 53.9 | 53.5 | 54.6 | 49.7 | 49.9 | 52.0 | 51.5 | 45.6 | 37.4 | 25.5 |
| 28 | 0 | | 55.0 | 53.8 | 53.5 | 53.5 | 49.7 | 49.9 | 52.0 | 51.5 | 45.1 | 37.8 | 24.6 |
| 33 | 0 | | 53.9 | 53.8 | 53.5 | 52.7 | 49.7 | 49.9 | 52.0 | 51.5 | 45.1 | 35.5 | 24.6 |
| 38 | 0 | | 53.9 | 53.8 | 53.5 | 52.1 | 49.7 | 49.9 | 51.6 | 51.5 | 46.7 | 31.9 | 26.4 |
| 43 | 0 | | 53.9 | 53.3 | 53.5 | 51.0 | 49.5 | 50.1 | 51.6 | 51.0 | 46.7 | 30.9 | 26.4 |
| 48 | 0 | | 53.9 | 53.3 | 53.5 | 51.0 | 49.5 | 50.1 | 52.8 | 48.5 | 48.0 | 28.6 | 30.9 |
| 53 | 0 | | 53.9 | 53.3 | 53.5 | 51.0 | 49.5 | 50.5 | 52.3 | 48.5 | 48.0 | 27.5 | 33.1 |
| 58 | 0 | | 53.9 | 53.3 | 53.5 | 51.0 | 49.5 | 50.5 | 52.3 | 49.8 | 48.0 | 23.8 | 34.9 |

| Thermometer | 72.3 | 72.2 | 72.2 | 72.0 | 72.6 | 72.9 | 72.9 | 72.6 | 72.6 | 72.6 | 72.6 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | lbs. | |
| 24 | 10 | 0 | 29.502 | 70.0 | 63.6 | E. by S. | Very light. | Overcast; cir.-cum., cir.-strat., and cum.-strat.; fair. |
| | 11 | 0 | 29.594 | 69.3 | 64.0 | — | — | Overcast; cir.-cum., cir.-strat., and cum.-strat.; fair. |
| | 12 | 0 | 29.598 | 67.0 | 62.6 | — | Calm. | Clouded; cir.-cum., cir.-strat., and haze. |
| | 13 | 0 | 29.594 | 65.3 | 61.6 | — | Calm. | Clouded; cir.-strat. and haze. |
| | 14 | 0 | 29.384 | 63.8 | 61.2 | — | Calm. | Overcast; dense cir.-strat. and haze. |
| | 15 | 0 | 29.585 | 64.6 | 61.8 | — | Calm. | Overcast; dense haze; commenced raining. |
| | 16 | 0 | 29.569 | 62.8 | 61.6 | — | Calm. | Clouded; cir.-strat. and haze; a few drops of rain. |
| | 17 | 0 | 29.573 | 62.8 | 61.2 | — | Calm. | Overcast with cir.-strat. and haze; commenced raining at 17 ^h 45 ^m . |
| | 18 | 0 | 29.573 | 62.3 | 61.2 | — | Calm. | Overcast dense cir.-strat. and haze; raining heavily since 17 ^h 45 ^m . |
| | 19 | 0 | 29.571 | 62.1 | 61.1 | — | Calm. | Densely overcast cir.-strat. and haze; raining mod. since midnight. |
| | 20 | 0 | 29.551 | 61.6 | 61.0 | — | Calm. | Densely clouded; raining moderately since last observation. |
| | 21 | 0 | 29.525 | 61.8 | 61.2 | — | Calm. | Densely clouded; raining moderately since last observation. |

MAGNETICAL OBSERVATIONS.

July 24th and 25th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 129.8 | Sc. Div. 139.1 | Sc. Div. 132.1 | Sc. Div. 127.4 | Sc. Div. 120.2 | Sc. Div. 129.0 | Sc. Div. 131.1 | Sc. Div. 125.0 | Sc. Div. 120.6 | Sc. Div. 115.6 | Sc. Div. 117.0 | Sc. Div. 112.1 | Sc. Div. 118.0 |
| 133.0 | 144.0 | 131.0 | 125.9 | 121.0 | 129.1 | 130.0 | 122.8 | 121.7 | 116.7 | 116.3 | 112.4 | 117.9 |
| 136.1 | 145.2 | 128.7 | 128.2 | 119.8 | 127.2 | 129.9 | 119.6 | 122.4 | 115.9 | 116.3 | 113.7 | 117.0 |
| 136.4 | 145.1 | 129.1 | 128.3 | 121.6 | 126.0 | 127.3 | 120.0 | 122.1 | 115.0 | 116.8 | 116.4 | 117.5 |
| 134.5 | 144.0 | 128.9 | 127.8 | 122.9 | 125.2 | 131.5 | 121.1 | 123.3 | 116.4 | 116.8 | 116.7 | 117.7 |
| 134.8 | 143.8 | 129.0 | 124.9 | 123.5 | 125.1 | 131.0 | 120.0 | 122.7 | 116.7 | 116.8 | 117.8 | 117.4 |
| 136.1 | 141.5 | 131.4 | 121.5 | 122.9 | 126.1 | 130.0 | 119.1 | 120.3 | 116.1 | 116.2 | 119.2 | 118.0 |
| 138.3 | 139.8 | 133.0 | 120.4 | 124.0 | 157.9 | 130.1 | 119.1 | 117.3 | 116.3 | 116.7 | 119.0 | 118.0 |
| 138.7 | 136.5 | 133.6 | 122.0 | 123.7 | 127.5 | 129.7 | 118.4 | 116.6 | 115.0 | 117.7 | 119.0 | 118.2 |
| 138.0 | 133.1 | 129.9 | 121.0 | 125.5 | 127.4 | 127.9 | 118.7 | 115.4 | 115.6 | 116.4 | 118.9 | 119.2 |
| 139.6 | 131.0 | 128.0 | 122.2 | 126.3 | 127.1 | 127.0 | 118.7 | 114.0 | 117.2 | 115.1 | 118.2 | 119.0 |
| 138.4 | 131.5 | 127.3 | 120.6 | 126.3 | 131.8 | 127.2 | 119.2 | 113.6 | 117.0 | 114.1 | 117.5 | 119.2 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 513.5 | 501.1 | 510.2 | 508.6 | 509.0 | 523.5 | 509.3 | 505.5 | 485.7 | 492.6 | 504.0 | 504.9 | 522.7 |
| 511.3 | 507.4 | 508.3 | 505.5 | 509.5 | 525.8 | 513.1 | 505.6 | 489.7 | 495.5 | 502.5 | 507.0 | 525.6 |
| 512.0 | 516.1 | 506.5 | 509.2 | 507.0 | 525.6 | 514.3 | 499.5 | 491.2 | 496.5 | 502.2 | 508.7 | 520.7 |
| 511.3 | 515.6 | 505.1 | 509.4 | 508.5 | 526.2 | 509.2 | 492.3 | 490.2 | 494.3 | 502.9 | 514.7 | 519.6 |
| 508.5 | 514.7 | 506.0 | 510.4 | 509.0 | 522.7 | 504.7 | 494.6 | 490.6 | 495.6 | 502.5 | 515.5 | 518.5 |
| 508.9 | 513.9 | 506.4 | 508.2 | 508.0 | 518.4 | 501.6 | 494.9 | 491.0 | 494.8 | 502.5 | 521.1 | 519.0 |
| 507.6 | 508.2 | 504.7 | 503.4 | 508.6 | 517.1 | 498.1 | 498.9 | 491.4 | 497.2 | 501.8 | 523.6 | 519.0 |
| 509.7 | 511.7 | 503.4 | 511.4 | 509.0 | 518.0 | 497.1 | 497.5 | 489.7 | 500.5 | 503.5 | 522.8 | 519.8 |
| 508.2 | 513.4 | 501.7 | 510.2 | 507.6 | 519.1 | 500.1 | 496.3 | 489.8 | 500.6 | 505.7 | 524.1 | 516.5 |
| 503.3 | 514.2 | 499.5 | 506.8 | 509.5 | 513.0 | 497.4 | 492.7 | 493.3 | 500.7 | 506.9 | 523.4 | 518.1 |
| 499.4 | 512.4 | 504.1 | 509.6 | 514.4 | 504.6 | 495.3 | 490.5 | 493.3 | 502.3 | 507.4 | 523.2 | 518.1 |
| 497.4 | 511.0 | 505.5 | 508.9 | 516.9 | 506.4 | 497.8 | 488.7 | 490.1 | 503.4 | 507.2 | 524.3 | 520.5 |
| 71.5 | 71.5 | 71.0 | 71.0 | 71.0 | 70.0 | 70.0 | 70.0 | 70.5 | 71.0 | 71.4 | 71.5 | 71.7 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 34.9 | 35.9 | 45.9 | 44.0 | 43.1 | 46.3 | 52.5 | 52.4 | 51.5 | 53.7 | 56.3 | 56.8 | 60.0 |
| 35.4 | 39.4 | 46.2 | 44.0 | 42.4 | 46.3 | 52.5 | 52.4 | 52.0 | 54.7 | 56.4 | 57.3 | 60.0 |
| 36.4 | 39.9 | 45.9 | 43.3 | 43.6 | 46.7 | 51.9 | 50.9 | 52.0 | 54.7 | 56.4 | 58.4 | 59.9 |
| 36.4 | 42.6 | 45.0 | 44.6 | 44.2 | 48.1 | 51.0 | 50.1 | 52.0 | 54.7 | 56.4 | 58.4 | 59.9 |
| 36.3 | 43.6 | 45.0 | 44.6 | 44.8 | 48.1 | 51.7 | 51.4 | 52.7 | 54.7 | 56.9 | 59.3 | 59.7 |
| 36.1 | 44.2 | 45.9 | 40.4 | 44.0 | 48.1 | 51.7 | 51.4 | 53.2 | 54.7 | 56.9 | 59.3 | 59.7 |
| 37.1 | 45.2 | 44.1 | 41.5 | 44.1 | 50.0 | 51.7 | 51.4 | 53.2 | 55.6 | 56.7 | 60.5 | 60.6 |
| 40.0 | 45.2 | 44.1 | 40.6 | 44.1 | 50.6 | 52.0 | 52.4 | 53.2 | 55.9 | 56.3 | 60.5 | 60.6 |
| 40.1 | 46.2 | 44.1 | 43.0 | 44.1 | 51.5 | 52.0 | 52.4 | 53.2 | 55.6 | 57.2 | 60.4 | 60.6 |
| 37.9 | 46.2 | 44.1 | 43.0 | 44.1 | 49.5 | 52.0 | 51.7 | 54.2 | 55.6 | 56.8 | 60.0 | 60.6 |
| 36.6 | 46.1 | 44.1 | 43.0 | 45.6 | 49.2 | 50.9 | 51.7 | 53.7 | 55.6 | 56.8 | 60.0 | 60.6 |
| 35.4 | 46.1 | 44.1 | 43.0 | 45.8 | 51.5 | 51.5 | 51.2 | 53.7 | 56.3 | 56.8 | 60.0 | 61.6 |
| 72.0 | 72.2 | 72.2 | 71.8 | 70.9 | 70.0 | 70.0 | 70.2 | 70.4 | 70.6 | 70.8 | 71.0 | 71.2 ^a |

^a At 25th 10th Thermometer of H. F. 72.0; of V. F. 71.2.4.

METEOROLOGICAL OBSERVATIONS.

| Mean Götingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|---------------------|-------------------|---------------|------|-------------|-------------|--|
| | | Dry. | Wet. | Direction. | Force. | |
| D. H. M. | In. | ° | ° | — | Calm. | Densely clouded; raining moderately and heavily since last observation. |
| 24 22 0 | 29.541 | 61.7 | 60.9 | — | Calm. | Overcast; cir.-cum. and haze; raining heavily and constant. |
| 23 0 | 29.554 | 60.6 | 59.8 | — | Very light. | Clouds passing rapidly to W.; ceased raining. |
| 25 0 0 | 29.560 | 60.0 | 59.2 | E. | Very light. | Dense cir.-cum. and haze passing rapidly from E. |
| 1 0 | 29.562 | 60.2 | 59.2 | N. E. by E. | Light. | Clouded; cir.-cum. and cum.-strat. passing rapidly. |
| 2 0 | 29.572 | 62.0 | 60.6 | N. E. by E. | Light. | Clouded; cir.-cum. and cum.-strat. passing rapidly. |
| 3 0 | 29.562 | 63.6 | 61.6 | N. E. by E. | Light. | Clouded with cir.-cum., cir.-strat., and haze; a few clear spaces. |
| 4 0 | 29.570 | 65.4 | 60.6 | N. E. by E. | Light. | Clouded with cir.-cum., cir.-strat., and haze; a few clear spaces; clearing. |
| 5 0 | 29.578 | 66.9 | 62.3 | E. N. E. | Light. | Clouded with cir.-cum., cir.-strat., and haze; a few clear spaces. |
| 6 0 | 29.596 | 68.7 | 61.6 | E. N. E. | Light. | Clouded; cum.-strat., cir.-cum., and cir.-strat.; fair. |
| 7 0 | 29.600 | 71.6 | 64.0 | E. | Light. | Clouded; cum.-strat., cir.-cum., and cir.-strat.; fair. |
| 8 0 | 29.604 | 68.7 | 62.1 | E. | Light. | Clouded; cum.-strat., cir.-cum., and cir.-strat.; fair. |
| 9 0 | 29.601 | 69.2 | 62.8 | — | Calm. | Clouded; cir.-cum. and cir.-strat.; fair. |

| August 30th and 31st. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | | 116.6 | 117.0 | 117.8 | 122.4 | 124.0 | 117.4 | 118.8 | 125.0 | 128.2 | 118.8 | 116.5 |
| 5 | 0 | | 117.0 | 117.7 | 117.2 | 129.4 | 124.4 | 118.0 | 118.0 | 124.8 | 127.3 | 117.3 | 115.8 |
| 10 | 0 | | 117.2 | 117.1 | 117.8 | 138.5 | 125.0 | 119.3 | 117.5 | 125.0 | 123.3 | 116.7 | 115.0 |
| 15 | 0 | | 117.1 | 116.8 | 117.6 | 155.8 | 126.1 | 120.3 | 118.2 | 125.6 | 122.0 | 116.6 | 114.8 |
| 20 | 0 | | 117.1 | 116.4 | 117.3 | 169.3 | 127.9 | 121.6 | 118.0 | 126.2 | 125.3 | 116.5 | 115.0 |
| 25 | 0 | | 117.2 | 116.9 | 117.8 | 168.4 | 125.0 | 122.6 | 118.8 | 126.3 | 130.8 | 116.3 | 115.6 |
| 30 | 0 | | 118.0 | 117.0 | 117.9 | 156.0 | 122.0 | 121.5 | 112.0 | 127.8 | 130.8 | 116.9 | 116.8 |
| 35 | 0 | | 118.0 | 117.1 | 118.3 | 142.7 | 118.9 | 121.1 | 120.9 | 130.0 | 128.4 | 116.3 | 117.1 |
| 40 | 0 | | 118.1 | 117.6 | 118.2 | 131.6 | 115.7 | 121.0 | 122.4 | 129.1 | 125.3 | 116.2 | 116.4 |
| 45 | 0 | | 116.8 | 118.0 | 117.6 | 128.4 | 113.9 | 120.3 | 121.7 | 127.8 | 123.0 | 116.8 | 116.7 |
| 50 | 0 | | 116.9 | 117.9 | 118.2 | 126.4 | 115.7 | 120.2 | 123.7 | 125.5 | 121.7 | 117.3 | 117.4 |
| 55 | 0 | | 116.8 | 117.4 | 119.7 | 122.0 | 117.7 | 119.8 | 123.3 | 127.0 | 119.0 | 116.6 | 117.7 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | | |
|----|----|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 536.8 | 521.8 | 520.9 | 508.8 | 518.3 | 524.2 | 524.9 | 521.8 | 530.3 | 521.0 | 515.6 |
| 7 | 0 | | 531.9 | 521.2 | 519.3 | 504.4 | 518.9 | 524.3 | 524.0 | 522.0 | 530.0 | 520.9 | 516.5 |
| 12 | 0 | | 531.6 | 524.4 | 521.9 | 503.1 | 518.3 | 523.6 | 523.4 | 521.0 | 524.6 | 519.4 | 520.7 |
| 17 | 0 | | 533.0 | 520.6 | 521.2 | 506.7 | 514.9 | 523.0 | 524.1 | 519.0 | 516.2 | 518.5 | 517.2 |
| 22 | 0 | | 533.7 | 520.6 | 519.7 | 523.6 | 516.7 | 521.5 | 523.8 | 519.0 | 515.0 | 517.3 | 519.4 |
| 27 | 0 | | 534.5 | 519.7 | 521.5 | 533.1 | 517.6 | 520.9 | 523.1 | 517.8 | 521.8 | 514.7 | 517.8 |
| 32 | 0 | | 539.4 | 523.5 | 526.2 | 539.4 | 520.0 | 520.1 | 520.0 | 519.0 | 526.5 | 513.1 | 517.3 |
| 37 | 0 | | 539.4 | 527.8 | 526.6 | 539.7 | 521.0 | 519.7 | 519.1 | 521.9 | 527.4 | 513.9 | 518.7 |
| 42 | 0 | | 533.9 | 529.9 | 526.7 | 534.4 | 521.2 | 519.2 | 521.7 | 526.7 | 526.3 | 515.5 | 520.0 |
| 47 | 0 | | 529.4 | 529.7 | 523.5 | 531.3 | 521.1 | 520.0 | 521.0 | 533.6 | 525.8 | 514.8 | 522.3 |
| 52 | 0 | | 526.6 | 527.6 | 520.8 | 529.9 | 521.9 | 522.3 | 522.0 | 534.6 | 523.9 | 515.9 | 522.6 |
| 57 | 0 | | 521.7 | 525.2 | 516.9 | 523.0 | 524.7 | 523.9 | 522.0 | 533.0 | 521.5 | 415.0 | 527.2 |

| Thermometer | | 65.8 | 66.2 | 66.4 | 66.4 | 66.6 | 66.7 | 66.6 | 66.4 | 66.4 | 66.4 | 66.4 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | |

| | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | | |
|----|----|---|------|------|------|------|-----------------|------|------|------|------|------|------|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 68.8 | 67.1 | 68.1 | 65.2 | 57.1 | 61.7 | 61.7 | 57.0 | 41.7 | 54.0 | 56.8 |
| 8 | 0 | | 67.7 | 67.1 | 68.1 | 65.6 | 57.9 | 61.7 | 61.7 | 57.0 | 41.7 | 54.7 | 56.8 |
| 13 | 0 | | 68.2 | 67.1 | 68.4 | 65.6 | 57.7 | 60.1 | 60.9 | 57.0 | 41.8 | 54.7 | 56.8 |
| 18 | 0 | | 68.0 | 66.5 | 68.4 | 66.1 | 57.7 | 60.1 | 60.9 | 57.0 | 43.3 | 54.7 | 59.3 |
| 23 | 0 | | 68.0 | 66.5 | 68.2 | 63.8 | 59.4 | 60.1 | 60.9 | 57.9 | 45.4 | 54.7 | 59.3 |
| 28 | 0 | | 69.4 | 66.5 | 68.2 | 59.7 | 59.4 | 60.1 | 60.9 | 56.9 | 47.8 | 54.5 | 58.6 |
| 33 | 0 | | 70.5 | 67.8 | 68.2 | 55.9 | 61.3 | 60.3 | 59.5 | 56.1 | 48.5 | 54.5 | 57.8 |
| 38 | 0 | | 70.2 | 67.8 | 68.2 | 56.7 | 61.3 | 60.9 | 60.0 | 54.6 | 48.5 | 55.9 | 57.8 |
| 43 | 0 | | 70.2 | 68.9 | 67.6 | 56.7 | 61.3 | 60.9 | 60.0 | 50.1 | 49.2 | 55.9 | 59.3 |
| 48 | 0 | | 78.5 | 68.8 | 66.4 | 57.1 | 61.7 | 60.9 | 58.7 | 48.7 | 49.2 | 56.8 | 59.8 |
| 53 | 0 | | 78.0 | 68.8 | 65.6 | 57.1 | 61.7 | 60.9 | 57.8 | 45.8 | 49.8 | 56.8 | 59.8 |
| 58 | 0 | | 77.1 | 68.8 | 65.6 | 57.1 | 61.7 | 60.9 | 57.6 | 43.8 | 51.9 | 56.8 | 62.6 |

| Thermometer | | 65.3 | 65.6 | 65.6 | 66.8 | 67.6 | 67.6 | 67.4 | 67.0 | 66.8 | 66.8 | 66.7 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 30 | 10 | 0 | 29.561 | 66.3 | 64.1 | E by S. | Very light. | Generally overcast; cir-cum., cir-strat., and haze; clear spaces. |
| | 11 | 0 | 29.559 | 64.8 | 63.6 | — | Calm. | Densely clouded; cum-strat. and cir-cum. |
| | 12 | 0 | 29.553 | 64.6 | 63.0 | — | Calm. | Densely clouded; raining moderately; commenced at 11 ^h 30 ^m . T. |
| | 13 | 0 | 29.560 | 63.3 | 62.4 | — | Calm. | Densely overcast; cir-cum. and cum-strat. [M. T.] |
| | 14 | 0 | 29.572 | 62.8 | 61.8 | — | Calm. | Densely overcast; cir-cum. and cum-strat. |
| | 15 | 0 | 29.564 | 63.2 | 61.2 | — | Calm. | Densely overcast; cir-cum. and cum-strat. |
| | 16 | 0 | 29.562 | 61.8 | 60.7 | — | Calm. | Densely clouded; cir-cum. and haze. |
| | 17 | 0 | 29.566 | 61.8 | 61.0 | S. E. | Very light. | Densely clouded; cir-cum. and haze; commenced to rain. |
| | 18 | 0 | 29.566 | 62.2 | 61.4 | — | Calm. | Overcast; dense cir-cum., slight rain continuing since 17 hours. |
| | 19 | 0 | 29.566 | 61.2 | 60.8 | — | Calm. | Clouded; cir-cum. and haze; ceased raining at 19 ^h 30 ^m . |
| | 20 | 0 | 29.568 | 62.2 | 61.2 | — | Calm. | Clouded with light cir-strat. and haze; very light drizzling rain. |
| | 21 | 0 | 29.570 | 61.8 | 61.1 | — | Calm. | Densely overcast; with cir-strat. and haze. |

MAGNETICAL OBSERVATIONS.

August 30th and 31st.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 115.5 | 115.6 | 112.8 | 121.5 | 120.4 | 118.7 | 120.3 | 116.8 | 111.3 | 110.5 | 110.6 | 112.2 | 114.7 |
| 115.1 | 115.1 | 115.0 | 122.3 | 119.3 | 119.8 | 120.1 | 114.9 | 112.1 | 110.4 | 111.8 | 111.0 | 115.3 |
| 115.6 | 116.7 | 117.1 | 122.8 | 118.8 | 121.0 | 119.8 | 113.9 | 112.2 | 110.3 | 112.0 | 110.9 | 115.4 |
| 116.3 | 114.7 | 117.8 | 122.0 | 118.8 | 120.8 | 119.8 | 114.7 | 113.1 | 110.3 | 111.4 | 110.3 | 115.9 |
| 117.3 | 114.0 | 119.2 | 121.6 | 119.1 | 120.4 | 119.8 | 115.4 | 113.4 | 110.5 | 111.5 | 110.0 | 116.0 |
| 119.2 | 112.1 | 121.2 | 122.0 | 119.3 | 120.1 | 119.3 | 115.3 | 112.8 | 111.0 | 112.1 | 110.0 | 116.0 |
| 120.4 | 111.2 | 122.4 | — | 119.2 | 119.5 | 117.9 | 114.1 | 112.3 | 111.0 | 112.7 | 110.1 | 115.6 |
| 119.6 | 110.7 | 124.6 | 121.8 | 119.2 | 120.3 | 117.2 | 111.7 | 112.6 | 110.4 | 112.8 | 111.0 | 116.0 |
| 117.8 | 110.4 | 124.1 | 121.7 | 120.1 | 119.8 | 117.3 | 111.0 | 112.3 | 110.3 | 112.2 | 112.0 | 116.0 |
| 117.0 | 110.3 | 122.7 | 121.5 | 120.4 | 118.8 | 118.5 | 110.7 | 111.0 | 110.2 | 112.3 | 113.1 | 116.2 |
| 116.2 | 110.3 | 124.2 | 122.0 | 119.6 | 119.6 | 118.0 | 111.7 | 110.1 | 110.5 | 112.4 | 113.5 | 116.3 |
| 115.5 | 111.7 | 124.8 | 121.4 | 119.1 | 119.9 | 117.5 | 112.0 | 110.3 | 110.8 | 112.0 | 114.0 | 116.3 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 524.6 | 514.8 | 519.9 | 521.1 | 509.4 | 513.6 | 514.3 | 506.1 | 512.5 | 521.3 | 525.0 | 520.6 | 534.5 |
| 520.8 | 511.2 | 523.7 | 521.5 | 507.6 | 510.5 | 516.4 | 507.3 | 514.8 | 522.5 | 528.6 | 519.7 | 533.7 |
| 527.0 | 509.5 | 527.0 | 521.3 | 508.4 | 510.7 | 516.4 | 507.3 | 514.9 | 522.5 | 529.4 | 519.1 | 530.5 |
| 528.7 | 508.7 | 527.4 | 518.1 | 508.4 | 513.3 | 515.2 | 508.8 | 514.4 | 522.2 | 528.0 | 519.4 | 532.2 |
| 517.5 | 512.7 | 527.5 | 514.4 | 508.3 | 514.2 | 512.3 | 507.3 | 514.2 | 523.8 | 530.0 | 520.3 | 531.0 |
| 516.6 | 511.3 | 527.7 | 514.5 | 511.1 | 515.9 | 510.0 | 507.8 | 514.6 | 524.8 | 532.1 | 523.0 | 532.8 |
| 519.2 | 509.5 | 528.0 | 515.0 | 510.7 | 516.2 | 508.7 | 507.8 | 515.6 | 525.5 | 533.8 | 527.0 | 536.3 |
| 519.1 | 510.1 | 529.7 | 514.3 | 510.4 | 516.4 | 507.5 | 510.3 | 516.5 | 525.3 | 524.9 | 528.8 | 533.9 |
| 520.2 | 513.8 | 528.6 | 511.5 | 511.6 | 515.0 | 509.7 | 511.2 | 519.5 | 525.6 | 532.0 | 533.2 | 532.3 |
| 521.7 | 513.7 | 523.9 | 511.4 | 513.3 | 513.2 | 510.2 | 509.8 | 522.0 | 525.9 | 530.4 | 533.7 | 532.9 |
| 519.7 | 515.6 | 524.8 | 511.8 | 512.4 | 513.2 | 509.4 | 508.3 | 519.7 | 526.0 | 526.6 | 536.3 | 531.7 |
| 518.6 | 517.9 | 526.0 | 510.5 | 513.0 | 514.0 | 509.3 | 512.6 | 520.2 | 526.1 | 524.6 | 536.1 | 531.9 |
| 66.4 | 66.4 | 66.5 | 66.5 | 66.0 | 66.2 | 66.8 | 67.2 | 67.6 | 68.2 | 68.6 | 69.0 | 69.4 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 60.8 | 55.1 | 54.3 | 59.4 | 61.0 | 60.2 | 58.9 | 59.3 | 59.7 | 61.7 | 61.2 | 61.9 | 62.3 |
| 59.5 | 55.1 | 55.3 | 59.4 | 60.6 | 60.2 | 58.9 | 59.3 | 59.7 | 61.9 | 61.5 | 61.9 | 62.3 |
| 57.8 | 55.7 | 55.3 | 50.0 | 60.6 | 60.2 | 58.9 | 60.3 | 60.7 | 61.0 | 61.5 | 61.9 | 62.3 |
| 57.8 | 58.3 | 56.3 | 59.7 | 60.6 | 60.9 | 58.9 | 60.3 | 60.7 | 60.7 | 61.8 | 61.4 | 62.1 |
| 57.2 | 59.6 | 57.2 | 59.7 | 60.4 | 60.0 | 58.9 | 59.9 | 60.7 | 61.3 | 61.9 | 61.4 | 62.4 |
| 57.2 | 58.9 | 57.2 | 59.7 | 60.7 | 60.0 | 58.9 | 60.9 | 60.7 | 61.3 | 62.5 | 61.7 | 62.4 |
| 57.2 | 58.9 | 57.9 | 60.5 | 60.5 | 59.6 | 59.7 | 60.9 | 60.7 | 61.8 | 62.5 | 61.7 | 62.4 |
| 58.9 | 56.6 | 58.6 | 60.9 | 60.5 | 58.6 | 59.7 | 60.7 | 60.7 | 61.8 | 62.9 | 61.7 | 61.4 |
| 58.9 | 56.1 | 58.6 | 60.9 | 60.7 | 60.0 | 59.5 | 60.7 | 62.3 | 61.6 | 62.9 | 62.3 | 61.4 |
| 58.9 | 55.1 | 58.5 | 61.6 | 60.8 | 58.9 | 59.5 | 59.7 | 62.3 | 61.6 | 62.6 | 62.3 | 61.4 |
| 57.9 | 55.1 | 59.1 | 61.6 | 60.3 | 58.9 | 59.5 | 59.7 | 61.7 | 61.2 | 62.6 | 62.3 | 61.4 |
| 57.1 | 55.1 | 59.1 | 61.6 | 60.2 | 58.9 | 59.3 | 59.7 | 61.7 | 61.2 | 61.9 | 62.3 | 61.4 |
| 66.6 | 66.6 | 66.8 | 66.2 | 66.2 | 66.3 | 66.6 | 67.0 | 67.6 | 68.2 | 68.4 | 68.5 | 68.7 ^a |

^a At 31^d 10^h Thermometer of H. F. 69^o.8; of V. F. 69^o.4.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32 ^o . | Thermometers. | | Wind. | | Weather. |
|----------------------|--------------------------------|---------------|------|------------|-------------|---|
| | | Dry. | Wet. | Direction. | Force. | |
| D. H. M. | In. | ° | ° | — | Calm. | Densely clouded; cir.-cum. and haze. |
| 30 22 0 | 29.576 | 61.8 | 61.2 | — | Calm. | Densely clouded; cir.-cum. and haze. |
| 23 0 | 29.581 | 61.6 | 61.0 | — | Calm. | Clouded; strat. and cir.-cum. |
| 31 0 0 | 29.592 | 61.6 | 61.0 | — | Calm. | Overcast; cir. and cir.-strat., detached strat.; fair. |
| 1 0 | 29.616 | 63.4 | 62.2 | — | Calm. | Generally overcast; cir. and cir.-cum.; fair. |
| 2 0 | 29.614 | 64.6 | 63.0 | — | Calm. | Clouded; cir.-cum. and cir.-strat. dispersed; fair. |
| 3 0 | 29.618 | 65.8 | 63.0 | — | Calm. | Densely overcast; cir.-cum. and cum.-strat.; fair. |
| 4 0 | 29.622 | 70.2 | 66.9 | S. by E. | Very light. | Densely overcast; cir.-cum. and cum.-strat.; fair. |
| 5 0 | 29.629 | 69.2 | 66.8 | S. by E. | Very light. | Densely overcast; cir.-cum. and cum.-strat. and haze. |
| 6 0 | 29.629 | 70.2 | 66.4 | — | Calm. | Overcast with cir.-cum. and cum.-strat.; a few clear spaces. |
| 7 0 | 29.627 | 71.6 | 67.4 | S. | Very light. | Generally overcast with light cir.-cum.; clear spaces; fair. |
| 8 0 | 29.627 | 71.8 | 67.2 | S. | Very light. | Generally overcast with light detached cir.-cum.; clear spaces. |
| 9 0 | 29.614 | 73.8 | 68.9 | S. by E. | Very light. | Generally overcast with light detached cir.-cum.; clear spaces. |

| September 18th and 19th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | |
|--------------------------|----|---|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 115.6 | 116.8 | 117.2 | 118.6 | 119.4 | 120.0 | 120.0 | 117.0 | 117.5 | 118.9 | 119.5 |
| 5 | 0 | 116.0 | 117.0 | 117.2 | 118.0 | 118.6 | 119.2 | 119.8 | 117.1 | 118.0 | 118.3 | 120.0 |
| 10 | 0 | 115.9 | 117.2 | 116.9 | 117.5 | 119.0 | 119.1 | 119.3 | 117.9 | 118.2 | 118.0 | 119.7 |
| 15 | 0 | 116.1 | 117.4 | 117.3 | 117.0 | 119.5 | 119.2 | 119.1 | 118.2 | 117.8 | 118.0 | 119.6 |
| 20 | 0 | 116.2 | 117.6 | 117.4 | 117.0 | 121.0 | 120.1 | 118.5 | 119.0 | 118.0 | 119.3 | 119.3 |
| 25 | 0 | 116.4 | 117.8 | 117.5 | 117.0 | 120.3 | 121.0 | 119.5 | 117.5 | 117.9 | 120.3 | 119.3 |
| 30 | 0 | 116.5 | 117.7 | 117.0 | 117.0 | 120.8 | 120.0 | 119.8 | 117.7 | 117.1 | 120.7 | 119.7 |
| 35 | 0 | 116.5 | 117.5 | 118.3 | 117.1 | 119.8 | 120.4 | 119.0 | 116.0 | 117.4 | 120.9 | 120.0 |
| 40 | 0 | 116.6 | 117.5 | 118.7 | 118.2 | 119.9 | 120.7 | 118.7 | 114.6 | 117.8 | 120.3 | 120.0 |
| 45 | 0 | 116.6 | 117.6 | 118.2 | 118.8 | 121.0 | 121.0 | 118.2 | 113.8 | 118.6 | 119.8 | 120.7 |
| 50 | 0 | 116.7 | 117.4 | 118.0 | 119.0 | 120.5 | 120.7 | 117.9 | 114.3 | 118.9 | 119.1 | 120.8 |
| 55 | 0 | 116.7 | 117.4 | 117.5 | 120.2 | 120.8 | 120.2 | 117.5 | 116.1 | 119.3 | 119.2 | 120.9 |
| | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 524.8 | 529.3 | 528.4 | 526.5 | 520.0 | 520.0 | 524.0 | 533.0 | 529.5 | 528.0 | 528.1 |
| 7 | 0 | 525.8 | 528.3 | 528.5 | 526.8 | 518.5 | 517.7 | 523.0 | 532.7 | 528.9 | 528.2 | 527.1 |
| 12 | 0 | 528.7 | 525.7 | 527.9 | 526.4 | 520.0 | 516.8 | 522.1 | 532.8 | 528.7 | 528.3 | 527.4 |
| 17 | 0 | 528.8 | 525.6 | 528.0 | 526.7 | 521.8 | 516.5 | 521.4 | 531.4 | 528.8 | 526.5 | 527.5 |
| 22 | 0 | 529.4 | 526.0 | 527.8 | 528.0 | 521.0 | 516.3 | 520.8 | 530.3 | 528.8 | 526.0 | 527.8 |
| 27 | 0 | 531.1 | 528.1 | 528.6 | 528.0 | 520.6 | 517.8 | 520.9 | 529.8 | 527.9 | 526.7 | 528.0 |
| 32 | 0 | 530.7 | 528.9 | 526.2 | 527.7 | 522.0 | 517.0 | 522.9 | 528.9 | 527.6 | 527.0 | 528.3 |
| 37 | 0 | 530.9 | 529.1 | 526.2 | 526.5 | 521.6 | 517.5 | 523.1 | 532.4 | 528.2 | 527.0 | 528.1 |
| 42 | 0 | 529.5 | 529.6 | 526.0 | 523.4 | 521.0 | 518.8 | 522.5 | 533.5 | 528.1 | 527.8 | 528.3 |
| 47 | 0 | 530.1 | 530.2 | 526.4 | 520.7 | 522.0 | 522.0 | 522.9 | 532.3 | 529.4 | 527.7 | 528.9 |
| 52 | 0 | 530.3 | 528.8 | 525.4 | 522.5 | 522.0 | 523.5 | 523.1 | 530.8 | 528.9 | 526.9 | 529.0 |
| 57 | 0 | 529.5 | 528.2 | 525.6 | 521.0 | 521.0 | 524.0 | 523.3 | 530.2 | 528.8 | 526.9 | 529.3 |
| Thermometer | | 72.4 | 72.8 | 72.8 | 72.8 | 72.2 | 71.9 | 71.5 | 71.3 | 70.8 | 70.4 | 70.0 |
| | | One Scale Division = .000062 part of the V. F. | | | | | VERTICAL FORCE. | | | | | |
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 51.3 | 49.8 | 49.5 | 46.9 | 47.5 | 48.0 | 46.5 | 48.5 | 44.8 | 49.2 | 51.3 |
| 8 | 0 | 51.3 | 49.8 | 49.5 | 46.9 | 47.5 | 48.0 | 46.5 | 48.5 | 44.8 | 50.6 | 50.2 |
| 13 | 0 | 51.3 | 49.8 | 49.3 | 47.6 | 47.5 | 48.0 | 46.1 | 48.5 | 44.9 | 50.1 | 50.2 |
| 18 | 0 | 51.4 | 49.8 | 49.5 | 47.6 | 47.5 | 48.0 | 46.2 | 48.2 | 45.8 | 50.1 | 50.2 |
| 23 | 0 | 51.4 | 49.7 | 49.5 | 47.6 | 47.5 | 48.2 | 46.2 | 48.2 | 45.8 | 50.1 | 50.2 |
| 28 | 0 | 50.7 | 50.1 | 49.0 | 47.6 | 47.9 | 48.7 | 46.2 | 48.2 | 49.0 | 50.1 | 50.2 |
| 33 | 0 | 50.7 | 50.1 | 47.3 | 47.6 | 47.8 | 48.7 | 48.0 | 47.9 | 49.0 | 50.1 | 50.0 |
| 38 | 0 | 50.7 | 50.2 | 47.3 | 47.6 | 47.8 | 47.9 | 48.1 | 47.4 | 49.8 | 50.1 | 50.0 |
| 43 | 0 | 50.3 | 50.2 | 46.9 | 46.3 | 47.8 | 47.7 | 48.1 | 46.1 | 49.8 | 50.8 | 50.0 |
| 48 | 0 | 50.3 | 49.7 | 46.9 | 46.7 | 48.1 | 47.7 | 48.1 | 45.5 | 49.2 | 51.1 | 50.0 |
| 53 | 0 | 50.3 | 49.5 | 46.9 | 46.7 | 48.1 | 47.7 | 48.5 | 44.8 | 49.2 | 51.1 | 50.0 |
| 58 | 0 | 50.3 | 49.5 | 46.9 | 46.7 | 48.1 | 46.5 | 48.5 | 44.6 | 49.2 | 51.1 | 50.0 |
| Thermometer | | 71.4 | 71.5 | 71.8 | 72.5 | 72.5 | 72.1 | 72.5 | 72.9 | 72.1 | 71.3 | 70.5 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|--------------------------------------|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 18 | 10 | 0 | 29.631 | 71.1 | 62.4 | S. S. W. | Very light. | Clear and unclouded. |
| | 11 | 0 | 29.619 | 71.2 | 64.4 | — | Calm. | Unclouded; haze round horizon. |
| | 12 | 0 | 29.614 | 62.0 | 58.4 | — | Calm. | Unclouded haze round horizon. |
| | 13 | 0 | 29.620 | 58.2 | 55.8 | — | Calm. | Haze round horizon; otherwise clear. |
| | 14 | 0 | 29.620 | 56.2 | 54.0 | — | Calm. | Unclouded; hazy. |
| | 15 | 0 | 29.617 | 58.2 | 55.0 | — | Calm. | Clear and unclouded. |
| | 16 | 0 | 29.619 | 55.8 | 53.0 | — | Calm. | Unclouded; hazy. |
| | 17 | 0 | 29.622 | 53.5 | 51.6 | — | Calm. | Unclouded; haze round horizon. |
| | 18 | 0 | 29.618 | 51.9 | 50.4 | — | Calm. | Unclouded; haze round horizon. |
| | 19 | 0 | 29.616 | 50.2 | 49.3 | — | Calm. | Clear and unclouded. |
| | 20 | 0 | 29.619 | 48.2 | 47.2 | — | Calm. | Clear and unclouded. |
| | 21 | 0 | 29.620 | 47.6 | 46.8 | — | Calm. | Clear and unclouded. |

MAGNETICAL OBSERVATIONS.

September 18th and 19th.

| DECLINATION. | | | | | | | | | | | | |
|---|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Angular Value of one Scale Division = 0'·721. | | | | | | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 121·0 | 121·7 | 121·7 | 117·0 | 119·8 | 121·1 | 120·0 | 119·8 | 118·0 | 115·2 | 112·5 | 112·0 | 113·8 |
| 120·6 | 121·3 | 121·2 | 116·3 | 120·1 | 121·2 | 122·0 | 119·2 | 118·0 | 114·5 | 112·6 | 112·0 | 114·0 |
| 120·8 | 121·1 | 122·0 | 116·0 | 120·4 | 121·1 | 121·9 | 118·8 | 118·0 | 114·3 | 112·8 | 112·1 | 114·1 |
| 121·6 | 121·0 | 120·9 | 116·1 | 120·8 | 121·5 | 122·0 | 119·0 | 117·3 | 114·1 | 112·6 | 112·2 | 114·1 |
| 121·7 | 120·4 | 119·8 | 116·8 | 120·3 | 121·2 | 121·7 | 119·0 | 116·9 | 114·1 | 112·4 | 112·2 | 114·3 |
| 122·9 | 120·3 | 119·0 | 117·2 | 120·2 | 121·0 | 121·9 | 118·8 | 116·5 | 114·1 | 112·8 | 112·4 | 114·6 |
| 123·5 | 120·8 | 118·4 | 117·0 | 120·2 | 121·3 | 121·2 | 118·3 | 116·1 | 113·7 | 112·3 | 112·5 | 114·8 |
| 123·2 | 121·7 | 118·0 | 116·5 | 119·9 | 122·0 | 121·8 | 118·4 | 116·2 | 113·3 | 112·0 | 112·5 | 114·9 |
| 122·7 | 122·0 | 117·8 | 117·3 | 120·5 | 121·8 | 121·2 | 118·0 | 116·1 | 113·2 | 112·0 | 112·6 | 115·0 |
| 122·0 | 122·4 | 117·5 | 117·9 | 120·3 | 121·5 | 120·7 | 118·0 | 115·5 | 113·0 | 112·1 | 112·9 | 115·1 |
| 121·9 | 122·4 | 117·0 | 118·9 | 120·4 | 121·5 | 120·0 | 117·9 | 115·3 | 112·9 | 112·2 | 113·0 | 115·4 |
| 121·8 | 122·0 | 117·0 | 119·8 | 120·7 | 121·3 | 120·0 | 118·0 | 115·0 | 112·7 | 112·2 | 113·0 | 115·5 |

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Change in the Magnetic moment of the Bar for 1° Fah. = ·00027. | | | | | | | | | | | | |
| 529·9 | 531·6 | 531·0 | 525·7 | 528·8 | 523·2 | 520·3 | 518·3 | 520·5 | 524·4 | 530·3 | 535·3 | 522·8 |
| 530·0 | 532·1 | 529·6 | 525·9 | 527·8 | 522·6 | 520·4 | 518·7 | 520·5 | 526·1 | 529·0 | 533·5 | 521·7 |
| 529·9 | 532·2 | 528·3 | 526·4 | 527·8 | 520·0 | 514·6 | 517·5 | 521·4 | 526·0 | 528·8 | 532·9 | 526·3 |
| 530·0 | 532·4 | 527·8 | 527·1 | 527·2 | 519·4 | 521·0 | 518·0 | 522·3 | 526·0 | 531·0 | 532·3 | 526·5 |
| 530·0 | 532·4 | 529·0 | 527·8 | 527·8 | 518·5 | 521·0 | 517·8 | 522·2 | 526·7 | 530·9 | 532·4 | 528·9 |
| 529·9 | 531·7 | 528·2 | 529·6 | 528·1 | 518·8 | 520·7 | 518·0 | 523·0 | 527·0 | 531·2 | 533·3 | 528·8 |
| 529·1 | 532·1 | 525·9 | 529·6 | 527·6 | 519·5 | 520·4 | 518·5 | 522·1 | 528·7 | 532·0 | 530·8 | 529·0 |
| 529·0 | 531·4 | 524·8 | 529·5 | 527·0 | 520·7 | 520·4 | 518·9 | 522·6 | 527·9 | 530·4 | 525·0 | 529·3 |
| 530·7 | 531·3 | 525·6 | 528·3 | 526·4 | 521·6 | 520·4 | 519·5 | 523·8 | 528·0 | 528·1 | 520·6 | 530·0 |
| 530·6 | 530·7 | 526·2 | 527·7 | 526·0 | 520·6 | 519·6 | 519·5 | 524·6 | 528·5 | 527·9 | 518·1 | 530·9 |
| 530·8 | 531·0 | 525·4 | 529·2 | 523·8 | 520·6 | 518·8 | 519·5 | 525·2 | 529·5 | 531·4 | 519·9 | 530·6 |
| 530·8 | 531·2 | 524·9 | 530·0 | 524·3 | 520·8 | 518·5 | 520·0 | 524·6 | 530·0 | 534·5 | 518·5 | 529·9 |
| 69·2 | 69·0 | 68·0 | 67·5 | 67·3 | 67·6 | 68·0 | 68·5 | 69·0 | 69·5 | 70·2 | 71·0 | 71·8 ^a |

| VERTICAL FORCE. | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| Change in the Magnetic moment of the Bar for 1° Fah. = ·00007. | | | | | | | | | | | | |
| 50·9 | 51·3 | 53·0 | 52·9 | 51·6 | 51·5 | 52·2 | 51·3 | 50·7 | 50·7 | 51·5 | 52·9 | 50·9 |
| 50·9 | 51·1 | 53·0 | 52·0 | 51·6 | 51·2 | 52·2 | 51·2 | 50·7 | 50·7 | 51·5 | 52·6 | 50·9 |
| 50·8 | 51·3 | 52·3 | 51·9 | 52·1 | 51·2 | 52·2 | 51·2 | 50·7 | 50·7 | 51·5 | 52·4 | 50·9 |
| 50·8 | 52·5 | 52·3 | 51·9 | 52·4 | 51·2 | 51·6 | 51·2 | 50·7 | 50·7 | 52·5 | 52·3 | 50·9 |
| 50·8 | 52·5 | 52·3 | 51·9 | 52·7 | 51·2 | 51·6 | 51·2 | 50·7 | 50·4 | 52·5 | 52·3 | 51·4 |
| 50·8 | 52·2 | 52·3 | 51·8 | 52·7 | 51·8 | 51·6 | 51·2 | 50·7 | 50·4 | 52·5 | 52·3 | 51·4 |
| 50·6 | 52·0 | 52·3 | 51·8 | 52·7 | 52·6 | 51·6 | 51·2 | 50·7 | 50·6 | 52·5 | 51·9 | 51·4 |
| 50·6 | 52·0 | 52·3 | 51·6 | 52·5 | 52·2 | 51·6 | 51·2 | 50·7 | 50·6 | 51·9 | 51·0 | 51·0 |
| 52·3 | 52·0 | 52·3 | 51·6 | 52·5 | 53·0 | 51·6 | 51·2 | 50·7 | 50·6 | 51·8 | 50·3 | 51·0 |
| 52·3 | 52·0 | 52·3 | 51·6 | 53·0 | 52·4 | 51·6 | 50·7 | 50·7 | 50·9 | 51·7 | 50·3 | 51·1 |
| 52·1 | 52·0 | 52·3 | 51·6 | 52·5 | 52·4 | 51·6 | 50·6 | 50·7 | 50·9 | 52·1 | 50·3 | 51·1 |
| 52·1 | 53·0 | 53·7 | 51·6 | 51·9 | 52·4 | 51·6 | 50·6 | 50·7 | 51·5 | 52·9 | 50·7 | 50·8 |
| 70·1 | 69·4 | 69·0 | 68·3 | 67·9 | 68·0 | 68·1 | 68·3 | 68·9 | 69·5 | 69·5 | 70·0 | 70·7 ^a |

^a At 19^d 10^h Thermometer of H. F. 72°·8; of V. F. 71°·3.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|-----------|-------------|--|
| | | | | Dry. | Wet. | Direction | Force. | |
| D. | H. | M. | In. | ° | ° | — | Calm. | Clear and unclouded. |
| 15 | 22 | 0 | 29·625 | 47·0 | 46·2 | — | Calm. | Unclouded; slight fog. |
| | 23 | 0 | 29·628 | 46·6 | 45·8 | — | Calm. | Unclouded, but hazy; very dense round horizon. |
| 19 | 0 | 0 | 29·650 | 45·2 | 44·6 | N. | Very light. | Unclouded, but hazy; dense in horizon. |
| | 1 | 0 | 29·655 | 49·2 | 48·6 | — | Calm. | Unclouded, but hazy. |
| | 2 | 0 | 29·646 | 57·8 | 54·8 | — | Calm. | Unclouded, but hazy. |
| | 3 | 0 | 29·637 | 61·4 | 58·0 | — | Calm. | Unclouded, but hazy. |
| | 4 | 0 | 29·620 | 65·6 | 61·2 | S. S. W. | Light. | Unclouded; hazy. |
| | 5 | 0 | 29·609 | 69·0 | 64·2 | S. S. W. | Light. | Unclouded; hazy. |
| | 6 | 0 | 29·588 | 71·6 | 65·8 | S. S. W. | Light. | Unclouded; hazy. |
| | 7 | 0 | 29·569 | 75·1 | 63·4 | S. by W. | Moderate. | Generally clear; light cir.-cum. rising in W. and N. W.; haze round horizon. |
| | 8 | 0 | 29·546 | 77·2 | 69·2 | S. by W. | Moderate. | Light cir.-cum. and haze round horizon, light haze in zenith; fair. |
| | 9 | 0 | 29·544 | 76·7 | 70·4 | S. by W. | Moderate. | Cir.-cum. in N. W. horizon, haze round horizon; light haze in zenith; fair. |

| October 23rd and 24th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|------------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 116.0 | 116.8 | 122.2 | 122.7 | 122.9 | 118.2 | 118.8 | 120.2 | 117.9 | 109.3 | 116.2 |
| 5 | 0 | | 116.2 | 116.8 | 124.8 | 120.8 | 123.5 | 118.9 | 118.1 | 119.9 | 115.0 | 109.7 | 116.9 |
| 10 | 0 | | 116.8 | 116.1 | 127.1 | 119.6 | 121.6 | 119.0 | 118.2 | 119.7 | 114.3 | 110.0 | 117.2 |
| 15 | 0 | | 116.7 | 116.2 | 128.7 | 119.3 | 121.4 | 118.3 | 117.9 | 119.6 | 115.0 | 110.0 | 117.2 |
| 20 | 0 | | 116.2 | 117.0 | 125.6 | 119.1 | 122.0 | 118.1 | 119.5 | 119.0 | 115.5 | 111.1 | 118.0 |
| 25 | 0 | | 116.2 | 116.9 | 125.7 | 120.3 | 121.5 | 118.5 | 120.0 | 118.1 | 116.0 | 112.7 | 118.2 |
| 30 | 0 | | 116.0 | 116.4 | 124.0 | 119.7 | 121.6 | 118.8 | 119.0 | 117.1 | 113.2 | 113.0 | 118.0 |
| 35 | 0 | | 116.0 | 116.4 | 125.6 | 119.8 | 120.0 | 119.0 | 119.2 | 117.2 | 111.0 | 114.1 | 118.0 |
| 40 | 0 | | 115.5 | 116.3 | 128.0 | 119.7 | 118.2 | 118.5 | 119.9 | 117.8 | 110.9 | 115.0 | 118.8 |
| 45 | 0 | | 115.2 | 117.0 | 126.6 | 119.3 | 118.0 | 118.0 | 120.2 | 118.2 | 112.1 | 115.2 | 119.5 |
| 50 | 0 | | 115.8 | 117.8 | 126.0 | 120.0 | 118.0 | 118.4 | 120.3 | 117.8 | 113.1 | 115.7 | 119.8 |
| 55 | 0 | | 116.0 | 121.4 | 123.7 | 121.9 | 118.0 | 118.8 | 120.4 | 118.0 | 111.3 | 115.8 | 119.8 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 550.9 | 551.0 | 546.0 | 550.9 | 545.0 | 541.8 | 548.0 | 547.2 | 550.6 | 549.3 | 554.5 |
| 7 | 0 | 550.4 | 549.8 | 546.0 | 550.7 | 546.7 | 541.3 | 547.2 | 546.9 | 551.4 | 549.5 | 554.0 |
| 12 | 0 | 552.5 | 547.7 | 547.6 | 548.7 | 546.8 | 543.7 | 546.7 | 547.0 | 551.3 | 550.7 | 554.5 |
| 17 | 0 | 552.0 | 545.6 | 555.5 | 546.3 | 547.2 | 544.0 | 545.9 | 548.5 | 551.3 | 551.6 | 554.5 |
| 22 | 0 | 552.3 | 547.1 | 554.1 | 546.3 | 547.9 | 543.9 | 545.3 | 548.6 | 551.7 | 552.4 | 554.1 |
| 27 | 0 | 552.0 | 546.5 | 553.0 | 549.1 | 548.2 | 544.8 | 547.7 | 549.1 | 551.3 | 552.4 | 555.0 |
| 32 | 0 | 552.0 | 546.0 | 550.1 | 542.2 | 546.8 | 546.0 | 548.9 | 549.1 | 551.4 | 552.7 | 555.5 |
| 37 | 0 | 553.0 | 546.5 | 546.4 | 541.9 | 546.1 | 546.9 | 548.1 | 548.3 | 550.7 | 553.9 | 556.0 |
| 42 | 0 | 552.5 | 546.8 | 549.0 | 542.1 | 543.8 | 546.8 | 548.0 | 549.0 | 550.9 | 554.0 | 555.4 |
| 47 | 0 | 552.0 | 547.0 | 547.9 | 542.1 | 544.1 | 546.9 | 548.1 | 551.9 | 548.9 | 554.2 | 555.0 |
| 52 | 0 | 552.0 | 544.8 | 550.3 | 543.1 | 542.2 | 545.5 | 547.8 | 552.2 | 548.8 | 554.8 | 555.0 |
| 57 | 0 | 550.3 | 546.4 | 550.6 | 544.2 | 542.1 | 546.0 | 547.6 | 551.3 | 550.8 | 554.7 | 555.0 |

| Thermometer | | 55.3 | 56.0 | 56.4 | 56.5 | 56.3 | 56.1 | 56.2 | 56.5 | 56.5 | 56.0 | 55.0 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|----|----|---|------|------|------|------|-----------------|------|------|------|------|------|
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 84.5 | 84.4 | 84.2 | 83.1 | 83.2 | 82.7 | 81.7 | 80.3 | 80.0 | 78.9 | 80.1 |
| 8 | 0 | 84.5 | 84.4 | 84.2 | 82.7 | 83.1 | 82.9 | 81.5 | 80.3 | 80.0 | 78.7 | 80.1 |
| 13 | 0 | 85.6 | 84.4 | 84.2 | 83.0 | 82.9 | 82.9 | 81.5 | 80.3 | 79.6 | 78.7 | 80.7 |
| 18 | 0 | 85.6 | 84.8 | 83.8 | 82.7 | 82.2 | 83.0 | 81.5 | 81.1 | 79.6 | 78.7 | 80.7 |
| 23 | 0 | 85.6 | 84.8 | 82.8 | 82.4 | 82.2 | 83.0 | 81.5 | 81.1 | 79.6 | 78.7 | 80.7 |
| 28 | 0 | 85.6 | 84.6 | 82.8 | 82.1 | 82.2 | 83.0 | 81.6 | 80.6 | 79.6 | 78.7 | 80.7 |
| 33 | 0 | 85.6 | 84.6 | 82.3 | 82.1 | 82.2 | 83.0 | 80.7 | 80.6 | 76.6 | 78.4 | 80.7 |
| 38 | 0 | 85.6 | 84.6 | 81.7 | 82.1 | 82.1 | 82.6 | 80.7 | 80.6 | 79.6 | 78.4 | 81.0 |
| 43 | 0 | 85.1 | 84.6 | 81.7 | 83.2 | 82.1 | 82.5 | 80.7 | 80.6 | 79.6 | 78.4 | 81.0 |
| 48 | 0 | 85.1 | 84.2 | 81.9 | 83.2 | 82.1 | 82.3 | 80.7 | 80.5 | 79.6 | 79.4 | 81.0 |
| 53 | 0 | 85.1 | 84.2 | 82.2 | 83.2 | 82.1 | 82.3 | 80.3 | 80.5 | 78.9 | 79.4 | 79.8 |
| 58 | 0 | 84.4 | 84.2 | 82.2 | 83.2 | 82.7 | 81.7 | 80.3 | 80.0 | 78.9 | 79.4 | 79.8 |

| Thermometer | | 54.5 | 54.9 | 55.3 | 56.0 | 56.1 | 59.0 | 56.2 | 56.3 | 56.4 | 56.1 | 55.6 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 23 | 10 | 0 | 29.896 | 51.8 | 48.4 | — | Calm. | Light cir. in W. and N., remainder clear; 0.2 clouded. |
| | 11 | 0 | 29.905 | 48.2 | 45.4 | — | Calm. | Clear. |
| | 12 | 0 | 29.895 | 44.0 | 42.6 | — | Calm. | Clear. |
| | 13 | 0 | 29.897 | 45.2 | 43.2 | — | Calm. | Clear. |
| | 14 | 0 | 29.887 | 47.4 | 45.5 | — | Calm. | Clear. |
| | 15 | 0 | 29.871 | 46.8 | 45.3 | — | Calm. | Clear. |
| | 16 | 0 | 29.867 | 44.2 | 43.2 | — | Calm. | Clear. |
| | 17 | 0 | 29.864 | 41.4 | 41.0 | — | Calm. | Clear. |
| | 18 | 0 | 29.870 | 38.2 | 37.8 | — | Calm. | Clear; slight fog on the ground. |
| | 19 | 0 | 29.869 | 37.3 | 37.0 | — | Calm. | Clear. |
| | 20 | 0 | 29.885 | 35.6 | 35.2 | — | Calm. | Unclouded; hazy. |
| | 21 | 0 | 29.887 | 36.0 | 33.6 | — | Calm. | Light cir. and cir.-strat. in N.N.W. and W.; hazy. |

MAGNETICAL OBSERVATIONS.

October 23th and 24th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 119.5 | 117.7 | 118.1 | 118.8 | 120.2 | 118.5 | 115.8 | 115.0 | 111.8 | 110.2 | 112.1 | 114.6 | 117.0 |
| 119.8 | 117.8 | 118.6 | 119.3 | 119.5 | 118.5 | 115.6 | 114.1 | 111.7 | 110.2 | 112.1 | 114.8 | 117.0 |
| 119.7 | 117.5 | 118.6 | 120.0 | 119.0 | 118.0 | 115.5 | 113.8 | 111.2 | 110.3 | 112.5 | 115.0 | 117.2 |
| 119.7 | 117.5 | 118.8 | 120.1 | 118.4 | 117.1 | 115.2 | 113.2 | 111.2 | 110.7 | 112.8 | 115.1 | 117.3 |
| 119.0 | 117.5 | 118.8 | 120.4 | 117.7 | 117.3 | 115.2 | 113.1 | 111.1 | 110.7 | 113.0 | 115.2 | 117.4 |
| 118.8 | 117.8 | 118.4 | 120.1 | 117.8 | 117.5 | 115.9 | 113.0 | 111.0 | 110.9 | 113.2 | 115.5 | 117.5 |
| 118.2 | 117.4 | 118.5 | 120.1 | 118.0 | 117.4 | 115.8 | 113.0 | 110.7 | 111.0 | 113.5 | 115.8 | 117.6 |
| 118.3 | 117.7 | 119.0 | 120.5 | 118.0 | 117.7 | 115.7 | 112.8 | 110.3 | 111.2 | 113.5 | 116.0 | 117.8 |
| 118.4 | 117.7 | 119.0 | 121.0 | 118.1 | 117.5 | 115.5 | 112.3 | 110.2 | 111.2 | 113.9 | 116.1 | 117.8 |
| 117.7 | 117.9 | 118.9 | 120.7 | 117.8 | 117.9 | 115.5 | 112.4 | 110.8 | 111.7 | 114.0 | 116.4 | 118.0 |
| 117.2 | 118.0 | 118.6 | 120.4 | 118.4 | 117.2 | 115.2 | 112.0 | 110.0 | 111.8 | 114.2 | 116.7 | 118.0 |
| 117.7 | 118.1 | 119.0 | 120.3 | 118.2 | 116.3 | 115.1 | 112.0 | 110.1 | 111.9 | 114.4 | 116.9 | 118.1 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 555.0 | 554.7 | 550.0 | 556.0 | 552.3 | 545.8 | 544.6 | 544.8 | 541.8 | 544.2 | 545.7 | 549.8 | 551.3 |
| 555.4 | 555.0 | 555.8 | 556.0 | 549.8 | 545.6 | 544.4 | 545.9 | 545.3 | 544.2 | 546.5 | 549.4 | 551.8 |
| 555.3 | 555.1 | 556.0 | 556.1 | 550.1 | 546.1 | 544.5 | 545.9 | 545.2 | 544.2 | 547.1 | 549.7 | 551.8 |
| 555.2 | 555.6 | 556.2 | 557.0 | 550.0 | 544.5 | 544.8 | 544.5 | 543.9 | 543.9 | 547.9 | 550.5 | 552.4 |
| 554.8 | 555.1 | 556.5 | 557.0 | 549.5 | 544.8 | 544.9 | 544.5 | 545.0 | 543.6 | 547.9 | 550.5 | 552.7 |
| 554.8 | 555.5 | 556.6 | 556.0 | 549.2 | 544.8 | 545.1 | 544.9 | 545.7 | 543.9 | 548.0 | 550.9 | 553.0 |
| 554.5 | 555.8 | 556.0 | 556.0 | 548.9 | 544.6 | 545.9 | 545.4 | 545.0 | 544.0 | 547.9 | 551.0 | 552.7 |
| 555.0 | 555.9 | 556.0 | 555.0 | 548.1 | 544.0 | 545.6 | 545.5 | 545.8 | 544.5 | 548.6 | 550.8 | 552.2 |
| 554.5 | 555.5 | 556.3 | 554.9 | 547.1 | 543.5 | 545.5 | 545.4 | 546.0 | 544.0 | 549.0 | 550.7 | 552.2 |
| 555.0 | 555.8 | 556.1 | 554.0 | 547.1 | 543.8 | 544.7 | 545.3 | 545.0 | 544.9 | 549.0 | 551.0 | 552.1 |
| 554.7 | 556.0 | 556.0 | 554.0 | 547.1 | 542.7 | 545.5 | 545.6 | 544.6 | 545.5 | 549.0 | 551.1 | 552.6 |
| 554.9 | 557.0 | 557.0 | 553.5 | 546.2 | 543.4 | 544.3 | 544.3 | 544.1 | 545.6 | 548.5 | 551.6 | 552.5 |
| 54.6 | 54.6 | 54.3 | 54.0 | 54.0 | 54.2 | 55.2 | 56.0 | 56.8 | 57.0 | 57.5 | 58.0 | 58.6 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 80.8 | 80.4 | 80.2 | 81.6 | 83.7 | 83.5 | 81.3 | 79.5 | 78.4 | 79.2 | 79.8 | 79.1 | 78.2 |
| 80.8 | 80.4 | 80.2 | 81.6 | 83.4 | 83.0 | 81.3 | 79.5 | 78.4 | 79.9 | 79.8 | 79.1 | 78.2 |
| 80.8 | 80.2 | 80.2 | 81.6 | 83.4 | 83.0 | 80.6 | 79.5 | 78.4 | 79.9 | 79.8 | 78.9 | 77.9 |
| 80.8 | 80.2 | 80.5 | 81.6 | 83.4 | 83.0 | 80.7 | 79.3 | 78.4 | 79.8 | 79.8 | 79.1 | 77.9 |
| 80.8 | 80.2 | 80.5 | 81.6 | 83.4 | 83.0 | 80.5 | 79.3 | 78.4 | 80.0 | 79.7 | 79.1 | 77.9 |
| 80.8 | 80.1 | 80.6 | 81.6 | 83.4 | 83.0 | 80.5 | 78.9 | 78.7 | 80.0 | 79.4 | 78.9 | 78.1 |
| 80.8 | 80.1 | 80.6 | 81.6 | 83.4 | 83.0 | 80.5 | 78.9 | 78.7 | 80.0 | 79.4 | 78.9 | 77.9 |
| 80.5 | 80.1 | 80.6 | 82.7 | 83.4 | 81.9 | 80.1 | 78.9 | 79.2 | 80.0 | 79.2 | 78.4 | 77.9 |
| 80.5 | 80.1 | 81.0 | 83.3 | 83.3 | 82.1 | 79.5 | 78.7 | 79.2 | 80.0 | 79.2 | 78.2 | 77.9 |
| 80.8 | 80.1 | 81.4 | 83.3 | 83.5 | 82.1 | 79.5 | 78.4 | 79.2 | 80.2 | 79.4 | 78.2 | 78.2 |
| 80.8 | 80.1 | 81.4 | 83.7 | 83.2 | 81.8 | 79.5 | 78.4 | 79.2 | 80.0 | 79.4 | 78.2 | 77.9 |
| 80.8 | 80.2 | 81.6 | 83.7 | 83.5 | 81.8 | 79.5 | 78.4 | 79.2 | 79.8 | 79.1 | 78.2 | 77.9 |
| 55.5 | 55.5 | 55.6 | 55.1 | 54.3 | 55.1 | 55.3 | 56.1 | 56.3 | 56.5 | 57.0 | 57.7 | 58.3 ^a |

^a At 24^d 10^h the Thermometer of H. F. 59°·0; of V. F. 58°·3.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|------------|-------------|---|
| | | Dry. | Wet. | Direction. | Force. | |
| D. 23 | In. 29.892 | 35.6 | 35.4 | — | Calm. | Light cir. in W.; remainder clear. |
| H. 22 | 29.894 | 36.4 | 36.0 | — | Calm. | Clear. |
| M. 0 | 29.895 | 36.4 | 36.0 | — | Calm. | Hazy round horizon; light cir. in W. |
| 1 | 29.899 | 38.0 | 37.8 | — | Calm. | Light cir. and haze round horizon; zenith clear; fair. |
| 2 | 29.901 | 44.0 | 43.7 | — | Calm. | Light flexuous cir. and cir.-strat. scattered about; generally clear; fair. |
| 3 | 29.900 | 47.2 | 46.0 | E. | Very light. | Generally clear; light cir.-strat. generally diffused; fair. |
| 4 | 29.891 | 49.8 | 47.6 | E. | Very high. | A few light cir.-strat. dispersed round horizon, otherwise clear; fair. |
| 5 | 29.886 | 51.4 | 48.6 | E. | Very light. | A few light cir.-strat. dispersed round horizon, otherwise clear; fair. |
| 6 | 29.876 | 53.9 | 50.2 | E. | Very light. | A few light cir.-strat. dispersed round horizon, otherwise clear; fair. |
| 7 | 29.853 | 53.6 | 51.6 | E. | Very light. | Clear. |
| 8 | 29.834 | 55.9 | 51.3 | E. | Very light. | Clear. |
| 9 | 29.830 | 55.5 | 50.8 | E. by N. | Light. | Clear. |

| November 29th and 30th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | |
|-------------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 114.5 | 117.1 | 117.7 | 118.0 | 119.0 | 118.8 | 119.0 | 118.0 | 118.0 | 117.0 |
| 5 | 0 | | 115.0 | 117.2 | 117.7 | 118.0 | 118.9 | 119.2 | 118.6 | 118.0 | 117.8 | 117.0 |
| 10 | 0 | | 115.6 | 117.1 | 117.6 | 118.2 | 119.4 | 119.6 | 118.4 | 118.2 | 117.5 | 117.0 |
| 15 | 0 | | 115.2 | 117.0 | 117.5 | 118.2 | 119.8 | 119.3 | 118.4 | 118.1 | 117.6 | 117.4 |
| 20 | 0 | | 115.3 | 117.0 | 117.7 | 118.4 | 119.6 | 119.2 | 118.2 | 118.1 | 117.5 | 117.6 |
| 25 | 0 | | 115.3 | 117.0 | 118.1 | 118.2 | 119.5 | 119.0 | 118.2 | 118.2 | 117.2 | 117.4 |
| 30 | 0 | | 116.2 | 117.0 | 117.7 | 118.2 | 119.4 | 118.9 | 118.2 | 118.3 | 117.1 | 117.8 |
| 35 | 0 | | 116.1 | 117.4 | 117.8 | 118.1 | 119.1 | 118.7 | 118.5 | 118.5 | 117.2 | 117.6 |
| 40 | 0 | | 116.2 | 117.4 | 117.9 | 118.2 | 119.2 | 118.3 | 118.4 | 118.3 | 117.3 | 117.2 |
| 45 | 0 | | 116.3 | 117.7 | 117.9 | 118.5 | 119.0 | 118.3 | 118.2 | 118.3 | 117.2 | 117.4 |
| 50 | 0 | | 116.5 | 117.9 | 117.9 | 118.8 | 119.0 | 119.1 | 118.0 | 118.3 | 117.3 | 117.6 |
| 55 | 0 | | 116.5 | 117.8 | 117.8 | 118.6 | 118.8 | 119.1 | 118.0 | 118.1 | 117.3 | 117.8 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 578.6 | 578.6 | 580.3 | 577.5 | 574.8 | 575.6 | 576.1 | 575.0 | 574.0 | 575.0 | 574.4 |
| 7 | 0 | 577.4 | 579.0 | 579.3 | 577.5 | 574.5 | 575.4 | 576.3 | 575.0 | 574.0 | 575.2 | 574.4 |
| 12 | 0 | 579.5 | 578.7 | 579.0 | 577.6 | 572.9 | 575.0 | 575.9 | 575.0 | 574.5 | 575.1 | 575.0 |
| 17 | 0 | 578.0 | 578.6 | 579.6 | 577.0 | 573.2 | 575.5 | 575.6 | 575.0 | 575.0 | 575.0 | 574.6 |
| 22 | 0 | 577.8 | 578.6 | 579.9 | 577.8 | 573.6 | 575.6 | 575.6 | 575.0 | 575.0 | 575.0 | 574.6 |
| 27 | 0 | 576.3 | 579.6 | 578.6 | 577.0 | 573.6 | 575.7 | 575.0 | 574.9 | 575.0 | 574.7 | 574.6 |
| 32 | 0 | 577.9 | 579.4 | 580.3 | 576.5 | 574.3 | 576.2 | 575.0 | 574.4 | 574.5 | 575.0 | 574.3 |
| 37 | 0 | 578.1 | 579.7 | 578.9 | 576.0 | 574.4 | 576.6 | 575.0 | 574.0 | 574.5 | 574.4 | 575.0 |
| 42 | 0 | 578.6 | 579.3 | 580.2 | 575.6 | 574.8 | 576.0 | 575.0 | 574.0 | 574.0 | 574.0 | 575.4 |
| 47 | 0 | 578.2 | 580.0 | 578.6 | 575.0 | 575.3 | 576.1 | 575.0 | 574.0 | 574.0 | 573.6 | 575.2 |
| 52 | 0 | 577.9 | 581.3 | 578.2 | 574.6 | 576.0 | 575.8 | 575.0 | 574.0 | 573.0 | 573.9 | 575.5 |
| 57 | 0 | 577.7 | 580.3 | 577.6 | 575.2 | 575.8 | 575.7 | 575.0 | 574.0 | 574.4 | 574.6 | 574.0 |

| Thermometer | | 44.6 | 44.5 | 44.8 | 45.0 | 45.2 | 45.5 | 46.0 | 46.5 | 47.0 | 47.0 | 47.0 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|----|----|---|------|------|------|------|-----------------|------|------|------|------|------|
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 102.3 | 99.6 | 97.3 | 95.9 | 95.8 | 95.8 | 94.0 | 92.3 | 91.3 | 91.5 | 91.2 |
| 8 | 0 | 102.3 | 99.2 | 96.5 | 95.9 | 95.8 | 96.1 | 94.0 | 91.8 | 91.3 | 91.5 | 91.2 |
| 13 | 0 | 101.5 | 98.9 | 96.5 | 95.7 | 95.8 | 95.9 | 94.0 | 91.8 | 91.3 | 91.5 | 91.2 |
| 18 | 0 | 101.5 | 98.9 | 96.5 | 95.7 | 95.8 | 95.1 | 93.4 | 91.8 | 91.3 | 91.5 | 91.2 |
| 23 | 0 | 101.5 | 98.3 | 96.5 | 95.9 | 95.8 | 95.1 | 93.0 | 91.8 | 91.3 | 91.5 | 91.2 |
| 28 | 0 | 101.5 | 98.5 | 96.5 | 95.9 | 95.9 | 94.9 | 93.0 | 91.8 | 91.3 | 91.5 | 91.2 |
| 33 | 0 | 101.5 | 98.2 | 95.9 | 95.9 | 95.9 | 94.9 | 92.7 | 91.8 | 91.3 | 91.5 | 91.1 |
| 38 | 0 | 101.5 | 97.9 | 95.9 | 95.9 | 96.1 | 94.9 | 92.7 | 91.9 | 91.6 | 91.5 | 91.0 |
| 43 | 0 | 101.5 | 98.1 | 95.9 | 96.0 | 96.8 | 94.7 | 92.7 | 91.9 | 91.6 | 91.5 | 91.0 |
| 48 | 0 | 100.5 | 97.7 | 95.8 | 96.0 | 96.0 | 94.7 | 92.7 | 91.9 | 90.5 | 91.5 | 91.0 |
| 53 | 0 | 99.6 | 97.3 | 95.8 | 96.0 | 95.8 | 94.0 | 92.3 | 91.9 | 90.5 | 91.5 | 90.8 |
| 58 | 0 | 99.6 | 97.3 | 95.8 | 95.8 | 95.8 | 94.0 | 92.3 | 91.3 | 91.0 | 91.5 | 90.9 |

| Thermometer | | 44.2 | 44.6 | 45.6 | 46.1 | 46.6 | 46.6 | 47.4 | 47.7 | 48.2 | 48.4 | 48.2 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|-------------|-------------|--|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | |
| D. | H. | M. | In. | ° | ° | | | | | | | |
| 29 | 10 | 0 | 29.756 | 32.2 | 30.8 | S. E. | Very light. | Densely clouded; cum.-strat. and cir.-cum. | | | | |
| | 11 | 0 | 29.770 | 32.1 | 30.5 | S. E. | Very light. | Densely clouded; cum.-strat., cir.-cum., and haze. | | | | |
| | 12 | 0 | 29.763 | 32.0 | 30.5 | S. E. | Very light. | Densely overcast. | | | | |
| | 13 | 0 | 29.768 | 32.0 | 30.4 | S. E. | Very light. | Densely overcast; cir.-cum. and haze. | | | | |
| | 14 | 0 | 29.758 | 32.5 | 31.0 | S. E. | Very light. | Densely overcast; cir.-cum. and haze. | | | | |
| | 15 | 0 | 29.761 | 31.6 | 30.2 | — | Calm. | Densely overcast; cir.-cum. and haze. | | | | |
| | 16 | 0 | 29.746 | 31.4 | 30.0 | — | Calm. | Overcast; cir.-cum. and haze. | | | | |
| | 17 | 0 | 29.732 | 32.2 | 31.2 | — | Calm. | Overcast; cir.-cum. and haze. | | | | |
| | 18 | 0 | 29.719 | 33.6 | 32.4 | — | Calm. | Overcast; cir.-cum. and haze. | | | | |
| | 19 | 0 | 29.693 | 31.2 | 32.6 | S. E. by S. | Light. | Overcast; cir.-cum. and haze. | | | | |
| | 20 | 0 | 29.689 | 33.4 | 32.4 | S. S. E. | Very light. | Thickly overcast. | | | | |
| | 21 | 0 | 29.678 | 33.4 | 32.5 | S. E. by S. | Very light. | Thickly overcast. | | | | |

MAGNETICAL OBSERVATIONS.

November 29th and 30th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 117.8 | 118.0 | 118.2 | 117.9 | 118.5 | 119.8 | 119.7 | 120.0 | 118.1 | 115.3 | 114.2 | 114.4 | 114.2 |
| 117.6 | 118.2 | 118.0 | 118.3 | 118.8 | 120.4 | 120.1 | 120.0 | 118.0 | 115.0 | 114.2 | 114.8 | 114.2 |
| 117.6 | 117.4 | 118.3 | 118.4 | 119.0 | 120.3 | 120.6 | 119.8 | 117.4 | 115.0 | 114.2 | 114.8 | 114.1 |
| 117.5 | 117.8 | 118.0 | 118.2 | 119.0 | 119.8 | 120.5 | 119.8 | 117.1 | 115.0 | 114.0 | 115.0 | 114.2 |
| 118.0 | 117.6 | 117.9 | 118.3 | 119.1 | 120.0 | 120.2 | 119.4 | 116.7 | 115.0 | 114.0 | 115.1 | 114.1 |
| 118.0 | 117.6 | 117.9 | 118.7 | 119.2 | 119.7 | 120.0 | 119.6 | 116.3 | 114.9 | 113.8 | 115.2 | 114.3 |
| 117.5 | 117.6 | 118.2 | 118.6 | 119.0 | 119.8 | 119.9 | 120.3 | 116.7 | 114.9 | 114.0 | 114.3 | 114.2 |
| 117.6 | 118.3 | 118.2 | 118.4 | 119.1 | 119.8 | 120.1 | 119.1 | 116.8 | 114.5 | 114.3 | 114.7 | 114.2 |
| 117.6 | 118.3 | 118.0 | 118.4 | 119.5 | 119.5 | 120.4 | 119.0 | 116.1 | 114.5 | 114.8 | 114.5 | 114.8 |
| 117.5 | 118.9 | 118.3 | 118.2 | 119.7 | 119.6 | 120.4 | 118.7 | 115.7 | 114.4 | 114.5 | 114.5 | 114.9 |
| 117.4 | 118.0 | 118.2 | 118.1 | 120.1 | 119.5 | 120.1 | 118.2 | 115.6 | 114.3 | 114.5 | 114.2 | 115.0 |
| 117.8 | 118.2 | 118.7 | 118.3 | 120.0 | 119.6 | 120.0 | 119.2 | 115.6 | 114.2 | 114.5 | 114.2 | 115.1 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 574.6 | 575.0 | 574.7 | 572.9 | 573.2 | 571.3 | 568.4 | 565.0 | 561.5 | 560.8 | 562.1 | 565.1 | 571.0 |
| 574.6 | 574.5 | 574.7 | 574.8 | 573.7 | 570.7 | 568.2 | 564.5 | 562.3 | 560.7 | 562.2 | 565.5 | 571.2 |
| 574.6 | 575.0 | 575.2 | 575.8 | 573.0 | 571.6 | 568.1 | 564.7 | 562.0 | 560.6 | 562.6 | 565.0 | 571.5 |
| 574.4 | 574.9 | 574.7 | 573.8 | 573.4 | 571.4 | 568.3 | 565.2 | 560.6 | 561.1 | 563.5 | 564.8 | 573.3 |
| 573.7 | 575.4 | 574.2 | 574.4 | 573.3 | 570.5 | 567.4 | 564.6 | 560.0 | 560.7 | 563.8 | 564.7 | 572.2 |
| 574.0 | 575.0 | 574.8 | 575.3 | 572.9 | 570.7 | 567.0 | 562.9 | 558.8 | 561.0 | 563.3 | 569.4 | 572.8 |
| 573.8 | 573.8 | 573.8 | 575.1 | 572.9 | 570.4 | 566.4 | 564.0 | 559.2 | 561.1 | 562.8 | 568.3 | 572.3 |
| 574.0 | 574.4 | 573.7 | 575.1 | 572.2 | 570.4 | 565.8 | 563.7 | 560.5 | 561.8 | 562.7 | 568.8 | 572.7 |
| 573.7 | 573.9 | 574.0 | 574.5 | 572.4 | 570.6 | 565.6 | 563.6 | 560.3 | 561.3 | 563.3 | 569.1 | 572.8 |
| 574.6 | 574.4 | 573.9 | 574.9 | 571.9 | 569.8 | 565.7 | 562.4 | 560.9 | 562.0 | 563.8 | 569.4 | 573.4 |
| 574.4 | 573.9 | 573.2 | 574.0 | 571.8 | 569.1 | 565.2 | 560.8 | 559.6 | 562.2 | 563.8 | 570.0 | 573.9 |
| 575.0 | 573.6 | 574.8 | 573.9 | 571.9 | 568.6 | 564.3 | 562.0 | 560.2 | 561.9 | 564.5 | 570.3 | 574.0 |
| 47.5 | 47.4 | 48.5 | 48.6 | 48.2 | 47.5 | 47.5 | 47.7 | 48.2 | 48.2 | 48.4 | 48.6 | 49.0 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 91.2 | 90.0 | 89.8 | 88.1 | 90.0 | 90.1 | 93.3 | 92.8 | 92.4 | 92.7 | 93.5 | 94.3 | 94.2 |
| 91.2 | 90.0 | 89.5 | 88.5 | 89.7 | 90.1 | 93.3 | 92.8 | 92.4 | 92.7 | 93.5 | 94.3 | 93.9 |
| 91.1 | 89.7 | 89.3 | 88.4 | 89.7 | 91.9 | 93.3 | 92.8 | 92.7 | 92.9 | 93.7 | 94.1 | 93.9 |
| 91.1 | 89.7 | 89.1 | 88.2 | 90.2 | 91.9 | 93.3 | 93.4 | 92.7 | 92.9 | 93.7 | 94.1 | 93.9 |
| 90.4 | 89.7 | 89.0 | 88.2 | 90.1 | 91.9 | 93.3 | 93.4 | 92.7 | 92.9 | 94.0 | 94.1 | 93.9 |
| 90.4 | 90.0 | 88.7 | 88.2 | 90.1 | 92.8 | 93.3 | 93.4 | 92.7 | 92.9 | 94.0 | 94.1 | 93.9 |
| 90.4 | 90.1 | 88.6 | 88.5 | 90.1 | 92.8 | 93.3 | 92.9 | 92.4 | 92.9 | 94.0 | 94.0 | 93.9 |
| 90.4 | 90.1 | 87.4 | 88.5 | 90.1 | 93.3 | 93.1 | 92.9 | 92.4 | 93.2 | 94.0 | 94.0 | 93.9 |
| 90.5 | 90.1 | 87.6 | 88.5 | 90.1 | 93.3 | 93.1 | 92.5 | 92.7 | 93.2 | 94.0 | 94.0 | 93.9 |
| 90.6 | 90.0 | 87.1 | 89.3 | 90.1 | 93.3 | 93.3 | 92.5 | 92.7 | 93.5 | 94.0 | 94.2 | 93.7 |
| 90.5 | 90.0 | 87.1 | 89.3 | 90.1 | 93.3 | 93.3 | 92.5 | 92.7 | 93.5 | 94.0 | 94.2 | 93.7 |
| 90.0 | 90.0 | 88.1 | 89.3 | 90.1 | 93.3 | 92.8 | 92.5 | 92.7 | 93.5 | 94.0 | 94.2 | 93.7 |
| 48.6 | 48.4 | 49.4 | 49.8 | 49.4 | 48.8 | 48.1 | 48.1 | 48.5 | 48.6 | 48.5 | 48.6 | 49.1 ^a |

^a At 30th 10^h Thermometer of H. F. 49°·0; of V. F. 49°·2.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|--|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 29 | 22 | 0 | 29.672 | 33.4 | 32.4 | S. | Very light. | Thickly overcast. |
| 23 | 0 | 0 | 29.669 | 33.6 | 32.7 | S. | Very light. | Overcast with dense haze. |
| 30 | 0 | 0 | 29.671 | 33.6 | 32.8 | S. | Very light. | Overcast with dense haze. |
| 1 | 0 | 0 | 29.679 | 34.0 | 33.2 | S. | Very light. | Densely overcast; light cir.-strat. and haze |
| 2 | 0 | 0 | 29.683 | 34.6 | 34.2 | — | Calm. | Slight spitting rain. |
| 3 | 0 | 0 | 29.677 | 35.4 | 35.2 | — | Calm. | Densely overcast, spitting rain. |
| 4 | 0 | 0 | 29.679 | 36.8 | 36.4 | — | Calm. | Densely overcast, a few drops of rain. |
| 5 | 0 | 0 | 29.671 | 37.7 | 37.0 | — | Calm. | Overcast, drizzling rain. |
| 6 | 0 | 0 | 29.671 | 37.6 | 36.8 | S. | Very light. | Overcast dense haze, thick mist. |
| 7 | 0 | 0 | 29.641 | 37.3 | 36.4 | S. | Very light. | Overcast with dense cir. and haze. |
| 8 | 0 | 0 | 29.626 | 37.5 | 36.9 | S. | Very light. | Overcast with dense cir. and haze. |
| 9 | 0 | 0 | 29.613 | 37.0 | 36.4 | — | Calm. | Overcast with dense haze; Scotch mist. |

| December 18th and 19th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-------------------------|----|---|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | | DECLINATION. | | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | 116.8 | 116.9 | 117.1 | 118.0 | 119.5 | 119.7 | 119.0 | 118.6 | 119.8 | 117.4 | 116.0 | |
| 5 | 0 | 116.9 | 117.1 | 117.9 | 118.0 | 119.0 | 119.8 | 119.0 | 119.2 | 119.4 | 117.0 | 116.4 | |
| 10 | 0 | 117.0 | 117.2 | 118.0 | 118.1 | 118.9 | 119.8 | 119.0 | 119.8 | 119.3 | 117.0 | 116.5 | |
| 15 | 0 | 117.0 | 117.0 | 118.3 | 118.4 | 118.8 | 120.0 | 119.0 | 120.0 | 119.5 | 117.2 | 117.0 | |
| 20 | 0 | 117.0 | 117.9 | 118.5 | 118.8 | 119.0 | 119.5 | 119.0 | 120.8 | 119.2 | 117.0 | 118.0 | |
| 25 | 0 | 117.6 | 117.4 | 118.0 | 118.2 | 118.8 | 119.6 | 119.0 | 121.4 | 119.0 | 117.0 | 118.8 | |
| 30 | 0 | 117.3 | 117.1 | 117.2 | 119.0 | 118.9 | 119.5 | 119.0 | 121.4 | 118.8 | 117.2 | 119.0 | |
| 35 | 0 | 116.8 | 118.0 | 117.0 | 118.3 | 119.1 | 119.0 | 119.0 | 121.2 | 118.4 | 115.4 | 120.4 | |
| 40 | 0 | 116.8 | 117.6 | 117.2 | 118.6 | 119.7 | 119.0 | 119.0 | 120.4 | 118.4 | 111.4 | 121.9 | |
| 45 | 0 | 116.5 | 117.0 | 117.0 | 118.2 | 119.0 | 119.0 | 119.0 | 120.0 | 118.0 | 111.5 | 122.3 | |
| 50 | 0 | 116.8 | 117.0 | 118.0 | 118.2 | 119.9 | 119.0 | 118.6 | 120.0 | 118.0 | 112.3 | 121.8 | |
| 55 | 0 | 116.2 | 117.0 | 118.0 | 119.1 | 120.0 | 118.8 | 118.2 | 121.0 | 117.6 | 114.3 | 120.8 | |

| | | One Scale Division = .000087 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|---|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|--|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | 594.7 | 594.0 | 586.5 | 589.0 | 593.4 | 587.6 | 587.5 | 584.0 | 585.8 | 583.6 | 590.2 | |
| 7 | 0 | 594.9 | 594.0 | 584.4 | 588.8 | 592.9 | 587.7 | 587.3 | 583.6 | 586.0 | 585.8 | 591.2 | |
| 12 | 0 | 595.5 | 594.0 | 584.1 | 589.0 | 592.0 | 587.9 | 587.0 | 584.0 | 585.0 | 585.0 | 589.4 | |
| 17 | 0 | 595.9 | 593.6 | 583.5 | 589.5 | 591.5 | 587.8 | 585.5 | 585.4 | 585.0 | 584.7 | 589.4 | |
| 22 | 0 | 595.7 | 593.6 | 584.0 | 590.2 | 590.4 | 537.9 | 586.0 | 584.4 | 585.4 | 584.7 | 589.2 | |
| 27 | 0 | 596.8 | 593.0 | 585.1 | 589.7 | 589.3 | 587.4 | 585.2 | 583.8 | 586.0 | 585.1 | 589.9 | |
| 32 | 0 | 597.8 | 593.1 | 586.3 | 590.4 | 588.2 | 587.0 | 585.0 | 584.3 | 586.0 | 585.6 | 589.8 | |
| 37 | 0 | 596.3 | 592.8 | 586.8 | 591.0 | 587.1 | 587.0 | 585.3 | 583.0 | 586.6 | 587.4 | 587.9 | |
| 42 | 0 | 595.5 | 591.5 | 587.0 | 592.0 | 587.9 | 586.9 | 585.4 | 582.8 | 587.0 | 589.8 | 587.2 | |
| 47 | 0 | 595.5 | 590.5 | 587.0 | 592.7 | 588.3 | 586.9 | 584.0 | 583.8 | 584.8 | 590.9 | 586.3 | |
| 52 | 0 | 595.5 | 589.7 | 587.5 | 594.0 | 589.2 | 587.2 | 583.8 | 584.7 | 583.6 | 590.6 | 586.2 | |
| 57 | 0 | 595.1 | 588.1 | 588.4 | 592.9 | 588.7 | 587.3 | 584.0 | 584.6 | 583.0 | 590.1 | 583.1 | |

| Thermometer | | 37.0 | 37.5 | 39.0 | 39.2 | 40.0 | 40.7 | 41.5 | 40.8 | 41.0 | 40.8 | 40.8 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000062 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | | |
|----|----|---|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|------|--|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | 110.4 | 108.2 | 105.0 | 104.2 | 104.1 | 102.4 | 102.4 | 100.6 | 100.1 | 100.5 | 98.3 | |
| 8 | 0 | 110.6 | 108.2 | 105.0 | 104.2 | 103.8 | 102.4 | 101.9 | 100.6 | 100.1 | 100.9 | 98.3 | |
| 13 | 0 | 110.6 | 107.0 | 105.0 | 104.8 | 103.8 | 102.4 | 101.9 | 100.5 | 100.2 | 100.5 | 98.2 | |
| 18 | 0 | 109.1 | 106.4 | 105.0 | 104.8 | 102.9 | 102.4 | 101.9 | 99.7 | 100.2 | 100.5 | 98.2 | |
| 23 | 0 | 109.1 | 106.4 | 105.0 | 104.8 | 102.9 | 102.2 | 101.9 | 99.7 | 100.2 | 100.9 | 97.5 | |
| 28 | 0 | 109.1 | 106.0 | 105.0 | 104.8 | 102.9 | 102.2 | 102.0 | 99.7 | 100.2 | 100.9 | 97.2 | |
| 33 | 0 | 109.1 | 106.0 | 105.0 | 104.8 | 102.7 | 102.2 | 101.9 | 99.2 | 100.7 | 100.9 | 96.0 | |
| 38 | 0 | 109.1 | 106.0 | 105.0 | 105.0 | 102.7 | 102.2 | 102.2 | 99.2 | 100.7 | 101.2 | 94.8 | |
| 43 | 0 | 109.1 | 106.0 | 105.0 | 105.0 | 103.1 | 102.2 | 102.1 | 99.2 | 100.7 | 100.3 | 94.1 | |
| 48 | 0 | 108.8 | 106.0 | 104.2 | 105.0 | 103.1 | 102.0 | 102.1 | 99.2 | 100.7 | 99.9 | 94.1 | |
| 53 | 0 | 108.2 | 106.0 | 104.2 | 104.7 | 102.9 | 102.2 | 102.1 | 100.1 | 100.5 | 98.9 | 93.4 | |
| 58 | 0 | 108.2 | 106.0 | 104.2 | 104.3 | 102.4 | 102.4 | 102.2 | 100.1 | 100.5 | 98.9 | 93.2 | |

| Thermometer | | 36.9 | 38.7 | 39.6 | 39.8 | 40.4 | 41.4 | 41.6 | 41.6 | 41.8 | 41.9 | 41.6 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | W. S. W. | Very light. | Densely overcast; cum.-strat., cir.-cum., and haze. |
| 18 | 10 | 0 | 29.510 | 21.6 | 23.3 | — | — | Clouded with cir.-cum. and haze. |
| | 11 | 0 | 29.503 | 24.0 | 23.0 | — | Calm. | Overcast with dense haze. |
| | 12 | 0 | 29.510 | 23.6 | 21.4 | — | Calm. | Overcast with dense haze. |
| | 13 | 0 | 29.535 | 23.2 | 21.0 | — | Calm. | Overcast; cir.-cum. and haze. |
| | 14 | 0 | 29.540 | 23.2 | 21.0 | — | Calm. | Overcast; cir.-cum. and haze. |
| | 15 | 0 | 29.540 | 22.8 | 21.0 | — | Calm. | Cir.-cum. and cir.-strat. dispersed round the horizon. |
| | 16 | 0 | 29.543 | 22.2 | 20.4 | — | Calm. | Overcast with mottled cir.-cum. in uniformity. |
| | 17 | 0 | 29.547 | 20.4 | 19.4 | — | Calm. | Mottled cir.-cum. to westward, near horizon; remainder unclouded. |
| | 18 | 0 | 29.545 | 19.0 | 18.4 | — | Calm. | Clouded with cir.-cum. and haze. |
| | 19 | 0 | 29.538 | 17.0 | 16.4 | — | Calm. | Overcast with cir.-strat. and haze. |
| | 20 | 0 | 29.556 | 18.7 | 17.9 | — | Calm. | Overcast with cir.-strat. and haze. |
| | 21 | 0 | 29.556 | 19.2 | 18.7 | — | Calm. | Overcast with cir.-strat. and haze. |

MAGNETICAL OBSERVATIONS.

December 18th and 19th.

DECLINATION.

Angular Value of one Scale Division = 0'·721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 120·6 | Sc. Div. 132·8 | Sc. Div. 125·0 | Sc. Div. 118·2 | Sc. Div. 115·8 | Sc. Div. 118·2 | Sc. Div. 119·5 | Sc. Div. 114·7 | Sc. Div. 113·0 | Sc. Div. 112·2 | Sc. Div. 114·3 | Sc. Div. 114·5 | Sc. Div. 114·8 |
| 119·3 | 132·6 | 123·9 | 117·0 | 115·3 | 118·2 | 119·9 | 113·0 | 113·0 | 113·1 | 112·6 | 114·9 | 115·0 |
| 118·5 | 132·5 | 122·9 | 116·8 | 116·8 | 118·7 | 118·6 | 112·9 | 112·4 | 113·6 | 112·7 | 115·4 | 115·0 |
| 118·6 | 132·0 | 121·4 | 116·1 | 117·5 | 119·3 | 119·2 | 114·1 | 112·0 | 113·6 | 113·4 | 115·8 | 115·5 |
| 119·8 | 129·8 | 121·3 | 116·0 | 116·8 | 118·1 | 125·3 | 114·4 | 113·8 | 113·5 | 113·7 | 115·5 | 115·6 |
| 121·2 | 127·3 | 122·1 | 115·8 | 117·3 | 119·3 | 122·9 | 114·5 | 112·6 | 114·0 | 113·9 | 115·8 | 115·5 |
| 123·7 | 126·4 | 121·9 | 115·8 | 117·7 | 119·3 | 120·5 | 114·5 | 113·0 | 113·2 | 113·1 | 115·5 | 115·6 |
| 127·5 | 125·9 | 121·8 | 115·8 | 118·3 | 119·9 | 118·1 | 113·5 | 112·8 | 112·9 | 113·5 | 115·5 | 116·7 |
| 129·5 | 125·8 | 121·8 | 115·9 | 118·4 | 120·7 | 116·8 | 116·2 | 112·2 | 113·0 | 113·9 | 115·6 | 116·2 |
| 130·4 | 125·0 | 121·1 | 115·9 | 117·3 | 118·8 | 116·0 | 115·0 | 112·2 | 113·1 | 114·2 | 115·7 | 113·8 |
| 132·3 | 125·0 | 120·0 | 116·1 | 118·1 | 119·1 | 116·1 | 113·6 | 112·4 | 113·0 | 114·1 | 115·2 | 112·3 |
| 132·8 | 124·3 | 119·3 | 115·0 | 118·2 | 119·0 | 115·2 | 113·5 | 112·3 | 113·2 | 114·0 | 115·1 | 112·9 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = ·00027.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 583·7 | 578·9 | 584·9 | 585·9 | 590·4 | 589·0 | 586·9 | 574·5 | 571·6 | 572·3 | 583·5 | 580·8 | 580·5 |
| 582·8 | 579·6 | 585·2 | 586·8 | 589·3 | 588·1 | 586·9 | 573·4 | 571·0 | 572·5 | 581·7 | 581·6 | 581·0 |
| 584·5 | 578·9 | 585·9 | 587·1 | 588·2 | 588·9 | 586·9 | 574·0 | 570·5 | 574·0 | 581·8 | 581·9 | 579·2 |
| 585·1 | 579·2 | 583·8 | 587·7 | 591·4 | 588·1 | 577·4 | 575·0 | 571·0 | 574·4 | 581·2 | 581·5 | 579·5 |
| 585·2 | 580·2 | 584·5 | 587·1 | 589·1 | 588·5 | 583·0 | 575·8 | 570·4 | 573·9 | 581·4 | 580·7 | 580·8 |
| 581·2 | 580·4 | 585·7 | 587·3 | 590·8 | 590·6 | 583·9 | 577·5 | 570·7 | 574·3 | 581·4 | 580·8 | 581·5 |
| 579·6 | 580·4 | 584·8 | 587·9 | 590·4 | 587·8 | 582·3 | 578·1 | 566·6 | 579·7 | 582·6 | 581·0 | 582·0 |
| 578·3 | 580·9 | 584·4 | 587·7 | 590·9 | 588·1 | 581·0 | 575·4 | 570·4 | 580·2 | 582·0 | 582·5 | 587·1 |
| 578·9 | 581·9 | 584·4 | 588·0 | 591·0 | 589·0 | 581·5 | 577·0 | 568·2 | 581·5 | 581·4 | 583·0 | 587·2 |
| 578·6 | 582·0 | 586·3 | 587·6 | 587·3 | 587·6 | 580·1 | 576·8 | 567·0 | 580·0 | 582·3 | 582·0 | 583·5 |
| 578·9 | 583·3 | 585·9 | 590·1 | 588·6 | 587·8 | 578·7 | 574·1 | 569·8 | 579·6 | 582·9 | 582·5 | 581·2 |
| 579·6 | 582·9 | 586·6 | 588·6 | 588·8 | 587·4 | 575·5 | 573·0 | 570·7 | 578·7 | 580·4 | 583·5 | 583·1 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 41·0 | 41·2 | 41·0 | 41·2 | 41·6 | 41·8 | 41·3 | 41·0 | 41·0 | 40·8 | 41·8 | 41·8 | 41·6 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = ·00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 93·2 | 90·9 | 94·4 | 98·6 | 98·2 | 97·0 | 98·6 | 100·6 | 102·3 | 102·7 | 104·5 | 103·5 | 104·0 |
| 92·1 | 92·9 | 94·2 | 98·6 | 98·2 | 97·0 | 98·6 | 100·6 | 102·3 | 102·7 | 103·9 | 103·5 | 104·0 |
| 92·1 | 92·7 | 94·2 | 98·6 | 97·9 | 97·0 | 98·6 | 100·6 | 102·3 | 102·8 | 103·9 | 103·5 | 104·0 |
| 92·1 | 92·9 | 94·2 | 98·8 | 97·9 | 97·0 | 98·3 | 100·6 | 102·1 | 102·9 | 103·9 | 103·5 | 103·5 |
| 90·5 | 92·9 | 94·2 | 99·0 | 97·9 | 96·3 | 99·4 | 100·6 | 102·1 | 102·6 | 103·9 | 103·7 | 103·5 |
| 90·3 | 94·6 | 94·4 | 99·0 | 97·4 | 96·3 | 99·4 | 100·8 | 102·1 | 103·5 | 103·9 | 103·7 | 103·5 |
| 88·6 | 94·6 | 94·4 | 98·6 | 97·4 | 97·3 | 99·2 | 101·6 | 102·1 | 103·5 | 103·9 | 103·7 | 104·5 |
| 88·0 | 94·6 | 94·4 | 98·6 | 97·4 | 97·3 | 99·2 | 101·4 | 102·2 | 103·5 | 103·9 | 103·7 | 105·7 |
| 89·2 | 94·6 | 94·4 | 98·8 | 97·1 | 97·7 | 99·2 | 101·7 | 102·6 | 104·4 | 103·9 | 103·7 | 105·7 |
| 89·9 | 94·6 | 96·4 | 98·8 | 97·1 | 97·7 | 100·6 | 101·7 | 102·4 | 103·7 | 103·7 | 104·0 | 105·7 |
| 89·9 | 94·4 | 96·4 | 98·2 | 97·1 | 97·7 | 100·6 | 101·7 | 102·8 | 103·6 | 103·7 | 104·0 | 105·7 |
| 90·9 | 94·4 | 96·4 | 98·2 | 97·0 | 97·7 | 100·6 | 101·7 | 102·7 | 103·6 | 103·5 | 104·0 | 105·7 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 42·1 | 42·4 | 42·7 | 42·6 | 42·8 | 42·8 | 41·6 | 41·6 | 41·6 | 41·0 | 41·6 | 41·7 | 41·6 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 19^h 10^h Thermometer of H. F. 41°·5; of V. F. 41°·6.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|------------|-------------|--|
| | | Dry. | Wet. | Direction. | Force. | |
| D. H. M. | In. | ° | ° | | | |
| 18 22 0 | 29·541 | 19·3 | 17·8 | — | Calm. | Overcast with cir.-strat. and haze. |
| 23 0 0 | 29·552 | 19·8 | 19·0 | — | Calm. | Overcast with dense haze. |
| 19 0 0 | 29·558 | 20·4 | 19·6 | — | Calm. | Overcast with dense haze. |
| 1 0 0 | 29·571 | 21·0 | 20·2 | — | Calm. | Overcast with dense haze. |
| 2 0 0 | 29·583 | 21·4 | 21·0 | — | Calm. | Densely overcast; snowing. |
| 3 0 0 | 29·594 | 22·3 | 21·5 | — | Calm. | Densely overcast; snowing slightly. |
| 4 0 0 | 29·605 | 23·4 | 22·6 | — | Calm. | Overcast; constant slight snow. |
| 5 0 0 | 29·605 | 24·2 | 23·6 | W. | Very light. | Thickly overcast; constant slight snow. |
| 6 0 0 | 29·579 | 23·6 | 22·8 | W. | Very light. | Overcast; moderate snow. |
| 7 0 0 | 29·578 | 23·6 | 22·7 | — | Calm. | Densely overcast; snowing constantly and moderately. |
| 8 0 0 | 29·580 | 23·0 | 22·0 | — | Calm. | Densely overcast; snowing constantly and moderately. |
| 9 0 0 | 29·595 | 22·2 | 21·2 | S. W. | Very light. | Densely overcast; snowing slightly. |

TORONTO, 1844.

METEOROLOGICAL OBSERVATIONS.

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 1 | 2.886 | 2.904 | 2.952 | 2.980 | 2.980 | 2.955 | 2.937 | 2.916 | 2.900 | 2.914 | 2.899 | 2.890 |
| | 2 | 2.758 | 2.756 | 2.748 | 2.734 | 2.704 | 2.670 | 2.612 | 2.542 | 2.538 | 2.525 | 2.493 | 2.457 |
| | 3 | 2.191 | 2.185 | 2.173 | 2.193 | 2.185 | 2.175 | 2.161 | 2.149 | 2.151 | 2.157 | 2.166 | 2.179 |
| | 4 | 2.229 | 2.283 | 2.327 | 2.366 | 2.399 | 2.409 | 2.421 | 2.441 | 2.469 | 2.507 | 2.549 | 2.578 |
| | 5 | 2.834 | 2.855 | 2.892 | 2.910 | 2.924 | 2.935 | 2.906 | 2.902 | 2.902 | 2.907 | 2.901 | 2.913 |
| | 6 | 2.873 | 2.872 | 2.892 | 2.898 | 2.892 | 2.872 | 2.834 | 2.807 | 2.793 | 2.779 | 2.759 | 2.743 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 2.806 | 2.840 | 2.852 | 2.864 | 2.868 | 2.858 | 2.841 | 2.825 | 2.844 | 2.844 | 2.846 | 2.847 |
| | 9 | 2.675 | 2.637 | 2.631 | 2.588 | 2.561 | 2.509 | 2.457 | 2.396 | 2.373 | 2.339 | 2.304 | 2.280 |
| | 10 | 2.440 | 2.474 | 2.544 | 2.558 | 2.568 | 2.578 | 2.592 | 2.631 | 2.663 | 2.706 | 2.731 | 2.769 |
| | 11 | 3.091 | 3.110 | 3.120 | 3.134 | 3.120 | 3.098 | 3.092 | 3.063 | 3.058 | 3.039 | 3.027 | 2.987 |
| | 12 | 2.605 | 2.564 | 2.564 | 2.508 | 2.472 | 2.446 | 2.371 | 2.336 | 2.297 | 2.269 | 2.245 | 2.237 |
| | 13 | 1.682 | 1.726 | 1.773 | 1.846 | 1.974 | 2.082 | 2.189 | 2.260 | 2.355 | 2.435 | 2.485 | 2.526 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 2.751 | 2.759 | 2.787 | 2.780 | 2.757 | 2.721 | 2.687 | 2.670 | 2.652 | 2.620 | 2.612 | 2.600 |
| | 16 | 2.269 | 2.247 | 2.257 | 2.243 | 2.227 | 2.194 | 2.147 | 2.124 | 2.092 | 2.087 | 2.067 | 2.066 |
| | 17 | 1.921 | 1.911 | 1.907 | 1.883 | 1.869 | 1.848 | 1.825 | 1.779 | 1.793 | 1.813 | 1.839 | 1.861 |
| | 18 | 2.186 | 2.232 | 2.288 | 2.322 | 2.360 | 2.382 | 2.396 | 2.419 | 2.447 | 2.489 | 2.521 | 2.573 |
| | 19 | 2.884 | 2.896 | 2.911 | 2.911 | 2.941 | 2.931 | 2.915 | 2.903 | 2.895 | 2.902 | 2.914 | 2.926 |
| | 20 | 3.101 | 3.122 | 3.138 | 3.172 | 3.188 | 3.173 | 3.151 | 3.125 | 3.107 | 3.106 | 3.092 | 3.082 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 2.815 | 2.826 | 2.837 | 2.849 | 2.857 | 2.856 | 2.825 | 2.811 | 2.774 | 2.747 | 2.717 | 2.696 |
| | 23 | 2.012 | 2.011 | 2.005 | 2.008 | 2.007 | 2.015 | 2.030 | 2.059 | 2.082 | 2.134 | 2.161 | 2.176 |
| | 24 | 2.314 | 2.326 | 2.334 | 2.351 | 2.371 | 2.381 | 2.391 | 2.395 | 2.433 | 2.458 | 2.480 | 2.522 |
| | 25 | 2.628 | 2.637 | 2.653 | 2.662 | 2.660 | 2.650 | 2.634 | 2.615 | 2.614 | 2.622 | 2.636 | 2.656 |
| | 26 | 2.677 | 2.697 | 2.729 | 2.745 | 2.755 | 2.765 | 2.752 | 2.742 | 2.742 | 2.749 | 2.763 | 2.785 |
| | 27 | 2.922 | 2.935 | 2.949 | 2.963 | 2.962 | 2.959 | 2.937 | 2.921 | 2.900 | 2.891 | 2.884 | 2.880 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 3.054 | 3.054 | 3.072 | 3.085 | 3.079 | 3.066 | 3.027 | 2.996 | 2.964 | 2.929 | 2.904 | 2.862 |
| | 30 | 2.483 | 2.469 | 2.463 | 2.453 | 2.444 | 2.437 | 2.422 | 2.416 | 2.414 | 2.441 | 2.474 | 2.524 |
| | 31 | 2.963 | 2.985 | 3.021 | 3.036 | 3.056 | 3.055 | 3.031 | 3.015 | 3.013 | 3.012 | 3.007 | 3.019 |
| Hourly Means | 2.5944 | 2.6042 | 2.6229 | 2.6312 | 2.6363 | 2.6304 | 2.6142 | 2.6021 | 2.6024 | 2.6082 | 2.6102 | 2.6161 | |
| FEBRUARY. | 1 | 2.915 | 2.906 | 2.926 | 2.898 | 2.880 | 2.845 | 2.815 | 2.766 | 2.707 | 2.697 | 2.677 | 2.646 |
| | 2 | 2.722 | 2.748 | 2.780 | 2.808 | 2.836 | 2.841 | 2.857 | 2.854 | 2.851 | 2.862 | 2.883 | 2.897 |
| | 3 | 3.045 | 3.059 | 3.083 | 3.100 | 3.079 | 3.082 | 3.054 | 3.039 | 3.021 | 3.012 | 3.006 | 3.004 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 2.378 | 2.384 | 2.398 | 2.399 | 2.409 | 2.422 | 2.407 | 2.409 | 2.406 | 2.405 | 2.418 | 2.422 |
| | 6 | 2.406 | 2.425 | 2.425 | 2.411 | 2.419 | 2.427 | 2.412 | 2.414 | 2.414 | 2.433 | 2.453 | 2.456 |
| | 7 | 2.495 | 2.519 | 2.543 | 2.543 | 2.541 | 2.528 | 2.512 | 2.490 | 2.480 | 2.462 | 2.446 | 2.445 |
| | 8 | 2.442 | 2.467 | 2.486 | 2.500 | 2.504 | 2.504 | 2.492 | 2.481 | 2.477 | 2.480 | 2.482 | 2.504 |
| | 9 | 2.604 | 2.630 | 2.657 | 2.683 | 2.701 | 2.706 | 2.694 | 2.696 | 2.684 | 2.686 | 2.691 | 2.695 |
| | 10 | 2.673 | 2.679 | 2.703 | 2.705 | 2.699 | 2.698 | 2.686 | 2.678 | 2.677 | 2.687 | 2.708 | 2.732 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 2.795 | 2.817 | 2.843 | 2.855 | 2.884 | 2.881 | 2.876 | 2.869 | 2.857 | 2.855 | 2.853 | 2.834 |
| | 13 | 2.560 | 2.548 | 2.532 | 2.498 | 2.478 | 2.467 | 2.443 | 2.441 | 2.447 | 2.480 | 2.512 | 2.548 |
| | 14 | 2.879 | 2.908 | 2.929 | 2.946 | 2.966 | 2.979 | 2.963 | 2.955 | 2.925 | 2.928 | 2.924 | 2.920 |
| | 15 | 2.693 | 2.687 | 2.657 | 2.609 | 2.597 | 2.576 | 2.539 | 2.493 | 2.460 | 2.451 | 2.434 | 2.422 |
| | 16 | 2.450 | 2.467 | 2.487 | 2.495 | 2.503 | 2.501 | 2.466 | 2.448 | 2.438 | 2.428 | 2.426 | 2.427 |
| | 17 | 2.544 | 2.558 | 2.589 | 2.617 | 2.635 | 2.649 | 2.645 | 2.632 | 2.636 | 2.650 | 2.692 | 2.720 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 2.751 | 2.775 | 2.790 | 2.796 | 2.808 | 2.799 | 2.782 | 2.756 | 2.721 | 2.700 | 2.695 | 2.688 |
| | 20 | 2.551 | 2.555 | 2.568 | 2.561 | 2.542 | 2.533 | 2.504 | 2.485 | 2.468 | 2.462 | 2.466 | 2.483 |
| | 21 | 2.541 | 2.571 | 2.585 | 2.593 | 2.611 | 2.592 | 2.578 | 2.570 | 2.568 | 2.562 | 2.540 | 2.537 |
| | 22 | 2.519 | 2.535 | 2.561 | 2.575 | 2.582 | 2.567 | 2.564 | 2.550 | 2.532 | 2.521 | 2.519 | 2.524 |
| | 23 | 2.369 | 2.360 | 2.365 | 2.346 | 2.310 | 2.284 | 2.280 | 2.262 | 2.268 | 2.293 | 2.337 | 2.371 |
| | 24 | 2.745 | 2.784 | 2.810 | 2.834 | 2.838 | 2.865 | 2.864 | 2.841 | 2.841 | 2.845 | 2.854 | 2.848 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 2.854 | 2.854 | 2.844 | 2.851 | 2.827 | 2.808 | 2.794 | 2.751 | 2.722 | 2.711 | 2.693 | 2.663 |
| | 27 | 2.661 | 2.696 | 2.749 | 2.786 | 2.801 | 2.821 | 2.839 | 2.857 | 2.865 | 2.895 | 2.899 | 2.920 |
| | 28 | 3.051 | 3.065 | 3.077 | 3.075 | 3.072 | 3.074 | 3.055 | 3.035 | 3.031 | 3.038 | 3.008 | 2.982 |
| | 29 | 2.702 | 2.692 | 2.680 | 2.680 | 2.678 | 2.659 | 2.659 | 2.634 | 2.623 | 2.625 | 2.611 | 2.625 |
| Hourly Means | 2.6538 | 2.6676 | 2.6827 | 2.6866 | 2.6880 | 2.6843 | 2.6712 | 2.6562 | 2.6448 | 2.6467 | 2.6491 | 2.6525 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English Inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.898 | 2.916 | 2.933 | 2.913 | 2.888 | 2.878 | 2.866 | 2.862 | 2.856 | 2.844 | 2.804 | 2.776 | 2.8978 |
| 2.483 | 2.440 | 2.430 | 2.405 | 2.377 | 2.353 | 2.327 | 2.311 | 2.294 | 2.276 | 2.240 | 2.199 | 2.4863 |
| 2.179 | 2.181 | 2.175 | 2.169 | 2.162 | 2.172 | 2.166 | 2.158 | 2.166 | 2.170 | 2.184 | 2.186 | 2.1722 |
| 2.595 | 2.626 | 2.656 | 2.686 | 2.711 | 2.713 | 2.725 | 2.733 | 2.761 | 2.779 | 2.796 | 2.796 | 2.5648 |
| 2.921 | 2.925 | 2.912 | 2.897 | 2.897 | 2.893 | 2.885 | 2.886 | 2.898 | 2.892 | 2.879 | 2.873 | 2.8975 |
| 2.739 | 2.725 | 2.700 | 2.660 | 2.633 | 2.601 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.622 | 2.671 | 2.703 | 2.745 | 2.768 | 2.778 | 2.7650 |
| 2.852 | 2.856 | 2.845 | 2.841 | 2.838 | 2.822 | 2.820 | 2.805 | 2.799 | 2.787 | 2.759 | 2.717 | 2.8282 |
| 2.274 | 2.267 | 2.243 | 2.255 | 2.270 | 2.288 | 2.281 | 2.301 | 2.340 | 2.372 | 2.388 | 2.396 | 2.3927 |
| 2.809 | 2.840 | 2.893 | 2.901 | 2.911 | 2.929 | 2.948 | 2.980 | 3.025 | 3.055 | 3.052 | 3.057 | 2.7772 |
| 2.989 | 2.965 | 2.944 | 2.922 | 2.870 | 2.826 | 2.792 | 2.759 | 2.729 | 2.708 | 2.683 | 2.633 | 2.9483 |
| 2.207 | 2.162 | 2.095 | 2.025 | 1.914 | 1.816 | 1.709 | 1.701 | 1.649 | 1.614 | 1.622 | 1.642 | 2.1279 |
| 2.576 | 2.604 | 2.654 | 2.680 | 2.684 | 2.714 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.795 | 2.793 | 2.793 | 2.789 | 2.783 | 2.751 | 2.4145 |
| 2.582 | 2.552 | 2.528 | 2.510 | 2.500 | 2.480 | 2.435 | 2.407 | 2.390 | 2.356 | 2.306 | 2.296 | 2.5724 |
| 2.045 | 2.027 | 2.029 | 2.030 | 2.038 | 2.038 | 2.026 | 2.013 | 2.017 | 2.005 | 1.977 | 1.957 | 2.0926 |
| 1.904 | 1.934 | 1.950 | 1.968 | 1.983 | 1.996 | 2.039 | 2.055 | 2.102 | 2.138 | 2.160 | 2.178 | 1.9440 |
| 2.628 | 2.654 | 2.693 | 2.722 | 2.742 | 2.771 | 2.805 | 2.841 | 2.861 | 2.863 | 2.882 | 2.861 | 2.5807 |
| 2.936 | 2.952 | 2.980 | 2.994 | 3.009 | 3.011 | 3.025 | 3.042 | 3.052 | 3.070 | 3.068 | 3.073 | 2.9642 |
| 3.076 | 3.072 | 3.045 | 3.019 | 3.011 | 2.991 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.748 | 2.770 | 2.802 | 2.804 | 2.804 | 2.816 | 3.0215 |
| 2.666 | 2.614 | 2.549 | 2.501 | 2.439 | 2.371 | 2.302 | 2.209 | 2.163 | 2.120 | 2.071 | 2.038 | 2.5689 |
| 2.177 | 2.195 | 2.211 | 2.225 | 2.241 | 2.268 | 2.280 | 2.296 | 2.319 | 2.321 | 2.326 | 2.314 | 2.1614 |
| 2.552 | 2.577 | 2.581 | 2.596 | 2.612 | 2.611 | 2.614 | 2.615 | 2.637 | 2.638 | 2.635 | 2.636 | 2.5050 |
| 2.670 | 2.671 | 2.664 | 2.659 | 2.655 | 2.642 | 2.640 | 2.619 | 2.619 | 2.639 | 2.663 | 2.655 | 2.6443 |
| 2.804 | 2.820 | 2.835 | 2.855 | 2.861 | 2.874 | 2.861 | 2.871 | 2.889 | 2.909 | 2.916 | 2.924 | 2.8050 |
| 2.880 | 2.878 | 2.862 | 2.857 | 2.840 | 2.828 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 3.003 | 3.020 | 3.027 | 3.033 | 3.045 | 3.045 | 2.9294 |
| 2.842 | 2.810 | 2.775 | 2.761 | 2.718 | 2.682 | 2.652 | 2.630 | 2.600 | 2.572 | 2.530 | 2.499 | 2.8401 |
| 2.587 | 2.606 | 2.656 | 2.711 | 2.755 | 2.778 | 2.824 | 2.848 | 2.901 | 2.920 | 2.927 | 2.943 | 2.6207 |
| 3.020 | 3.034 | 3.034 | 3.024 | 3.014 | 3.008 | 3.015 | 2.998 | 2.987 | 2.977 | 2.967 | 2.935 | 3.0094 |
| 2.6256 | 2.6260 | 2.6249 | 2.6217 | 2.6138 | 2.6079 | 2.5847 | 2.5991 | 2.6064 | 2.6070 | 2.6008 | 2.5916 | 2.6118 |
| 2.604 | 2.568 | 2.511 | 2.551 | 2.550 | 2.590 | 2.610 | 2.616 | 2.632 | 2.654 | 2.670 | 2.692 | 2.7052 |
| 2.936 | 2.943 | 2.948 | 2.966 | 2.975 | 3.001 | 3.005 | 3.013 | 3.029 | 3.031 | 3.033 | 3.033 | 2.9105 |
| 2.996 | 2.997 | 2.990 | 2.988 | 2.981 | 2.973 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.407 | 2.405 | 2.393 | 2.382 | 2.368 | 2.375 | 2.8679 |
| 2.452 | 2.466 | 2.474 | 2.474 | 2.475 | 2.475 | 2.474 | 2.464 | 2.462 | 2.466 | 2.449 | 2.412 | 2.4333 |
| 2.468 | 2.472 | 2.484 | 2.498 | 2.493 | 2.505 | 2.511 | 2.504 | 2.505 | 2.520 | 2.516 | 2.506 | 2.4615 |
| 2.449 | 2.443 | 2.435 | 2.428 | 2.419 | 2.422 | 2.417 | 2.417 | 2.417 | 2.419 | 2.425 | 2.429 | 2.4635 |
| 2.508 | 2.526 | 2.533 | 2.525 | 2.521 | 2.521 | 2.517 | 2.527 | 2.538 | 2.551 | 2.564 | 2.592 | 2.5101 |
| 2.707 | 2.719 | 2.720 | 2.718 | 2.711 | 2.711 | 2.707 | 2.692 | 2.684 | 2.683 | 2.686 | 2.673 | 2.6891 |
| 2.761 | 2.788 | 2.791 | 2.797 | 2.812 | 2.814 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.709 | 2.717 | 2.738 | 2.740 | 2.753 | 2.759 | 2.7293 |
| 2.841 | 2.835 | 2.817 | 2.815 | 2.792 | 2.778 | 2.758 | 2.744 | 2.704 | 2.670 | 2.636 | 2.591 | 2.8000 |
| 2.576 | 2.610 | 2.642 | 2.646 | 2.674 | 2.706 | 2.733 | 2.760 | 2.777 | 2.803 | 2.823 | 2.851 | 2.6065 |
| 2.916 | 2.912 | 2.919 | 2.905 | 2.874 | 2.865 | 2.846 | 2.832 | 2.801 | 2.779 | 2.755 | 2.719 | 2.8894 |
| 2.415 | 2.420 | 2.422 | 2.426 | 2.420 | 2.417 | 2.417 | 2.438 | 2.440 | 2.444 | 2.448 | 2.448 | 2.4905 |
| 2.435 | 2.451 | 2.474 | 2.472 | 2.479 | 2.481 | 2.488 | 2.487 | 2.490 | 2.496 | 2.502 | 2.524 | 2.4715 |
| 2.756 | 2.799 | 2.817 | 2.832 | 2.845 | 2.843 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.772 | 2.762 | 2.756 | 2.750 | 2.744 | 2.746 | 2.7079 |
| 2.676 | 2.684 | 2.682 | 2.659 | 2.641 | 2.622 | 2.607 | 2.593 | 2.577 | 2.564 | 2.558 | 2.552 | 2.6865 |
| 2.495 | 2.509 | 2.517 | 2.510 | 2.504 | 2.502 | 2.502 | 2.506 | 2.510 | 2.511 | 2.527 | 2.527 | 2.5124 |
| 2.535 | 2.535 | 2.545 | 2.539 | 2.542 | 2.523 | 2.506 | 2.502 | 2.498 | 2.479 | 2.493 | 2.503 | 2.5437 |
| 2.550 | 2.565 | 2.566 | 2.561 | 2.557 | 2.559 | 2.528 | 2.501 | 2.475 | 2.459 | 2.425 | 2.391 | 2.5286 |
| 2.403 | 2.444 | 2.486 | 2.524 | 2.554 | 2.564 | 2.580 | 2.596 | 2.643 | 2.665 | 2.682 | 2.705 | 2.4463 |
| 2.868 | 2.862 | 2.864 | 2.879 | 2.880 | 2.885 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.872 | 2.873 | 2.864 | 2.858 | 2.853 | 2.847 | 2.8489 |
| 2.650 | 2.648 | 2.633 | 2.622 | 2.600 | 2.586 | 2.580 | 2.570 | 2.577 | 2.583 | 2.601 | 2.635 | 2.6940 |
| 2.958 | 2.972 | 2.976 | 2.997 | 3.021 | 3.021 | 3.029 | 3.030 | 3.031 | 3.023 | 3.049 | 3.051 | 2.9145 |
| 2.978 | 2.953 | 2.925 | 2.888 | 2.874 | 2.826 | 2.808 | 2.776 | 2.764 | 2.746 | 2.734 | 2.702 | 2.9390 |
| 2.641 | 2.655 | 2.670 | 2.670 | 2.676 | 2.674 | 2.676 | 2.678 | 2.681 | 2.663 | 2.657 | 2.659 | 2.6612 |
| 2.6630 | 2.6710 | 2.6736 | 2.6756 | 2.6748 | 2.6746 | 2.6424 | 2.6401 | 2.6394 | 2.6376 | 2.6380 | 2.6369 | 2.6604 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 2·637 | 2·623 | 2·611 | 2·583 | 2·555 | 2·533 | 2·492 | 2·449 | 2·407 | 2·359 | 2·367 | 2·333 |
| | 2 | 2·419 | 2·443 | 2·438 | 2·434 | 2·433 | 2·417 | 2·407 | 2·410 | 2·404 | 2·411 | 2·423 | 2·437 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 2·757 | 2·829 | 2·872 | 2·906 | 2·936 | 2·955 | 2·969 | 2·958 | 2·979 | 2·938 | 2·995 | 3·001 |
| | 5 | 3·123 | 3·126 | 3·127 | 3·127 | 3·102 | 3·099 | 3·068 | 3·050 | 3·034 | 3·031 | 3·018 | 3·012 |
| | 6 | 3·134 | 3·138 | 3·138 | 3·146 | 3·150 | 3·160 | 3·146 | 3·125 | 3·078 | 3·066 | 3·056 | 3·042 |
| | 7 | 2·986 | 2·990 | 3·012 | 3·005 | 3·011 | 2·996 | 2·986 | 2·959 | 2·927 | 2·913 | 2·908 | 2·894 |
| | 8 | 2·680 | 2·674 | 2·654 | 2·618 | 2·589 | 2·551 | 2·476 | 2·454 | 2·413 | 2·378 | 2·364 | 2·365 |
| | 9 | 2·600 | 2·629 | 2·666 | 2·688 | 2·688 | 2·684 | 2·674 | 2·656 | 2·660 | 2·653 | 2·659 | 2·659 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 2·818 | 2·836 | 2·838 | 2·857 | 2·853 | 2·834 | 2·824 | 2·802 | 2·773 | 2·762 | 2·757 | 2·758 |
| | 12 | 2·648 | 2·648 | 2·668 | 2·622 | 2·598 | 2·573 | 2·546 | 2·518 | 2·486 | 2·472 | 2·454 | 2·446 |
| | 13 | 2·304 | 2·329 | 2·371 | 2·395 | 2·417 | 2·442 | 2·467 | 2·485 | 2·513 | 2·557 | 2·591 | 2·623 |
| | 14 | 2·850 | 2·903 | 2·905 | 2·926 | 2·956 | 2·922 | 2·907 | 3·879 | 2·859 | 2·854 | 2·840 | 2·833 |
| | 15 | 2·627 | 2·620 | 2·600 | 2·578 | 2·562 | 2·542 | 2·519 | 2·485 | 2·462 | 2·456 | 2·428 | 2·422 |
| | 16 | 2·289 | 2·277 | 2·265 | 2·253 | 2·253 | 2·253 | 2·241 | 2·211 | 2·207 | 2·210 | 2·210 | 2·214 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 2·197 | 2·207 | 2·232 | 2·244 | 2·272 | 2·267 | 2·298 | 2·315 | 2·355 | 2·394 | 2·426 | 2·455 |
| | 19 | 2·693 | 2·713 | 2·713 | 2·717 | 2·709 | 2·706 | 2·688 | 2·661 | 2·628 | 2·602 | 2·597 | 2·585 |
| | 20 | 2·431 | 2·416 | 2·398 | 2·424 | 2·430 | 2·423 | 2·426 | 2·446 | 2·470 | 2·494 | 2·527 | 2·562 |
| | 21 | 2·724 | 2·720 | 2·721 | 2·718 | 2·705 | 2·692 | 2·674 | 2·658 | 2·628 | 2·608 | 2·570 | 2·560 |
| | 22 | 2·428 | 2·443 | 2·443 | 2·443 | 2·443 | 2·450 | 2·463 | 2·464 | 2·441 | 2·440 | 2·446 | 2·463 |
| | 23 | 2·652 | 2·671 | 2·703 | 2·727 | 2·736 | 2·746 | 2·739 | 2·729 | 2·712 | 2·705 | 2·693 | 2·692 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 2·502 | 2·534 | 2·563 | 2·608 | 2·641 | 2·685 | 2·722 | 2·739 | 2·724 | 2·713 | 2·712 | 2·717 |
| | 26 | 2·718 | 2·750 | 2·742 | 2·758 | 2·764 | 2·763 | 2·761 | 2·765 | 2·752 | 2·750 | 2·750 | 2·750 |
| | 27 | 2·763 | 2·779 | 2·774 | 2·794 | 2·774 | 2·774 | 2·758 | 2·719 | 2·677 | 2·661 | 2·635 | 2·639 |
| | 28 | 2·334 | 2·327 | 2·333 | 2·303 | 2·289 | 2·261 | 2·241 | 2·229 | 2·212 | 2·212 | 2·246 | 2·267 |
| | 29 | 2·856 | 2·882 | 2·913 | 2·894 | 2·921 | 2·925 | 2·923 | 2·902 | 2·912 | 2·872 | 2·864 | 2·852 |
| | 30 | 2·679 | 2·698 | 2·714 | 2·719 | 2·765 | 2·765 | 2·750 | 2·755 | 2·771 | 2·773 | 2·817 | 2·837 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2·6480 | 2·6617 | 2·6698 | 2·6726 | 2·6751 | 2·6699 | 2·6602 | 2·6470 | 2·6340 | 2·6263 | 2·6290 | 2·6315 | |
| APRIL. | 1 | 3·203 | 3·227 | 3·231 | 3·244 | 3·265 | 3·248 | 3·245 | 3·240 | 3·230 | 3·219 | 3·215 | 3·214 |
| | 2 | 3·224 | 3·236 | 3·243 | 3·224 | 3·211 | 3·199 | 3·175 | 3·164 | 3·136 | 3·096 | 3·064 | 3·027 |
| | 3 | 2·827 | 2·835 | 2·825 | 2·808 | 2·807 | 2·792 | 2·773 | 2·746 | 2·722 | 2·697 | 2·671 | 2·662 |
| | 4 | 2·625 | 2·624 | 2·606 | 2·591 | 2·567 | 2·544 | 2·533 | 2·495 | 2·491 | 2·500 | 2·554 | 2·596 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 2·907 | 2·917 | 2·955 | 2·927 | 2·936 | 2·948 | 2·962 | 2·938 | 2·938 | 2·931 | 2·929 | 2·941 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 2·630 | 2·610 | 2·587 | 2·571 | 2·546 | 2·565 | 2·540 | 2·522 | 2·499 | 2·470 | 2·466 | 2·483 |
| | 9 | 2·710 | 2·733 | 2·748 | 2·757 | 2·764 | 2·762 | 2·760 | 2·763 | 2·757 | 2·761 | 2·758 | 2·755 |
| | 10 | 2·821 | 2·832 | 2·835 | 2·829 | 2·808 | 2·798 | 2·789 | 2·772 | 2·744 | 2·735 | 2·725 | 2·714 |
| | 11 | 2·720 | 2·738 | 2·750 | 2·744 | 2·756 | 2·725 | 2·724 | 2·727 | 2·703 | 2·695 | 2·686 | 2·685 |
| | 12 | 2·790 | 2·806 | 2·812 | 2·823 | 2·830 | 2·827 | 2·827 | 2·839 | 2·824 | 2·817 | 2·811 | 2·817 |
| | 13 | 2·833 | 2·847 | 2·860 | 2·861 | 2·864 | 2·842 | 2·833 | 2·821 | 2·807 | 2·787 | 2·770 | 2·763 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 2·677 | 2·687 | 2·695 | 2·695 | 2·699 | 2·694 | 2·692 | 2·684 | 2·660 | 2·648 | 2·632 | 2·623 |
| | 16 | 2·507 | 2·502 | 2·532 | 2·534 | 2·556 | 2·546 | 2·545 | 2·552 | 2·580 | 2·572 | 2·571 | 2·577 |
| | 17 | 2·726 | 2·751 | 2·787 | 2·807 | 2·821 | 2·817 | 2·819 | 2·836 | 2·816 | 2·816 | 2·816 | 2·834 |
| | 18 | 2·950 | 2·962 | 2·962 | 2·968 | 2·965 | 2·952 | 2·940 | 2·928 | 2·905 | 2·889 | 2·872 | 2·866 |
| | 19 | 2·866 | 2·860 | 2·855 | 2·853 | 2·844 | 2·833 | 2·801 | 2·785 | 2·756 | 2·738 | 2·721 | 2·709 |
| | 20 | 2·663 | 2·679 | 2·677 | 2·669 | 2·658 | 2·638 | 2·615 | 2·600 | 2·579 | 2·564 | 2·552 | 2·548 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 2·728 | 2·728 | 2·736 | 2·750 | 2·762 | 2·750 | 2·748 | 2·756 | 2·740 | 2·718 | 2·709 | 2·715 |
| | 23 | 2·586 | 2·586 | 2·594 | 2·593 | 2·577 | 2·553 | 2·539 | 2·514 | 2·514 | 2·494 | 2·508 | 2·509 |
| | 24 | 2·476 | 2·464 | 2·464 | 2·463 | 2·446 | 2·417 | 2·390 | 2·371 | 2·378 | 2·383 | 2·394 | 2·454 |
| | 25 | 2·831 | 2·830 | 2·828 | 2·835 | 2·833 | 2·818 | 2·808 | 2·793 | 2·782 | 2·735 | 2·698 | 2·655 |
| | 26 | 2·432 | 2·422 | 2·410 | 2·408 | 2·442 | 2·445 | 2·485 | 2·505 | 2·537 | 2·563 | 2·597 | 2·632 |
| | 27 | 2·858 | 2·859 | 2·855 | 2·866 | 2·876 | 2·874 | 2·843 | 2·817 | 2·805 | 2·793 | 2·789 | 2·791 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 2·885 | 2·903 | 2·908 | 2·933 | 2·929 | 2·926 | 2·898 | 2·883 | 2·855 | 2·827 | 2·812 | 2·796 |
| | 30 | 2·789 | 2·789 | 2·782 | 2·761 | 2·737 | 2·727 | 2·681 | 2·649 | 2·628 | 2·589 | 2·562 | 2·542 |
| Hourly Means | 2·7706 | 2·7771 | 2·7815 | 2·7806 | 2·7799 | 2·7696 | 2·7586 | 2·7480 | 2·7354 | 2·7215 | 2·7133 | 2·7163 | |

^a Good Friday.

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English Inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.333 | 2.345 | 2.345 | 2.337 | 2.335 | 2.339 | 2.345 | 2.355 | 2.383 | 2.401 | 2.413 | 2.413 | 2.4289 |
| 2.443 | 2.477 | 2.510 | 2.521 | 2.551 | 2.554 | — | — | — | — | — | — | 2.5023 |
| — | — | — | — | — | — | 2.590 | 2.616 | 2.637 | 2.665 | 2.695 | 2.721 | 2.721 |
| 3.022 | 3.042 | 3.055 | 3.066 | 3.068 | 3.085 | 3.089 | 3.094 | 3.093 | 3.096 | 3.121 | 3.123 | 3.0020 |
| 3.024 | 3.042 | 3.056 | 3.058 | 3.068 | 3.068 | 3.072 | 3.080 | 3.088 | 3.094 | 3.116 | 3.120 | 3.0751 |
| 3.037 | 3.032 | 3.028 | 3.020 | 3.020 | 3.015 | 3.015 | 3.013 | 3.005 | 2.991 | 2.991 | 2.991 | 3.0640 |
| 2.882 | 2.872 | 2.872 | 2.860 | 2.836 | 2.817 | 2.807 | 2.792 | 2.757 | 2.740 | 2.721 | 2.700 | 2.8851 |
| 2.359 | 2.373 | 2.397 | 2.421 | 2.447 | 2.463 | 2.489 | 2.517 | 2.525 | 2.545 | 2.569 | 2.586 | 2.4961 |
| 2.669 | 2.669 | 2.669 | 2.674 | 2.673 | 2.677 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.762 | 2.770 | 2.767 | 2.792 | 2.796 | 2.808 | 2.6934 |
| 2.764 | 2.753 | 2.752 | 2.728 | 2.724 | 2.705 | 2.699 | 2.697 | 2.680 | 2.668 | 2.660 | 2.674 | 2.7590 |
| 2.433 | 2.421 | 2.407 | 2.393 | 2.369 | 2.363 | 2.331 | 2.316 | 2.283 | 2.273 | 2.273 | 2.274 | 2.4506 |
| 2.653 | 2.673 | 2.708 | 2.731 | 2.750 | 2.766 | 2.796 | 2.825 | 2.844 | 2.838 | 2.823 | 2.819 | 2.6133 |
| 2.827 | 2.807 | 2.796 | 2.782 | 2.768 | 2.743 | 2.725 | 2.710 | 2.690 | 2.663 | 2.639 | 2.627 | 2.8088 |
| 2.412 | 2.403 | 2.409 | 2.404 | 2.394 | 2.376 | 2.369 | 2.353 | 2.331 | 2.325 | 2.308 | 2.289 | 2.4448 |
| 2.217 | 2.227 | 2.221 | 2.221 | 2.221 | 2.223 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.166 | 2.181 | 2.187 | 2.195 | 2.198 | 2.196 | 2.2223 |
| 2.479 | 2.498 | 2.524 | 2.544 | 2.550 | 2.551 | 2.573 | 2.597 | 2.613 | 2.631 | 2.653 | 2.683 | 2.4399 |
| 2.581 | 2.589 | 2.589 | 2.586 | 2.566 | 2.540 | 2.527 | 2.505 | 2.487 | 2.449 | 2.437 | 2.432 | 2.5958 |
| 2.594 | 2.624 | 2.660 | 2.688 | 2.705 | 2.693 | 2.694 | 2.704 | 2.704 | 2.702 | 2.712 | 2.729 | 2.5690 |
| 2.544 | 2.536 | 2.525 | 2.536 | 2.530 | 2.526 | 2.502 | 2.491 | 2.477 | 2.455 | 2.452 | 2.436 | 2.5828 |
| 2.475 | 2.480 | 2.492 | 2.509 | 2.520 | 2.531 | 2.560 | 2.581 | 2.574 | 2.583 | 2.606 | 2.616 | 2.4956 |
| 2.708 | 2.708 | 2.713 | 2.717 | 2.707 | 2.706 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.447 | 2.449 | 2.442 | 2.444 | 2.456 | 2.468 | 2.6446 |
| 2.728 | 2.722 | 2.719 | 2.719 | 2.720 | 2.720 | 2.707 | 2.715 | 2.700 | 2.688 | 2.706 | 2.700 | 2.6835 |
| 2.752 | 2.751 | 2.745 | 2.750 | 2.744 | 2.758 | 2.745 | 2.735 | 2.733 | 2.725 | 2.731 | 2.755 | 2.7478 |
| 2.616 | 2.585 | 2.574 | 2.550 | 2.528 | 2.520 | 2.482 | 2.438 | 2.398 | 2.374 | 2.361 | 2.355 | 2.6053 |
| 2.323 | 2.381 | 2.450 | 2.510 | 2.538 | 2.583 | 2.606 | 2.662 | 2.706 | 2.740 | 2.763 | 2.793 | 2.4295 |
| 2.826 | 2.801 | 2.825 | 2.832 | 2.805 | 2.769 | 2.735 | 2.715 | 2.685 | 2.687 | 2.650 | 2.639 | 2.8202 |
| 2.877 | 2.920 | 2.948 | 2.980 | 3.010 | 3.032 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 3.144 | 3.145 | 3.146 | 3.158 | 3.171 | 3.191 | 2.9069 |
| 2.6376 | 2.6435 | 2.6534 | 2.6591 | 2.6595 | 2.6586 | 2.6530 | 2.6560 | 2.6513 | 2.6508 | 2.6547 | 2.6592 | 2.6526 |
| 3.206 | 3.203 | 3.208 | 3.209 | 3.200 | 3.199 | 3.186 | 3.178 | 3.178 | 3.186 | 3.184 | 3.196 | 3.2131 |
| 2.998 | 2.950 | 2.918 | 2.915 | 2.931 | 2.923 | 2.915 | 2.899 | 2.877 | 2.859 | 2.847 | 2.827 | 3.0357 |
| 2.660 | 2.656 | 2.656 | 2.650 | 2.635 | 2.628 | 2.615 | 2.605 | 2.594 | 2.603 | 2.603 | 2.613 | 2.6951 |
| 2.615 | 2.650 | 2.670 | 2.681 | 2.693 | 2.712 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.940 | 2.948 | 2.928 | 2.922 | 2.907 | 2.907 | 2.6791 |
| 2.941 | 2.937 | 2.951 | 2.940 | 2.926 | 2.930 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.696 | 2.671 | 2.651 | 2.650 | 2.630 | 2.622 | 2.8656 |
| 2.501 | 2.505 | 2.533 | 2.534 | 2.565 | 2.597 | 2.617 | 2.627 | 2.635 | 2.642 | 2.660 | 2.670 | 2.5656 |
| 2.752 | 2.754 | 2.773 | 2.782 | 2.784 | 2.781 | 2.775 | 2.761 | 2.762 | 2.766 | 2.769 | 2.781 | 2.7612 |
| 2.702 | 2.704 | 2.711 | 2.704 | 2.703 | 2.705 | 2.712 | 2.706 | 2.703 | 2.702 | 2.694 | 2.701 | 2.7437 |
| 2.687 | 2.693 | 2.703 | 2.708 | 2.708 | 2.720 | 2.722 | 2.731 | 2.737 | 2.743 | 2.758 | 2.759 | 2.7218 |
| 2.811 | 2.812 | 2.820 | 2.827 | 2.833 | 2.832 | 2.833 | 2.820 | 2.821 | 2.816 | 2.812 | 2.821 | 2.8200 |
| 2.752 | 2.749 | 2.754 | 2.744 | 2.743 | 2.733 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.661 | 2.657 | 2.652 | 2.652 | 2.662 | 2.663 | 2.7629 |
| 2.615 | 2.614 | 2.618 | 2.622 | 2.605 | 2.575 | 2.537 | 2.510 | 2.498 | 2.502 | 2.501 | 2.501 | 2.6160 |
| 2.571 | 2.570 | 2.584 | 2.576 | 2.582 | 2.597 | 2.605 | 2.608 | 2.615 | 2.643 | 2.662 | 2.689 | 2.5782 |
| 2.827 | 2.842 | 2.863 | 2.866 | 2.867 | 2.870 | 2.878 | 2.882 | 2.887 | 2.908 | 2.923 | 2.942 | 2.8417 |
| 2.856 | 2.848 | 2.851 | 2.853 | 2.860 | 2.860 | 2.864 | 2.857 | 2.856 | 2.849 | 2.851 | 2.842 | 2.8919 |
| 2.699 | 2.686 | 2.685 | 2.682 | 2.674 | 2.680 | 2.672 | 2.664 | 2.657 | 2.650 | 2.644 | 2.643 | 2.7357 |
| 2.540 | 2.540 | 2.541 | 2.536 | 2.534 | 2.535 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.680 | 2.673 | 2.673 | 2.684 | 2.680 | 2.679 | 2.6140 |
| 2.709 | 2.662 | 2.665 | 2.661 | 2.657 | 2.639 | 2.635 | 2.609 | 2.596 | 2.580 | 2.556 | 2.550 | 2.6816 |
| 2.517 | 2.516 | 2.535 | 2.543 | 2.543 | 2.538 | 2.530 | 2.524 | 2.529 | 2.499 | 2.481 | 2.489 | 2.5338 |
| 2.464 | 2.520 | 2.618 | 2.647 | 2.673 | 2.711 | 2.748 | 2.776 | 2.811 | 2.809 | 2.810 | 2.824 | 2.5630 |
| 2.616 | 2.594 | 2.574 | 2.582 | 2.569 | 2.543 | 2.508 | 2.470 | 2.483 | 2.481 | 2.426 | 2.402 | 2.6539 |
| 2.653 | 2.680 | 2.714 | 2.759 | 2.769 | 2.799 | 2.797 | 2.803 | 2.815 | 2.823 | 2.830 | 2.843 | 2.6318 |
| 2.766 | 2.764 | 2.759 | 2.761 | 2.751 | 2.744 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.800 | 2.798 | 2.806 | 2.821 | 2.843 | 2.850 | 2.8124 |
| 2.785 | 2.802 | 2.821 | 2.820 | 2.809 | 2.803 | 2.796 | 2.788 | 2.787 | 2.782 | 2.773 | 2.781 | 2.8376 |
| 2.523 | 2.520 | 2.491 | 2.479 | 2.484 | 2.482 | 2.462 | 2.452 | 2.443 | 2.441 | 2.444 | 2.444 | 2.5792 |
| 2.7106 | 2.7108 | 2.7206 | 2.7232 | 2.7239 | 2.7254 | 2.7274 | 2.7207 | 2.7198 | 2.7205 | 2.7180 | 2.7219 | 2.7374 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. } | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MAY. | 1 | 2.461 | 2.467 | 2.458 | 2.460 | 2.457 | 2.435 | 2.418 | 2.398 | 2.373 | 2.365 | 2.338 | 2.322 |
| | 2 | 2.266 | 2.276 | 2.298 | 2.288 | 2.269 | 2.268 | 2.257 | 2.271 | 2.254 | 2.247 | 2.243 | 2.241 |
| | 3 | 2.397 | 2.399 | 2.396 | 2.413 | 2.394 | 2.385 | 2.373 | 2.355 | 2.346 | 2.334 | 2.318 | 2.306 |
| | 4 | 2.381 | 2.382 | 2.384 | 2.384 | 2.384 | 2.354 | 2.353 | 2.345 | 2.349 | 2.347 | 2.367 | 2.379 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 2.187 | 2.156 | 2.129 | 2.105 | 2.106 | 2.083 | 2.078 | 2.062 | 2.063 | 2.060 | 2.058 | 2.052 |
| | 7 | 2.452 | 2.479 | 2.502 | 2.527 | 2.547 | 2.548 | 2.540 | 2.524 | 2.523 | 2.528 | 2.518 | 2.519 |
| | 8 | 2.346 | 2.335 | 2.349 | 2.341 | 2.370 | 2.373 | 2.361 | 2.357 | 2.372 | 2.392 | 2.437 | 2.490 |
| | 9 | 2.763 | 2.787 | 2.797 | 2.796 | 2.798 | 2.797 | 2.797 | 2.793 | 2.786 | 2.795 | 2.814 | 2.826 |
| | 10 | 3.044 | 3.048 | 3.035 | 3.036 | 3.037 | 3.045 | 2.999 | 2.977 | 2.947 | 2.899 | 2.845 | 2.829 |
| | 11 | 2.512 | 2.520 | 2.511 | 2.455 | 2.459 | 2.440 | 2.408 | 2.415 | 2.396 | 2.358 | 2.354 | 2.322 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 2.894 | 2.906 | 2.914 | 2.913 | 2.911 | 2.886 | 2.861 | 2.841 | 2.791 | 2.768 | 2.752 | 2.702 |
| | 14 | 2.618 | 2.664 | 2.673 | 2.700 | 2.724 | 2.721 | 2.725 | 2.756 | 2.770 | 2.769 | 2.776 | 2.789 |
| | 15 | 2.854 | 2.853 | 2.846 | 2.829 | 2.821 | 2.790 | 2.757 | 2.744 | 2.701 | 2.671 | 2.644 | 2.619 |
| | 16 | 2.505 | 2.531 | 2.538 | 2.537 | 2.538 | 2.535 | 2.537 | 2.538 | 2.525 | 2.514 | 2.495 | 2.479 |
| | 17 | 2.619 | 2.641 | 2.661 | 2.661 | 2.709 | 2.674 | 2.693 | 2.693 | 2.672 | 2.664 | 2.673 | 2.667 |
| | 18 | 2.640 | 2.640 | 2.632 | 2.622 | 2.621 | 2.580 | 2.612 | 2.617 | 2.617 | 2.623 | 2.633 | 2.642 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 2.459 | 2.449 | 2.429 | 2.415 | 2.404 | 2.401 | 2.398 | 2.381 | 2.379 | 2.403 | 2.403 | 2.412 |
| | 21 | 2.717 | 2.734 | 2.758 | 2.772 | 2.790 | 2.797 | 2.796 | 2.795 | 2.797 | 2.797 | 2.795 | 2.798 |
| | 22 | 2.940 | 2.949 | 2.952 | 2.941 | 2.931 | 2.913 | 2.896 | 2.885 | 2.864 | 2.851 | 2.829 | 2.834 |
| | 23 | 2.887 | 2.906 | 2.915 | 2.914 | 2.907 | 2.895 | 2.874 | 2.864 | 2.836 | 2.813 | 2.809 | 2.812 |
| | 24 | 2.881 | 2.891 | 2.883 | 2.875 | 2.859 | 2.855 | 2.816 | 2.796 | 2.774 | 2.760 | 2.730 | 2.715 |
| | 25 | 2.620 | 2.624 | 2.614 | 2.612 | 2.591 | 2.581 | 2.560 | 2.530 | 2.510 | 2.480 | 2.461 | 2.441 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 2.367 | 2.367 | 2.379 | 2.371 | 2.361 | 2.347 | 2.332 | 2.315 | — | — | 2.295 | 2.295 |
| | 28 | 2.471 | 2.480 | 2.494 | 2.494 | 2.516 | 2.521 | 2.530 | 2.518 | 2.515 | 2.515 | 2.515 | 2.516 |
| | 29 | 2.669 | 2.687 | 2.687 | 2.679 | 2.679 | 2.676 | 2.657 | 2.634 | 2.604 | 2.580 | 2.564 | 2.540 |
| | 30 | 2.225 | 2.226 | 2.206 | 2.174 | 2.152 | 2.130 | 2.140 | 2.133 | 2.123 | 2.104 | 2.099 | 2.087 |
| | 31 | 2.035 | 2.081 | 2.139 | 2.179 | 2.212 | 2.251 | 2.275 | 2.312 | 2.331 | 2.349 | 2.376 | 2.392 |
| Hourly Means | 2.5633 | 2.5733 | 2.5770 | 2.5738 | 2.5758 | 2.5660 | 2.5557 | 2.5500 | 2.5468 | 2.5379 | 2.5237 | 2.5195 | |
| JUNE. | 1 | 2.542 | 2.554 | 2.549 | 2.521 | 2.487 | 2.474 | 2.449 | 2.432 | 2.428 | 2.485 | 2.398 | 2.374 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 2.727 | 2.731 | 2.733 | 2.730 | 2.735 | 2.733 | 2.747 | 2.743 | 2.725 | 2.704 | 2.697 | 2.700 |
| | 4 | 2.675 | 2.683 | 2.683 | 2.680 | 2.685 | 2.693 | 2.693 | 2.686 | 2.682 | 2.667 | 2.636 | 2.639 |
| | 5 | 2.575 | 2.571 | 2.571 | 2.549 | 2.537 | 2.532 | 2.514 | 2.503 | 2.481 | 2.480 | 2.482 | 2.472 |
| | 6 | 2.382 | 2.382 | 2.403 | 2.432 | 2.438 | 2.473 | 2.488 | 2.507 | 2.526 | 2.545 | 2.567 | 2.571 |
| | 7 | 2.561 | 2.561 | 2.548 | 2.524 | 2.516 | 2.497 | 2.493 | 2.480 | 2.472 | 2.480 | 2.513 | 2.528 |
| | 8 | 2.828 | 2.834 | 2.835 | 2.837 | 2.834 | 2.818 | 2.794 | 2.779 | 2.775 | 2.725 | 2.713 | 2.700 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 2.606 | 2.620 | 2.627 | 2.630 | 2.632 | 2.646 | 2.656 | 2.672 | 2.684 | 2.706 | 2.729 | 2.749 |
| | 11 | 3.018 | 3.042 | 3.046 | 3.042 | 3.033 | 3.020 | 3.008 | 2.994 | 2.982 | 2.971 | 2.954 | 2.955 |
| | 12 | 3.021 | 3.036 | 3.035 | 3.038 | 3.021 | 3.000 | 2.989 | 2.966 | 2.947 | 2.917 | 2.907 | 2.895 |
| | 13 | 2.782 | 2.778 | 2.778 | 2.779 | 2.773 | 2.773 | 2.764 | 2.747 | 2.730 | 2.720 | 2.718 | 2.713 |
| | 14 | 2.779 | 2.791 | 2.800 | 2.817 | 2.831 | 2.831 | 2.830 | 2.828 | 2.823 | 2.818 | 2.812 | 2.797 |
| | 15 | 2.877 | 2.881 | 2.889 | 2.907 | 2.909 | 2.902 | 2.899 | 2.881 | 2.873 | 2.864 | 2.859 | 2.845 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 2.524 | 2.516 | 2.504 | 2.488 | 2.484 | 2.473 | 2.466 | 2.448 | 2.434 | 2.420 | 2.402 | 2.375 |
| | 18 | 2.352 | 2.364 | 2.372 | 2.374 | 2.371 | 2.379 | 2.380 | 2.376 | 2.373 | 2.369 | 2.366 | 2.354 |
| | 19 | 2.376 | 2.364 | 2.368 | 2.356 | 2.318 | 2.291 | 2.223 | 2.219 | 2.240 | 2.261 | 2.279 | 2.320 |
| | 20 | 2.517 | 2.535 | 2.528 | 2.529 | 2.545 | 2.545 | 2.548 | 2.546 | 2.548 | 2.544 | 2.544 | 2.548 |
| | 21 | 2.628 | 2.638 | 2.638 | 2.636 | 2.644 | 2.654 | 2.641 | 2.630 | 2.620 | 2.614 | 2.603 | 2.593 |
| | 22 | 2.599 | 2.609 | 2.601 | 2.609 | 2.609 | 2.609 | 2.602 | 2.584 | 2.568 | 2.561 | 2.560 | 2.561 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 2.478 | 2.468 | 2.451 | 2.437 | 2.424 | 2.413 | 2.408 | 2.395 | 2.367 | 2.355 | 2.354 | 2.358 |
| | 25 | 2.375 | 2.386 | 2.396 | 2.396 | 2.395 | 2.385 | 2.376 | 2.373 | 2.364 | 2.364 | 2.359 | 2.372 |
| | 26 | 2.576 | 2.575 | 2.597 | 2.609 | 2.605 | 2.607 | 2.612 | 2.613 | 2.607 | 2.601 | 2.569 | 2.555 |
| | 27 | 2.509 | 2.512 | 2.514 | 2.488 | 2.478 | 2.444 | 2.410 | 2.381 | 2.373 | 2.343 | 2.315 | 2.279 |
| | 28 | 2.450 | 2.480 | 2.504 | 2.524 | 2.564 | 2.582 | 2.695 | 2.617 | 2.632 | 2.640 | 2.638 | 2.654 |
| | 29 | 2.839 | 2.857 | 2.861 | 2.856 | 2.860 | 2.853 | 2.852 | 2.835 | 2.815 | 2.787 | 2.782 | 2.759 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2.6238 | 2.6307 | 2.6332 | 2.6315 | 2.6291 | 2.6251 | 2.6215 | 2.6094 | 2.6028 | 2.5976 | 2.5904 | 2.5866 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English Inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.292 | 2.272 | 2.254 | 2.243 | 2.258 | 2.273 | 2.266 | 2.280 | 2.280 | 2.278 | 2.278 | 2.278 | 2.3419 |
| 2.255 | 2.257 | 2.276 | 2.305 | 2.346 | 2.392 | 2.349 | 2.351 | 2.359 | 2.371 | 2.386 | 2.387 | 2.3005 |
| 2.308 | 2.326 | 2.316 | 2.347 | 2.327 | 2.333 | 2.339 | 2.346 | 2.338 | 2.350 | 2.368 | 2.379 | 2.3539 |
| 2.384 | 2.393 | 2.424 | 2.440 | — | — | — | — | — | — | — | — | 2.3620 |
| — | — | — | — | — | — | 2.374 | 2.365 | 2.331 | 2.324 | 2.286 | 2.235 | — |
| 2.050 | 2.051 | 2.085 | 2.135 | 2.165 | 2.190 | 2.252 | 2.301 | 2.335 | 2.364 | 2.396 | 2.426 | 2.1620 |
| 2.522 | 2.524 | 2.522 | 2.523 | 2.494 | 2.485 | 2.466 | 2.429 | 2.407 | 2.398 | 2.380 | 2.360 | 2.4882 |
| 2.538 | 2.574 | 2.597 | 2.618 | 2.632 | 2.644 | 2.653 | 2.661 | 2.673 | 2.684 | 2.701 | 2.729 | 2.5095 |
| 2.850 | 2.878 | 2.910 | 2.937 | 2.948 | 2.953 | 2.969 | 2.964 | 2.981 | 3.003 | 3.008 | 3.025 | 2.8750 |
| 2.811 | 2.792 | 2.779 | 2.748 | 2.718 | 2.684 | 2.639 | 2.570 | 2.536 | 2.560 | 2.542 | 2.524 | 2.8185 |
| 2.333 | 2.327 | 2.377 | 2.397 | 2.427 | 2.452 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.811 | 2.818 | 2.810 | 2.833 | 2.843 | 2.893 | 2.5196 |
| 2.629 | 2.605 | 2.622 | 2.544 | 2.556 | 2.517 | 2.499 | 2.501 | 2.501 | 2.505 | 2.539 | 2.551 | 2.6962 |
| 2.788 | 2.789 | 2.795 | 2.826 | 2.834 | 2.844 | 2.845 | 2.849 | 2.844 | 2.843 | 2.848 | 2.858 | 2.7770 |
| 2.599 | 2.597 | 2.612 | 2.597 | 2.580 | 2.566 | 2.535 | 2.527 | 2.520 | 2.517 | 2.506 | 2.520 | 2.6585 |
| 2.470 | 2.463 | 2.498 | 2.519 | 2.528 | 2.519 | 2.523 | 2.527 | 2.524 | 2.526 | 2.545 | 2.575 | 2.5204 |
| 2.668 | 2.668 | 2.683 | 2.679 | 2.675 | 2.670 | 2.662 | 2.661 | 2.637 | 2.631 | 2.623 | 2.632 | 2.6632 |
| 2.656 | 2.685 | 2.717 | 2.756 | 2.771 | 2.771 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.615 | 2.577 | 2.554 | 2.533 | 2.503 | 2.483 | 2.6292 |
| 2.443 | 2.485 | 2.510 | 2.513 | 2.516 | 2.537 | 2.556 | 2.590 | 2.607 | 2.620 | 2.662 | 2.696 | 2.4862 |
| 2.804 | 2.810 | 2.834 | 2.864 | 2.876 | 2.873 | 2.883 | 2.892 | 2.894 | 2.896 | 2.903 | 2.919 | 2.8247 |
| 2.822 | 2.812 | 2.826 | 2.834 | 2.841 | 2.843 | 2.844 | 2.849 | 2.849 | 2.854 | 2.867 | 2.889 | 2.8715 |
| 2.816 | 2.828 | 2.849 | 2.663 | 2.867 | 2.868 | 2.862 | 2.860 | 2.858 | 2.863 | 2.870 | 2.871 | 2.8628 |
| 2.712 | 2.693 | 2.684 | 2.676 | 2.672 | 2.676 | 2.674 | 2.642 | 2.632 | 2.622 | 2.618 | 2.620 | 2.7398 |
| 2.417 | 2.403 | 2.408 | 2.402 | 2.407 | 2.378 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.310 | 2.307 | 2.303 | 2.304 | 2.318 | 2.326 | 2.4545 |
| 2.303 | 2.329 | 2.359 | 2.365 | 2.374 | 2.379 | 2.407 | 2.410 | 2.416 | 2.420 | 2.427 | 2.449 | 2.3667 |
| 2.538 | 2.545 | 2.565 | 2.582 | 2.589 | 2.590 | 2.597 | 2.605 | 2.625 | 2.644 | 2.658 | 2.659 | 2.5534 |
| 2.516 | 2.498 | 2.478 | 2.479 | 2.462 | 2.445 | 2.416 | 2.372 | 2.345 | 2.333 | 2.281 | 2.249 | 2.5221 |
| 2.081 | 2.061 | 2.049 | 2.079 | 2.044 | 2.006 | 2.012 | 1.988 | 1.978 | 1.976 | 1.966 | 1.985 | 2.0843 |
| 2.407 | 2.425 | 2.454 | 2.477 | 2.497 | 2.511 | 2.512 | 2.514 | 2.522 | 2.527 | 2.537 | 2.542 | 2.3690 |
| 2.5190 | 2.5219 | 2.5364 | 2.5462 | 2.5540 | 2.5538 | 2.5507 | 2.5465 | 2.5429 | 2.5474 | 2.5503 | 2.5578 | 2.5496 |
| 2.367 | 2.368 | 2.354 | 2.379 | 2.405 | 2.468 | — | — | — | — | — | — | 2.5071 |
| — | — | — | — | — | — | 2.681 | 2.682 | 2.685 | 2.688 | 2.698 | 2.703 | — |
| 2.658 | 2.658 | 2.663 | 2.684 | 2.686 | 2.681 | 2.683 | 2.691 | 2.680 | 2.664 | 2.665 | 2.658 | 2.6990 |
| 2.629 | 2.622 | 2.618 | 2.635 | 2.619 | 2.622 | 2.619 | 2.618 | 2.606 | 2.593 | 2.583 | 2.583 | 2.6437 |
| 2.466 | 2.467 | 2.444 | 2.434 | 2.428 | 2.426 | 2.425 | 2.419 | 2.411 | 2.387 | 2.377 | 2.375 | 2.4719 |
| 2.590 | 2.618 | 2.610 | 2.608 | 2.609 | 2.593 | 2.584 | 2.589 | 2.586 | 2.582 | 2.581 | 2.575 | 2.5350 |
| 2.562 | 2.598 | 2.617 | 2.662 | 2.691 | 2.698 | 2.735 | 2.740 | 2.751 | 2.758 | 2.785 | 2.818 | 2.6078 |
| 2.677 | 2.683 | 2.692 | 2.657 | 2.649 | 2.603 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.545 | 2.553 | 2.554 | 2.561 | 2.555 | 2.580 | 2.6992 |
| 2.775 | 2.801 | 2.829 | 2.848 | 2.864 | 2.881 | 2.917 | 2.922 | 2.944 | 2.963 | 2.988 | 3.002 | 2.7788 |
| 2.949 | 2.963 | 2.963 | 2.971 | 2.976 | 2.985 | 2.983 | 2.982 | 2.986 | 2.993 | 2.996 | 3.001 | 2.9922 |
| 2.879 | 2.868 | 2.853 | 2.859 | 2.845 | 2.842 | 2.832 | 2.805 | 2.796 | 2.783 | 2.777 | 2.784 | 2.9040 |
| 2.713 | 2.713 | 2.710 | 2.718 | 2.728 | 2.729 | 2.730 | 2.726 | 2.727 | 2.734 | 2.749 | 2.767 | 2.7416 |
| 2.811 | 2.817 | 2.818 | 2.844 | 2.855 | 2.863 | 2.864 | 2.859 | 2.856 | 2.862 | 2.867 | 2.872 | 2.8310 |
| 2.837 | 2.823 | 2.831 | 2.822 | 2.821 | 2.823 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.582 | 2.560 | 2.533 | 2.529 | 2.529 | 2.521 | 2.7832 |
| 2.369 | 2.359 | 2.361 | 2.364 | 2.351 | 2.347 | 2.329 | 2.322 | 2.316 | 2.320 | 2.328 | 2.336 | 2.4015 |
| 2.357 | 2.356 | 2.365 | 2.380 | 2.376 | 2.391 | 2.403 | 2.425 | 2.427 | 2.381 | 2.382 | 2.382 | 2.3773 |
| 2.357 | 2.368 | 2.402 | 2.435 | 2.448 | 2.463 | 2.465 | 2.466 | 2.476 | 2.479 | 2.487 | 2.508 | 2.3737 |
| 2.562 | 2.568 | 2.576 | 2.591 | 2.596 | 2.603 | 2.605 | 2.608 | 2.599 | 2.598 | 2.599 | 2.613 | 2.5665 |
| 2.577 | 2.577 | 2.595 | 2.608 | 2.613 | 2.608 | 2.604 | 2.595 | 2.582 | 2.577 | 2.580 | 2.574 | 2.6097 |
| 2.571 | 2.563 | 2.566 | 2.578 | 2.590 | 2.595 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.518 | 2.505 | 2.492 | 2.481 | 2.481 | 2.482 | 2.5622 |
| 2.366 | 2.372 | 2.385 | 2.397 | 2.417 | 2.414 | 2.409 | 2.393 | 2.375 | 2.377 | 2.375 | 2.377 | 2.3985 |
| 2.385 | 2.404 | 2.432 | 2.453 | 2.460 | 2.475 | 2.477 | 2.488 | 2.510 | 2.514 | 2.532 | 2.561 | 2.4263 |
| 2.558 | 2.564 | 2.568 | 2.566 | 2.557 | 2.553 | 2.547 | 2.541 | 2.536 | 2.528 | 2.531 | 2.518 | 2.5705 |
| 2.289 | 2.289 | 2.281 | 2.283 | 2.277 | 2.273 | 2.273 | 2.287 | 2.335 | 2.377 | 2.399 | 2.434 | 2.3685 |
| 2.666 | 2.696 | 2.714 | 2.749 | 2.758 | 2.781 | 2.787 | 2.794 | 2.790 | 2.805 | 2.812 | 2.818 | 2.6729 |
| 2.751 | 2.740 | 2.734 | 2.741 | 2.733 | 2.726 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.466 | 2.438 | 2.434 | 2.432 | 2.412 | 2.418 | 2.7075 |
| 2.5888 | 2.5942 | 2.5992 | 2.6106 | 2.6141 | 2.6177 | 2.6025 | 2.6003 | 2.5995 | 2.5986 | 2.6027 | 2.6104 | 2.6092 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 2.438 | 2.438 | 2.437 | 2.436 | 2.433 | 2.435 | 2.444 | 2.434 | 2.443 | 2.442 | 2.439 | 2.451 |
| | 2 | 2.548 | 2.554 | 2.555 | 2.546 | 2.525 | 2.510 | 2.490 | 2.464 | 2.457 | 2.451 | 2.454 | 2.474 |
| | 3 | 2.462 | 2.468 | 2.483 | 2.511 | 2.527 | 2.532 | 2.543 | 2.561 | 2.569 | 2.578 | 2.586 | 2.588 |
| | 4 | 2.826 | 2.840 | 2.856 | 2.857 | 2.862 | 2.861 | 2.864 | 2.840 | 2.836 | 2.812 | 2.801 | 2.785 |
| | 5 | 2.658 | 2.636 | 2.612 | 2.582 | 2.562 | 2.531 | 2.473 | 2.455 | 2.413 | 2.366 | 2.334 | 2.318 |
| | 6 | 2.327 | 2.342 | 2.346 | 2.357 | 2.363 | 2.374 | 2.370 | 2.359 | 2.367 | 2.488 | 2.409 | 2.413 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 2.702 | 2.716 | 2.716 | 2.716 | 2.707 | 2.704 | 2.688 | 2.658 | 2.649 | 2.624 | 2.613 | 2.596 |
| | 9 | 2.517 | 2.507 | 2.509 | 2.470 | 2.446 | 2.419 | 2.410 | 2.370 | 2.360 | 2.354 | 2.338 | 2.319 |
| | 10 | 2.164 | 2.175 | 2.194 | 2.197 | 2.197 | 2.206 | 2.215 | 2.230 | 2.246 | 2.260 | 2.276 | 2.298 |
| | 11 | 2.455 | 2.465 | 2.463 | 2.466 | 2.482 | 2.490 | 2.483 | 2.485 | 2.479 | 2.473 | 2.472 | 2.472 |
| | 12 | 2.623 | 2.635 | 2.605 | 2.615 | 2.629 | 2.634 | 2.623 | 2.620 | 2.607 | 2.591 | 2.583 | 2.562 |
| | 13 | 2.660 | 2.678 | 2.668 | 2.688 | 2.698 | 2.692 | 2.688 | 2.680 | 2.665 | 2.643 | 2.638 | 2.629 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 2.611 | 2.607 | 2.605 | 2.603 | 2.603 | 2.603 | 2.535 | 2.600 | 2.570 | 2.570 | 2.560 | 2.514 |
| | 16 | 2.327 | 2.320 | 2.320 | 2.316 | 2.336 | 2.357 | 2.367 | 2.390 | 2.397 | 2.409 | 2.421 | 2.426 |
| | 17 | 2.576 | 2.588 | 2.598 | 2.618 | 2.629 | 2.631 | 2.641 | 2.631 | 2.630 | 2.622 | 2.618 | 2.625 |
| | 18 | 2.630 | 2.628 | 2.620 | 2.617 | 2.586 | 2.593 | 2.569 | 2.546 | 2.505 | 2.463 | 2.449 | 2.435 |
| | 19 | 2.328 | 2.334 | 2.358 | 2.366 | 2.326 | 2.324 | 2.344 | 2.358 | 2.338 | 2.351 | 2.345 | 2.335 |
| | 20 | 2.403 | 2.418 | 2.424 | 2.433 | 2.433 | 2.434 | 2.438 | 2.446 | 2.443 | 2.441 | 2.437 | 2.446 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 2.643 | 2.642 | 2.644 | 2.629 | 2.622 | 2.617 | 2.607 | 2.594 | 2.561 | 2.578 | 2.591 | 2.575 |
| | 23 | 2.657 | 2.659 | 2.659 | 2.648 | 2.637 | 2.616 | 2.618 | 2.607 | 2.588 | 2.579 | 2.573 | 2.581 |
| | 24 | 2.608 | 2.612 | 2.632 | 2.634 | 2.634 | 2.639 | 2.625 | 2.623 | 2.619 | 2.610 | 2.602 | 2.594 |
| | 25 | 2.560 | 2.562 | 2.572 | 2.562 | 2.570 | 2.578 | 2.596 | 2.600 | 2.604 | 2.601 | 2.601 | 2.584 |
| | 26 | 2.654 | 2.670 | 2.676 | 2.684 | 2.688 | 2.693 | 2.691 | 2.690 | 2.690 | 2.689 | 2.688 | 2.698 |
| | 27 | 2.773 | 2.779 | 2.798 | 2.796 | 2.794 | 2.791 | 2.789 | 2.778 | 2.768 | 2.757 | 2.745 | 2.742 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 2.772 | 2.768 | 2.764 | 2.761 | 2.748 | 2.736 | 2.719 | 2.697 | 2.676 | 2.662 | 2.653 | 2.630 |
| | 30 | 2.585 | 2.599 | 2.593 | 2.589 | 2.575 | 2.561 | 2.545 | 2.531 | 2.503 | 2.494 | 2.464 | 2.450 |
| | 31 | 2.364 | 2.360 | 2.378 | 2.379 | 2.386 | 2.378 | 2.370 | 2.360 | 2.353 | 2.341 | 2.340 | 2.338 |
| Hourly Means | 2.5508 | 2.5555 | 2.5587 | 2.5583 | 2.5554 | 2.5533 | 2.5461 | 2.5410 | 2.5310 | 2.5277 | 2.5197 | 2.5140 | |
| AUGUST. | 1 | 2.460 | 2.504 | 2.507 | 2.509 | 2.522 | 2.540 | 2.539 | 2.538 | 2.535 | 2.528 | 2.522 | 2.525 |
| | 2 | 2.723 | 2.723 | 2.733 | 2.754 | 2.765 | 2.764 | 2.768 | 2.763 | 2.743 | 2.723 | 2.713 | 2.707 |
| | 3 | 2.674 | 2.651 | 2.663 | 2.641 | 2.646 | 2.630 | 2.595 | 2.562 | 2.538 | 2.498 | 2.463 | 2.451 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 2.581 | 2.571 | 2.569 | 2.560 | 2.556 | 2.551 | 2.526 | 2.517 | 2.507 | 2.484 | 2.473 | 2.456 |
| | 6 | 2.350 | 2.353 | 2.354 | 2.361 | 2.371 | 2.363 | 2.378 | 2.373 | 2.373 | 2.390 | 2.410 | 2.426 |
| | 7 | 2.551 | 2.551 | 2.550 | 2.554 | 2.547 | 2.535 | 2.533 | 2.520 | 2.518 | 2.518 | 2.522 | 2.524 |
| | 8 | 2.503 | 2.529 | 2.545 | 2.545 | 2.553 | 2.558 | 2.557 | 2.568 | 2.560 | 2.553 | 2.539 | 2.532 |
| | 9 | 2.256 | 2.246 | 2.218 | 2.224 | 2.235 | 2.246 | 2.256 | 2.260 | 2.213 | 2.246 | 2.229 | 2.236 |
| | 10 | 2.480 | 2.500 | 2.511 | 2.518 | 2.519 | 2.521 | 2.519 | 2.499 | 2.492 | 2.492 | 2.503 | 2.507 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 2.729 | 2.737 | 2.743 | 2.738 | 2.741 | 2.734 | 2.734 | 2.733 | 2.723 | 2.718 | 2.695 | 2.697 |
| | 13 | 2.696 | 2.707 | 2.717 | 2.716 | 2.705 | 2.690 | 2.685 | 2.673 | 2.653 | 2.652 | 2.638 | 2.632 |
| | 14 | 2.649 | 2.649 | 2.665 | 2.671 | 2.687 | 2.685 | 2.670 | 2.666 | 2.647 | 2.656 | 2.663 | 2.661 |
| | 15 | 2.687 | 2.701 | 2.705 | 2.716 | 2.707 | 2.701 | 2.700 | 2.678 | 2.663 | 2.653 | 2.632 | 2.614 |
| | 16 | 2.591 | 2.577 | 2.583 | 2.591 | 2.604 | 2.591 | 2.562 | 2.547 | 2.538 | 2.527 | 2.514 | 2.501 |
| | 17 | 2.613 | 2.612 | 2.624 | 2.641 | 2.639 | 2.636 | 2.635 | 2.635 | 2.630 | 2.638 | 2.641 | 2.649 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 2.562 | 2.574 | 2.574 | 2.576 | 2.590 | 2.578 | 2.571 | 2.565 | 2.563 | 2.564 | 2.561 | 2.599 |
| | 20 | 2.673 | 2.699 | 2.713 | 2.757 | 2.775 | 2.791 | 2.813 | 2.833 | 2.821 | 2.807 | 2.801 | 2.803 |
| | 21 | 2.883 | 2.917 | 2.918 | 2.921 | 2.922 | 2.909 | 2.905 | 2.894 | 2.875 | 2.849 | 2.851 | 2.819 |
| | 22 | 2.577 | 2.541 | 2.511 | 2.477 | 2.421 | 2.403 | 2.349 | 2.313 | 2.275 | 2.256 | 2.253 | 2.272 |
| | 23 | 2.157 | 2.167 | 2.167 | 2.177 | 2.179 | 2.165 | 2.166 | 2.174 | 2.169 | 2.157 | 2.164 | 2.182 |
| | 24 | 2.178 | 2.176 | 2.168 | 2.163 | 2.152 | 2.126 | 2.126 | 2.129 | 2.136 | 2.140 | 2.151 | 2.170 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 2.299 | 2.327 | 2.331 | 2.333 | 2.340 | 2.332 | 2.329 | 2.330 | 2.335 | 2.335 | 2.353 | 2.361 |
| | 27 | 2.368 | 2.372 | 2.375 | 2.378 | 2.382 | 2.384 | 2.382 | 2.375 | 2.370 | 2.352 | 2.364 | 2.362 |
| | 28 | 2.385 | 2.379 | 2.385 | 2.389 | 2.387 | 2.372 | 2.382 | 2.380 | 2.374 | 2.363 | 2.375 | 2.362 |
| | 29 | 2.466 | 2.484 | 2.496 | 2.509 | 2.513 | 2.514 | 2.502 | 2.509 | 2.508 | 2.520 | 2.519 | 2.531 |
| | 30 | 2.627 | 2.643 | 2.645 | 2.657 | 2.655 | 2.635 | 2.626 | 2.610 | 2.608 | 2.571 | 2.561 | 2.559 |
| | 31 | 2.592 | 2.616 | 2.614 | 2.618 | 2.622 | 2.629 | 2.629 | 2.627 | 2.627 | 2.614 | 2.624 | 2.628 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2.5300 | 2.5372 | 2.5401 | 2.5442 | 2.5457 | 2.5401 | 2.5347 | 2.5286 | 2.5183 | 2.5113 | 2.5087 | 2.5099 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English Inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.455 | 2.483 | 2.505 | 2.513 | 2.522 | 2.539 | 2.547 | 2.552 | 2.553 | 2.553 | 2.550 | 2.546 | 2.4828 |
| 2.468 | 2.462 | 2.463 | 2.465 | 2.452 | 2.448 | 2.446 | 2.452 | 2.457 | 2.463 | 2.451 | 2.455 | 2.4796 |
| 2.602 | 2.616 | 2.629 | 2.667 | 2.678 | 2.710 | 2.731 | 2.739 | 2.765 | 2.784 | 2.798 | 2.806 | 2.6222 |
| 2.771 | 2.766 | 2.759 | 2.763 | 2.755 | 2.758 | 2.762 | 2.745 | 2.720 | 2.709 | 2.693 | 2.679 | 2.7883 |
| 2.294 | 2.276 | 2.268 | 2.279 | 2.279 | 2.293 | 2.295 | 2.283 | 2.281 | 2.295 | 2.295 | 2.319 | 2.3915 |
| 2.435 | 2.457 | 2.468 | 2.507 | 2.513 | 2.521 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.654 | 2.662 | 2.668 | 2.661 | 2.672 | 2.687 | 2.4758 |
| 2.585 | 2.577 | 2.563 | 2.557 | 2.551 | 2.552 | 2.552 | 2.553 | 2.545 | 2.548 | 2.522 | 2.508 | 2.6126 |
| 2.295 | 2.287 | 2.270 | 2.268 | 2.250 | 2.246 | 2.217 | 2.203 | 2.191 | 2.165 | 2.159 | 2.157 | 2.3220 |
| 2.336 | 2.352 | 2.369 | 2.380 | 2.381 | 2.383 | 2.387 | 2.392 | 2.394 | 2.395 | 2.412 | 2.435 | 2.3031 |
| 2.483 | 2.492 | 2.499 | 2.512 | 2.532 | 2.529 | 2.544 | 2.557 | 2.560 | 2.560 | 2.573 | 2.610 | 2.5057 |
| 2.566 | 2.570 | 2.572 | 2.587 | 2.608 | 2.626 | 2.627 | 2.627 | 2.623 | 2.622 | 2.654 | 2.658 | 2.6111 |
| 2.633 | 2.633 | 2.619 | 2.626 | 2.627 | 2.613 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.575 | 2.568 | 2.564 | 2.565 | 2.572 | 2.586 | 2.6337 |
| 2.490 | 2.491 | 2.478 | 2.492 | 2.484 | 2.473 | 2.447 | 2.403 | 2.379 | 2.335 | 2.350 | 2.322 | 2.5052 |
| 2.430 | 2.451 | 2.463 | 2.483 | 2.499 | 2.504 | 2.519 | 2.527 | 2.525 | 2.530 | 2.537 | 2.562 | 2.4340 |
| 2.621 | 2.635 | 2.635 | 2.643 | 2.644 | 2.652 | 2.659 | 2.638 | 2.632 | 2.629 | 2.626 | 2.622 | 2.6268 |
| 2.435 | 2.404 | 2.391 | 2.371 | 2.355 | 2.441 | 2.329 | 2.312 | 2.308 | 2.320 | 2.312 | 2.316 | 2.4556 |
| 2.335 | 2.348 | 2.348 | 2.363 | 2.363 | 2.374 | 2.374 | 2.372 | 2.373 | 2.369 | 2.373 | 2.383 | 2.3534 |
| 2.442 | 2.459 | 2.481 | 2.506 | 2.511 | 2.525 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.639 | 2.634 | 2.632 | 2.612 | 2.621 | 2.633 | 2.4955 |
| 2.583 | 2.593 | 2.609 | 2.633 | 2.633 | 2.635 | 2.640 | 2.640 | 2.638 | 2.643 | 2.643 | 2.654 | 2.6186 |
| 2.575 | 2.569 | 2.570 | 2.570 | 2.563 | 2.560 | 2.562 | 2.559 | 2.560 | 2.566 | 2.567 | 2.603 | 2.5936 |
| 2.598 | 2.594 | 2.584 | 2.585 | 2.569 | 2.573 | 2.573 | 2.571 | 2.551 | 2.525 | 2.541 | 2.554 | 2.5932 |
| 2.584 | 2.582 | 2.595 | 2.612 | 2.624 | 2.626 | 2.629 | 2.624 | 2.625 | 2.621 | 2.622 | 2.633 | 2.5986 |
| 2.694 | 2.684 | 2.708 | 2.713 | 2.725 | 2.727 | 2.728 | 2.732 | 2.733 | 2.729 | 2.788 | 2.751 | 2.7051 |
| 2.739 | 2.735 | 2.754 | 2.761 | 2.753 | 2.757 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.752 | 2.753 | 2.754 | 2.755 | 2.763 | 2.771 | 2.7649 |
| 2.621 | 2.613 | 2.633 | 2.625 | 2.637 | 2.628 | 2.622 | 2.615 | 2.609 | 2.590 | 2.590 | 2.595 | 2.6656 |
| 2.450 | 2.450 | 2.434 | 2.428 | 2.418 | 2.406 | 2.394 | 2.373 | 2.367 | 2.361 | 2.359 | 2.365 | 2.4706 |
| 2.316 | 2.338 | 2.364 | 2.408 | 2.402 | 2.407 | 2.416 | 2.426 | 2.435 | 2.436 | 2.446 | 2.460 | 2.3834 |
| 2.5124 | 2.5154 | 2.5197 | 2.5303 | 2.5307 | 2.5377 | 2.5414 | 2.5373 | 2.5349 | 2.5311 | 2.5364 | 2.5430 | 2.5368 |
| 2.541 | 2.566 | 2.488 | 2.598 | 2.604 | 2.617 | 2.635 | 2.643 | 2.658 | 2.651 | 2.667 | 2.700 | 2.5665 |
| 2.725 | 2.725 | 2.761 | 2.753 | 2.746 | 2.739 | 2.728 | 2.711 | 2.702 | 2.702 | 2.694 | 2.689 | 2.7314 |
| 2.427 | 2.427 | 2.427 | 2.407 | 2.404 | 2.394 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.556 | 2.557 | 2.558 | 2.566 | 2.567 | 2.565 | 2.5361 |
| 2.456 | 2.442 | 2.443 | 2.449 | 2.420 | 2.399 | 2.379 | 2.367 | 2.355 | 2.349 | 2.337 | 2.328 | 2.4615 |
| 2.466 | 2.488 | 2.508 | 2.528 | 2.523 | 2.540 | 2.533 | 2.527 | 2.520 | 2.521 | 2.528 | 2.530 | 2.4464 |
| 2.525 | 2.535 | 2.534 | 2.534 | 2.544 | 2.541 | 2.545 | 2.551 | 2.520 | 2.502 | 2.502 | 2.503 | 2.5316 |
| 2.538 | 2.538 | 2.532 | 2.515 | 2.510 | 2.592 | 2.475 | 2.441 | 2.371 | 2.363 | 2.337 | 2.305 | 2.5025 |
| 2.250 | 2.280 | 2.312 | 2.340 | 2.354 | 2.389 | 2.391 | 2.414 | 2.415 | 2.437 | 2.448 | 2.462 | 2.3065 |
| 2.525 | 2.533 | 2.544 | 2.558 | 2.578 | 2.591 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.691 | 2.704 | 2.706 | 2.706 | 2.703 | 2.719 | 2.5675 |
| 2.696 | 2.682 | 2.683 | 2.683 | 2.689 | 2.691 | 2.697 | 2.696 | 2.696 | 2.690 | 2.691 | 2.690 | 2.7086 |
| 2.635 | 2.641 | 2.648 | 2.638 | 2.637 | 2.638 | 2.646 | 2.642 | 2.648 | 2.627 | 2.625 | 2.629 | 2.6591 |
| 2.661 | 2.661 | 2.663 | 2.669 | 2.669 | 2.673 | 2.673 | 2.664 | 2.656 | 2.657 | 2.667 | 2.685 | 2.6653 |
| 2.620 | 2.614 | 2.649 | 2.639 | 2.629 | 2.626 | 2.614 | 2.610 | 2.609 | 2.599 | 2.589 | 2.593 | 2.6478 |
| 2.496 | 2.496 | 2.498 | 2.514 | 2.505 | 2.507 | 2.517 | 2.514 | 2.536 | 2.542 | 2.567 | 2.609 | 2.5428 |
| 2.651 | 2.656 | 2.670 | 2.679 | 2.673 | 2.684 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.610 | 2.577 | 2.503 | 2.570 | 2.562 | 2.562 | 2.6246 |
| 2.594 | 2.610 | 2.641 | 2.661 | 2.653 | 2.646 | 2.661 | 2.666 | 2.666 | 2.662 | 2.663 | 2.663 | 2.6110 |
| 2.803 | 2.826 | 2.840 | 2.839 | 2.844 | 2.851 | 2.859 | 2.846 | 2.860 | 2.863 | 2.870 | 2.879 | 2.8111 |
| 2.815 | 2.797 | 2.797 | 2.795 | 2.766 | 2.750 | 2.747 | 2.711 | 2.684 | 2.647 | 2.629 | 2.581 | 2.8076 |
| 2.245 | 2.232 | 2.219 | 2.213 | 2.203 | 2.195 | 2.181 | 2.165 | 2.147 | 2.125 | 2.133 | 2.157 | 2.2860 |
| 2.202 | 2.220 | 2.243 | 2.243 | 2.281 | 2.226 | 2.230 | 2.216 | 2.198 | 2.192 | 2.185 | 2.177 | 2.1932 |
| 2.179 | 2.177 | 2.190 | 2.198 | 2.188 | 2.185 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.279 | 2.275 | 2.276 | 2.286 | 2.293 | 2.295 | 2.1932 |
| 2.365 | 2.369 | 2.373 | 2.376 | 2.376 | 2.374 | 2.369 | 2.361 | 2.356 | 2.358 | 2.358 | 2.366 | 2.3502 |
| 2.375 | 2.385 | 2.392 | 2.366 | 2.366 | 2.377 | 2.377 | 2.380 | 2.378 | 2.385 | 2.373 | 2.373 | 2.3746 |
| 2.384 | 2.390 | 2.404 | 2.415 | 2.409 | 2.406 | 2.410 | 2.397 | 2.401 | 2.411 | 2.425 | 2.442 | 2.3928 |
| 2.552 | 2.566 | 2.580 | 2.588 | 2.591 | 2.595 | 2.596 | 2.605 | 2.614 | 2.612 | 2.617 | 2.619 | 2.5502 |
| 2.553 | 2.560 | 2.572 | 2.564 | 2.562 | 2.566 | 2.566 | 2.566 | 2.568 | 2.570 | 2.576 | 2.581 | 2.5917 |
| 2.631 | 2.646 | 2.653 | 2.664 | 2.669 | 2.673 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.617 | 2.601 | 2.577 | 2.577 | 2.567 | 2.575 | 2.6204 |
| 2.5152 | 2.5208 | 2.5283 | 2.5343 | 2.5331 | 2.5357 | 2.5401 | 2.5336 | 2.5251 | 2.5248 | 2.5249 | 2.5288 | 2.5289 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. } | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 2.567 | 2.537 | 2.527 | 2.500 | 2.494 | 2.478 | 2.443 | 2.413 | 2.376 | 2.356 | 2.345 | 2.354 |
| | 3 | 2.578 | 2.598 | 2.602 | 2.613 | 2.620 | 2.613 | 2.609 | 2.601 | 2.592 | 2.579 | 2.580 | 2.594 |
| | 4 | 2.731 | 2.756 | 2.763 | 2.768 | 2.778 | 2.775 | 2.773 | 2.787 | 2.793 | 2.792 | 2.793 | 2.813 |
| | 5 | 2.934 | 2.954 | 2.960 | 2.968 | 2.967 | 2.958 | 2.927 | 2.929 | 2.916 | 2.904 | 2.898 | 2.897 |
| | 6 | 2.922 | 2.924 | 2.930 | 2.941 | 2.945 | 2.937 | 2.920 | 2.909 | 2.893 | 2.879 | 2.869 | 2.867 |
| | 7 | 2.843 | 2.843 | 2.842 | 2.849 | 2.828 | 2.825 | 2.811 | 2.801 | 2.794 | 2.769 | 2.748 | 2.746 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 2.641 | 2.659 | 2.663 | 2.672 | 2.694 | 2.682 | 2.687 | 2.675 | 2.667 | 2.671 | 2.667 | 2.666 |
| | 10 | 2.751 | 2.761 | 2.757 | 2.769 | 2.777 | 2.779 | 2.752 | 2.749 | 2.737 | 2.722 | 2.715 | 2.705 |
| | 11 | 2.671 | 2.671 | 2.671 | 2.679 | 2.685 | 2.659 | 2.659 | 2.651 | 2.640 | 2.640 | 2.623 | 2.627 |
| | 12 | 2.690 | 2.705 | 2.705 | 2.711 | 2.710 | 2.696 | 2.682 | 2.667 | 2.653 | 2.644 | 2.637 | 2.636 |
| | 13 | 2.705 | 2.725 | 2.732 | 2.743 | 2.741 | 2.742 | 2.723 | 2.710 | 2.700 | 2.688 | 2.688 | 2.674 |
| | 14 | 2.752 | 2.757 | 2.759 | 2.763 | 2.761 | 2.762 | 2.745 | 2.728 | 2.714 | 2.702 | 2.695 | 2.695 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 2.803 | 2.819 | 2.819 | 2.824 | 2.818 | 2.809 | 2.796 | 2.769 | 2.755 | 2.738 | 2.729 | 2.734 |
| | 17 | 2.730 | 2.732 | 2.732 | 2.731 | 2.718 | 2.716 | 2.693 | 2.670 | 2.646 | 2.631 | 2.626 | 2.619 |
| | 18 | 2.683 | 2.697 | 2.691 | 2.703 | 2.704 | 2.694 | 2.682 | 2.662 | 2.651 | 2.645 | 2.631 | 2.619 |
| | 19 | 2.650 | 2.655 | 2.646 | 2.637 | 2.620 | 2.609 | 2.588 | 2.569 | 2.546 | 2.544 | 2.543 | 2.545 |
| | 20 | 2.622 | 2.622 | 2.615 | 2.614 | 2.610 | 2.599 | 2.576 | 2.559 | 2.530 | 2.507 | 2.492 | 2.484 |
| | 21 | 2.293 | 2.305 | 2.293 | 2.292 | 2.323 | 2.349 | 2.391 | 2.413 | 2.439 | 2.478 | 2.507 | 2.553 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 2.879 | 2.885 | 2.886 | 2.895 | 2.893 | 2.878 | 2.868 | 2.856 | 2.837 | 2.833 | 2.827 | 2.830 |
| | 24 | 2.769 | 2.789 | 2.785 | 2.789 | 2.798 | 2.796 | 2.791 | 2.785 | 2.784 | 2.784 | 2.789 | 2.793 |
| | 25 | 2.851 | 2.831 | 2.861 | 2.865 | 2.865 | 2.857 | 2.857 | 2.857 | 2.849 | 2.846 | 2.848 | 2.856 |
| | 26 | 2.946 | 2.960 | 2.968 | 2.977 | 2.982 | 2.995 | 2.995 | 2.986 | 2.976 | 2.975 | 2.975 | 2.979 |
| | 27 | 3.107 | 3.112 | 3.118 | 3.123 | 3.104 | 3.100 | 3.094 | 3.057 | 3.055 | 3.040 | 3.015 | 3.009 |
| | 28 | 2.858 | 2.844 | 2.824 | 2.810 | 2.780 | 2.749 | 2.718 | 2.697 | 2.662 | 2.621 | 2.607 | 2.591 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 2.488 | 2.510 | 2.534 | 2.550 | 2.559 | 2.589 | 2.600 | 2.614 | 2.659 | 2.687 | 2.724 | 2.776 |
| | Hourly Means | 2.7386 | 2.7460 | 2.7473 | 2.7514 | 2.7510 | 2.7458 | 2.7352 | 2.7246 | 2.7146 | 2.7070 | 2.7028 | 2.7065 |
| OCTOBER. | 1 | 3.035 | 3.045 | 3.071 | 3.078 | 3.090 | 3.081 | 3.064 | 3.047 | 3.0.9 | 3.016 | 3.014 | 3.004 |
| | 2 | 2.887 | 2.871 | 2.872 | 2.838 | 2.817 | 2.797 | 2.765 | 2.728 | 2.708 | 2.667 | 2.650 | 2.630 |
| | 3 | 2.384 | 2.384 | 2.384 | 2.384 | 2.360 | 2.351 | 2.336 | 2.318 | 2.305 | 2.291 | 2.306 | 2.304 |
| | 4 | 2.302 | 2.304 | 2.308 | 2.306 | 2.307 | 2.305 | 2.292 | 2.280 | 2.280 | 2.276 | 2.282 | 2.287 |
| | 5 | 2.355 | 2.385 | 2.397 | 2.417 | 2.435 | 2.440 | 2.447 | 2.447 | 2.459 | 2.479 | 2.493 | 2.511 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 2.695 | 2.717 | 2.731 | 2.740 | 2.732 | 2.730 | 2.721 | 2.717 | 2.724 | 2.708 | 2.706 | 2.708 |
| | 8 | 2.725 | 2.727 | 2.725 | 2.719 | 2.702 | 2.675 | 2.624 | 2.597 | 2.574 | 2.555 | 2.543 | 2.524 |
| | 9 | 2.567 | 2.587 | 2.594 | 2.617 | 2.628 | 2.611 | 2.604 | 2.597 | 2.591 | 2.584 | 2.576 | 2.573 |
| | 10 | 2.356 | 2.362 | 2.364 | 2.410 | 2.440 | 2.462 | 2.472 | 2.474 | 2.480 | 2.506 | 2.524 | 2.560 |
| | 11 | 2.742 | 2.764 | 2.788 | 2.803 | 2.808 | 2.814 | 2.811 | 2.805 | 2.799 | 2.796 | 2.809 | 2.824 |
| | 12 | 2.962 | 2.962 | 2.990 | 3.005 | 3.012 | 3.010 | 2.993 | 2.967 | 2.951 | 2.928 | 2.926 | 2.927 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 2.555 | 2.556 | 2.543 | 2.534 | 2.505 | 2.482 | 2.456 | 2.412 | 2.396 | 2.374 | 2.352 | 2.350 |
| | 15 | 2.125 | 2.118 | 2.100 | 2.090 | 2.069 | 2.058 | 2.028 | 2.008 | 2.002 | 2.000 | 2.006 | 2.018 |
| | 16 | 2.287 | 2.317 | 2.355 | 2.375 | 2.394 | 2.434 | 2.461 | 2.464 | 2.484 | 2.516 | 2.542 | 2.582 |
| | 17 | 2.732 | 2.752 | 2.748 | 2.748 | 2.750 | 2.716 | 2.698 | 2.688 | 2.688 | 2.684 | 2.690 | 2.698 |
| | 18 | 2.810 | 2.837 | 2.825 | 2.799 | 2.788 | 2.760 | 2.702 | 2.654 | 2.614 | 2.570 | 2.516 | 2.450 |
| | 19 | 2.358 | 2.391 | 2.401 | 2.415 | 2.404 | 2.416 | 2.427 | 2.439 | 2.476 | 2.564 | 2.596 | 2.625 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 2.965 | 2.963 | 2.963 | 2.955 | 2.929 | 2.917 | 2.904 | 2.886 | 2.865 | 2.865 | 2.866 | 2.872 |
| | 22 | 2.992 | 3.010 | 3.032 | 3.040 | 3.038 | 3.028 | 3.009 | 2.980 | 2.966 | 2.960 | 2.961 | 2.961 |
| | 23 | 2.964 | 2.977 | 2.986 | 2.983 | 2.983 | 2.976 | 2.966 | 2.937 | 2.914 | 2.907 | 2.896 | 2.905 |
| | 24 | 2.895 | 2.899 | 2.901 | 2.900 | 2.891 | 2.886 | 2.876 | 2.853 | 2.834 | 2.830 | 2.823 | 2.805 |
| | 25 | 2.659 | 2.665 | 2.649 | 2.648 | 2.638 | 2.625 | 2.595 | 2.590 | 2.588 | 2.597 | 2.620 | 2.647 |
| | 26 | 2.823 | 2.805 | 2.821 | 2.802 | 2.786 | 2.773 | 2.749 | 2.717 | 2.709 | 2.689 | 2.689 | 2.683 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 2.485 | 2.477 | 2.460 | 2.438 | 2.422 | 2.410 | 2.406 | 2.388 | 2.396 | 2.396 | 2.412 | 2.418 |
| | 29 | 2.428 | 2.428 | 2.433 | 2.423 | 2.428 | 2.417 | 2.409 | 2.405 | 2.411 | 2.420 | 2.429 | 2.440 |
| | 30 | 2.561 | 2.581 | 2.593 | 2.611 | 2.621 | 2.629 | 2.624 | 2.626 | 2.640 | 2.659 | 2.683 | 2.709 |
| | 31 | 2.846 | 2.868 | 2.886 | 2.894 | 2.894 | 2.887 | 2.874 | 2.862 | 2.849 | 2.842 | 2.833 | 2.840 |
| Hourly Means | 2.6480 | 2.6575 | 2.6637 | 2.6656 | 2.6619 | 2.6552 | 2.6412 | 2.6254 | 2.6197 | 2.6177 | 2.6201 | 2.6243 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English Inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2.368 | 2.436 | 2.465 | 2.491 | 2.500 | 2.501 | 2.510 | 2.517 | 2.537 | 2.546 | 2.548 | 2.564 | 2.4739 |
| 2.603 | 2.613 | 2.628 | 2.642 | 2.639 | 2.640 | 2.643 | 2.641 | 2.642 | 2.641 | 2.677 | 2.704 | 2.6205 |
| 2.824 | 2.831 | 2.854 | 2.861 | 2.872 | 2.877 | 2.888 | 2.879 | 2.885 | 2.902 | 2.912 | 2.914 | 2.8259 |
| 2.877 | 2.869 | 2.872 | 2.873 | 2.865 | 2.866 | 2.870 | 2.867 | 2.869 | 2.880 | 2.882 | 2.902 | 2.9043 |
| 2.861 | 2.861 | 2.855 | 2.866 | 2.853 | 2.847 | 2.841 | 2.840 | 2.846 | 2.837 | 2.831 | 2.828 | 2.8792 |
| 2.722 | 2.712 | 2.720 | 2.721 | 2.722 | 2.723 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.655 | 2.643 | 2.639 | 2.639 | 2.629 | 2.629 | 2.7439 |
| 2.674 | 2.689 | 2.693 | 2.708 | 2.708 | 2.717 | 2.745 | 2.734 | 2.728 | 2.724 | 2.720 | 2.743 | 2.6928 |
| 2.700 | 2.704 | 2.710 | 2.705 | 2.702 | 2.697 | 2.679 | 2.665 | 2.663 | 2.663 | 2.661 | 2.661 | 2.7160 |
| 2.635 | 2.641 | 2.653 | 2.669 | 2.679 | 2.679 | 2.699 | 2.679 | 2.671 | 2.672 | 2.680 | 2.696 | 2.6637 |
| 2.640 | 2.644 | 2.652 | 2.660 | 2.653 | 2.653 | 2.655 | 2.655 | 2.658 | 2.666 | 2.675 | 2.677 | 2.6677 |
| 2.674 | 2.688 | 2.698 | 2.708 | 2.716 | 2.721 | 2.712 | 2.712 | 2.707 | 2.708 | 2.719 | 2.731 | 2.7110 |
| 2.696 | 2.704 | 2.717 | 2.735 | 2.747 | 2.757 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.789 | 2.778 | 2.776 | 2.772 | 2.770 | 2.782 | 2.7440 |
| 2.735 | 2.745 | 2.746 | 2.747 | 2.742 | 2.735 | 2.739 | 2.735 | 2.738 | 2.724 | 2.718 | 2.719 | 2.7598 |
| 2.612 | 2.605 | 2.618 | 2.607 | 2.618 | 2.620 | 2.621 | 2.621 | 2.622 | 2.639 | 2.650 | 2.668 | 2.6560 |
| 2.614 | 2.620 | 2.620 | 2.617 | 2.619 | 2.622 | 2.618 | 2.616 | 2.619 | 2.620 | 2.625 | 2.628 | 2.6458 |
| 2.553 | 2.583 | 2.595 | 2.598 | 2.601 | 2.603 | 2.599 | 2.604 | 2.607 | 2.600 | 2.600 | 2.611 | 2.5961 |
| 2.484 | 2.482 | 2.465 | 2.455 | 2.446 | 2.438 | 2.417 | 2.393 | 2.372 | 2.355 | 2.335 | 2.311 | 2.5326 |
| 2.607 | 2.639 | 2.681 | 2.700 | 2.725 | 2.742 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.853 | 2.868 | 2.870 | 2.858 | 2.857 | 2.863 | 2.5791 |
| 2.830 | 2.833 | 2.822 | 2.808 | 2.798 | 2.787 | 2.783 | 2.774 | 2.761 | 2.750 | 2.754 | 2.765 | 2.8263 |
| 2.797 | 2.806 | 2.820 | 2.821 | 2.827 | 2.827 | 2.823 | 2.834 | 2.841 | 2.849 | 2.838 | 2.826 | 2.8067 |
| 2.858 | 2.864 | 2.878 | 2.888 | 2.893 | 2.889 | 2.893 | 2.897 | 2.896 | 2.899 | 2.912 | 2.921 | 2.8721 |
| 2.991 | 3.011 | 3.026 | 3.032 | 3.038 | 3.061 | 3.067 | 3.079 | 3.076 | 3.070 | 3.072 | 3.089 | 3.0136 |
| 2.999 | 2.997 | 2.997 | 3.006 | 2.983 | 2.958 | 2.946 | 2.937 | 2.915 | 2.896 | 2.872 | 2.867 | 3.0128 |
| 2.563 | 2.549 | 2.539 | 2.519 | 2.505 | 2.487 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.359 | 2.375 | 2.395 | 2.413 | 2.430 | 2.464 | 2.5566 |
| 2.824 | 2.854 | 2.890 | 2.904 | 2.909 | 2.921 | 2.930 | 2.932 | 2.954 | 2.988 | 3.004 | 3.018 | 2.7674 |
| 2.7096 | 2.7192 | 2.7286 | 2.7336 | 2.7344 | 2.7347 | 2.7334 | 2.7310 | 2.7315 | 2.7324 | 2.7348 | 2.7432 | 2.7307 |
| 2.996 | 2.986 | 2.984 | 2.986 | 2.976 | 2.968 | 2.951 | 2.939 | 2.932 | 2.916 | 2.912 | 2.886 | 3.0032 |
| 2.606 | 2.574 | 2.550 | 2.522 | 2.507 | 2.451 | 2.422 | — | 2.404 | 2.386 | 2.364 | 2.382 | 2.6260 |
| 2.318 | 2.304 | 2.324 | 2.309 | 2.320 | 2.300 | 2.301 | 2.295 | 2.288 | 2.288 | 2.282 | 2.291 | 2.3220 |
| 2.293 | 2.297 | 2.293 | 2.286 | 2.295 | 2.296 | 2.298 | 2.304 | 2.309 | 2.312 | 2.318 | 2.338 | 2.2987 |
| 2.527 | 2.537 | 2.553 | 2.569 | 2.581 | 2.595 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.652 | 2.655 | 2.662 | 2.671 | 2.675 | 2.676 | 2.5257 |
| 2.715 | 2.714 | 2.715 | 2.728 | 2.722 | 2.725 | 2.719 | 2.716 | 2.709 | 2.701 | 2.716 | 2.715 | 2.7177 |
| 2.530 | 2.531 | 2.513 | 2.503 | 2.501 | 2.492 | 2.496 | 2.504 | 2.505 | 2.513 | 2.537 | 2.543 | 2.5774 |
| 2.571 | 2.566 | 2.563 | 2.544 | 2.526 | 2.499 | 2.470 | 2.448 | 2.420 | 2.400 | 2.380 | 2.365 | 2.5367 |
| 2.592 | 2.612 | 2.624 | 2.647 | 2.654 | 2.659 | 2.659 | 2.671 | 2.683 | 2.689 | 2.715 | 2.727 | 2.5555 |
| 2.824 | 2.840 | 2.863 | 2.878 | 2.898 | 2.907 | 2.913 | 2.914 | 2.924 | 2.924 | 2.941 | 2.952 | 2.8475 |
| 2.929 | 2.927 | 2.922 | 2.918 | 2.926 | 2.926 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.662 | 2.646 | 2.625 | 2.613 | 2.563 | 2.563 | 2.8689 |
| 2.339 | 2.319 | 2.303 | 2.283 | 2.267 | 2.239 | 2.231 | 2.205 | 2.189 | 2.161 | 2.151 | 2.141 | 2.3476 |
| 2.042 | 2.051 | 2.065 | 2.096 | 2.104 | 2.121 | 2.149 | 2.169 | 2.183 | 2.209 | 2.225 | 2.254 | 2.0954 |
| 2.614 | 2.644 | 2.666 | 2.682 | 2.691 | 2.701 | 2.714 | 2.721 | 2.731 | 2.737 | 2.733 | 2.731 | 2.5657 |
| 2.702 | 2.714 | 2.739 | 2.759 | 2.767 | 2.759 | 2.763 | 2.771 | 2.778 | 2.788 | 2.801 | 2.826 | 2.7400 |
| 2.380 | 2.286 | 2.196 | 2.083 | 1.977 | 1.868 | 1.864 | 1.964 | 2.020 | 2.112 | 2.247 | 2.322 | 2.4018 |
| 2.648 | 2.671 | 2.711 | 2.729 | 2.741 | 2.774 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 3.079 | 3.055 | 3.031 | 2.999 | 2.983 | 2.973 | 2.6627 |
| 2.868 | 2.899 | 2.912 | 2.966 | 2.984 | 2.983 | 2.992 | 2.984 | 2.996 | 2.998 | 2.998 | 2.992 | 2.9384 |
| 2.965 | 2.965 | 2.960 | 2.953 | 2.954 | 2.952 | 2.944 | 2.939 | 2.939 | 2.943 | 2.957 | 2.969 | 2.9753 |
| 2.895 | 2.897 | 2.887 | 2.871 | 2.867 | 2.864 | 2.870 | 2.869 | 2.885 | 2.887 | 2.892 | 2.894 | 2.9155 |
| 2.791 | 2.781 | 2.756 | 2.738 | 2.735 | 2.727 | 2.725 | 2.725 | 2.718 | 2.710 | 2.690 | 2.667 | 2.7982 |
| 2.694 | 2.736 | 2.782 | 2.805 | 2.833 | 2.844 | 2.858 | 2.853 | 2.854 | 2.848 | 2.845 | 2.829 | 2.7209 |
| 2.674 | 2.689 | 2.670 | 2.680 | 2.691 | 2.695 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.631 | 2.593 | 2.573 | 2.563 | 2.516 | 2.503 | 2.6885 |
| 2.428 | 2.433 | 2.447 | 2.461 | 2.441 | 2.441 | 2.441 | 2.447 | 2.444 | 2.426 | 2.428 | 2.432 | 2.4324 |
| 2.452 | 2.465 | 2.467 | 2.483 | 2.479 | 2.481 | 2.487 | 2.487 | 2.486 | 2.497 | 2.513 | 2.543 | 2.4546 |
| 2.729 | 2.753 | 2.767 | 2.771 | 2.789 | 2.793 | 2.805 | 2.816 | 2.828 | 2.828 | 2.842 | 2.843 | 2.7125 |
| 2.844 | 2.836 | 2.827 | 2.822 | 2.816 | 2.817 | — | 2.812 | 2.813 | 2.815 | 2.810 | 2.798 | 2.8428 |
| 2.6284 | 2.6306 | 2.6318 | 2.6323 | 2.6312 | 2.6251 | 2.6191 | 2.6347 | 2.6270 | 2.6269 | 2.6309 | 2.6350 | 2.6356 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Barometer at 32° = 27 English Inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 2.789 | 2.775 | 2.748 | 2.743 | 2.740 | 2.737 | 2.714 | 2.690 | 2.669 | 2.666 | 2.660 | 2.656 |
| | 2 | 2.823 | 2.871 | 2.887 | 2.900 | 2.900 | 2.893 | 2.892 | 2.875 | 2.875 | 2.876 | 2.876 | 2.869 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 2.745 | 2.769 | 2.795 | 2.783 | 2.773 | 2.759 | 2.730 | 2.706 | 2.696 | 2.691 | 2.660 | 2.632 |
| | 5 | 2.504 | 2.517 | 2.533 | 2.528 | 2.528 | 2.535 | 2.513 | 2.485 | 2.481 | 2.481 | 2.492 | 2.506 |
| | 6 | 2.456 | 2.464 | 2.464 | 2.446 | 2.460 | 2.429 | 2.409 | 2.399 | 2.379 | 2.372 | 2.359 | 2.358 |
| | 7 | 2.131 | 2.129 | 2.131 | 2.125 | 2.118 | 2.104 | 2.080 | 2.056 | 2.046 | 2.046 | 2.046 | 2.050 |
| | 8 | 2.331 | 2.359 | 2.395 | 2.401 | 2.407 | 2.403 | 2.395 | 2.383 | 2.386 | 2.402 | 2.403 | 2.419 |
| | 9 | 2.559 | 2.579 | 2.585 | 2.605 | 2.607 | 2.617 | 2.621 | 2.621 | 2.632 | 2.648 | 2.664 | 2.686 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 2.540 | 2.552 | 2.566 | 2.580 | 2.582 | 2.586 | 2.584 | 2.568 | 2.584 | 2.607 | 2.606 | 2.638 |
| | 12 | 2.423 | 2.405 | 2.467 | 2.313 | 2.300 | 2.275 | 2.233 | 2.227 | 2.181 | 2.159 | 2.158 | 2.150 |
| | 13 | 2.480 | 2.511 | 2.525 | 2.549 | 2.561 | 2.561 | 2.556 | 2.546 | 2.550 | 2.562 | 2.580 | 2.606 |
| | 14 | 2.763 | 2.788 | 2.814 | 2.842 | 2.859 | 2.859 | 2.849 | 2.848 | 2.858 | 2.872 | 2.878 | 2.880 |
| | 15 | 2.812 | 2.802 | 2.834 | 2.822 | 2.818 | 2.810 | 2.784 | 2.784 | 2.770 | 2.766 | 2.778 | 2.783 |
| | 16 | 2.859 | 2.867 | 2.873 | 2.877 | 2.886 | 2.874 | 2.872 | 2.865 | 2.868 | 2.858 | 2.859 | 2.864 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 2.519 | 2.556 | 2.596 | 2.618 | 2.636 | 2.640 | 2.636 | 2.636 | 2.656 | 2.686 | 2.744 | 2.770 |
| | 19 | 2.849 | 2.852 | 2.844 | 2.823 | 2.819 | 2.779 | 2.740 | 2.718 | 2.679 | 2.664 | 2.654 | 2.662 |
| | 20 | 2.652 | 2.644 | 2.661 | 2.676 | 2.681 | 2.670 | 2.638 | 2.635 | 2.629 | 2.630 | 2.636 | 2.646 |
| | 21 | 2.760 | 2.776 | 2.776 | 2.772 | 2.755 | 2.753 | 2.695 | 2.680 | 2.660 | 2.633 | 2.634 | 2.643 |
| | 22 | 2.573 | 2.563 | 2.533 | 2.523 | 2.484 | 2.458 | 2.416 | 2.380 | 2.352 | 2.332 | 2.330 | 2.326 |
| | 23 | 2.150 | 2.150 | 2.133 | 2.119 | 2.099 | 2.065 | 2.077 | 2.060 | 2.052 | 2.076 | 2.099 | 2.100 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 2.736 | 2.776 | 2.798 | 2.805 | 2.839 | 2.851 | 2.850 | 2.864 | 2.890 | 2.911 | 2.926 | 2.957 |
| | 26 | 2.780 | 2.730 | 2.674 | 2.618 | 2.555 | 2.486 | 2.398 | 2.303 | 2.253 | 2.217 | 2.218 | 2.218 |
| | 27 | 2.777 | 2.839 | 2.876 | 2.928 | 2.955 | 2.963 | 2.954 | 2.935 | 2.933 | 2.941 | 2.956 | 2.956 |
| | 28 | 2.719 | 2.699 | 2.668 | 2.646 | 2.640 | 2.612 | 2.583 | 2.579 | 2.571 | 2.575 | 2.585 | 2.588 |
| | 29 | 2.731 | 2.746 | 2.762 | 2.771 | 2.791 | 2.798 | 2.776 | 2.757 | 2.769 | 2.759 | 2.756 | 2.770 |
| | 30 | 2.671 | 2.679 | 2.683 | 2.677 | 2.679 | 2.671 | 2.671 | 2.641 | 2.626 | 2.613 | 2.628 | 2.624 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2.6205 | 2.6307 | 2.6393 | 2.6342 | 2.6335 | 2.6226 | 2.6025 | 2.5862 | 2.5787 | 2.5786 | 2.5840 | 2.5907 | |
| DECEMBER. | 2 | 2.959 | 2.987 | 3.015 | 3.033 | 3.072 | 3.083 | 3.081 | 3.092 | 3.106 | 3.117 | 3.127 | 3.140 |
| | 3 | 2.970 | 2.972 | 2.971 | 2.964 | 2.958 | 2.927 | 2.906 | 2.881 | 2.867 | 2.854 | 2.850 | 2.829 |
| | 4 | 2.688 | 2.706 | 2.682 | 2.692 | 2.682 | 2.667 | 2.654 | 2.623 | 2.611 | 2.618 | 2.617 | 2.639 |
| | 5 | 2.727 | 2.759 | 2.793 | 2.806 | 2.761 | 2.750 | 2.767 | 2.745 | 2.727 | 2.717 | 2.727 | 2.719 |
| | 6 | 2.751 | 2.796 | 2.850 | 2.845 | 2.855 | 2.837 | 2.811 | 2.768 | 2.733 | 2.724 | 2.706 | 2.669 |
| | 7 | 2.041 | 2.007 | 2.003 | 1.987 | 2.006 | 2.008 | 1.994 | 1.997 | 2.007 | 2.044 | 2.064 | 2.063 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 2.819 | 2.813 | 2.801 | 2.809 | 2.796 | 2.762 | 2.724 | 2.696 | 2.689 | 2.683 | 2.673 | 2.676 |
| | 10 | 2.770 | 2.802 | 2.820 | 2.834 | 2.854 | 2.854 | 2.852 | 2.856 | 2.865 | 2.874 | 2.881 | 2.902 |
| | 11 | 2.904 | 2.903 | 2.915 | 2.935 | 2.935 | 2.924 | 2.905 | 2.883 | 2.861 | 2.840 | 2.840 | 2.817 |
| | 12 | 2.654 | 2.646 | 2.646 | 2.639 | 2.628 | 2.607 | 2.562 | 2.535 | 2.513 | 2.496 | 2.488 | 2.479 |
| | 13 | 2.320 | 2.312 | 2.319 | 2.306 | 2.307 | 2.285 | 2.262 | 2.250 | 2.242 | 2.250 | 2.264 | 2.272 |
| | 14 | 2.310 | 2.324 | 2.322 | 2.318 | 2.325 | 2.303 | 2.294 | 2.278 | 2.270 | 2.288 | 2.296 | 2.309 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 2.381 | 2.394 | 2.402 | 2.410 | 2.420 | 2.420 | 2.412 | 2.403 | 2.401 | 2.398 | 2.418 | 2.440 |
| | 17 | 2.480 | 2.504 | 2.506 | 2.507 | 2.512 | 2.496 | 2.464 | 2.447 | 2.438 | 2.433 | 2.429 | 2.431 |
| | 18 | 2.609 | 2.615 | 2.609 | 2.606 | 2.607 | 2.576 | 2.537 | 2.519 | 2.502 | 2.507 | 2.510 | 2.503 |
| | 19 | 2.558 | 2.571 | 2.583 | 2.594 | 2.605 | 2.605 | 2.579 | 2.578 | 2.580 | 2.595 | 2.607 | 2.638 |
| | 20 | 2.831 | 2.838 | 2.840 | 2.848 | 2.864 | 2.852 | 2.833 | 2.816 | 2.810 | 2.795 | 2.805 | 2.797 |
| | 21 | 2.496 | 2.456 | 2.446 | 2.420 | 2.389 | 2.343 | 2.261 | 2.200 | 2.156 | 2.132 | 2.129 | 2.128 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 1.975 | 1.987 | 1.975 | 1.970 | 1.996 | 1.996 | 1.980 | 1.974 | 1.996 | 2.032 | 2.065 | 2.103 |
| | 24 | 2.376 | 2.387 | 2.403 | 2.459 | 2.463 | 2.457 | 2.452 | 2.447 | 2.448 | 2.466 | 2.463 | 2.488 |
| | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 2.246 | 2.251 | 2.259 | 2.249 | 2.258 | 2.228 | 2.236 | 2.254 | 2.297 | 2.327 | 2.389 | 2.423 |
| | 27 | 2.628 | 2.637 | 2.655 | 2.694 | 2.686 | 2.671 | 2.659 | 2.637 | 2.644 | 2.643 | 2.649 | 2.637 |
| | 28 | 2.515 | 2.508 | 2.510 | 2.510 | 2.506 | 2.491 | 2.478 | 2.475 | 2.472 | 2.502 | 2.521 | 2.531 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 2.111 | 2.080 | 2.063 | 2.054 | 2.083 | 2.107 | 2.143 | 2.169 | 2.196 | 2.234 | 2.276 | 2.294 |
| | 31 | 2.694 | 2.699 | 2.706 | 2.716 | 2.704 | 2.665 | 2.638 | 2.614 | 2.602 | 2.580 | 2.553 | 2.513 |
| | Hourly Means | 2.5525 | 2.5582 | 2.5638 | 2.5682 | 2.5709 | 2.5566 | 2.5394 | 2.5255 | 2.5213 | 2.5260 | 2.5339 | 2.5376 |

^a Christmas Day.

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.676 | 2.681 | 2.687 | 2.688 | 2.703 | 2.729 | 2.745 | 2.765 | 2.771 | 2.773 | 2.803 | 2.804 | 2.7255 |
| 2.869 | 2.870 | 2.858 | 2.860 | 2.840 | 2.837 | — | — | — | — | — | — | 2.8301 |
| — | — | — | — | — | — | 2.675 | 2.691 | 2.705 | 2.717 | 2.725 | 2.739 | 2.6445 |
| 2.627 | 2.613 | 2.613 | 2.597 | 2.581 | 2.563 | 2.553 | 2.531 | 2.525 | 2.515 | 2.506 | 2.504 | 2.4957 |
| 2.516 | 2.516 | 2.513 | 2.501 | 2.472 | 2.472 | 2.473 | 2.471 | 2.477 | 2.470 | 2.458 | 2.456 | 2.3411 |
| 2.370 | 2.363 | 2.357 | 2.342 | 2.304 | 2.293 | 2.261 | 2.218 | 2.200 | 2.169 | 2.159 | 2.155 | 2.1296 |
| 2.070 | 2.076 | 2.094 | 2.098 | 2.122 | 2.138 | 2.162 | 2.196 | 2.242 | 2.258 | 2.292 | 2.301 | 2.4313 |
| 2.427 | 2.427 | 2.443 | 2.463 | 2.471 | 2.471 | 2.474 | 2.474 | 2.475 | 2.497 | 2.510 | 2.536 | — |
| 2.697 | 2.699 | 2.697 | 2.699 | 2.696 | 2.712 | — | — | — | — | — | — | 2.6132 |
| — | — | — | — | — | — | 2.509 | 2.509 | 2.519 | 2.513 | 2.515 | 2.527 | 2.5838 |
| 2.638 | 2.642 | 2.638 | 2.630 | 2.630 | 2.618 | 2.612 | 2.579 | 2.565 | 2.527 | 2.485 | 2.455 | 2.2965 |
| 2.176 | 2.180 | 2.223 | 2.263 | 2.300 | 2.322 | 2.363 | 2.341 | 2.383 | 2.405 | 2.414 | 2.454 | 2.6103 |
| 2.620 | 2.635 | 2.632 | 2.634 | 2.646 | 2.651 | 2.671 | 2.681 | 2.704 | 3.711 | 2.723 | 2.753 | 2.8475 |
| 2.880 | 2.873 | 2.867 | 2.881 | 2.858 | 2.852 | 2.844 | 2.840 | 2.833 | 2.837 | 2.837 | 2.828 | 2.8059 |
| 2.788 | 2.793 | 2.797 | 2.802 | 2.800 | 2.799 | 2.807 | 2.822 | 2.830 | 2.836 | 2.852 | 2.852 | — |
| 2.858 | 2.856 | 2.854 | 2.854 | 2.853 | 2.845 | — | — | — | — | — | — | 2.7684 |
| — | — | — | — | — | — | 2.427 | 2.447 | 2.483 | 2.506 | 2.518 | 2.519 | 2.7512 |
| 2.802 | 2.831 | 2.840 | 2.864 | 2.874 | 2.872 | 2.890 | 2.882 | 2.882 | 2.876 | 2.861 | 2.861 | 2.7037 |
| 2.672 | 2.678 | 2.670 | 2.656 | 2.642 | 2.638 | 2.642 | 2.646 | 2.644 | 2.640 | 2.634 | 2.644 | 2.6841 |
| 2.652 | 2.683 | 2.683 | 2.711 | 2.722 | 2.725 | 2.730 | 2.735 | 2.752 | 2.741 | 2.735 | 2.751 | 2.6755 |
| 2.653 | 2.661 | 2.650 | 2.655 | 2.636 | 2.652 | 2.650 | 2.653 | 2.651 | 2.631 | 2.603 | 2.581 | 2.3531 |
| 2.326 | 2.334 | 2.330 | 2.318 | 2.306 | 2.276 | 2.270 | 2.256 | 2.236 | 2.206 | 2.196 | 2.150 | — |
| 2.102 | 2.123 | 2.149 | 2.172 | 2.219 | 2.231 | — | — | — | — | — | — | 2.2582 |
| — | — | — | — | — | — | 2.636 | 2.646 | 2.656 | 2.662 | 2.694 | 2.727 | 2.8860 |
| 2.972 | 2.978 | 2.975 | 2.954 | 2.961 | 2.948 | 2.940 | 2.924 | 2.898 | 2.890 | 2.800 | 2.820 | 2.4667 |
| 2.223 | 2.270 | 2.304 | 2.385 | 2.404 | 2.437 | 2.484 | 2.547 | 2.624 | 2.654 | 2.692 | 2.726 | 2.9017 |
| 2.972 | 2.973 | 2.973 | 2.961 | 2.949 | 2.826 | 2.910 | 2.887 | 2.881 | 2.809 | 2.755 | 2.731 | 2.6432 |
| 2.598 | 2.614 | 2.641 | 2.631 | 2.643 | 2.667 | 2.681 | 2.677 | 2.687 | 2.699 | 2.714 | 2.719 | 2.7422 |
| 2.763 | 2.768 | 2.758 | 2.761 | 2.746 | 2.732 | 2.719 | 2.693 | 2.689 | 2.678 | 2.672 | 2.669 | — |
| 2.634 | 2.622 | 2.620 | 2.612 | 2.602 | 2.601 | — | — | — | — | — | — | 2.6977 |
| — | — | — | — | — | — | 2.757 | 2.814 | 2.858 | 2.910 | 2.923 | 2.929 | — |
| 2.5993 | 2.6061 | 2.6102 | 2.6151 | 2.6146 | 2.6118 | 2.6110 | 2.6125 | 2.6219 | 2.6204 | 2.6183 | 2.6220 | 2.6110 |
| 3.131 | 3.125 | 3.117 | 3.093 | 3.099 | 3.081 | 3.077 | 3.046 | 3.045 | 3.030 | 2.994 | 2.972 | 3.0676 |
| 2.827 | 2.798 | 2.799 | 2.791 | 2.781 | 2.744 | 2.731 | 2.725 | 2.720 | 2.710 | 2.704 | 2.688 | 2.8316 |
| 2.639 | 2.635 | 2.669 | 2.665 | 2.687 | 2.687 | 2.704 | 2.731 | 2.763 | 2.773 | 2.769 | 2.743 | 2.6818 |
| 2.726 | 2.729 | 2.747 | 2.776 | 2.785 | 2.795 | 2.805 | 2.793 | 2.809 | 2.840 | 2.825 | 2.829 | 2.7690 |
| 2.656 | 2.620 | 2.584 | 2.536 | 2.504 | 2.462 | 2.413 | 2.373 | 2.313 | 2.182 | 2.178 | 2.111 | 2.5949 |
| 2.082 | 2.109 | 2.169 | 2.256 | 2.377 | 2.443 | — | — | — | — | — | — | 2.2900 |
| — | — | — | — | — | — | 2.935 | 2.911 | 2.901 | 2.878 | 2.850 | 2.829 | 2.7217 |
| 2.677 | 2.679 | 2.682 | 2.690 | 2.696 | 2.700 | 2.700 | 2.694 | 2.687 | 2.709 | 2.724 | 2.742 | 2.8878 |
| 2.916 | 2.920 | 2.923 | 2.925 | 2.926 | 2.930 | 2.936 | 2.936 | 2.944 | 2.940 | 2.930 | 2.916 | 2.8094 |
| 2.803 | 2.790 | 2.776 | 2.768 | 2.744 | 2.727 | 2.711 | 2.694 | 2.708 | 2.698 | 2.676 | 2.668 | 2.4876 |
| 2.477 | 2.469 | 2.446 | 2.426 | 2.420 | 2.406 | 2.391 | 2.379 | 2.373 | 2.365 | 2.333 | 2.325 | 2.2838 |
| 2.271 | 2.275 | 2.271 | 2.278 | 2.280 | 2.284 | 2.293 | 2.280 | 2.296 | 2.304 | 2.295 | 2.294 | — |
| 2.328 | 2.332 | 2.354 | 2.350 | 2.344 | 2.350 | — | — | — | — | — | — | 2.3362 |
| — | — | — | — | — | — | 2.416 | 2.407 | 2.405 | 2.391 | 2.377 | 2.378 | 2.4340 |
| 2.446 | 2.455 | 2.455 | 2.457 | 2.458 | 2.454 | 2.447 | 2.458 | 2.466 | 2.480 | 2.480 | 2.462 | 2.4912 |
| 2.417 | 2.439 | 2.457 | 2.478 | 2.488 | 2.502 | 2.507 | 2.521 | 2.560 | 2.576 | 2.583 | 2.614 | 2.5502 |
| 2.510 | 2.535 | 2.540 | 2.540 | 2.543 | 2.547 | 2.545 | 2.538 | 2.556 | 2.556 | 2.541 | 2.552 | 2.6684 |
| 2.651 | 2.672 | 2.686 | 2.706 | 2.737 | 2.749 | 2.750 | 2.778 | 2.797 | 2.807 | 2.804 | 2.812 | 2.7436 |
| 2.771 | 2.761 | 2.738 | 2.709 | 2.707 | 2.683 | 2.655 | 2.639 | 2.613 | 2.598 | 2.531 | 2.512 | — |
| 2.109 | 2.102 | 2.096 | 2.086 | 2.090 | 2.098 | — | — | — | — | — | — | 2.1744 |
| — | — | — | — | — | — | 2.011 | 2.002 | 2.034 | 2.019 | 1.997 | 1.985 | 2.1371 |
| 2.135 | 2.160 | 2.194 | 2.227 | 2.253 | 2.277 | 2.295 | 2.308 | 2.342 | 2.342 | 2.354 | 2.354 | — |
| 2.502 | 2.515 | 2.527 | 2.533 | 2.547 | 2.561 | — | — | — | — | — | — | 2.4238 |
| — | — | — | — | — | — | 2.294 | 2.293 | 2.293 | 2.286 | 2.270 | 2.242 | 2.4199 |
| 2.473 | 2.504 | 2.517 | 2.526 | 2.548 | 2.562 | 2.577 | 2.578 | 2.591 | 2.599 | 2.584 | 2.601 | 2.6225 |
| 2.637 | 2.645 | 2.625 | 2.605 | 2.600 | 2.596 | 2.583 | 2.592 | 2.583 | 2.567 | 2.544 | 2.522 | — |
| 2.539 | 2.537 | 2.545 | 2.551 | 2.549 | 2.549 | — | — | — | — | — | — | 2.4614 |
| — | — | — | — | — | — | 2.434 | 2.378 | 2.334 | 2.282 | 2.008 | 2.149 | 2.3306 |
| 2.336 | 2.378 | 2.394 | 2.430 | 2.464 | 2.496 | 2.438 | 2.574 | 2.624 | 2.652 | 2.664 | 2.675 | 2.4961 |
| 2.458 | 2.456 | 2.422 | 2.362 | 2.326 | 2.284 | 2.270 | 2.274 | 2.313 | 2.334 | 2.342 | 2.352 | — |
| 2.5419 | 2.5461 | 2.5494 | 2.5506 | 2.5581 | 2.5587 | 2.5567 | 2.5561 | 2.5628 | 2.5567 | 2.5423 | 2.5331 | 2.5486 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 1 | 23.8 | 24.0 | 24.4 | 25.2 | 25.2 | 26.2 | 27.6 | 28.5 | 29.6 | 31.1 | 28.7 | 26.5 |
| | 2 | 28.0 | 29.4 | 30.2 | 31.2 | 31.2 | 32.1 | 32.7 | 32.4 | 33.3 | 33.3 | 33.3 | 34.1 |
| | 3 | 36.4 | 36.4 | 36.8 | 37.0 | 36.6 | 35.6 | 35.4 | 35.5 | 34.1 | 33.6 | 33.3 | 33.1 |
| | 4 | 30.0 | 27.4 | 26.0 | 24.8 | 23.8 | 23.8 | 23.2 | 23.0 | 23.5 | 23.5 | 23.7 | 23.4 |
| | 5 | 21.0 | 20.6 | 19.8 | 20.2 | 21.0 | 21.6 | 23.2 | 23.3 | 24.8 | 25.2 | 24.5 | 22.0 |
| | 6 | 23.6 | 24.4 | 24.8 | 25.6 | 26.4 | 26.8 | 27.6 | 29.0 | 28.7 | 28.5 | 28.7 | 29.5 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 12.6 | 13.6 | 14.6 | 15.2 | 16.5 | 18.6 | 19.0 | 19.4 | 20.2 | 19.6 | 19.2 | 18.5 |
| | 9 | 15.4 | 16.6 | 20.4 | 21.4 | 21.8 | 22.4 | 22.8 | 22.6 | 22.7 | 22.9 | 23.8 | 24.7 |
| | 10 | 26.6 | 26.0 | 25.8 | 26.4 | 26.7 | 27.8 | 29.0 | 28.1 | 27.7 | 26.7 | 25.4 | 24.8 |
| | 11 | 3.6 | 0.6 | 3.8 | 7.8 | 12.0 | 16.2 | 19.4 | 20.5 | 20.8 | 21.1 | 21.2 | 21.8 |
| | 12 | 29.4 | 30.6 | 31.8 | 32.8 | 34.0 | 34.8 | 35.2 | 34.8 | 35.2 | 34.8 | 34.8 | 34.9 |
| | 13 | 37.0 | 36.0 | 36.0 | 34.4 | 31.4 | 31.0 | 31.2 | 31.7 | 33.2 | 32.2 | 31.6 | 30.7 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 28.6 | 29.8 | 30.2 | 31.0 | 32.0 | 32.4 | 32.6 | 32.5 | 31.9 | 31.3 | 32.4 | 32.4 |
| | 16 | 34.0 | 34.6 | 35.2 | 35.6 | 38.2 | 40.0 | 41.2 | 41.2 | 41.1 | 40.5 | 39.4 | 38.9 |
| | 17 | 31.0 | 30.8 | 30.8 | 30.4 | 30.4 | 30.4 | 30.6 | 30.4 | 30.4 | 29.8 | 39.5 | 28.8 |
| | 18 | 23.8 | 23.4 | 23.2 | 25.2 | 27.0 | 27.2 | 27.6 | 28.3 | 29.1 | 28.6 | 28.3 | 27.0 |
| | 19 | 16.8 | 17.0 | 17.0 | 18.0 | 17.4 | 17.0 | 19.4 | 19.9 | 21.4 | 21.3 | 21.0 | 20.6 |
| | 20 | 7.6 | 6.6 | 6.2 | 7.6 | 10.0 | 12.2 | 14.4 | 15.6 | 16.4 | 16.0 | 14.1 | 13.4 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 11.8 | 11.4 | 12.6 | 14.8 | 15.8 | 16.4 | 16.8 | 17.5 | 18.4 | 19.4 | 23.7 | 24.5 |
| | 23 | 34.6 | 35.4 | 37.0 | 36.8 | 37.8 | 40.0 | 45.0 | 43.5 | 43.5 | 43.4 | 42.8 | 40.6 |
| | 24 | 29.6 | 28.0 | 27.8 | 28.0 | 25.2 | 27.0 | 24.0 | 23.6 | 19.3 | 19.5 | 19.2 | 17.4 |
| | 25 | - 0.6 | - 1.8 | - 2.8 | - 3.4 | - 3.0 | - 0.4 | 0.6 | 1.8 | 3.5 | 5.4 | 5.5 | 3.8 |
| | 26 | - 2.8 | - 4.0 | - 4.6 | - 3.2 | - 2.6 | - 1.0 | 1.2 | 4.2 | 7.2 | 8.4 | 7.8 | 6.3 |
| | 27 | - 5.4 | - 6.0 | - 5.8 | - 4.6 | - 2.6 | 0.0 | 3.0 | 5.3 | 7.9 | 9.1 | 8.9 | 5.8 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | - 1.4 | - 1.8 | - 2.8 | - 2.2 | - 0.2 | 2.4 | 3.4 | 4.2 | 5.8 | 6.2 | 5.6 | 5.3 |
| | 30 | 9.2 | 9.8 | 10.4 | 11.6 | 13.2 | 14.6 | 16.3 | 16.5 | 16.4 | 16.5 | 15.8 | 15.1 |
| | 31 | 0.9 | 0.6 | - 0.4 | 0.6 | 3.0 | 5.4 | 8.0 | 10.4 | 12.4 | 13.0 | 13.4 | 12.2 |
| Hourly Means | 18.71 | 18.50 | 18.83 | 19.56 | 20.30 | 21.50 | 22.61 | 23.10 | 23.65 | 23.74 | 23.54 | 22.82 | |
| FEBRUARY. | 1 | 1.2 | 1.2 | 4.8 | 8.4 | 13.4 | 21.8 | 23.2 | 23.8 | 24.2 | 24.5 | 23.6 | 23.8 |
| | 2 | 21.2 | 20.8 | 21.2 | 23.2 | 24.8 | 26.2 | 26.2 | 28.1 | 28.5 | 29.1 | 29.3 | 26.8 |
| | 3 | 23.6 | 22.0 | 18.8 | 20.6 | 22.4 | 23.4 | 24.8 | 25.5 | 26.4 | 26.7 | 24.8 | 23.2 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 31.4 | 31.4 | 31.8 | 32.4 | 32.8 | 33.7 | 34.2 | 34.9 | 34.9 | 35.3 | 35.0 | 34.2 |
| | 6 | 32.8 | 32.8 | 32.8 | 33.4 | 34.0 | 34.8 | 35.8 | 36.7 | 35.1 | 35.0 | 34.0 | 33.5 |
| | 7 | 19.6 | 19.6 | 20.0 | 21.2 | 24.0 | 26.2 | 27.2 | 28.5 | 28.8 | 29.8 | 27.9 | 26.8 |
| | 8 | 19.2 | 18.6 | 18.8 | 19.4 | 22.6 | 25.4 | 28.6 | 29.3 | 29.9 | 28.9 | 28.2 | 26.4 |
| | 9 | 9.6 | 9.2 | 9.2 | 9.8 | 10.4 | 11.6 | 12.8 | 14.7 | 15.8 | 16.4 | 15.5 | 13.7 |
| | 10 | 16.6 | 17.2 | 17.4 | 18.8 | 20.2 | 21.8 | 23.6 | 25.4 | 26.8 | 28.0 | 27.9 | 26.9 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 15.2 | 14.6 | 18.0 | 21.4 | 25.1 | 26.4 | 27.6 | 29.7 | 32.3 | 33.5 | 33.5 | 32.1 |
| | 13 | 32.6 | 31.8 | 32.8 | 32.8 | 34.2 | 35.2 | 36.6 | 36.8 | 39.2 | 39.0 | 36.4 | 36.5 |
| | 14 | 23.2 | 22.2 | 21.4 | 22.4 | 23.0 | 24.8 | 25.6 | 27.7 | 28.8 | 29.7 | 31.0 | 26.3 |
| | 15 | 25.6 | 25.6 | 26.4 | 29.0 | 30.4 | 31.8 | 31.8 | 31.6 | 32.5 | 31.9 | 31.2 | 32.2 |
| | 16 | 29.8 | 29.2 | 29.6 | 31.0 | 32.0 | 34.2 | 35.0 | 35.2 | 33.5 | 34.1 | 33.8 | 33.3 |
| | 17 | 21.4 | 20.4 | 20.2 | 20.4 | 20.1 | 21.2 | 22.4 | 23.5 | 23.2 | 21.9 | 19.1 | 15.7 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 25.6 | 26.6 | 27.6 | 29.0 | 30.7 | 32.2 | 33.0 | 35.5 | 37.6 | 39.2 | 39.8 | 37.5 |
| | 20 | 35.0 | 35.2 | 36.4 | 38.8 | 40.0 | 39.6 | 41.2 | 43.2 | 43.0 | 44.3 | 43.3 | 41.3 |
| | 21 | 35.4 | 34.2 | 35.4 | 35.8 | 36.3 | 37.6 | 39.6 | 40.8 | 38.3 | 38.3 | 38.4 | 36.6 |
| | 22 | 30.4 | 29.8 | 32.2 | 35.0 | 36.6 | 38.8 | 41.6 | 44.4 | 46.0 | 47.4 | 47.6 | 47.1 |
| | 23 | 32.6 | 32.8 | 33.0 | 33.2 | 33.4 | 32.8 | 31.2 | 30.2 | 30.2 | 29.7 | 28.6 | 27.2 |
| | 24 | 10.0 | 9.1 | 10.5 | 12.4 | 14.6 | 17.8 | 19.0 | 21.4 | 22.9 | 24.3 | 24.0 | 24.2 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 25.0 | 23.4 | 25.8 | 30.8 | 35.8 | 37.0 | 38.7 | 40.8 | 37.8 | 36.4 | 36.0 | 35.6 |
| | 27 | 31.8 | 31.6 | 31.2 | 31.6 | 31.0 | 30.8 | 31.4 | 32.4 | 33.7 | 34.5 | 35.2 | 33.8 |
| | 28 | 24.0 | 23.2 | 25.4 | 29.0 | 31.9 | 32.0 | 35.4 | 35.5 | 36.5 | 36.0 | 33.2 | 32.3 |
| | 29 | 34.6 | 34.4 | 34.8 | 36.0 | 36.2 | 36.6 | 37.8 | 37.7 | 39.7 | 42.1 | 40.4 | 40.2 |
| Hourly Means | 24.29 | 23.88 | 24.62 | 26.23 | 27.84 | 29.35 | 30.57 | 31.73 | 32.22 | 32.64 | 31.91 | 30.69 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 24.8 | 23.2 | 22.2 | 22.0 | 22.1 | 23.2 | 24.2 | 24.9 | 26.0 | 26.3 | 27.2 | 27.6 | 25.60 |
| 34.7 | 33.9 | 34.1 | 34.8 | 34.8 | 34.8 | 35.2 | 35.4 | 35.5 | 35.8 | 36.2 | 36.4 | 33.45 |
| 32.1 | 32.1 | 31.9 | 31.2 | 30.2 | 28.5 | 28.0 | 27.6 | 28.2 | 28.7 | 30.2 | 31.4 | 32.66 |
| 22.8 | 22.4 | 22.2 | 22.1 | 20.8 | 20.6 | 20.7 | 21.4 | 21.4 | 21.5 | 21.4 | 21.2 | 23.11 |
| 20.1 | 17.5 | 16.8 | 18.7 | 19.9 | 20.5 | 19.8 | 18.8 | 19.0 | 21.0 | 22.4 | 23.2 | 21.04 |
| 29.4 | 29.5 | 29.1 | 29.0 | 29.4 | 29.8 | — | — | — | — | — | — | 24.96 |
| — | — | — | — | — | — | 16.6 | 17.6 | 17.6 | 16.6 | 16.0 | 14.8 | — |
| 19.0 | 18.2 | 17.6 | 16.1 | 15.0 | 15.4 | 13.1 | 10.0 | 12.2 | 12.9 | 13.8 | 14.4 | 16.03 |
| 25.2 | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 26.2 | 26.9 | 27.5 | 28.4 | 27.7 | 27.4 | 23.98 |
| 22.4 | 19.5 | 19.6 | 20.1 | 20.7 | 18.4 | 16.3 | 14.2 | 10.9 | 12.0 | 10.9 | 6.8 | 21.37 |
| 21.9 | 22.8 | 23.1 | 24.3 | 24.6 | 25.7 | 26.4 | 27.0 | 27.8 | 27.5 | 27.6 | 28.6 | 19.84 |
| 34.7 | 34.1 | 35.2 | 36.5 | 36.7 | 37.4 | 37.4 | 37.2 | 37.2 | 39.2 | 40.6 | 39.2 | 35.35 |
| 29.8 | 29.4 | 28.2 | 27.8 | 27.6 | 27.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 23.5 | 22.8 | 22.0 | 22.7 | 23.8 | 24.2 | 29.40 |
| 32.9 | 33.6 | 44.3 | 35.2 | 35.2 | 34.7 | 35.0 | 33.7 | 33.5 | 32.8 | 33.2 | 33.6 | 32.70 |
| 38.0 | 38.4 | 38.0 | 37.6 | 38.8 | 37.1 | 35.9 | 36.0 | 35.5 | 35.4 | 34.7 | 33.4 | 37.45 |
| 28.2 | 27.3 | 26.7 | 26.3 | 26.4 | 26.1 | 26.2 | 26.0 | 25.4 | 25.0 | 24.6 | 23.6 | 28.13 |
| 26.2 | 25.6 | 25.6 | 25.4 | 24.8 | 23.7 | 22.9 | 22.3 | 22.0 | 20.2 | 18.3 | 16.6 | 24.68 |
| 20.2 | 20.2 | 18.4 | 15.7 | 14.5 | 13.3 | 12.5 | 11.7 | 11.2 | 10.2 | 9.5 | 8.7 | 16.37 |
| 13.9 | 14.6 | 12.9 | 12.0 | 11.7 | 11.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 10.5 | 10.7 | 10.6 | 10.8 | 11.2 | 11.6 | 11.75 |
| 24.2 | 26.2 | 27.0 | 27.8 | 29.1 | 29.9 | 30.6 | 31.5 | 32.4 | 33.2 | 33.6 | 34.0 | 23.44 |
| 38.7 | 38.8 | 37.4 | 37.8 | 37.0 | 36.0 | 34.6 | 32.8 | 31.0 | 31.2 | 31.0 | 31.0 | 37.40 |
| 14.7 | 12.4 | 11.4 | 10.4 | 7.8 | 5.6 | 4.0 | 2.6 | 1.3 | 0.9 | 0.8 | 0.1 | 15.02 |
| 3.0 | 2.5 | 2.4 | 1.6 | 0.3 | — 0.5 | — 1.2 | — 1.8 | — 1.9 | — 2.1 | — 1.9 | — 2.2 | 0.28 |
| 5.1 | 3.7 | 2.8 | 1.8 | 1.0 | — 0.3 | — 1.1 | — 2.0 | — 2.8 | — 3.8 | — 4.4 | — 5.2 | 0.49 |
| 4.7 | 3.4 | 3.0 | 2.8 | 3.0 | 3.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | 1.7 | 0.1 | — 1.2 | — 1.7 | — 1.0 | 1.45 |
| 5.7 | 6.6 | 7.5 | 8.0 | 7.5 | 7.6 | 8.1 | 8.0 | 7.7 | 7.5 | 8.0 | 8.4 | 4.80 |
| 13.9 | 11.5 | 10.3 | 9.4 | 8.4 | 7.2 | 7.4 | 4.8 | 2.2 | — 1.2 | — 0.5 | 1.4 | 10.01 |
| 6.4 | 7.2 | 6.4 | 8.7 | 8.2 | 6.8 | 6.4 | 7.2 | 7.8 | 7.0 | 3.9 | 2.2 | 6.57 |
| 21.95 | 21.49 | 21.10 | 21.07 | 20.79 | 20.34 | 19.97 | 18.85 | 18.57 | 18.46 | 18.45 | 18.20 | 20.67 |
| 23.4 | 24.0 | 22.7 | 22.2 | 22.2 | 22.7 | 23.0 | 23.8 | 22.7 | 22.2 | 21.8 | 20.2 | 19.37 |
| 24.1 | 22.2 | 19.1 | 14.6 | 12.2 | 12.7 | 14.9 | 18.7 | 20.9 | 22.7 | 22.7 | 23.6 | 22.24 |
| 15.4 | 13.2 | 12.0 | 13.3 | 13.2 | 12.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 29.4 | 30.0 | 30.5 | 31.4 | 31.7 | 32.0 | 22.73 |
| 34.0 | 34.2 | 34.1 | 33.8 | 33.7 | 33.5 | 32.8 | 32.9 | 33.2 | 33.0 | 32.8 | 32.6 | 33.44 |
| 32.5 | 32.8 | 31.7 | 29.5 | 28.2 | 27.2 | 26.1 | 23.7 | 17.2 | 15.0 | 18.2 | 19.0 | 29.66 |
| 25.2 | 21.2 | 18.0 | 17.4 | 16.4 | 19.6 | 19.4 | 22.4 | 22.5 | 22.2 | 22.2 | 20.6 | 22.78 |
| 26.0 | 25.7 | 25.2 | 25.0 | 24.2 | 24.8 | 23.4 | 21.3 | 18.2 | 16.2 | 14.3 | 11.4 | 22.96 |
| 11.0 | 9.8 | 8.4 | 28.2 | 5.2 | 6.8 | 11.4 | 14.2 | 16.1 | 16.7 | 16.2 | 16.2 | 12.04 |
| 25.6 | 24.2 | 22.4 | 21.1 | 22.4 | 21.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 21.6 | 20.5 | 19.3 | 18.3 | 18.2 | 19.0 | 21.87 |
| 31.8 | 31.4 | 30.2 | 30.7 | 31.2 | 30.3 | 31.8 | 31.9 | 32.9 | 33.1 | 32.4 | 32.6 | 28.74 |
| 35.8 | 34.8 | 34.9 | 33.8 | 32.5 | 30.4 | 29.5 | 28.6 | 28.0 | 27.0 | 26.2 | 24.4 | 32.91 |
| 23.3 | 21.4 | 19.8 | 20.0 | 18.5 | 17.8 | 17.0 | 15.5 | 18.7 | 21.4 | 19.8 | 19.8 | 22.46 |
| 32.0 | 31.8 | 31.4 | 30.7 | 30.6 | 29.7 | 28.9 | 28.8 | 30.3 | 30.7 | 30.2 | 30.0 | 30.21 |
| 32.5 | 31.7 | 29.7 | 28.7 | 26.7 | 26.5 | 26.4 | 26.0 | 26.5 | 26.0 | 24.8 | 23.0 | 29.97 |
| 12.2 | 11.1 | 10.7 | 10.8 | 10.8 | 11.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 26.9 | 26.2 | 25.8 | 25.7 | 25.8 | 25.6 | 19.67 |
| 37.2 | 35.8 | 34.3 | 34.1 | 34.1 | 34.0 | 33.4 | 32.5 | 32.8 | 33.5 | 33.2 | 34.6 | 33.49 |
| 39.2 | 41.7 | 40.2 | 37.0 | 33.8 | 32.5 | 35.4 | 35.8 | 36.2 | 35.4 | 35.7 | 35.8 | 38.33 |
| 36.0 | 37.0 | 36.8 | 35.9 | 35.2 | 34.3 | 33.7 | 33.8 | 32.8 | 30.2 | 30.9 | 29.4 | 35.53 |
| 42.3 | 38.4 | 35.4 | 33.6 | 32.2 | 30.4 | 28.2 | 27.8 | 27.8 | 28.2 | 29.1 | 31.0 | 35.89 |
| 26.6 | 26.2 | 26.4 | 25.0 | 25.0 | 24.0 | 22.8 | 19.2 | 17.0 | 14.6 | 12.9 | 11.7 | 26.10 |
| 19.8 | 16.5 | 14.8 | 14.9 | 14.1 | 13.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 22.8 | 22.5 | 23.0 | 23.6 | 24.8 | 25.0 | 18.57 |
| 34.6 | 33.9 | 33.8 | 34.3 | 34.5 | 34.8 | 34.8 | 36.7 | 36.8 | 35.1 | 34.2 | 33.2 | 34.16 |
| 30.8 | 29.2 | 28.8 | 28.2 | 28.0 | 27.8 | 27.3 | 27.2 | 27.5 | 26.9 | 26.1 | 25.0 | 30.07 |
| 30.0 | 30.2 | 30.9 | 31.7 | 32.7 | 33.2 | 33.2 | 33.2 | 33.8 | 33.6 | 33.5 | 34.0 | 31.85 |
| 38.2 | 38.9 | 40.4 | 41.2 | 40.8 | 39.8 | 38.4 | 36.8 | 36.4 | 36.0 | 36.8 | 37.0 | 37.97 |
| 28.78 | 27.89 | 26.88 | 26.23 | 25.54 | 25.25 | 26.90 | 26.80 | 26.68 | 26.35 | 26.18 | 25.83 | 27.72 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 37.0 | 36.8 | 37.8 | 39.4 | 41.2 | 41.6 | 41.3 | 41.8 | 42.6 | 39.8 | 40.0 | 40.1 |
| | 2 | 36.4 | 36.2 | 35.6 | 36.0 | 36.8 | 37.8 | 38.5 | 38.9 | 40.8 | 38.8 | 38.0 | 35.8 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 18.0 | 16.4 | 16.0 | 17.6 | 18.6 | 19.8 | 21.8 | 23.1 | 25.0 | 26.3 | 26.1 | 26.0 |
| | 5 | 12.0 | 14.6 | 15.4 | 20.2 | 24.5 | 30.0 | 32.4 | 35.2 | 37.6 | 37.4 | 35.4 | 35.0 |
| | 6 | 26.6 | 27.0 | 29.8 | 33.8 | 35.4 | 37.0 | 38.8 | 37.0 | 38.5 | 38.7 | 36.1 | 34.6 |
| | 7 | 30.0 | 30.2 | 33.2 | 36.4 | 38.0 | 39.2 | 41.4 | 42.7 | 43.8 | 41.4 | 40.6 | 41.2 |
| | 8 | 32.6 | 33.2 | 34.6 | 38.4 | 39.6 | 40.0 | 39.0 | 39.0 | 39.8 | 40.0 | 41.5 | 41.6 |
| | 9 | 31.2 | 30.2 | 30.0 | 31.4 | 33.0 | 33.6 | 34.8 | 36.0 | 36.2 | 35.2 | 34.7 | 35.7 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 29.4 | 30.2 | 33.0 | 37.6 | 39.2 | 42.2 | 45.0 | 49.0 | 49.6 | 48.0 | 45.4 | 43.4 |
| | 12 | 36.4 | 38.0 | 40.8 | 42.2 | 45.0 | 44.0 | 43.0 | 41.6 | 40.3 | 40.4 | 40.2 | 39.9 |
| | 13 | 39.0 | 39.6 | 40.0 | 42.4 | 45.4 | 45.8 | 46.8 | 45.7 | 45.5 | 43.8 | 43.2 | 41.6 |
| | 14 | 29.2 | 28.8 | 28.8 | 29.4 | 30.6 | 32.6 | 33.8 | 34.0 | 35.2 | 35.4 | 35.6 | 32.8 |
| | 15 | 30.6 | 31.0 | 30.4 | 30.4 | 30.8 | 30.4 | 32.0 | 33.3 | 33.9 | 33.5 | 34.3 | 34.3 |
| | 16 | 35.6 | 34.8 | 35.0 | 35.6 | 35.2 | 35.4 | 36.0 | 37.3 | 37.8 | 38.4 | 37.6 | 36.8 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 18.2 | 19.2 | 17.8 | 19.2 | 19.8 | 20.5 | 20.4 | 20.4 | 18.4 | 16.8 | 16.3 | 15.3 |
| | 19 | 14.4 | 16.0 | 17.6 | 21.6 | 25.0 | 26.8 | 28.8 | 30.5 | 33.5 | 32.8 | 30.6 | 29.0 |
| | 20 | 30.8 | 31.4 | 30.4 | 30.2 | 30.4 | 30.4 | 30.8 | 30.5 | 30.2 | 30.0 | 29.5 | 29.7 |
| | 21 | 15.4 | 14.8 | 16.7 | 19.1 | 20.8 | 22.8 | 24.4 | 26.5 | 28.0 | 29.1 | 30.2 | 30.6 |
| | 22 | 26.0 | 26.0 | 26.6 | 26.6 | 27.0 | 28.4 | 28.8 | 31.2 | 32.0 | 33.1 | 32.9 | 33.6 |
| | 23 | 20.2 | 20.8 | 22.2 | 24.2 | 26.4 | 28.0 | 30.0 | 31.8 | 33.0 | 34.2 | 36.7 | 37.4 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 42.0 | 42.6 | 45.2 | 44.6 | 44.4 | 42.4 | 42.8 | 44.6 | 46.5 | 49.5 | 50.7 | 49.5 |
| | 26 | 32.8 | 33.8 | 36.0 | 40.4 | 41.2 | 42.2 | 45.0 | 46.8 | 48.6 | 45.2 | 41.2 | 39.9 |
| | 27 | 33.4 | 33.2 | 32.0 | 31.8 | 31.6 | 30.9 | 31.2 | 31.7 | 33.1 | 33.3 | 32.9 | 32.8 |
| | 28 | 39.0 | 39.8 | 40.2 | 40.0 | 40.2 | 41.0 | 41.0 | 41.2 | 42.7 | 42.3 | 42.6 | 43.5 |
| | 29 | 25.4 | 23.2 | 23.6 | 25.0 | 27.8 | 30.2 | 32.2 | 34.4 | 33.2 | 33.4 | 32.2 | 31.8 |
| | 30 | 19.8 | 20.4 | 21.0 | 20.4 | 20.4 | 21.0 | 22.2 | 23.2 | 24.3 | 25.7 | 26.2 | 28.4 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 28.52 | 28.78 | 29.60 | 31.30 | 32.63 | 33.62 | 34.70 | 35.67 | 36.54 | 36.25 | 35.80 | 35.40 | |
| APRIL. | 1 | 21.4 | 24.8 | 29.8 | 31.8 | 32.4 | 34.2 | 35.4 | 37.3 | 37.3 | 39.2 | 38.8 | 37.4 |
| | 2 | 33.2 | 34.8 | 37.0 | 38.4 | 39.5 | 40.5 | 41.5 | 43.7 | 44.8 | 45.5 | 44.2 | 42.8 |
| | 3 | 36.0 | 37.4 | 43.0 | 45.8 | 49.0 | 50.8 | 54.2 | 57.2 | 58.3 | 61.5 | 62.4 | 70.0 |
| | 4 | 47.2 | 47.6 | 49.8 | 54.6 | 55.2 | 55.5 | 55.5 | 60.0 | 57.4 | 63.4 | 53.4 | 48.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 38.8 | 39.0 | 38.8 | 38.6 | 37.8 | 37.6 | 38.0 | 39.8 | 39.7 | 40.1 | 39.5 | 39.3 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 35.6 | 40.8 | 43.8 | 48.6 | 47.4 | 52.0 | 53.8 | 60.1 | 66.1 | 67.1 | 63.1 | 65.5 |
| | 9 | 42.2 | 45.0 | 48.2 | 52.4 | 55.2 | 57.5 | 58.6 | 57.5 | 56.7 | 59.7 | 61.3 | 62.0 |
| | 10 | 36.0 | 41.6 | 47.4 | 49.4 | 52.8 | 55.8 | 59.4 | 62.8 | 67.4 | 67.6 | 67.6 | 65.2 |
| | 11 | 41.5 | 46.6 | 49.0 | 51.8 | 53.2 | 51.8 | 53.8 | 57.0 | 63.9 | 59.7 | 64.5 | 60.5 |
| | 12 | 43.4 | 49.0 | 54.8 | 57.2 | 60.0 | 61.5 | 63.8 | 65.5 | 66.2 | 69.7 | 66.4 | 63.4 |
| | 13 | 44.8 | 48.2 | 54.0 | 58.5 | 60.2 | 64.4 | 66.2 | 69.7 | 70.8 | 72.0 | 70.1 | 69.5 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 55.0 | 56.2 | 56.8 | 59.8 | 61.0 | 58.8 | 58.4 | 57.3 | 55.1 | 55.1 | 56.6 | 54.2 |
| | 16 | 46.4 | 44.8 | 45.6 | 50.0 | 52.8 | 61.0 | 60.2 | 60.8 | 59.7 | 59.8 | 60.2 | 59.1 |
| | 17 | 38.6 | 39.4 | 40.0 | 41.8 | 41.9 | 43.5 | 46.7 | 47.4 | 48.7 | 49.6 | 49.8 | 50.3 |
| | 18 | 32.0 | 35.8 | 38.8 | 41.4 | 43.4 | 45.2 | 45.2 | 46.4 | 48.2 | 49.3 | 49.3 | 48.5 |
| | 19 | 30.4 | 36.4 | 40.4 | 42.7 | 47.0 | 49.6 | 53.4 | 56.8 | 56.8 | 55.0 | 53.0 | 56.0 |
| | 20 | 35.8 | 42.8 | 46.8 | 49.4 | 51.4 | 54.6 | 57.0 | 57.3 | 60.1 | 58.2 | 56.5 | 58.7 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 50.0 | 50.4 | 51.0 | 51.6 | 51.8 | 50.4 | 48.8 | 50.4 | 49.4 | 53.6 | 51.8 | 50.6 |
| | 23 | 49.0 | 50.8 | 51.8 | 52.6 | 55.4 | 56.4 | 59.2 | 59.8 | 60.1 | 63.8 | 63.2 | 66.0 |
| | 24 | 50.4 | 53.8 | 56.0 | 55.8 | 64.0 | 65.0 | 66.8 | 75.0 | 73.9 | 70.4 | 68.0 | 66.4 |
| | 25 | 39.8 | 43.0 | 47.6 | 50.8 | 52.2 | 54.9 | 56.2 | 57.7 | 59.5 | 56.5 | 54.8 | 54.4 |
| | 26 | 47.2 | 45.8 | 47.4 | 49.6 | 48.6 | 47.2 | 47.0 | 46.9 | 46.5 | 44.6 | 43.4 | 42.1 |
| | 27 | 34.8 | 36.0 | 38.0 | 40.6 | 41.4 | 44.8 | 44.8 | 46.7 | 47.9 | 47.9 | 49.8 | 48.9 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 38.4 | 44.8 | 47.8 | 50.4 | 52.8 | 54.6 | 56.4 | 58.1 | 60.2 | 59.9 | 61.7 | 65.6 |
| | 30 | 39.8 | 44.8 | 47.8 | 51.4 | 54.7 | 53.4 | 59.5 | 62.5 | 59.0 | 58.5 | 56.6 | 55.5 |
| Hourly Means | 40.31 | 43.18 | 46.06 | 48.60 | 50.44 | 52.02 | 53.59 | 55.75 | 56.55 | 57.11 | 56.24 | 56.02 | |

* Good Friday.

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 39.4 | 38.4 | 38.8 | 39.3 | 42.7 | 49.3 | 48.9 | 48.0 | 41.8 | 39.9 | 38.3 | 37.4 | 40.90 |
| 35.2 | 34.6 | 34.2 | 32.2 | 31.8 | 31.2 | — | — | — | — | — | — | 33.21 |
| — | — | — | — | — | — | 28.3 | 26.5 | 25.4 | 24.4 | 23.3 | 20.4 | 18.30 |
| 23.0 | 21.0 | 19.5 | 18.5 | 18.0 | 14.2 | 13.2 | 12.6 | 11.1 | 10.9 | 11.2 | 11.4 | 30.38 |
| 35.7 | 35.9 | 35.7 | 34.8 | 34.7 | 35.1 | 33.9 | 32.8 | 31.5 | 30.4 | 30.0 | 29.0 | 32.74 |
| 33.2 | 32.7 | 31.1 | 31.4 | 31.8 | 30.2 | 30.6 | 30.7 | 30.3 | 30.6 | 30.3 | 29.6 | 35.26 |
| 37.5 | 35.4 | 33.0 | 32.5 | 31.5 | 30.5 | 30.6 | 30.6 | 30.8 | 31.4 | 31.8 | 32.6 | 38.35 |
| 41.0 | 42.5 | 41.9 | 41.7 | 40.3 | 39.7 | 38.7 | 37.2 | 36.5 | 35.0 | 34.4 | 32.2 | — |
| 32.8 | 29.7 | 29.2 | 28.4 | 27.8 | 27.6 | — | — | — | — | — | — | 31.67 |
| — | — | — | — | — | — | 33.3 | 30.8 | 29.9 | 29.7 | 29.4 | 29.4 | 38.95 |
| 38.3 | 37.5 | 38.5 | 37.9 | 37.3 | 37.1 | 36.7 | 35.8 | 35.2 | 35.4 | 36.0 | 37.0 | 40.35 |
| 39.7 | 40.0 | 40.1 | 39.8 | 39.4 | 39.5 | 39.4 | 39.8 | 39.8 | 39.7 | 39.9 | 39.4 | 38.41 |
| 40.4 | 39.6 | 38.4 | 35.2 | 32.7 | 32.0 | 31.3 | 31.0 | 30.7 | 31.5 | 30.3 | 30.0 | 39.98 |
| 30.4 | 28.9 | 28.2 | 28.7 | 29.0 | 30.1 | 30.4 | 30.5 | 31.2 | 30.0 | 30.0 | 30.0 | 33.73 |
| 34.5 | 35.1 | 35.1 | 35.5 | 35.2 | 35.5 | 35.4 | 35.6 | 35.8 | 36.2 | 35.4 | 35.4 | — |
| 34.8 | 33.4 | 32.4 | 30.7 | 30.2 | 30.3 | — | — | — | — | — | — | 31.31 |
| — | — | — | — | — | — | 23.2 | 22.2 | 20.5 | 20.4 | 19.2 | 18.6 | 16.63 |
| 15.0 | 14.7 | 14.5 | 14.4 | 14.5 | 13.8 | 15.2 | 14.9 | 14.8 | 15.0 | 15.2 | 14.8 | 27.22 |
| 28.6 | 28.0 | 27.8 | 27.8 | 28.3 | 28.6 | 28.8 | 28.8 | 29.5 | 29.4 | 30.2 | 31.0 | 26.63 |
| 29.5 | 29.1 | 28.0 | 26.7 | 25.5 | 24.5 | 22.5 | 20.6 | 18.4 | 16.8 | 16.8 | 16.5 | 24.57 |
| 27.0 | 26.8 | 26.7 | 26.0 | 25.4 | 25.6 | 25.5 | 26.1 | 25.5 | 25.4 | 25.6 | 25.6 | 27.56 |
| 32.0 | 27.8 | 28.4 | 27.5 | 26.7 | 26.0 | 25.6 | 25.0 | 24.6 | 22.6 | 22.1 | 21.0 | — |
| 35.4 | 30.1 | 27.3 | 26.0 | 24.8 | 23.7 | — | — | — | — | — | — | 31.09 |
| — | — | — | — | — | — | 36.5 | 39.8 | 40.4 | 40.6 | 38.9 | 37.8 | 39.80 |
| 43.5 | 37.8 | 32.5 | 31.8 | 32.0 | 34.3 | 35.9 | 34.1 | 31.7 | 31.8 | 32.5 | 32.4 | 38.24 |
| 38.5 | 37.7 | 36.2 | 35.2 | 34.8 | 34.9 | 34.5 | 34.0 | 34.8 | 35.0 | 34.8 | 34.2 | 33.12 |
| 33.0 | 33.1 | 34.1 | 33.0 | 32.8 | 32.0 | 33.2 | 33.6 | 33.5 | 34.3 | 36.7 | 37.6 | 38.48 |
| 45.0 | 43.0 | 41.4 | 37.8 | 37.2 | 36.4 | 34.8 | 33.0 | 32.7 | 31.3 | 30.0 | 27.4 | 27.92 |
| 31.6 | 31.9 | 31.1 | 29.4 | 27.5 | 25.9 | 24.7 | 24.0 | 23.2 | 21.8 | 21.4 | 25.2 | — |
| 28.1 | 24.7 | 22.4 | 20.8 | 20.4 | 19.8 | — | — | — | — | — | — | 21.69 |
| — | — | — | — | — | — | 19.3 | 17.9 | 18.7 | 19.5 | 18.0 | 18.0 | — |
| 33.97 | 32.67 | 31.79 | 30.88 | 30.47 | 30.30 | 30.40 | 29.84 | 29.17 | 28.81 | 28.53 | 28.23 | 31.83 |
| 33.6 | 31.7 | 31.3 | 31.9 | 31.9 | 31.5 | 32.3 | 32.5 | 32.8 | 32.8 | 32.5 | 32.4 | 32.79 |
| 41.4 | 39.4 | 40.8 | 41.2 | 39.0 | 38.5 | 37.0 | 38.1 | 38.7 | 40.0 | 38.2 | 36.4 | 39.77 |
| 67.6 | 60.2 | 49.2 | 45.5 | 47.2 | 52.4 | 54.9 | 55.1 | 54.3 | 47.1 | 46.1 | 46.6 | 52.16 |
| 47.3 | 46.7 | 45.3 | 44.7 | 43.8 | 42.5 | — | — | — | — | — | — | 47.89 |
| — | — | — | — | — | — | 37.4 | 37.3 | 38.7 | 39.2 | 39.7 | 39.0 | — |
| 39.6 | 39.5 | 39.7 | 39.5 | 39.1 | 39.0 | — | — | — | — | — | — | 38.31 |
| — | — | — | — | — | — | 36.4 | 35.7 | 36.2 | 36.8 | 36.0 | 35.0 | — |
| 63.6 | 59.0 | 56.0 | 54.8 | 54.0 | 49.7 | 47.4 | 44.5 | 42.8 | 41.6 | 41.5 | 41.8 | 51.69 |
| 60.0 | 51.4 | 47.5 | 44.9 | 42.9 | 41.7 | 39.9 | 38.7 | 38.3 | 36.8 | 36.7 | 35.4 | 48.77 |
| 62.5 | 56.4 | 53.6 | 50.4 | 47.3 | 46.5 | 42.7 | 40.5 | 40.0 | 38.8 | 39.4 | 40.0 | 51.30 |
| 56.8 | 53.1 | 51.9 | 50.8 | 48.8 | 47.0 | 44.8 | 43.4 | 42.6 | 41.4 | 42.8 | 42.6 | 50.80 |
| 60.5 | 54.4 | 52.4 | 51.2 | 49.2 | 48.2 | 46.7 | 49.2 | 46.0 | 46.3 | 47.3 | 44.2 | 54.85 |
| 60.3 | 57.2 | 52.8 | 51.9 | 50.6 | 49.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.1 | 60.2 | 58.5 | 56.6 | 56.5 | 55.2 | 59.08 |
| 52.1 | 50.4 | 48.8 | 47.8 | 46.7 | 48.8 | 47.8 | 47.5 | 47.0 | 47.5 | 48.2 | 46.8 | 52.65 |
| 57.6 | 56.4 | 50.7 | 48.6 | 48.0 | 49.8 | 47.3 | 46.0 | 45.8 | 43.2 | 40.0 | 38.6 | 51.35 |
| 49.2 | 42.0 | 38.9 | 36.2 | 34.0 | 33.6 | 33.4 | 32.8 | 32.4 | 32.1 | 31.5 | 31.0 | 40.20 |
| 45.0 | 40.4 | 35.8 | 34.4 | 35.3 | 35.1 | 34.2 | 31.8 | 30.7 | 30.3 | 29.5 | 29.2 | 38.97 |
| 50.2 | 47.9 | 46.3 | 45.1 | 40.7 | 39.6 | 37.3 | 36.8 | 36.7 | 35.8 | 35.0 | 34.2 | 44.30 |
| 56.0 | 51.6 | 47.1 | 44.2 | 42.4 | 40.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 51.9 | 51.5 | 51.2 | 50.7 | 50.3 | 49.8 | 50.67 |
| 49.8 | 50.3 | 51.8 | 52.9 | 52.3 | 52.3 | 49.7 | 47.0 | 47.4 | 49.2 | 48.0 | 47.8 | 50.35 |
| 68.2 | 66.2 | 52.6 | 50.6 | 49.5 | 55.0 | 51.6 | 50.8 | 51.0 | 48.7 | 50.2 | 50.0 | 55.52 |
| 62.6 | 57.4 | 52.8 | 49.2 | 48.2 | 46.8 | 45.5 | 44.4 | 42.9 | 39.9 | 41.0 | 40.4 | 55.69 |
| 52.5 | 51.2 | 50.2 | 49.8 | 49.2 | 49.1 | 47.6 | 47.5 | 46.4 | 47.2 | 46.6 | 47.6 | 50.51 |
| 42.1 | 41.9 | 41.1 | 40.0 | 39.8 | 39.7 | 39.8 | 39.2 | 37.3 | 36.6 | 35.2 | 34.2 | 42.63 |
| 46.4 | 45.0 | 38.0 | 35.3 | 34.2 | 32.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.4 | 42.8 | 40.0 | 38.0 | 36.2 | 37.7 | 41.35 |
| 60.7 | 55.0 | 48.5 | 44.0 | 41.2 | 40.0 | 39.0 | 37.7 | 36.8 | 36.9 | 35.8 | 36.8 | 48.46 |
| 54.8 | 52.0 | 51.6 | 51.8 | 51.2 | 51.2 | 51.4 | 51.9 | 51.9 | 49.8 | 50.8 | 54.0 | 52.75 |
| 53.62 | 50.27 | 46.99 | 45.47 | 44.26 | 44.05 | 44.02 | 43.32 | 42.66 | 41.73 | 41.40 | 41.07 | 48.11 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MAY. | 1 | 55.6 | 56.2 | 61.4 | 63.2 | 65.5 | 64.2 | 64.2 | 63.6 | 62.2 | 62.0 | 61.7 | 62.6 |
| | 2 | 52.8 | 55.6 | 56.8 | 58.6 | 59.0 | 62.8 | 65.4 | 67.7 | 68.1 | 71.7 | 68.7 | 64.0 |
| | 3 | 50.6 | 55.0 | 57.2 | 58.0 | 59.2 | 62.0 | 62.4 | 62.4 | 61.4 | 60.7 | 65.1 | 68.2 |
| | 4 | 50.0 | 50.4 | 52.0 | 53.8 | 52.0 | 54.8 | 57.0 | 55.5 | 55.4 | 56.5 | 51.8 | 52.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 48.8 | 49.4 | 47.4 | 47.2 | 48.2 | 50.8 | 55.0 | 55.7 | 56.0 | 57.1 | 56.7 | 50.0 |
| | 7 | 49.0 | 51.0 | 53.2 | 54.6 | 56.0 | 57.4 | 59.0 | 61.4 | 65.4 | 67.5 | 69.2 | 72.3 |
| | 8 | 53.4 | 54.2 | 55.6 | 57.6 | 58.6 | 61.0 | 64.0 | 66.7 | 68.2 | 68.7 | 64.8 | 65.1 |
| | 9 | 45.2 | 47.4 | 50.0 | 53.6 | 56.7 | 58.6 | 60.2 | 61.2 | 62.7 | 63.6 | 64.1 | 64.5 |
| | 10 | 39.0 | 45.8 | 47.4 | 49.6 | 50.8 | 51.4 | 50.6 | 51.2 | 51.0 | 48.2 | 46.4 | 48.4 |
| | 11 | 49.8 | 48.8 | 50.4 | 57.8 | 61.8 | 61.8 | 66.8 | 65.7 | 71.4 | 71.1 | 65.7 | 66.6 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 38.6 | 43.2 | 46.2 | 47.6 | 47.2 | 49.0 | 47.8 | 47.8 | 45.4 | 44.5 | 43.5 | 42.3 |
| | 14 | 46.0 | 46.8 | 47.2 | 50.0 | 52.9 | 54.6 | 57.0 | 59.1 | 59.4 | 60.9 | 63.9 | 65.7 |
| | 15 | 43.0 | 47.2 | 50.6 | 53.6 | 54.8 | 58.6 | 63.0 | 66.8 | 63.9 | 62.8 | 60.0 | 63.0 |
| | 16 | 50.0 | 52.2 | 54.6 | 57.2 | 60.8 | 63.4 | 63.0 | 61.8 | 60.6 | 59.4 | 58.8 | 58.7 |
| | 17 | 51.2 | 51.6 | 52.6 | 56.2 | 60.0 | 58.6 | 59.8 | 59.1 | 59.3 | 56.7 | 55.9 | 56.4 |
| | 18 | 48.0 | 49.0 | 51.0 | 54.6 | 55.2 | 57.0 | 53.8 | 54.6 | 57.3 | 56.5 | 59.6 | 61.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 47.0 | 47.4 | 49.0 | 53.4 | 57.2 | 55.2 | 54.4 | 63.6 | 64.3 | 59.8 | 57.0 | 53.9 |
| | 21 | 36.8 | 37.0 | 37.4 | 39.2 | 41.7 | 44.0 | 46.6 | 47.6 | 49.7 | 51.9 | 54.2 | 54.8 |
| | 22 | 35.0 | 41.6 | 44.8 | 47.0 | 51.6 | 54.3 | 56.6 | 58.0 | 59.2 | 59.2 | 59.9 | 59.4 |
| | 23 | 38.6 | 41.0 | 50.4 | 52.6 | 57.4 | 61.2 | 63.3 | 68.2 | 68.2 | 66.8 | 66.9 | 67.8 |
| | 24 | 52.0 | 54.8 | 57.4 | 60.2 | 62.8 | 65.6 | 64.8 | 66.0 | 65.1 | 63.6 | 68.2 | 72.4 |
| | 25 | 55.8 | 59.5 | 62.8 | 64.8 | 69.4 | 70.3 | 74.0 | 75.5 | 75.8 | 76.6 | 77.7 | 78.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 58.0 | 59.8 | 61.0 | 63.8 | 65.8 | 68.3 | 68.5 | 70.3 | — | — | 72.8 | 70.0 |
| | 28 | 57.0 | 58.0 | 59.5 | 61.2 | 64.0 | 66.0 | 66.8 | 69.4 | 69.0 | 71.4 | 70.4 | 70.2 |
| | 29 | 51.5 | 55.1 | 56.4 | 58.7 | 59.6 | 61.6 | 62.9 | 64.4 | 66.8 | 66.4 | 67.0 | 66.6 |
| | 30 | 51.6 | 53.0 | 53.4 | 53.8 | 56.0 | 56.4 | 62.8 | 67.0 | 63.4 | 60.5 | 60.4 | 61.8 |
| | 31 | 55.8 | 56.4 | 56.5 | 56.6 | 57.8 | 56.2 | 60.6 | 61.5 | 63.2 | 64.0 | 61.8 | 69.4 |
| Hourly Means | 48.52 | 50.64 | 52.67 | 54.99 | 57.11 | 58.71 | 60.38 | 61.92 | 62.02 | 61.85 | 61.93 | 62.44 | |
| JUNE. | 1 | 48.7 | 53.5 | 55.2 | 55.9 | 60.4 | 61.4 | 65.6 | 67.0 | 67.8 | 67.2 | 69.0 | 73.0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 47.0 | 49.5 | 53.0 | 56.9 | 58.8 | 59.2 | 59.3 | 61.5 | 64.2 | 65.5 | 66.8 | 68.4 |
| | 4 | 45.3 | 48.6 | 52.5 | 56.5 | 58.8 | 60.4 | 62.2 | 63.6 | 65.0 | 67.0 | 66.6 | 67.4 |
| | 5 | 53.2 | 53.4 | 55.0 | 57.8 | 58.8 | 62.0 | 66.6 | 69.3 | 69.2 | 66.8 | 68.4 | 65.5 |
| | 6 | 59.1 | 63.3 | 66.7 | 69.9 | 71.2 | 71.2 | 72.4 | 72.9 | 72.8 | 70.2 | 68.9 | 66.2 |
| | 7 | 53.5 | 53.6 | 53.4 | 56.2 | 59.8 | 62.6 | 64.6 | 68.2 | 67.6 | 69.8 | 72.0 | 71.2 |
| | 8 | 41.6 | 44.0 | 48.8 | 50.4 | 52.2 | 54.8 | 56.8 | 59.7 | 60.8 | 63.6 | 65.2 | 61.5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 45.8 | 49.4 | 53.6 | 55.4 | 56.8 | 57.0 | 58.0 | 58.9 | 58.6 | 59.2 | 57.6 | 57.2 |
| | 11 | 40.8 | 46.1 | 50.2 | 53.2 | 56.0 | 56.0 | 57.6 | 58.8 | 60.4 | 63.5 | 66.8 | 68.2 |
| | 12 | 48.0 | 51.7 | 52.6 | 55.8 | 58.0 | 60.8 | 63.8 | 66.1 | 65.0 | 65.2 | 64.8 | 65.7 |
| | 13 | 51.7 | 55.9 | 59.2 | 61.3 | 62.8 | 64.4 | 64.6 | 67.4 | 67.8 | 70.8 | 69.4 | 68.9 |
| | 14 | 54.4 | 58.2 | 62.3 | 62.3 | 62.3 | 64.2 | 65.8 | 69.2 | 72.4 | 71.6 | 73.2 | 72.2 |
| | 15 | 56.4 | 59.6 | 62.5 | 66.4 | 65.6 | 66.8 | 69.6 | 70.5 | 70.6 | 66.0 | 68.2 | 71.4 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 59.9 | 60.4 | 62.7 | 63.9 | 64.8 | 68.5 | 68.8 | 66.8 | 69.5 | 67.4 | 66.8 | 68.8 |
| | 18 | 63.0 | 66.5 | 68.6 | 71.6 | 73.8 | 73.0 | 75.0 | 74.0 | 77.7 | 82.2 | 76.2 | 83.1 |
| | 19 | 64.6 | 69.2 | 69.8 | 73.1 | 73.4 | 69.6 | 69.4 | 67.9 | 71.1 | 75.3 | 75.6 | 76.2 |
| | 20 | 59.5 | 61.0 | 63.4 | 66.0 | 67.9 | 69.7 | 69.9 | 71.1 | 72.3 | 71.2 | 70.2 | 69.4 |
| | 21 | 53.9 | 56.4 | 60.3 | 60.2 | 64.2 | 64.0 | 64.8 | 65.8 | 67.4 | 69.2 | 71.8 | 74.6 |
| | 22 | 54.0 | 55.8 | 57.8 | 61.2 | 62.8 | 64.5 | 65.6 | 67.8 | 69.8 | 71.4 | 70.8 | 70.3 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 58.4 | 61.6 | 65.8 | 68.4 | 70.6 | 69.2 | 73.0 | 75.0 | 72.8 | 71.6 | 72.0 | 76.4 |
| | 25 | 63.8 | 64.0 | 64.8 | 66.6 | 71.2 | 74.8 | 70.6 | 73.5 | 77.8 | 73.0 | 77.9 | 81.2 |
| | 26 | 63.7 | 62.3 | 63.2 | 62.6 | 64.4 | 67.7 | 67.6 | 66.3 | 66.7 | 66.7 | 66.2 | 65.6 |
| | 27 | 59.8 | 60.0 | 59.0 | 59.2 | 58.7 | 58.1 | 58.0 | 57.7 | 59.2 | 63.0 | 63.8 | 63.0 |
| | 28 | 60.8 | 61.8 | 61.4 | 61.8 | 64.0 | 65.8 | 67.4 | 67.6 | 67.2 | 70.4 | 71.0 | 71.1 |
| | 29 | 53.0 | 56.0 | 59.4 | 62.0 | 63.8 | 64.8 | 66.4 | 68.5 | 70.7 | 73.5 | 74.7 | 75.6 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 54.36 | 56.87 | 59.25 | 61.38 | 63.24 | 64.42 | 65.74 | 67.00 | 68.18 | 68.85 | 69.36 | 70.08 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 60.3 | 58.8 | 59.2 | 56.9 | 56.2 | 55.7 | 53.5 | 52.0 | 52.2 | 52.5 | 52.0 | 50.6 | 58.43 |
| 66.3 | 61.0 | 61.3 | 59.0 | 59.5 | 60.0 | 57.5 | 56.6 | 56.0 | 51.4 | 48.7 | 48.8 | 59.89 |
| 53.2 | 51.7 | 53.8 | 54.8 | 54.2 | 53.6 | 50.2 | 49.6 | 50.7 | 49.9 | 48.2 | 49.2 | 55.89 |
| 52.4 | 50.8 | 51.0 | 50.7 | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 47.8 | 46.5 | 46.7 | 47.6 | 50.2 | 49.0 | 51.58 |
| 49.8 | 50.0 | 50.6 | 52.2 | 51.8 | 50.7 | 50.2 | 50.1 | 50.2 | 50.2 | 48.7 | 48.0 | 51.03 |
| 70.1 | 57.7 | 52.7 | 49.6 | 48.0 | 49.2 | 50.4 | 50.0 | 49.6 | 50.4 | 50.6 | 52.6 | 56.12 |
| 62.5 | 57.2 | 54.7 | 53.4 | 49.8 | 47.6 | 45.4 | 45.4 | 44.6 | 44.8 | 44.0 | 44.0 | 55.47 |
| 61.4 | 56.0 | 50.8 | 46.2 | 44.9 | 42.7 | 41.3 | 41.2 | 38.3 | 35.5 | 33.9 | 34.0 | 50.58 |
| 47.9 | 46.5 | 44.9 | 44.4 | 45.1 | 45.0 | 44.5 | 44.8 | 45.8 | 46.9 | 50.5 | 51.6 | 47.41 |
| 66.3 | 66.8 | 62.7 | 60.5 | 57.8 | 56.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.8 | 39.1 | 36.2 | 34.5 | 35.4 | 36.0 | 55.37 |
| 41.9 | 42.3 | 41.6 | 40.7 | 40.0 | 40.8 | 42.5 | 42.0 | 43.5 | 44.5 | 44.0 | 45.0 | 43.83 |
| 63.1 | 55.3 | 49.5 | 48.4 | 45.5 | 43.8 | 42.2 | 41.0 | 39.9 | 38.8 | 39.7 | 38.8 | 50.40 |
| 58.2 | 55.0 | 53.2 | 52.9 | 53.4 | 52.8 | 54.5 | 53.6 | 52.8 | 51.7 | 50.2 | 49.4 | 55.21 |
| 59.9 | 54.7 | 51.7 | 51.2 | 49.1 | 49.5 | 50.0 | 49.8 | 50.4 | 50.2 | 50.6 | 50.6 | 54.92 |
| 54.0 | 53.5 | 54.9 | 54.8 | 54.0 | 53.2 | 50.4 | 50.2 | 50.0 | 48.4 | 47.2 | 47.2 | 53.97 |
| 60.4 | 57.2 | 52.0 | 48.7 | 42.2 | 39.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.5 | 45.8 | 45.8 | 46.0 | 45.7 | 45.8 | 51.35 |
| 49.5 | 45.9 | 45.1 | 44.8 | 44.2 | 43.2 | 41.0 | 38.7 | 36.9 | 34.8 | 33.3 | 35.0 | 48.11 |
| 52.6 | 47.2 | 41.8 | 40.4 | 39.3 | 34.1 | 32.2 | 32.0 | 30.9 | 30.3 | 29.3 | 29.8 | 40.87 |
| 57.9 | 52.7 | 49.7 | 45.4 | 43.4 | 43.9 | 39.9 | 38.0 | 38.4 | 37.9 | 37.2 | 37.0 | 47.83 |
| 68.1 | 64.7 | 56.7 | 56.0 | 55.2 | 53.8 | 51.0 | 48.8 | 47.4 | 46.1 | 45.3 | 45.8 | 55.89 |
| 71.5 | 65.4 | 59.8 | 57.6 | 56.2 | 55.7 | 55.1 | 53.9 | 53.7 | 53.9 | 54.3 | 54.5 | 60.19 |
| 72.4 | 70.6 | 66.1 | 62.7 | 63.2 | 63.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 58.3 | 58.2 | 57.6 | 57.2 | 55.6 | 55.8 | 65.88 |
| 69.8 | 66.6 | 64.8 | 62.3 | 62.2 | 59.0 | 59.2 | 58.0 | 57.0 | 56.4 | 55.4 | 54.4 | 62.88 |
| 66.7 | 63.5 | 59.9 | 57.8 | 56.4 | 55.2 | 55.0 | 53.8 | 51.5 | 49.8 | 47.0 | 48.2 | 60.32 |
| 61.0 | 57.6 | 55.0 | 51.5 | 53.0 | 53.2 | 54.0 | 54.9 | 54.2 | 54.2 | 52.9 | 51.6 | 57.92 |
| 59.8 | 58.4 | 58.5 | 58.7 | 58.4 | 58.7 | 57.6 | 57.4 | 56.6 | 55.8 | 55.4 | 56.5 | 58.00 |
| 66.7 | 59.5 | 55.9 | 53.4 | 51.2 | 47.8 | 46.4 | 45.4 | 45.0 | 44.2 | 43.4 | 42.7 | 55.06 |
| 60.14 | 56.54 | 54.00 | 52.41 | 51.32 | 50.31 | 48.72 | 48.03 | 47.48 | 46.81 | 46.25 | 46.37 | 54.22 |
| 65.4 | 68.6 | 65.6 | 62.8 | 60.7 | 59.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 47.0 | 46.6 | 46.0 | 45.2 | 45.4 | 44.8 | 58.44 |
| 67.0 | 59.4 | 52.0 | 49.8 | 46.7 | 44.8 | 43.7 | 43.3 | 42.4 | 42.7 | 41.9 | 40.8 | 53.52 |
| 63.0 | 57.8 | 54.6 | 52.3 | 49.9 | 48.8 | 49.1 | 48.9 | 49.8 | 50.3 | 50.4 | 52.0 | 55.87 |
| 64.0 | 60.5 | 58.9 | 58.6 | 58.6 | 57.1 | 57.4 | 57.4 | 57.4 | 57.4 | 57.8 | 57.7 | 60.37 |
| 64.4 | 63.6 | 60.2 | 57.6 | 54.8 | 53.6 | 51.2 | 52.2 | 53.0 | 52.8 | 52.8 | 52.6 | 62.23 |
| 68.8 | 61.8 | 55.2 | 50.9 | 48.0 | 45.9 | 42.0 | 39.6 | 38.6 | 35.1 | 34.6 | 34.8 | 54.49 |
| 59.0 | 55.5 | 55.3 | 54.0 | 53.0 | 50.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 47.8 | 44.4 | 43.6 | 42.8 | 42.8 | 40.8 | 52.03 |
| 56.6 | 54.2 | 49.4 | 47.0 | 44.4 | 42.4 | 41.6 | 41.2 | 39.5 | 38.7 | 35.1 | 35.4 | 49.71 |
| 67.6 | 62.6 | 53.2 | 49.3 | 47.0 | 43.7 | 42.3 | 42.6 | 44.0 | 43.3 | 42.8 | 43.2 | 52.47 |
| 61.9 | 58.3 | 56.1 | 54.2 | 53.6 | 51.9 | 49.0 | 47.0 | 47.8 | 48.4 | 49.8 | 48.4 | 56.00 |
| 69.4 | 61.8 | 56.4 | 53.2 | 51.2 | 50.4 | 48.2 | 46.8 | 46.4 | 47.3 | 47.8 | 49.0 | 58.00 |
| 72.8 | 63.6 | 59.4 | 56.8 | 56.4 | 55.5 | 53.9 | 52.6 | 52.6 | 52.0 | 50.4 | 51.6 | 61.07 |
| 70.2 | 64.9 | 59.8 | 56.5 | 55.2 | 54.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.8 | 59.4 | 58.8 | 59.0 | 59.4 | 58.8 | 62.92 |
| 68.0 | 65.6 | 63.2 | 62.8 | 62.4 | 62.1 | 62.7 | 62.0 | 61.4 | 60.2 | 60.6 | 61.2 | 64.15 |
| 82.7 | 75.4 | 69.2 | 66.4 | 66.4 | 66.3 | 66.2 | 64.2 | 64.8 | 63.0 | 63.2 | 62.4 | 70.62 |
| 72.1 | 74.3 | 68.2 | 64.7 | 63.0 | 62.4 | 63.2 | 61.6 | 60.4 | 60.2 | 58.8 | 58.7 | 67.62 |
| 69.8 | 67.6 | 61.2 | 58.0 | 56.0 | 54.6 | 52.0 | 51.9 | 51.3 | 51.7 | 50.6 | 51.7 | 62.00 |
| 72.0 | 69.4 | 57.2 | 54.5 | 56.2 | 55.2 | 54.7 | 54.0 | 53.0 | 52.8 | 52.6 | 52.6 | 60.70 |
| 71.4 | 67.1 | 61.5 | 54.8 | 51.4 | 52.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.8 | 55.8 | 58.0 | 56.0 | 57.4 | 55.8 | 61.30 |
| 68.4 | 67.7 | 68.4 | 68.4 | 73.0 | 68.2 | 64.0 | 61.4 | 63.0 | 62.0 | 62.2 | 63.0 | 67.69 |
| 83.0 | 79.4 | 74.2 | 70.4 | 66.2 | 66.2 | 67.6 | 63.2 | 65.2 | 63.2 | 63.0 | 63.2 | 70.17 |
| 65.2 | 64.4 | 63.4 | 62.4 | 60.8 | 60.6 | 60.6 | 60.6 | 60.0 | 60.0 | 60.2 | 60.2 | 63.39 |
| 63.4 | 62.0 | 61.6 | 61.7 | 61.9 | 61.6 | 61.7 | 65.4 | 63.8 | 62.3 | 60.9 | 60.6 | 61.10 |
| 68.3 | 64.8 | 60.7 | 57.4 | 55.4 | 53.4 | 52.6 | 52.4 | 50.6 | 47.2 | 47.6 | 50.0 | 60.45 |
| 74.7 | 67.0 | 59.2 | 55.0 | 53.8 | 54.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63.8 | 63.8 | 63.4 | 63.5 | 63.6 | 65.4 | 64.00 |
| 68.36 | 64.69 | 60.16 | 57.58 | 56.24 | 55.05 | 54.40 | 53.53 | 53.39 | 52.68 | 52.47 | 52.59 | 60.41 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. } Hours of Mean Toronto Time. } | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 67.6 | 71.2 | 71.6 | 73.2 | 73.4 | 79.5 | 77.0 | 78.2 | 82.3 | 83.5 | 85.6 | 85.8 |
| | 2 | 54.0 | 61.6 | 64.1 | 66.7 | 69.2 | 71.9 | 73.4 | 75.8 | 74.8 | 74.8 | 78.1 | 74.4 |
| | 3 | 59.9 | 62.0 | 65.2 | 65.7 | 67.4 | 68.8 | 69.4 | 70.0 | 69.7 | 69.1 | 68.6 | 69.0 |
| | 4 | 47.8 | 51.3 | 54.3 | 56.4 | 58.3 | 59.1 | 60.8 | 63.2 | 63.5 | 64.0 | 69.0 | 70.9 |
| | 5 | 52.2 | 55.6 | 58.6 | 59.2 | 59.5 | 60.0 | 60.4 | 63.1 | 62.5 | 61.7 | 61.7 | 61.3 |
| | 6 | 67.8 | 68.6 | 71.2 | 73.8 | 75.4 | 76.5 | 78.1 | 79.8 | 79.6 | 80.2 | 78.6 | 77.8 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 50.7 | 53.6 | 58.2 | 61.8 | 63.8 | 65.0 | 68.2 | 72.0 | 73.6 | 77.0 | 78.6 | 75.1 |
| | 9 | 58.3 | 64.2 | 66.4 | 68.9 | 73.4 | 75.0 | 76.6 | 75.8 | 74.0 | 72.1 | 70.2 | 69.2 |
| | 10 | 69.2 | 73.5 | 73.8 | 75.6 | 76.5 | 77.0 | 76.4 | 74.8 | 77.2 | 77.0 | 77.2 | 75.1 |
| | 11 | 61.4 | 65.0 | 67.6 | 69.8 | 72.2 | 73.6 | 75.8 | 76.3 | 77.4 | 80.4 | 82.3 | 83.8 |
| | 12 | 58.4 | 62.7 | 63.1 | 65.3 | 65.7 | 69.7 | 72.9 | 77.6 | 78.8 | 79.9 | 79.4 | 80.6 |
| | 13 | 64.4 | 68.2 | 66.5 | 68.7 | 69.8 | 70.9 | 73.9 | 75.7 | 77.6 | 79.1 | 75.4 | 76.2 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 61.2 | 63.3 | 67.0 | 69.2 | 69.9 | 70.8 | 69.6 | 68.9 | 68.6 | 67.8 | 66.3 | 64.2 |
| | 16 | 58.8 | 59.0 | 59.7 | 62.8 | 64.2 | 66.1 | 66.9 | 69.2 | 64.4 | 70.2 | 68.0 | 69.6 |
| | 17 | 59.2 | 61.8 | 65.2 | 68.0 | 70.6 | 72.8 | 74.2 | 76.4 | 73.5 | 77.4 | 79.2 | 78.1 |
| | 18 | 55.3 | 60.1 | 64.1 | 65.9 | 68.8 | 71.5 | 73.3 | 75.0 | 73.9 | 74.3 | 74.2 | 75.0 |
| | 19 | 66.8 | 68.2 | 69.8 | 68.2 | 70.0 | 73.8 | 68.8 | 71.5 | 75.0 | 76.3 | 74.4 | 76.6 |
| | 20 | 60.0 | 62.4 | 64.9 | 66.8 | 64.6 | 70.7 | 72.2 | 73.2 | 75.2 | 73.2 | 75.8 | 78.3 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 60.4 | 65.4 | 67.6 | 70.7 | 74.0 | 78.2 | 78.2 | 79.5 | 79.8 | 77.8 | 76.8 | 77.4 |
| | 23 | 65.6 | 66.7 | 69.6 | 71.2 | 72.6 | 74.6 | 75.8 | 77.7 | 76.2 | 75.5 | 74.3 | 69.3 |
| | 24 | 61.4 | 62.2 | 62.8 | 65.2 | 66.8 | 69.4 | 69.6 | 71.2 | 72.2 | 72.0 | 70.0 | 69.3 |
| | 25 | 60.0 | 60.2 | 62.0 | 63.6 | 65.4 | 66.9 | 68.7 | 71.6 | 68.7 | 69.2 | 71.7 | 78.4 |
| | 26 | 58.6 | 61.0 | 63.2 | 65.0 | 65.0 | 67.2 | 68.2 | 70.0 | 72.0 | 71.8 | 74.8 | 74.9 |
| | 27 | 55.4 | 60.6 | 64.6 | 66.6 | 68.4 | 70.4 | 72.0 | 73.0 | 74.7 | 75.8 | 77.6 | 78.0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 62.3 | 64.8 | 67.6 | 69.4 | 72.2 | 74.6 | 75.6 | 79.6 | 81.5 | 82.5 | 83.0 | 81.2 |
| | 30 | 66.2 | 68.9 | 70.0 | 71.2 | 71.1 | 71.3 | 72.5 | 72.0 | 72.7 | 70.9 | 70.4 | 70.2 |
| | 31 | 68.8 | 71.0 | 74.4 | 76.0 | 78.1 | 78.9 | 80.4 | 81.2 | 83.4 | 83.7 | 75.4 | 84.8 |
| Hourly Means | 60.43 | 63.45 | 65.67 | 67.59 | 69.12 | 71.27 | 72.18 | 73.79 | 74.18 | 74.71 | 74.69 | 74.98 | |
| AUGUST. | 1 | 61.6 | 63.9 | 67.0 | 69.3 | 71.7 | 72.7 | 74.9 | 78.2 | 77.6 | 80.9 | 82.8 | 78.9 |
| | 2 | 57.8 | 63.6 | 66.6 | 68.8 | 70.8 | 72.7 | 73.0 | 73.7 | 75.5 | 75.3 | 77.8 | 78.6 |
| | 3 | 55.7 | 58.0 | 61.5 | 64.5 | 68.5 | 70.5 | 72.4 | 74.0 | 71.6 | 70.7 | 68.4 | 70.0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 48.5 | 55.2 | 58.7 | 62.3 | 65.9 | 67.7 | 69.7 | 71.7 | 73.9 | 72.0 | 70.4 | 69.4 |
| | 6 | 61.4 | 63.2 | 64.5 | 66.5 | 68.8 | 71.8 | 66.4 | 70.2 | 73.8 | 71.4 | 71.5 | 73.2 |
| | 7 | 51.5 | 57.3 | 62.1 | 65.5 | 68.2 | 71.0 | 74.4 | 74.8 | 75.4 | 74.8 | 74.8 | 76.3 |
| | 8 | 63.6 | 64.8 | 66.6 | 68.8 | 71.6 | 73.0 | 75.0 | 73.4 | 76.8 | 79.3 | 80.0 | 78.5 |
| | 9 | 67.7 | 68.6 | 71.7 | 72.1 | 73.8 | 77.8 | 78.3 | 76.8 | 76.6 | 76.6 | 72.8 | 78.3 |
| | 10 | 58.6 | 61.5 | 63.5 | 64.6 | 65.7 | 68.2 | 69.2 | 71.7 | 72.2 | 74.6 | 73.8 | 74.8 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 51.2 | 55.2 | 58.0 | 60.5 | 62.8 | 65.2 | 67.8 | 67.5 | 69.7 | 67.2 | 70.6 | 71.0 |
| | 13 | 53.4 | 54.8 | 58.0 | 63.3 | 65.6 | 66.7 | 68.4 | 68.4 | 70.2 | 68.4 | 67.0 | 67.0 |
| | 14 | 58.8 | 60.6 | 63.0 | 64.2 | 66.0 | 67.2 | 68.4 | 68.7 | 73.6 | 73.3 | 73.3 | 72.8 |
| | 15 | 62.0 | 65.0 | 67.7 | 69.0 | 70.7 | 73.2 | 74.3 | 76.4 | 78.0 | 74.6 | 74.4 | 75.5 |
| | 16 | 60.7 | 65.0 | 68.9 | 72.0 | 73.0 | 75.4 | 78.6 | 79.4 | 76.3 | 78.6 | 77.8 | 78.2 |
| | 17 | 64.2 | 65.8 | 68.0 | 69.8 | 72.0 | 73.8 | 76.4 | 76.2 | 75.6 | 77.2 | 76.2 | 74.5 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 66.2 | 67.0 | 67.2 | 69.5 | 71.4 | 74.0 | 75.8 | 74.6 | 74.4 | 78.8 | 80.4 | 80.4 |
| | 20 | 67.4 | 68.2 | 68.6 | 67.0 | 68.0 | 66.6 | 66.4 | 65.4 | 68.6 | 70.2 | 70.6 | 72.3 |
| | 21 | 53.8 | 55.4 | 57.5 | 59.5 | 61.6 | 62.9 | 64.3 | 66.3 | 66.6 | 68.0 | 69.8 | 68.3 |
| | 22 | 60.9 | 61.6 | 60.9 | 61.2 | 62.0 | 60.9 | 61.6 | 64.2 | 71.2 | 76.2 | 75.0 | 72.2 |
| | 23 | 65.2 | 67.0 | 68.0 | 69.0 | 65.8 | 69.0 | 70.7 | 71.6 | 72.8 | 73.6 | 73.8 | 72.3 |
| | 24 | 48.6 | 53.6 | 57.4 | 61.1 | 64.7 | 67.6 | 67.3 | 70.7 | 65.0 | 64.8 | 64.7 | 64.3 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 48.2 | 51.4 | 56.6 | 59.2 | 62.0 | 63.6 | 64.8 | 66.3 | 67.1 | 65.5 | 62.1 | 60.4 |
| | 27 | 55.0 | 55.9 | 57.8 | 59.5 | 61.4 | 61.2 | 61.5 | 63.8 | 59.6 | 66.6 | 62.6 | 66.9 |
| | 28 | 54.2 | 55.6 | 58.4 | 59.7 | 64.6 | 64.4 | 65.4 | 61.0 | 59.8 | 64.4 | 66.0 | 64.0 |
| | 29 | 54.6 | 55.4 | 57.8 | 62.4 | 64.6 | 66.6 | 68.4 | 68.2 | 70.0 | 68.8 | 71.8 | 71.2 |
| | 30 | 51.0 | 53.2 | 56.8 | 61.6 | 64.0 | 66.0 | 68.2 | 70.7 | 65.9 | 65.0 | 66.3 | 64.8 |
| | 31 | 61.6 | 63.4 | 64.6 | 65.8 | 70.2 | 69.2 | 70.2 | 71.6 | 71.8 | 73.8 | 74.6 | 77.8 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 57.90 | 60.38 | 62.87 | 65.05 | 67.24 | 68.85 | 70.07 | 70.97 | 71.47 | 72.24 | 72.20 | 72.29 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 84.4 | 71.3 | 71.2 | 66.3 | 61.3 | 59.6 | 55.0 | 54.8 | 53.0 | 51.8 | 53.6 | 52.3 | 69.31 |
| 71.6 | 70.6 | 68.2 | 66.8 | 63.6 | 62.0 | 60.8 | 62.3 | 61.4 | 62.1 | 57.1 | 56.2 | 66.73 |
| 67.4 | 63.6 | 58.2 | 55.3 | 54.2 | 52.7 | 50.3 | 47.2 | 43.0 | 41.4 | 40.8 | 41.4 | 59.18 |
| 70.2 | 63.5 | 54.9 | 51.7 | 51.0 | 51.8 | 51.7 | 50.0 | 47.0 | 45.0 | 44.4 | 45.4 | 56.05 |
| 60.4 | 60.6 | 61.0 | 60.8 | 61.2 | 59.0 | 61.4 | 62.4 | 61.4 | 61.8 | 61.0 | 62.5 | 60.39 |
| 77.0 | 73.7 | 67.0 | 63.8 | 61.2 | 59.5 | — | — | — | — | — | — | 66.11 |
| — | — | — | — | — | — | 46.6 | 46.6 | 46.2 | 46.0 | 45.4 | 46.3 | — |
| 73.5 | 68.1 | 64.2 | 65.2 | 58.6 | 57.2 | 55.8 | 55.8 | 55.2 | 52.2 | 55.5 | 54.4 | 63.05 |
| 72.2 | 71.6 | 69.0 | 65.2 | 63.8 | 64.9 | 64.8 | 64.8 | 64.6 | 65.2 | 65.6 | 66.8 | 68.44 |
| 69.3 | 65.2 | 64.2 | 64.0 | 64.3 | 64.0 | 63.4 | 62.5 | 61.6 | 61.4 | 60.0 | 59.6 | 69.28 |
| 81.7 | 77.8 | 68.6 | 65.8 | 63.5 | 60.4 | 55.9 | 51.8 | 53.0 | 53.6 | 52.8 | 53.2 | 67.65 |
| 76.0 | 71.7 | 67.8 | 65.8 | 62.8 | 62.2 | 61.4 | 63.6 | 66.2 | 63.4 | 63.2 | 62.3 | 68.35 |
| 75.8 | 71.0 | 66.6 | 64.4 | 63.6 | 64.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.3 | 61.4 | 62.2 | 60.2 | 60.6 | 59.8 | 68.14 |
| 62.8 | 62.2 | 61.6 | 61.3 | 60.9 | 59.5 | 59.3 | 59.8 | 59.6 | 59.2 | 59.2 | 58.8 | 63.79 |
| 76.5 | 70.5 | 64.7 | 63.1 | 61.5 | 60.7 | 57.6 | 56.6 | 57.4 | 58.7 | 58.4 | 57.0 | 63.40 |
| 76.4 | 72.0 | 64.0 | 59.8 | 56.6 | 56.0 | 54.6 | 51.2 | 51.0 | 50.0 | 49.0 | 49.6 | 64.44 |
| 76.3 | 71.2 | 68.4 | 69.4 | 67.6 | 66.2 | 66.6 | 65.6 | 63.1 | 62.2 | 64.9 | 64.6 | 68.23 |
| 71.2 | 68.6 | 66.0 | 64.1 | 62.7 | 62.2 | 62.1 | 61.8 | 61.2 | 60.6 | 58.7 | 58.4 | 67.37 |
| 79.2 | 72.3 | 67.5 | 59.6 | 55.6 | 55.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 58.0 | 56.6 | 55.8 | 55.8 | 55.4 | 55.2 | 65.15 |
| 79.7 | 75.2 | 72.0 | 72.3 | 68.8 | 67.0 | 65.6 | 64.8 | 65.2 | 64.5 | 63.8 | 64.2 | 71.20 |
| 68.7 | 70.4 | 67.7 | 65.8 | 65.0 | 64.6 | 62.6 | 62.4 | 62.4 | 61.6 | 62.2 | 61.7 | 68.51 |
| 67.0 | 65.3 | 63.8 | 64.6 | 62.8 | 62.8 | 62.3 | 62.1 | 61.6 | 61.8 | 61.7 | 60.6 | 65.36 |
| 77.2 | 72.0 | 60.2 | 58.2 | 56.2 | 55.2 | 55.2 | 55.3 | 57.0 | 57.6 | 57.5 | 55.6 | 63.48 |
| 76.3 | 67.3 | 59.2 | 57.2 | 55.7 | 54.4 | 53.4 | 53.0 | 52.4 | 52.2 | 52.3 | 51.2 | 62.35 |
| 75.9 | 67.9 | 61.7 | 57.7 | 54.6 | 56.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 58.2 | 57.8 | 57.6 | 56.6 | 55.4 | 54.8 | 64.66 |
| 77.4 | 74.7 | 72.9 | 71.3 | 68.0 | 64.8 | 63.4 | 62.6 | 62.6 | 64.0 | 64.0 | 64.3 | 71.01 |
| 69.6 | 69.8 | 69.0 | 68.8 | 68.8 | 69.2 | 69.2 | 69.3 | 69.1 | 69.0 | 69.0 | 67.4 | 69.82 |
| 86.0 | 76.6 | 69.4 | 65.8 | 70.0 | 71.0 | 66.0 | 63.4 | 61.9 | 60.4 | 59.8 | 59.6 | 72.75 |
| 74.06 | 69.80 | 65.52 | 63.49 | 61.63 | 60.85 | 59.28 | 58.72 | 58.25 | 57.71 | 57.46 | 57.16 | 66.08 |
| 78.9 | 75.5 | 71.4 | 69.5 | 66.8 | 64.5 | 61.9 | 57.0 | 55.6 | 55.6 | 55.0 | 55.2 | 68.60 |
| 77.3 | 72.4 | 65.2 | 63.4 | 61.6 | 59.8 | 58.8 | 56.4 | 54.6 | 52.8 | 53.0 | 53.2 | 65.95 |
| 68.6 | 67.3 | 62.8 | 62.4 | 62.2 | 61.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.0 | 49.4 | 48.6 | 43.0 | 47.6 | 47.2 | 61.73 |
| 68.0 | 65.6 | 65.2 | 61.8 | 60.6 | 61.4 | 62.4 | 62.8 | 62.0 | 62.8 | 61.9 | 61.4 | 64.22 |
| 70.0 | 68.6 | 62.2 | 59.1 | 57.2 | 55.3 | 55.0 | 56.0 | 55.0 | 52.5 | 50.5 | 49.8 | 63.08 |
| 72.2 | 67.7 | 66.2 | 65.0 | 64.9 | 64.6 | 63.4 | 62.8 | 62.8 | 62.3 | 62.0 | 62.0 | 66.75 |
| 74.2 | 70.6 | 68.2 | 67.1 | 66.0 | 67.0 | 67.4 | 67.4 | 67.4 | 67.0 | 66.8 | 68.1 | 70.36 |
| 72.0 | 74.2 | 72.0 | 69.8 | 69.6 | 67.6 | 65.4 | 63.8 | 62.0 | 59.8 | 58.7 | 58.4 | 70.18 |
| 73.5 | 69.2 | 60.0 | 55.8 | 57.6 | 56.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.3 | 50.8 | 48.8 | 47.6 | 44.8 | 48.4 | 61.80 |
| 66.0 | 59.4 | 56.6 | 55.2 | 54.5 | 53.9 | 52.4 | 50.6 | 49.2 | 48.6 | 48.2 | 49.0 | 58.76 |
| 66.3 | 62.5 | 61.1 | 60.4 | 59.7 | 60.1 | 59.2 | 59.4 | 60.4 | 60.0 | 59.7 | 59.2 | 62.49 |
| 71.7 | 66.7 | 64.7 | 61.7 | 69.2 | 59.2 | 59.2 | 59.0 | 58.4 | 59.6 | 69.4 | 61.6 | 64.68 |
| 72.3 | 67.1 | 65.2 | 62.8 | 61.6 | 61.8 | 61.0 | 61.2 | 61.0 | 59.8 | 59.5 | 59.3 | 67.23 |
| 73.4 | 73.6 | 71.6 | 69.9 | 68.9 | 68.7 | 68.2 | 69.4 | 67.8 | 66.6 | 65.6 | 63.6 | 71.30 |
| 69.9 | 66.9 | 64.3 | 63.1 | 62.5 | 60.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63.0 | 64.6 | 65.6 | 66.0 | 66.0 | 66.0 | 68.65 |
| 79.7 | 76.8 | 69.9 | 72.2 | 70.3 | 67.4 | 65.7 | 65.0 | 65.4 | 65.4 | 64.2 | 64.2 | 71.08 |
| 71.8 | 69.8 | 59.3 | 56.4 | 57.8 | 56.7 | 56.6 | 55.6 | 56.6 | 55.4 | 54.4 | 53.4 | 63.46 |
| 67.0 | 59.6 | 57.4 | 57.4 | 58.8 | 59.0 | 59.2 | 58.9 | 59.2 | 59.8 | 60.2 | 60.8 | 61.30 |
| 69.6 | 67.6 | 66.6 | 66.4 | 67.2 | 67.2 | 68.2 | 67.2 | 66.6 | 65.4 | 64.0 | 62.3 | 66.09 |
| 70.3 | 63.0 | 59.3 | 55.8 | 55.3 | 54.7 | 52.9 | 50.7 | 50.0 | 50.6 | 52.6 | 48.4 | 62.60 |
| 62.4 | 60.2 | 58.2 | 57.6 | 55.0 | 54.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.0 | 49.3 | 50.4 | 47.6 | 47.5 | 46.4 | 57.95 |
| 59.2 | 57.8 | 56.8 | 57.0 | 56.2 | 55.2 | 55.7 | 55.6 | 55.2 | 55.0 | 55.0 | 54.9 | 58.37 |
| 64.0 | 57.6 | 55.4 | 53.6 | 52.0 | 51.2 | 50.4 | 52.6 | 52.2 | 52.2 | 53.4 | 53.4 | 57.49 |
| 62.0 | 59.6 | 57.6 | 56.8 | 56.8 | 56.0 | 55.6 | 55.0 | 54.7 | 54.4 | 55.1 | 55.2 | 59.01 |
| 68.3 | 63.5 | 59.1 | 56.5 | 53.3 | 54.0 | 51.7 | 50.4 | 49.5 | 48.4 | 49.4 | 49.6 | 59.73 |
| 64.6 | 63.3 | 62.8 | 63.2 | 61.8 | 61.8 | 62.2 | 61.2 | 62.2 | 61.8 | 61.8 | 61.6 | 62.57 |
| 72.2 | 63.9 | 61.2 | 59.6 | 59.6 | 60.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.8 | 66.0 | 65.6 | 66.0 | 66.2 | 66.0 | 66.99 |
| 69.83 | 66.30 | 62.97 | 61.46 | 60.67 | 59.97 | 59.13 | 58.45 | 58.03 | 57.44 | 57.17 | 56.99 | 64.16 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 66.2 | 67.3 | 68.7 | 69.0 | 69.4 | 69.0 | 70.6 | 75.3 | 75.5 | 78.2 | 81.8 | 81.3 |
| | 3 | 56.0 | 59.5 | 62.4 | 65.2 | 66.8 | 69.4 | 70.8 | 70.8 | 73.3 | 74.2 | 77.0 | 69.7 |
| | 4 | 56.4 | 58.8 | 62.0 | 64.0 | 66.0 | 67.8 | 69.0 | 69.8 | 70.7 | 70.8 | 70.4 | 70.7 |
| | 5 | 53.6 | 54.9 | 60.6 | 61.8 | 66.6 | 64.0 | 64.4 | 66.3 | 65.9 | 66.9 | 66.2 | 65.0 |
| | 6 | 51.9 | 56.4 | 62.1 | 64.7 | 65.7 | 66.9 | 68.0 | 69.9 | 70.9 | 70.9 | 71.0 | 70.4 |
| | 7 | 52.3 | 60.0 | 62.6 | 64.2 | 65.6 | 67.6 | 69.4 | 69.4 | 70.2 | 70.3 | 69.2 | 68.6 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 60.9 | 62.7 | 63.3 | 64.4 | 65.4 | 67.6 | 67.9 | 69.8 | 69.0 | 72.0 | 71.7 | 79.0 |
| | 10 | 59.7 | 61.0 | 63.0 | 64.4 | 64.0 | 67.0 | 70.6 | 72.4 | 72.2 | 71.0 | 74.4 | 72.9 |
| | 11 | 61.4 | 62.2 | 63.4 | 65.8 | 66.6 | 67.4 | 68.6 | 71.2 | 71.8 | 69.2 | 67.3 | 67.0 |
| | 12 | 59.2 | 59.9 | 61.3 | 62.4 | 65.5 | 68.7 | 69.2 | 72.2 | 72.2 | 70.9 | 71.9 | 72.6 |
| | 13 | 48.8 | 54.6 | 60.2 | 63.8 | 65.7 | 68.6 | 69.4 | 70.2 | 71.6 | 71.8 | 71.9 | 74.8 |
| | 14 | 51.2 | 56.2 | 61.2 | 64.7 | 67.2 | 69.8 | 71.6 | 73.8 | 75.0 | 76.6 | 77.2 | 78.2 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 55.3 | 59.4 | 63.2 | 67.8 | 72.0 | 74.6 | 75.8 | 77.0 | 78.3 | 79.0 | 80.2 | 79.8 |
| | 17 | 57.2 | 59.6 | 64.0 | 68.2 | 71.2 | 71.2 | 74.8 | 77.1 | 78.7 | 79.9 | 80.1 | 79.0 |
| | 18 | 53.8 | 55.2 | 59.7 | 62.5 | 65.2 | 66.8 | 68.1 | 68.9 | 70.2 | 70.4 | 71.1 | 71.2 |
| | 19 | 45.2 | 49.2 | 57.8 | 61.4 | 65.6 | 69.0 | 71.6 | 75.1 | 77.2 | 76.7 | 76.1 | 76.2 |
| | 20 | 59.2 | 64.3 | 67.4 | 69.6 | 71.8 | 74.6 | 78.6 | 79.6 | 80.6 | 80.4 | 79.6 | 78.1 |
| | 21 | 68.2 | 69.0 | 71.0 | 72.8 | 71.8 | 68.8 | 65.8 | 63.8 | 61.1 | 60.2 | 58.9 | 59.2 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 41.2 | 42.4 | 46.0 | 50.4 | 52.4 | 56.0 | 55.2 | 55.2 | 55.4 | 54.0 | 53.0 | 52.2 |
| | 24 | 44.3 | 45.3 | 48.1 | 51.4 | 52.6 | 55.7 | 55.2 | 56.3 | 57.5 | 58.4 | 60.6 | 57.6 |
| | 25 | 38.0 | 40.8 | 42.7 | 47.2 | 50.2 | 53.3 | 53.2 | 52.8 | 51.7 | 51.2 | 49.7 | 49.2 |
| | 26 | 38.6 | 40.4 | 43.0 | 45.4 | 50.1 | 52.0 | 52.6 | 52.2 | 53.2 | 53.0 | 53.4 | 49.9 |
| | 27 | 30.0 | 34.4 | 38.2 | 43.0 | 44.8 | 45.6 | 48.0 | 48.5 | 48.3 | 48.7 | 49.5 | 47.7 |
| | 28 | 34.6 | 36.9 | 41.3 | 43.3 | 45.9 | 47.2 | 49.9 | 50.4 | 50.3 | 49.5 | 48.4 | 47.6 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 42.4 | 42.8 | 47.0 | 50.9 | 56.2 | 59.6 | 60.6 | 60.4 | 59.4 | 56.7 | 54.6 | 53.0 |
| | Hourly Means | 51.42 | 54.13 | 57.61 | 60.33 | 62.57 | 64.33 | 65.56 | 66.74 | 67.21 | 67.24 | 67.41 | 66.84 |
| OCTOBER. | 1 | 33.7 | 36.7 | 41.7 | 46.4 | 50.3 | 52.8 | 52.7 | 54.4 | 55.1 | 54.3 | 54.6 | 52.4 |
| | 2 | 41.4 | 44.2 | 50.6 | 55.0 | 56.2 | 57.0 | 58.6 | 56.8 | 60.0 | 60.0 | 60.4 | 58.1 |
| | 3 | 44.2 | 44.4 | 49.6 | 53.2 | 55.4 | 58.2 | 59.6 | 60.3 | 60.9 | 59.4 | 59.1 | 55.6 |
| | 4 | 44.0 | 47.0 | 50.3 | 52.4 | 53.6 | 56.7 | 59.4 | 57.2 | 52.1 | 55.6 | 56.4 | 53.3 |
| | 5 | 48.1 | 49.3 | 49.7 | 50.0 | 49.9 | 51.4 | 50.7 | 52.2 | 52.2 | 53.0 | 52.6 | 51.4 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 33.0 | 35.4 | 39.6 | 41.8 | 44.3 | 45.0 | 45.2 | 44.7 | 45.2 | 47.8 | 48.4 | 46.0 |
| | 8 | 29.0 | 31.0 | 39.9 | 43.6 | 47.0 | 52.6 | 58.4 | 60.3 | 62.3 | 62.2 | 60.6 | 58.4 |
| | 9 | 51.0 | 52.0 | 53.0 | 56.3 | 60.9 | 65.0 | 65.4 | 62.9 | 65.5 | 69.8 | 70.1 | 60.8 |
| | 10 | 54.6 | 55.5 | 54.4 | 55.0 | 53.4 | 52.0 | 52.2 | 56.6 | 58.0 | 57.8 | 57.0 | 54.6 |
| | 11 | 37.0 | 37.7 | 41.0 | 43.3 | 47.0 | 48.7 | 50.4 | 52.9 | 52.9 | 52.7 | 53.0 | 52.6 |
| | 12 | 33.3 | 34.5 | 38.8 | 43.7 | 47.4 | 49.6 | 51.6 | 52.2 | 52.6 | 51.6 | 51.0 | 49.8 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 45.1 | 46.0 | 49.0 | 50.3 | 51.5 | 51.6 | 51.6 | 50.8 | 50.6 | 50.4 | 50.4 | 49.6 |
| | 15 | 42.2 | 43.4 | 45.4 | 49.0 | 50.2 | 51.2 | 52.6 | 52.7 | 53.3 | 52.5 | 51.7 | 50.2 |
| | 16 | 37.0 | 37.7 | 39.7 | 42.2 | 45.0 | 46.6 | 48.4 | 49.5 | 50.6 | 49.2 | 48.8 | 47.4 |
| | 17 | 41.4 | 41.4 | 42.0 | 42.6 | 44.8 | 45.8 | 45.4 | 45.2 | 44.8 | 44.6 | 44.6 | 44.4 |
| | 18 | 40.0 | 39.6 | 40.0 | 40.8 | 42.2 | 43.2 | 43.2 | 42.8 | 42.2 | 42.0 | 41.8 | 42.2 |
| | 19 | 41.0 | 40.6 | 40.6 | 41.2 | 43.5 | 44.4 | 44.0 | 44.2 | 44.6 | 40.7 | 36.6 | 37.1 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 37.0 | 38.6 | 41.0 | 42.4 | 44.8 | 47.2 | 46.8 | 46.3 | 46.3 | 46.2 | 46.1 | 45.6 |
| | 22 | 40.7 | 42.2 | 43.9 | 46.4 | 49.2 | 49.6 | 51.1 | 52.3 | 52.2 | 53.5 | 51.1 | 46.0 |
| | 23 | 35.6 | 36.4 | 40.7 | 42.9 | 44.4 | 46.0 | 47.7 | 49.0 | 54.6 | 53.0 | 51.8 | 48.2 |
| | 24 | 36.4 | 38.0 | 44.0 | 47.2 | 49.8 | 51.4 | 53.9 | 55.6 | 55.9 | 55.5 | 55.0 | 50.6 |
| | 25 | 47.2 | 48.0 | 51.8 | 53.6 | 55.4 | 57.4 | 59.4 | 59.4 | 59.2 | 59.4 | 59.6 | 55.5 |
| | 26 | 39.0 | 40.2 | 42.7 | 44.6 | 46.5 | 47.9 | 48.4 | 48.2 | 47.6 | 46.7 | 45.8 | 44.7 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 27.2 | 27.4 | 27.8 | 28.2 | 28.2 | 28.5 | 28.4 | 29.0 | 28.3 | 28.4 | 28.2 | 28.3 |
| | 29 | 28.6 | 28.3 | 29.0 | 29.9 | 29.6 | 30.0 | 30.4 | 30.2 | 29.5 | 29.7 | 29.2 | 28.2 |
| | 30 | 29.0 | 29.4 | 30.4 | 31.4 | 32.2 | 33.5 | 35.3 | 36.2 | 36.2 | 36.0 | 35.4 | 35.1 |
| | 31 | 19.6 | 18.6 | 20.4 | 27.0 | 30.7 | 33.1 | 36.6 | 39.4 | 41.4 | 42.4 | 42.5 | 38.2 |
| Hourly Means | 38.38 | 39.39 | 42.11 | 44.46 | 46.42 | 48.01 | 49.16 | 49.68 | 50.15 | 50.16 | 49.70 | 47.57 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 77.0 | 71.2 | 66.9 | 64.2 | 63.0 | 61.8 | 60.6 | 57.5 | 57.7 | 56.2 | 55.5 | 55.6 | 67.48 |
| 74.6 | 68.6 | 64.4 | 60.2 | 57.7 | 56.9 | 55.4 | 55.1 | 54.8 | 54.3 | 50.0 | 52.3 | 63.31 |
| 67.2 | 61.8 | 58.4 | 56.5 | 54.6 | 54.0 | 53.8 | 52.8 | 53.2 | 54.0 | 53.2 | 52.6 | 61.19 |
| 62.3 | 58.8 | 56.4 | 57.2 | 55.0 | 55.3 | 56.0 | 55.2 | 54.0 | 51.8 | 50.8 | 51.6 | 59.19 |
| 67.6 | 64.0 | 62.8 | 61.8 | 59.0 | 57.4 | 55.6 | 55.2 | 53.0 | 54.8 | 53.2 | 52.2 | 61.89 |
| 64.8 | 62.8 | 59.6 | 57.6 | 57.2 | 55.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63.6 | 63.5 | 63.4 | 62.8 | 61.0 | 59.7 | 63.41 |
| 68.6 | 63.2 | 63.6 | 61.7 | 61.2 | 60.3 | 60.2 | 60.0 | 59.9 | 59.7 | 58.0 | 59.0 | 64.55 |
| 69.8 | 63.0 | 60.2 | 59.4 | 61.0 | 60.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.1 | 61.8 | 65.00 |
| 66.5 | 64.6 | 64.2 | 64.4 | 63.4 | 62.6 | 62.0 | 61.8 | 61.4 | 59.8 | 60.2 | 59.4 | 64.68 |
| 68.4 | 61.6 | 59.5 | 58.0 | 58.6 | 58.2 | 58.4 | 57.7 | 56.1 | 55.0 | 51.4 | 49.4 | 62.43 |
| 64.6 | 60.4 | 56.2 | 54.5 | 53.7 | 53.0 | 52.4 | 52.1 | 50.9 | 51.0 | 50.8 | 50.3 | 60.05 |
| 72.6 | 66.7 | 65.1 | 64.2 | 64.0 | 62.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.2 | 59.6 | 58.8 | 56.6 | 55.6 | 55.2 | 65.15 |
| 71.8 | 66.4 | 66.2 | 62.2 | 60.3 | 59.4 | 58.8 | 59.0 | 58.0 | 57.8 | 56.2 | 55.4 | 66.41 |
| 74.2 | 71.6 | 66.3 | 64.1 | 63.7 | 67.2 | 68.4 | 67.2 | 64.2 | 61.2 | 59.6 | 55.7 | 68.52 |
| 62.0 | 58.2 | 56.2 | 58.2 | 55.8 | 53.5 | 51.9 | 50.2 | 48.2 | 47.6 | 47.0 | 46.6 | 59.10 |
| 72.4 | 70.8 | 70.0 | 67.4 | 64.7 | 62.2 | 62.4 | 60.2 | 59.4 | 59.6 | 59.4 | 59.0 | 65.36 |
| 69.7 | 71.3 | 69.2 | 68.3 | 67.0 | 64.2 | 62.7 | 62.8 | 63.4 | 66.0 | 66.5 | 66.6 | 70.06 |
| 54.0 | 51.8 | 49.2 | 47.4 | 46.2 | 44.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.0 | 42.8 | 42.0 | 42.3 | 42.1 | 40.0 | 55.59 |
| 51.0 | 49.8 | 49.0 | 49.0 | 48.8 | 46.7 | 44.4 | 43.2 | 44.8 | 44.2 | 44.0 | 44.1 | 48.85 |
| 56.2 | 52.0 | 49.0 | 49.2 | 47.6 | 43.4 | 39.6 | 39.6 | 39.8 | 39.8 | 37.2 | 36.4 | 48.87 |
| 48.5 | 47.4 | 46.1 | 45.9 | 45.6 | 45.0 | 44.8 | 44.2 | 43.8 | 43.2 | 42.4 | 40.6 | 46.56 |
| 46.3 | 43.1 | 41.4 | 41.2 | 42.0 | 41.0 | 41.1 | 35.0 | 34.0 | 33.4 | 30.5 | 29.8 | 43.44 |
| 42.0 | 37.6 | 36.0 | 35.6 | 37.0 | 37.8 | 37.6 | 37.6 | 36.8 | 36.8 | 36.2 | 35.0 | 40.57 |
| 47.0 | 46.5 | 46.4 | 45.1 | 44.0 | 43.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.2 | 40.4 | 39.4 | 39.2 | 40.4 | 39.6 | 44.06 |
| 48.2 | 45.3 | 43.4 | 41.4 | 38.4 | 37.0 | 36.6 | 33.7 | 33.5 | 33.2 | 34.2 | 33.5 | 45.92 |
| 62.69 | 59.14 | 57.03 | 55.83 | 54.78 | 53.74 | 53.24 | 52.35 | 51.72 | 51.31 | 50.30 | 49.66 | 58.47 |
| 46.2 | 46.8 | 39.8 | 40.4 | 39.9 | 39.5 | 38.6 | 39.2 | 38.4 | 39.4 | 39.0 | 40.4 | 44.70 |
| 56.9 | 57.4 | 57.5 | 58.0 | 57.7 | 57.0 | 57.0 | — | 52.4 | 51.0 | 49.8 | 46.6 | 54.77 |
| 56.5 | 51.6 | 51.0 | 49.1 | 46.5 | 47.6 | 47.2 | 46.6 | 45.0 | 44.2 | 44.2 | 43.4 | 51.37 |
| 52.3 | 51.5 | 50.6 | 49.6 | 49.4 | 48.4 | 48.0 | 47.5 | 45.4 | 44.6 | 46.2 | 47.0 | 50.77 |
| 50.2 | 49.4 | 47.0 | 47.2 | 45.8 | 46.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.5 | 38.3 | 36.2 | 35.8 | 32.4 | 33.2 | 46.30 |
| 40.0 | 35.6 | 35.6 | 32.8 | 32.3 | 31.4 | 31.6 | 31.7 | 31.0 | 31.2 | 30.0 | 29.4 | 37.88 |
| 56.8 | 56.3 | 56.1 | 56.4 | 56.0 | 55.8 | 55.5 | 54.7 | 54.4 | 52.8 | 52.6 | 51.8 | 52.69 |
| 53.4 | 51.4 | 54.0 | 50.0 | 46.2 | 44.8 | 44.2 | 45.6 | 46.2 | 50.0 | 52.2 | 54.4 | 55.21 |
| 51.2 | 48.4 | 44.6 | 44.2 | 43.8 | 43.0 | 40.0 | 39.2 | 38.4 | 39.0 | 37.4 | 36.8 | 48.63 |
| 43.8 | 42.8 | 40.2 | 39.7 | 38.6 | 35.4 | 36.5 | 35.2 | 34.0 | 34.0 | 33.0 | 33.4 | 42.33 |
| 44.0 | 42.2 | 44.4 | 48.2 | 47.2 | 43.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 48.3 | 48.2 | 46.0 | 45.6 | 44.4 | 44.8 | 45.96 |
| 48.8 | 48.2 | 47.8 | 47.4 | 47.4 | 47.7 | 47.5 | 47.2 | 47.2 | 45.6 | 44.6 | 43.4 | 48.32 |
| 48.1 | 46.3 | 45.0 | 43.2 | 42.5 | 41.4 | 41.4 | 40.6 | 40.0 | 38.6 | 38.2 | 37.6 | 45.55 |
| 46.4 | 45.2 | 43.6 | 41.0 | 41.0 | 40.8 | 40.2 | 40.4 | 39.8 | 40.2 | 40.7 | 41.0 | 43.43 |
| 43.0 | 42.0 | 41.4 | 41.8 | 42.1 | 41.4 | 41.2 | 41.4 | 41.0 | 41.2 | 40.3 | 40.2 | 42.66 |
| 43.6 | 44.8 | 47.0 | 49.8 | 50.8 | 51.0 | 55.0 | 50.3 | 48.2 | 45.2 | 43.2 | 42.2 | 44.63 |
| 36.0 | 35.0 | 34.8 | 33.7 | 33.0 | 32.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 29.0 | 37.0 | 37.6 | 38.2 | 37.9 | 37.2 | 38.33 |
| 44.0 | 42.0 | 40.0 | 42.4 | 39.1 | 36.7 | 36.1 | 34.6 | 38.2 | 39.0 | 39.6 | 39.9 | 41.66 |
| 43.6 | 40.3 | 37.7 | 36.6 | 36.8 | 35.8 | 35.4 | 37.0 | 36.4 | 37.4 | 36.2 | 37.2 | 42.86 |
| 44.0 | 45.2 | 47.4 | 46.8 | 44.2 | 41.4 | 38.2 | 37.3 | 35.6 | 36.0 | 35.6 | 36.4 | 43.27 |
| 50.8 | 50.4 | 45.7 | 46.0 | 46.4 | 44.2 | 47.0 | 47.2 | 48.0 | 47.0 | 47.2 | 46.8 | 48.33 |
| 56.2 | 52.0 | 49.7 | 47.6 | 45.8 | 43.5 | 40.0 | 35.4 | 38.4 | 40.0 | 41.4 | 42.0 | 49.91 |
| 43.3 | 43.8 | 44.0 | 44.2 | 39.7 | 38.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.0 | 33.6 | 32.4 | 31.0 | 28.0 | 27.4 | 40.91 |
| 28.4 | 28.8 | 28.5 | 28.8 | 28.6 | 29.0 | 29.0 | 28.9 | 27.8 | 28.6 | 28.8 | 28.8 | 28.40 |
| 27.8 | 27.8 | 28.2 | 28.6 | 29.1 | 28.7 | 29.2 | 29.4 | 29.7 | 29.7 | 29.5 | 29.0 | 29.14 |
| 34.7 | 35.1 | 34.8 | 32.1 | 29.4 | 25.4 | 24.8 | 25.2 | 26.6 | 25.2 | 21.0 | 18.8 | 30.55 |
| 31.9 | 30.0 | 29.0 | 28.5 | 27.8 | 27.1 | — | — | 26.4 | 26.0 | 26.0 | 26.0 | 30.13 |
| 45.26 | 44.09 | 43.16 | 42.74 | 41.74 | 40.65 | 40.48 | 39.13 | 39.22 | 39.08 | 38.47 | 38.33 | 43.66 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 25.8 | 26.2 | 29.5 | 35.1 | 41.4 | 42.1 | 44.6 | 43.8 | 42.7 | 42.6 | 42.2 | 41.9 |
| | 2 | 39.4 | 38.2 | 39.5 | 43.0 | 44.6 | 45.7 | 47.4 | 48.7 | 50.2 | 50.1 | 49.6 | 44.8 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 39.4 | 38.6 | 40.4 | 40.9 | 42.1 | 43.3 | 43.2 | 43.9 | 45.0 | 44.6 | 43.1 | 42.2 |
| | 5 | 36.1 | 36.5 | 39.0 | 41.2 | 44.0 | 43.4 | 46.5 | 49.0 | 48.7 | 48.6 | 46.2 | 43.4 |
| | 6 | 32.6 | 31.6 | 33.6 | 38.6 | 43.2 | 45.0 | 46.4 | 48.0 | 48.9 | 49.3 | 48.6 | 43.4 |
| | 7 | 40.4 | 36.8 | 38.0 | 43.0 | 46.6 | 48.6 | 50.0 | 48.2 | 47.8 | 46.5 | 46.0 | 44.7 |
| | 8 | 32.6 | 30.0 | 34.0 | 36.6 | 38.4 | 39.6 | 39.6 | 40.2 | 40.3 | 40.0 | 38.0 | 35.6 |
| | 9 | 30.4 | 31.0 | 32.2 | 33.4 | 34.8 | 37.4 | 38.5 | 40.2 | 41.8 | 43.4 | 42.4 | 37.9 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 39.6 | 39.5 | 39.6 | 40.0 | 40.4 | 41.0 | 41.6 | 42.4 | 42.8 | 41.8 | 41.6 | 41.8 |
| | 12 | 42.4 | 42.6 | 43.0 | 43.8 | 44.4 | 45.6 | 47.1 | 46.9 | 47.0 | 46.9 | 46.9 | 46.1 |
| | 13 | 36.5 | 34.3 | 34.7 | 36.3 | 35.6 | 36.4 | 37.4 | 37.8 | 37.7 | 37.1 | 37.2 | 35.6 |
| | 14 | 29.0 | 29.4 | 31.4 | 33.8 | 35.8 | 37.3 | 38.7 | 39.4 | 39.3 | 39.7 | 37.2 | 36.4 |
| | 15 | 35.0 | 34.8 | 35.0 | 36.5 | 39.2 | 40.5 | 42.4 | 43.4 | 43.8 | 44.4 | 43.2 | 40.7 |
| | 16 | 32.0 | 33.2 | 34.0 | 37.2 | 42.0 | 45.0 | 45.8 | 47.4 | 48.4 | 45.4 | 43.2 | 39.3 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 34.0 | 33.2 | 33.2 | 32.0 | 32.8 | 33.5 | 35.0 | 34.6 | 33.0 | 32.1 | 30.4 | 29.0 |
| | 19 | 27.2 | 26.4 | 28.6 | 32.9 | 34.6 | 35.8 | 39.0 | 40.6 | 41.2 | 41.4 | 41.0 | 40.7 |
| | 20 | 31.8 | 33.4 | 35.4 | 37.7 | 40.2 | 38.9 | 41.4 | 42.8 | 43.7 | 44.8 | 43.6 | 39.2 |
| | 21 | 29.0 | 29.7 | 32.2 | 37.6 | 41.2 | 44.6 | 44.4 | 44.9 | 44.0 | 44.7 | 41.6 | 40.2 |
| | 22 | 34.2 | 38.4 | 39.6 | 41.6 | 44.7 | 42.6 | 41.8 | 41.6 | 43.1 | 42.4 | 41.9 | 41.6 |
| | 23 | 41.3 | 40.4 | 36.6 | 39.0 | 39.7 | 39.7 | 40.9 | 42.6 | 44.2 | 44.4 | 41.4 | 38.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 19.0 | 18.8 | 20.4 | 22.1 | 23.5 | 23.8 | 25.1 | 24.6 | 26.0 | 25.7 | 24.6 | 23.2 |
| | 26 | 22.0 | 24.6 | 25.0 | 26.8 | 27.3 | 27.0 | 27.3 | 29.4 | 30.0 | 30.2 | 29.8 | 30.2 |
| | 27 | 19.9 | 20.1 | 19.8 | 17.7 | 17.5 | 18.1 | 18.8 | 20.2 | 20.0 | 20.4 | 17.6 | 16.6 |
| | 28 | 23.6 | 21.4 | 19.2 | 19.2 | 20.3 | 21.6 | 22.5 | 23.1 | 23.4 | 23.0 | 22.6 | 22.0 |
| | 29 | 22.8 | 23.8 | 25.2 | 27.0 | 29.8 | 21.9 | 32.8 | 32.9 | 33.0 | 32.6 | 32.2 | 32.1 |
| | 30 | 33.6 | 34.0 | 34.6 | 35.4 | 36.8 | 37.7 | 37.6 | 37.3 | 37.5 | 37.0 | 35.8 | 35.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 31.91 | 31.80 | 32.95 | 34.94 | 36.96 | 37.54 | 39.07 | 39.77 | 40.13 | 39.97 | 38.77 | 37.02 | |
| DECEMBER. | 2 | 29.2 | 29.3 | 28.7 | 30.0 | 30.6 | 30.3 | 30.8 | 31.4 | 33.6 | 32.6 | 31.0 | 29.6 |
| | 3 | 30.3 | 27.8 | 30.2 | 31.4 | 33.0 | 34.6 | 36.0 | 36.8 | 36.2 | 34.9 | 34.6 | 34.2 |
| | 4 | 32.8 | 33.3 | 35.8 | 36.4 | 37.2 | 37.6 | 37.8 | 38.0 | 37.6 | 35.5 | 34.8 | 34.8 |
| | 5 | 33.8 | 33.8 | 34.0 | 34.0 | 33.2 | 33.4 | 33.6 | 34.1 | 34.7 | 34.6 | 34.5 | 34.5 |
| | 6 | 33.5 | 33.6 | 33.8 | 34.2 | 34.2 | 34.2 | 34.2 | 34.0 | 33.4 | 33.2 | 32.6 | 33.8 |
| | 7 | 42.1 | 42.6 | 43.3 | 44.5 | 45.8 | 45.6 | 46.0 | 43.8 | 41.6 | 38.6 | 36.4 | 35.8 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 21.0 | 21.6 | 22.7 | 24.4 | 26.8 | 30.4 | 32.2 | 34.4 | 35.6 | 35.8 | 34.8 | 32.4 |
| | 10 | 29.4 | 27.4 | 27.0 | 26.6 | 26.8 | 27.8 | 28.2 | 28.8 | 28.6 | 28.6 | 28.4 | 27.0 |
| | 11 | 28.6 | 28.8 | 28.8 | 29.7 | 31.4 | 32.4 | 32.6 | 33.6 | 34.2 | 34.1 | 32.8 | 32.7 |
| | 12 | 23.2 | 23.4 | 27.3 | 32.9 | 34.6 | 35.9 | 36.5 | 38.0 | 38.8 | 39.0 | 36.3 | 34.8 |
| | 13 | 37.1 | 37.1 | 35.6 | 35.1 | 34.8 | 35.6 | 36.2 | 36.4 | 36.7 | 36.0 | 35.4 | 34.2 |
| | 14 | 30.5 | 30.3 | 30.3 | 32.0 | 33.6 | 34.4 | 35.2 | 36.0 | 36.4 | 35.8 | 35.4 | 34.3 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 23.0 | 22.8 | 22.0 | 21.4 | 21.4 | 21.0 | 21.6 | 22.0 | 21.3 | 21.9 | 21.5 | 20.4 |
| | 17 | 16.2 | 16.4 | 16.6 | 18.2 | 20.6 | 21.4 | 22.6 | 24.3 | 24.6 | 24.5 | 23.4 | 22.1 |
| | 18 | 2.0 | 3.5 | 7.0 | 14.2 | 18.1 | 21.1 | 22.8 | 23.5 | 25.2 | 25.0 | 24.6 | 24.0 |
| | 19 | 20.4 | 21.0 | 21.4 | 22.3 | 23.4 | 24.2 | 23.6 | 23.6 | 23.6 | 22.2 | 21.2 | 20.4 |
| | 20 | 9.7 | 11.2 | 12.8 | 12.8 | 16.8 | 19.2 | 21.8 | 22.4 | 22.4 | 21.0 | 20.4 | 19.6 |
| | 21 | 26.8 | 27.4 | 27.8 | 28.3 | 28.2 | 28.6 | 28.2 | 29.0 | 30.6 | 31.4 | 32.4 | 32.2 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 31.8 | 31.0 | 30.2 | 30.2 | 29.0 | 29.0 | 28.6 | 27.8 | 27.4 | 26.2 | 25.6 | 25.3 |
| | 24 | 27.0 | 28.0 | 28.2 | 28.4 | 29.7 | 31.2 | 32.2 | 33.4 | 34.1 | 34.8 | 35.8 | 33.6 |
| | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 42.0 | 42.0 | 43.6 | 43.8 | 43.0 | 43.8 | 49.3 | 40.0 | 45.0 | 43.4 | 39.6 | 37.2 |
| | 27 | 23.4 | 21.8 | 20.9 | 21.4 | 22.4 | 24.8 | 26.0 | 26.0 | 27.6 | 27.2 | 26.6 | 25.2 |
| | 28 | 13.8 | 14.1 | 14.8 | 18.0 | 21.2 | 24.6 | 27.4 | 29.0 | 28.6 | 28.6 | 27.0 | 26.6 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 34.4 | 35.2 | 36.5 | 37.6 | 40.6 | 39.8 | 38.4 | 37.2 | 36.2 | 36.5 | 37.0 | 36.8 |
| | 31 | 30.7 | 29.4 | 29.2 | 31.4 | 32.4 | 33.2 | 33.2 | 34.6 | 35.6 | 34.8 | 34.6 | 33.7 |
| | Hourly Means | 26.91 | 26.91 | 27.54 | 28.76 | 29.95 | 30.96 | 31.80 | 32.28 | 32.36 | 31.85 | 31.07 | 30.21 |

^a Christmas-day.

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 38.8 | 37.8 | 37.6 | 37.4 | 38.0 | 37.9 | 38.0 | 38.4 | 39.2 | 38.8 | 39.8 | 39.5 | 38.30 |
| 42.6 | 39.6 | 38.8 | 38.4 | 38.4 | 38.4 | — | — | — | — | — | — | 42.86 |
| — | — | — | — | — | — | 42.4 | 44.2 | 42.4 | 42.0 | 41.0 | 39.2 | 40.46 |
| 41.8 | 42.6 | 42.4 | 42.3 | 41.2 | 37.0 | 37.8 | 38.0 | 37.7 | 35.0 | 34.5 | 34.0 | 40.10 |
| 40.6 | 40.2 | 38.8 | 37.7 | 37.0 | 36.7 | 36.4 | 35.4 | 34.2 | 34.2 | 34.6 | 34.0 | 39.10 |
| 37.6 | 34.0 | 32.0 | 30.9 | 31.4 | 31.0 | 32.6 | 36.4 | 40.0 | 40.2 | 41.2 | 41.9 | 43.30 |
| 44.0 | 44.0 | 42.6 | 44.6 | 45.0 | 44.6 | 44.6 | 42.9 | 40.2 | 38.2 | 36.5 | 35.5 | 34.42 |
| 34.6 | 34.6 | 35.0 | 35.2 | 35.0 | 32.8 | 30.7 | 29.6 | 29.6 | 27.7 | 27.2 | 29.2 | 36.32 |
| 33.6 | 30.6 | 30.8 | 30.8 | 30.4 | 30.3 | — | — | — | — | — | — | 41.25 |
| — | — | — | — | — | — | 41.2 | 40.0 | 40.0 | 40.4 | 40.2 | 40.0 | 41.8 |
| 41.7 | 41.8 | 41.4 | 41.2 | 41.2 | 41.3 | 41.0 | 41.4 | 41.7 | 41.8 | 41.5 | 41.8 | 42.60 |
| 46.0 | 45.6 | 46.0 | 41.6 | 40.6 | 40.2 | 39.0 | 37.2 | 36.8 | 35.4 | 35.4 | 36.0 | 33.60 |
| 33.4 | 32.0 | 31.6 | 31.6 | 31.4 | 30.6 | 31.0 | 30.2 | 29.8 | 29.5 | 29.4 | 29.2 | 34.05 |
| 35.4 | 33.8 | 31.4 | 31.2 | 33.0 | 33.4 | 33.8 | 32.3 | 32.0 | 29.0 | 28.7 | 35.8 | 36.30 |
| 39.6 | 37.2 | 33.8 | 33.0 | 32.2 | 31.6 | 32.0 | 31.3 | 31.0 | 30.3 | 29.6 | 30.8 | 39.35 |
| 37.9 | 35.8 | 36.8 | 40.8 | 41.0 | 41.2 | — | — | — | — | — | — | 29.87 |
| — | — | — | — | — | — | 39.3 | 37.3 | 36.5 | 35.2 | 34.8 | 34.8 | 35.43 |
| 27.8 | 27.4 | 27.6 | 27.2 | 27.0 | 26.0 | 25.7 | 26.1 | 26.8 | 26.8 | 28.2 | 27.4 | 35.60 |
| 40.0 | 38.6 | 37.6 | 36.6 | 37.0 | 37.4 | 35.8 | 31.4 | 32.9 | 32.4 | 29.6 | 31.6 | 36.93 |
| 35.2 | 37.2 | 37.6 | 35.8 | 32.3 | 29.7 | 30.2 | 30.0 | 29.2 | 28.0 | 27.6 | 28.8 | 41.67 |
| 39.6 | 38.2 | 34.2 | 32.0 | 31.2 | 32.0 | 34.0 | 35.0 | 34.5 | 34.0 | 33.4 | 34.2 | 34.36 |
| 41.6 | 42.4 | 42.6 | 43.5 | 43.8 | 42.8 | 43.0 | 42.5 | 41.3 | 40.8 | 40.3 | 42.0 | 19.6 |
| 39.7 | 37.8 | 35.2 | 33.0 | 31.2 | 30.0 | — | — | — | — | — | — | 21.42 |
| — | — | — | — | — | — | 22.6 | 22.0 | 21.6 | 20.4 | 19.6 | 19.6 | 27.12 |
| 21.8 | 20.2 | 18.2 | 17.8 | 18.2 | 17.8 | 19.4 | 19.6 | 19.8 | 20.8 | 22.2 | 21.4 | 17.42 |
| 30.0 | 30.0 | 30.2 | 28.6 | 22.2 | 26.4 | 25.4 | 25.7 | 25.6 | 25.2 | 24.1 | 21.8 | 21.29 |
| 13.6 | 13.2 | 15.0 | 15.6 | 15.6 | 15.4 | 15.2 | 15.0 | 15.4 | 16.3 | 18.0 | 23.0 | 30.81 |
| 20.4 | 20.4 | 20.2 | 20.2 | 20.3 | 20.4 | 20.3 | 20.6 | 21.0 | 21.4 | 21.6 | 22.2 | 33.91 |
| 32.0 | 32.0 | 32.5 | 31.6 | 31.4 | 32.2 | 33.6 | 34.2 | 33.4 | 33.4 | 33.4 | 33.6 | — |
| 34.4 | 34.2 | 33.9 | 34.6 | 34.0 | 33.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 29.6 | 29.4 | 29.8 | 29.4 | 29.4 | 29.2 | — |
| 35.53 | 34.66 | 33.99 | 33.58 | 33.31 | 32.72 | 32.87 | 32.54 | 32.40 | 31.79 | 31.61 | 32.17 | 34.92 |
| 27.4 | 28.2 | 28.2 | 29.4 | 29.2 | 30.0 | 30.0 | 27.2 | 26.0 | 26.7 | 28.6 | 28.8 | 29.45 |
| 34.0 | 34.2 | 35.8 | 34.2 | 34.8 | 34.9 | 35.4 | 29.3 | 28.5 | 27.7 | 29.8 | 31.5 | 32.92 |
| 34.4 | 34.4 | 34.2 | 34.0 | 34.0 | 34.2 | 34.0 | 34.0 | 33.6 | 33.6 | 33.6 | 33.8 | 34.97 |
| 34.4 | 34.3 | 34.7 | 34.2 | 33.4 | 33.0 | 33.0 | 33.0 | 33.4 | 33.4 | 33.4 | 33.2 | 33.82 |
| 33.4 | 35.0 | 35.4 | 36.4 | 37.0 | 37.6 | 38.8 | 38.8 | 40.0 | 40.6 | 41.0 | 41.4 | 35.84 |
| 35.0 | 35.6 | 34.6 | 34.4 | 28.4 | 25.2 | — | — | — | — | — | — | 35.10 |
| — | — | — | — | — | — | 26.1 | 25.5 | 23.4 | 22.6 | 22.6 | 21.8 | 28.68 |
| 28.0 | 28.0 | 26.2 | 26.2 | 26.4 | 27.6 | 29.2 | 29.6 | 29.0 | 28.8 | 28.2 | 29.0 | 27.21 |
| 26.4 | 26.1 | 25.6 | 25.4 | 25.3 | 25.9 | 26.2 | 26.4 | 27.2 | 27.6 | 28.0 | 28.4 | 29.89 |
| 32.5 | 32.1 | 32.6 | 30.8 | 29.6 | 32.6 | 29.6 | 24.2 | 25.0 | 23.6 | 22.6 | 22.4 | 34.75 |
| 35.4 | 36.2 | 35.8 | 35.4 | 35.8 | 36.2 | 36.0 | 36.4 | 36.2 | 36.0 | 36.0 | 38.0 | 34.31 |
| 34.0 | 33.4 | 33.2 | 33.5 | 33.3 | 33.3 | 33.0 | 32.8 | 32.5 | 32.0 | 31.2 | 31.0 | 30.81 |
| 33.6 | 33.0 | 32.5 | 32.6 | 32.2 | 32.1 | — | — | — | — | — | — | 19.71 |
| — | — | — | — | — | — | 23.0 | 22.4 | 22.1 | 24.7 | 23.6 | 23.5 | 17.96 |
| 19.8 | 19.2 | 18.9 | 18.6 | 18.7 | 18.5 | 18.4 | 16.0 | 16.0 | 16.0 | 16.6 | 16.0 | 19.14 |
| 22.6 | 21.6 | 20.2 | 19.0 | 17.6 | 17.8 | 17.0 | 15.6 | 14.0 | 10.0 | 4.0 | 0.8 | 17.98 |
| 23.6 | 23.2 | 23.2 | 22.8 | 22.2 | 20.4 | 19.0 | 17.0 | 18.7 | 19.2 | 19.3 | 19.8 | 19.01 |
| 20.0 | 18.6 | 18.2 | 19.6 | 19.8 | 17.7 | 13.6 | 9.2 | 6.2 | 4.7 | 6.3 | 10.8 | 29.69 |
| 19.3 | 19.4 | 18.2 | 19.4 | 19.4 | 18.9 | 18.7 | 18.7 | 21.4 | 22.0 | 25.2 | 25.5 | 26.47 |
| 32.2 | 29.8 | 25.7 | 24.4 | 24.3 | 28.0 | — | — | — | — | — | — | 34.77 |
| — | — | — | — | — | — | 34.4 | 34.2 | 33.2 | 32.2 | 31.4 | 32.0 | 35.75 |
| 25.0 | 24.4 | 24.4 | 23.7 | 22.8 | 22.8 | 23.2 | 23.2 | 25.0 | 25.6 | 26.0 | 27.0 | 20.97 |
| 32.3 | 35.4 | 35.4 | 34.8 | 33.6 | 32.4 | — | — | — | — | — | — | 25.87 |
| — | — | — | — | — | — | 41.4 | 42.4 | 43.0 | 42.8 | 42.0 | 42.6 | 34.61 |
| 35.2 | 33.0 | 30.8 | 29.9 | 28.6 | 28.2 | 27.2 | 26.2 | 25.4 | 23.4 | 23.6 | 24.9 | 33.61 |
| 23.6 | 22.2 | 23.0 | 19.8 | 19.0 | 18.6 | 17.1 | 14.4 | 13.0 | 12.8 | 13.0 | 13.5 | — |
| 26.2 | 26.2 | 25.4 | 26.4 | 27.2 | 27.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 30.6 | 30.4 | 31.8 | 32.0 | 32.2 | 31.3 | — |
| 34.4 | 33.6 | 32.6 | 32.6 | 31.8 | 31.8 | 32.0 | 31.5 | 31.4 | 31.2 | 30.9 | 30.7 | — |
| 33.5 | 35.0 | 35.4 | 34.4 | 33.7 | 31.8 | 29.4 | 30.4 | 35.4 | 36.8 | 38.6 | 39.4 | — |
| 29.49 | 29.28 | 28.81 | 28.48 | 27.92 | 27.88 | 27.85 | 26.75 | 26.86 | 26.64 | 26.71 | 27.08 | 28.93 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 1 | 23.0 | 23.2 | 23.8 | 24.4 | 24.4 | 24.8 | 26.4 | 26.6 | 27.4 | 28.8 | 28.1 | 25.4 |
| | 2 | 27.0 | 28.6 | 29.4 | 30.2 | 30.3 | 31.2 | 31.7 | 31.5 | 32.0 | 32.0 | 32.1 | 32.5 |
| | 3 | 36.2 | 36.2 | 36.6 | 36.8 | 36.2 | 35.2 | 34.8 | 34.9 | 33.4 | 33.2 | 32.8 | 32.5 |
| | 4 | 28.6 | 26.0 | 24.6 | 23.2 | 22.2 | 22.2 | 21.6 | 21.0 | 21.6 | 21.6 | 21.8 | 21.6 |
| | 5 | 19.0 | 18.6 | 18.2 | 18.6 | 19.4 | 19.8 | 20.2 | 20.8 | 22.2 | 22.0 | 22.0 | 20.4 |
| | 6 | 22.6 | 23.0 | 23.4 | 24.0 | 24.2 | 24.8 | 25.4 | 27.0 | 27.0 | 27.0 | 27.0 | 27.7 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 10.8 | 11.6 | 12.6 | 13.8 | 15.2 | 17.2 | 17.4 | 17.6 | 18.4 | 17.8 | 17.8 | 17.2 |
| | 9 | 15.0 | 16.0 | 18.8 | 19.8 | 20.2 | 21.8 | 21.0 | 21.4 | 22.0 | 22.4 | 23.4 | 24.0 |
| | 10 | 25.2 | 24.0 | 24.0 | 24.4 | 24.8 | 25.8 | 26.4 | 25.8 | 25.4 | 24.5 | 23.5 | 22.6 |
| | 11 | 3.6 | 0.4 | 3.8 | 7.4 | 11.4 | 14.4 | 18.6 | 19.6 | 20.2 | 20.3 | 20.5 | 20.8 |
| | 12 | 28.0 | 29.0 | 30.6 | 31.6 | 32.4 | 32.6 | 32.6 | 33.2 | 34.7 | 34.4 | 34.6 | 34.8 |
| | 13 | 33.8 | 33.4 | 33.4 | 32.6 | 29.0 | 28.8 | 28.8 | 29.2 | 30.3 | 29.8 | 28.8 | 28.2 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 27.4 | 27.2 | 28.6 | 29.6 | 30.4 | 30.8 | 30.6 | 30.5 | 30.4 | 30.1 | 30.5 | 30.8 |
| | 16 | 33.8 | 34.4 | 35.0 | 35.4 | 37.6 | 39.4 | 40.2 | 40.2 | 40.1 | 39.5 | 38.8 | 38.0 |
| | 17 | 28.0 | 27.4 | 27.8 | 27.6 | 27.6 | 27.6 | 27.8 | 27.6 | 27.6 | 27.2 | 26.8 | 25.8 |
| | 18 | 21.4 | 21.4 | 21.4 | 23.2 | 24.3 | 24.2 | 24.6 | 24.8 | 26.8 | 25.4 | 25.4 | 24.3 |
| | 19 | 16.0 | 16.0 | 16.0 | 17.0 | 16.4 | 16.2 | 18.0 | 18.0 | 19.4 | 19.1 | 19.0 | 18.5 |
| | 20 | 6.8 | 5.8 | 5.4 | 6.4 | 8.6 | 10.2 | 12.6 | 14.4 | 14.8 | 14.8 | 13.2 | 12.2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 11.2 | 11.0 | 12.2 | 14.4 | 15.6 | 16.2 | 16.6 | 17.2 | 18.2 | 19.2 | 23.0 | 23.4 |
| | 23 | 34.2 | 35.2 | 36.8 | 36.8 | 37.8 | 39.8 | 42.6 | 40.0 | 39.8 | 38.8 | 38.2 | 36.9 |
| | 24 | 26.2 | 24.8 | 24.8 | 25.0 | 24.2 | 23.8 | 22.4 | 20.6 | 17.7 | 17.5 | 16.4 | 15.1 |
| | 25 | - 1.2 | - 2.3 | - 3.4 | - 3.8 | - 4.4 | - 1.0 | 0.0 | 1.0 | 2.4 | 4.2 | 4.4 | 2.8 |
| | 26 | - 3.6 | - 4.6 | - 5.0 | - 4.0 | - 3.2 | - 2.0 | 0.0 | 2.8 | 5.5 | 6.2 | 6.0 | 5.2 |
| | 27 | - 5.8 | - 6.4 | - 6.0 | - 5.0 | - 3.2 | - 0.6 | 2.0 | 4.2 | 6.5 | 8.0 | 7.9 | 5.1 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | - 1.6 | - 2.2 | - 3.2 | - 2.6 | - 0.4 | 2.4 | 3.4 | 3.6 | 5.2 | 5.8 | 5.0 | 4.7 |
| | 30 | 9.0 | 9.6 | 10.2 | 11.4 | 13.0 | 14.2 | 16.0 | 16.2 | 16.2 | 16.2 | 15.3 | 14.7 |
| | 31 | 0.6 | 0.4 | - 0.6 | 0.0 | 1.8 | 4.1 | 6.5 | 8.7 | 10.9 | 11.9 | 12.0 | 10.5 |
| Hourly Means | 17.60 | 17.32 | 17.75 | 18.45 | 19.10 | 20.14 | 21.04 | 21.42 | 22.08 | 22.14 | 22.01 | 21.32 | |
| FEBRUARY. | 1 | 1.0 | 1.0 | 4.4 | 7.8 | 12.5 | 20.2 | 22.0 | 22.2 | 22.8 | 22.1 | 22.5 | 23.2 |
| | 2 | 20.4 | 20.2 | 20.4 | 22.4 | 23.6 | 24.5 | 25.9 | 26.2 | 26.2 | 26.1 | 26.0 | 23.2 |
| | 3 | 21.4 | 20.2 | 17.8 | 19.0 | 20.2 | 21.4 | 22.8 | 23.5 | 24.5 | 24.7 | 23.4 | 21.8 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 31.2 | 31.2 | 31.6 | 32.2 | 32.4 | 32.4 | 32.6 | 33.2 | 33.5 | 34.5 | 34.3 | 33.7 |
| | 6 | 32.6 | 32.6 | 32.8 | 33.0 | 33.4 | 34.0 | 34.6 | 35.6 | 34.7 | 34.3 | 32.8 | 32.2 |
| | 7 | 18.6 | 18.8 | 19.2 | 20.4 | 22.6 | 23.8 | 25.0 | 27.0 | 26.8 | 27.4 | 25.7 | 24.7 |
| | 8 | 18.2 | 17.8 | 18.0 | 18.6 | 21.0 | 23.4 | 25.6 | 26.3 | 26.2 | 25.8 | 25.3 | 24.5 |
| | 9 | 8.8 | 8.6 | 9.0 | 9.0 | 9.2 | 10.4 | 11.6 | 13.0 | 14.1 | 14.5 | 13.9 | 12.2 |
| | 10 | 15.8 | 16.0 | 16.2 | 17.2 | 18.8 | 20.0 | 21.2 | 22.8 | 24.0 | 25.2 | 25.3 | 24.4 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 15.2 | 14.6 | 18.0 | 21.4 | 25.1 | 26.0 | 27.4 | 28.8 | 30.7 | 32.1 | 32.2 | 31.5 |
| | 13 | 31.2 | 30.6 | 31.6 | 32.4 | 32.6 | 33.0 | 35.8 | 35.4 | 35.2 | 35.4 | 33.6 | 33.6 |
| | 14 | 21.6 | 20.6 | 19.6 | 21.6 | 21.0 | 22.4 | 23.0 | 24.8 | 25.7 | 27.3 | 27.5 | 24.2 |
| | 15 | 24.0 | 24.4 | 25.4 | 28.0 | 29.2 | 30.0 | 30.2 | 30.6 | 31.2 | 30.5 | 30.8 | 31.5 |
| | 16 | 28.0 | 27.6 | 28.4 | 30.0 | 31.2 | 31.8 | 32.0 | 32.4 | 32.0 | 32.4 | 32.4 | 32.1 |
| | 17 | 20.0 | 19.0 | 19.8 | 18.6 | 18.0 | 18.2 | 19.2 | 20.5 | 20.1 | 19.2 | 16.7 | 13.5 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 24.2 | 25.4 | 26.4 | 27.2 | 28.8 | 30.0 | 31.8 | 32.4 | 32.8 | 36.2 | 36.6 | 35.3 |
| | 20 | 33.4 | 33.6 | 34.6 | 36.0 | 37.2 | 37.2 | 37.8 | 38.9 | 38.8 | 39.9 | 39.3 | 38.0 |
| | 21 | 33.8 | 33.2 | 34.0 | 33.6 | 33.3 | 34.6 | 35.8 | 36.6 | 36.1 | 36.4 | 36.2 | 34.6 |
| | 22 | 29.0 | 28.6 | 30.4 | 32.6 | 33.6 | 35.4 | 36.8 | 38.2 | 39.4 | 38.6 | 38.6 | 38.2 |
| | 23 | 32.4 | 32.4 | 32.0 | 31.4 | 31.8 | 30.8 | 29.0 | 29.4 | 29.6 | 28.2 | 26.8 | 25.7 |
| | 24 | 8.4 | 7.8 | 8.8 | 10.2 | 12.4 | 15.6 | 17.0 | 19.8 | 21.2 | 22.2 | 22.2 | 22.0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 24.2 | 23.0 | 25.0 | 29.4 | 32.6 | 32.7 | 34.1 | 37.3 | 35.1 | 34.4 | 34.1 | 33.7 |
| | 27 | 30.6 | 30.0 | 29.0 | 29.2 | 29.0 | 28.6 | 28.8 | 29.1 | 29.7 | 30.0 | 30.6 | 30.0 |
| | 28 | 21.8 | 21.4 | 22.8 | 25.4 | 28.6 | 30.0 | 31.8 | 32.0 | 32.4 | 32.5 | 32.4 | 30.2 |
| | 29 | 32.6 | 32.6 | 32.6 | 33.8 | 34.8 | 35.8 | 36.5 | 36.8 | 38.3 | 40.4 | 39.4 | 39.2 |
| Hourly Means | 23.14 | 22.85 | 23.51 | 24.82 | 26.12 | 27.29 | 28.33 | 29.31 | 29.64 | 30.01 | 29.54 | 28.53 | |

WET THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 23.5 | 22.5 | 21.4 | 21.7 | 21.8 | 22.9 | 23.9 | 24.4 | 25.4 | 25.6 | 26.5 | 26.8 | 24.70 |
| 32.7 | 32.7 | 32.7 | 32.9 | 33.3 | 34.2 | 35.0 | 35.0 | 35.0 | 35.8 | 36.2 | 36.2 | 32.44 |
| 31.8 | 31.8 | 31.0 | 30.5 | 29.8 | 27.5 | 27.0 | 27.2 | 27.4 | 28.0 | 29.3 | 29.8 | 32.08 |
| 21.4 | 21.4 | 20.8 | 21.9 | 19.7 | 19.5 | 19.6 | 20.1 | 20.0 | 20.1 | 19.9 | 19.8 | 21.67 |
| 18.7 | 16.8 | 16.3 | 18.1 | 19.2 | 19.7 | 19.2 | 18.0 | 18.4 | 20.0 | 21.5 | 22.0 | 19.55 |
| 27.7 | 28.1 | 27.9 | 27.6 | 27.5 | 27.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 15.1 | 16.0 | 16.1 | 15.2 | 14.2 | 12.6 | 23.29 |
| 17.1 | 16.3 | 15.9 | 14.6 | 13.9 | 14.0 | 12.0 | 9.2 | 11.5 | 12.0 | 12.8 | 13.4 | 14.59 |
| 24.8 | 25.4 | 25.4 | 25.5 | 25.5 | 25.0 | 25.5 | 26.1 | 26.5 | 26.6 | 25.8 | 25.2 | 23.05 |
| 20.0 | 18.2 | 18.2 | 18.8 | 19.5 | 17.2 | 15.6 | 13.6 | 10.0 | 11.4 | 10.3 | 6.4 | 19.82 |
| 20.4 | 21.4 | 21.6 | 22.9 | 23.2 | 24.2 | 24.9 | 25.5 | 25.8 | 25.5 | 25.9 | 27.0 | 18.72 |
| 34.6 | 34.0 | 35.1 | 36.2 | 36.4 | 37.0 | 37.1 | 37.0 | 37.0 | 39.1 | 39.2 | 36.6 | 34.49 |
| 27.5 | 27.0 | 25.8 | 25.6 | 25.7 | 25.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 23.0 | 22.5 | 21.7 | 22.2 | 23.4 | 23.6 | 27.49 |
| 31.0 | 32.0 | 32.4 | 32.5 | 32.6 | 32.8 | 33.0 | 33.2 | 33.2 | 32.5 | 33.0 | 33.2 | 31.18 |
| 37.4 | 37.6 | 37.0 | 36.9 | 35.7 | 34.7 | 34.2 | 33.5 | 33.3 | 33.0 | 32.3 | 30.0 | 36.17 |
| 26.2 | 25.2 | 24.8 | 24.7 | 24.7 | 24.8 | 24.4 | 24.0 | 23.5 | 22.6 | 22.0 | 21.4 | 25.71 |
| 24.0 | 23.0 | 23.0 | 23.2 | 22.5 | 21.7 | 20.7 | 20.1 | 19.8 | 18.4 | 17.0 | 15.8 | 22.35 |
| 17.6 | 17.7 | 16.0 | 14.2 | 13.5 | 12.6 | 11.4 | 10.6 | 10.1 | 9.1 | 8.6 | 7.8 | 14.95 |
| 12.8 | 13.5 | 11.8 | 10.9 | 10.4 | 10.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 10.0 | 10.2 | 10.3 | 10.5 | 10.8 | 11.0 | 10.75 |
| 23.5 | 25.0 | 25.8 | 27.0 | 28.3 | 29.2 | 30.2 | 31.3 | 32.2 | 32.5 | 32.5 | 33.5 | 22.88 |
| 35.8 | 33.4 | 34.4 | 33.8 | 32.8 | 31.7 | 30.7 | 30.1 | 29.6 | 29.0 | 28.0 | 27.6 | 34.83 |
| 12.9 | 11.1 | 10.0 | 9.0 | 7.0 | 5.0 | 3.6 | 2.0 | 0.7 | 0.2 | 0.3 | — 0.6 | 13.32 |
| 2.2 | 1.8 | 1.5 | 0.9 | — 0.4 | — 1.0 | — 1.8 | — 2.4 | — 2.8 | — 3.0 | — 2.8 | — 3.0 | — 0.50 |
| 4.5 | 3.2 | 2.2 | 1.2 | 0.0 | — 1.0 | — 1.9 | — 2.7 | — 3.4 | — 4.2 | — 5.0 | — 5.4 | — 0.38 |
| 4.2 | 3.1 | 2.7 | 2.2 | 2.2 | 2.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | 1.1 | — 0.5 | — 1.8 | — 2.1 | — 1.2 | 0.81 |
| 5.2 | 6.1 | 7.0 | 7.5 | 7.2 | 7.4 | 7.8 | 7.4 | 7.2 | 7.0 | 7.8 | 8.2 | 4.42 |
| 12.9 | 10.5 | 9.4 | 8.8 | 7.5 | 6.5 | 6.6 | 4.2 | 1.8 | — 1.4 | — 0.8 | 1.0 | 9.54 |
| 5.5 | 6.2 | 5.8 | 7.8 | 7.5 | 6.0 | 5.6 | 6.2 | 7.0 | 6.2 | 3.4 | 2.0 | 5.67 |
| 20.59 | 20.26 | 19.85 | 19.89 | 19.52 | 19.17 | 18.94 | 17.91 | 17.66 | 17.46 | 17.39 | 17.06 | 19.42 |
| 23.0 | 23.7 | 22.2 | 21.5 | 21.5 | 22.0 | 22.2 | 23.0 | 22.5 | 21.8 | 20.8 | 19.8 | 18.57 |
| 22.0 | 20.6 | 18.0 | 14.0 | 11.8 | 12.4 | 14.6 | 18.1 | 20.2 | 21.2 | 21.5 | 21.8 | 20.89 |
| 14.2 | 12.8 | 11.8 | 13.0 | 12.8 | 11.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 29.0 | 29.8 | 30.2 | 30.8 | 30.7 | 31.2 | 21.62 |
| 33.6 | 33.7 | 33.6 | 33.2 | 33.2 | 33.0 | 32.4 | 32.6 | 32.4 | 32.5 | 32.3 | 32.4 | 32.82 |
| 31.8 | 32.5 | 31.5 | 28.8 | 27.3 | 25.8 | 24.2 | 22.6 | 16.9 | 14.8 | 17.7 | 18.0 | 28.94 |
| 23.2 | 20.1 | 17.4 | 16.9 | 16.0 | 18.7 | 18.6 | 21.0 | 20.8 | 20.5 | 20.4 | 19.6 | 21.38 |
| 24.0 | 23.8 | 23.1 | 23.0 | 22.4 | 22.5 | 22.2 | 19.3 | 16.7 | 15.1 | 13.2 | 10.2 | 21.09 |
| 9.7 | 8.8 | 7.5 | 7.3 | 4.8 | 6.4 | 10.3 | 12.8 | 14.5 | 15.1 | 15.0 | 15.0 | 10.90 |
| 23.5 | 22.4 | 21.2 | 20.0 | 21.0 | 20.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 21.0 | 20.2 | 19.0 | 18.0 | 17.8 | 18.8 | 20.42 |
| 30.5 | 29.8 | 29.5 | 29.8 | 30.2 | 29.3 | 30.7 | 30.9 | 31.3 | 31.5 | 31.0 | 31.2 | 27.86 |
| 33.0 | 33.4 | 32.0 | 30.4 | 30.2 | 27.6 | 27.0 | 26.0 | 25.2 | 25.0 | 24.8 | 22.0 | 30.71 |
| 21.7 | 20.0 | 18.3 | 18.4 | 17.8 | 16.8 | 15.4 | 14.8 | 17.8 | 19.8 | 19.0 | 19.4 | 20.77 |
| 31.6 | 31.4 | 31.0 | 30.4 | 30.0 | 29.2 | 28.4 | 28.1 | 28.5 | 29.0 | 28.7 | 28.4 | 29.19 |
| 29.8 | 29.2 | 27.8 | 27.2 | 25.5 | 25.0 | 25.1 | 24.8 | 24.6 | 24.0 | 22.5 | 21.4 | 28.22 |
| 10.7 | 9.8 | 9.4 | 9.5 | 9.2 | 8.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 25.5 | 25.0 | 24.3 | 24.2 | 24.4 | 24.2 | 17.83 |
| 35.3 | 34.0 | 32.7 | 32.5 | 32.4 | 32.4 | 32.0 | 31.8 | 32.0 | 32.2 | 31.8 | 33.2 | 31.64 |
| 36.5 | 37.5 | 36.8 | 34.8 | 32.0 | 31.0 | 32.5 | 32.7 | 33.0 | 32.8 | 33.6 | 34.2 | 35.50 |
| 34.2 | 34.3 | 33.6 | 33.2 | 32.6 | 32.2 | 31.9 | 32.0 | 31.5 | 29.0 | 29.5 | 28.4 | 33.36 |
| 35.3 | 33.0 | 32.5 | 31.2 | 30.2 | 29.2 | 27.3 | 27.0 | 27.0 | 27.4 | 28.2 | 30.0 | 32.40 |
| 25.5 | 25.3 | 25.0 | 24.0 | 23.4 | 23.0 | 20.4 | 17.0 | 15.2 | 12.5 | 10.9 | 9.9 | 24.65 |
| 18.2 | 15.8 | 14.2 | 13.5 | 13.5 | 13.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 22.0 | 21.8 | 22.2 | 22.8 | 23.4 | 24.2 | 17.18 |
| 33.7 | 33.9 | 33.8 | 34.3 | 34.5 | 34.2 | 34.5 | 36.2 | 36.0 | 33.9 | 32.8 | 32.4 | 32.74 |
| 27.4 | 26.5 | 26.2 | 26.0 | 25.4 | 25.0 | 24.9 | 24.5 | 24.6 | 23.8 | 23.2 | 22.6 | 27.28 |
| 29.2 | 28.8 | 29.5 | 30.0 | 31.1 | 30.9 | 30.9 | 31.0 | 31.0 | 32.4 | 32.0 | 32.4 | 29.60 |
| 37.5 | 38.0 | 39.5 | 39.8 | 39.5 | 38.8 | 37.2 | 36.4 | 36.0 | 35.6 | 36.4 | 36.6 | 36.84 |
| 27.00 | 26.36 | 25.52 | 24.91 | 24.33 | 23.98 | 25.61 | 25.58 | 25.34 | 25.03 | 24.86 | 24.69 | 26.10 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 36.6 | 36.6 | 37.6 | 39.4 | 41.0 | 41.3 | 41.0 | 41.4 | 42.0 | 39.1 | 39.5 | 39.4 |
| | 2 | 34.8 | 34.4 | 33.8 | 34.0 | 34.8 | 35.4 | 35.7 | 36.0 | 37.2 | 37.0 | 36.5 | 34.8 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 16.2 | 15.4 | 14.8 | 16.0 | 16.0 | 17.2 | 19.2 | 20.1 | 21.7 | 22.7 | 22.6 | 22.7 |
| | 5 | 11.6 | 13.0 | 14.8 | 18.8 | 23.4 | 28.0 | 33.2 | 32.0 | 32.6 | 32.8 | 32.7 | 32.7 |
| | 6 | 25.8 | 26.2 | 28.6 | 31.0 | 32.2 | 32.6 | 33.3 | 34.5 | 35.8 | 36.1 | 33.4 | 32.2 |
| | 7 | 29.0 | 29.4 | 31.8 | 35.0 | 36.2 | 36.4 | 38.0 | 38.8 | 40.5 | 38.3 | 37.7 | 36.5 |
| | 8 | 32.0 | 32.2 | 33.6 | 37.6 | 37.2 | 38.0 | 38.6 | 38.6 | 39.5 | 39.8 | 41.4 | 41.3 |
| | 9 | 29.8 | 28.8 | 28.6 | 29.6 | 32.6 | 31.6 | 31.8 | 32.5 | 32.7 | 32.6 | 31.5 | 32.2 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 28.6 | 29.6 | 32.4 | 35.8 | 37.6 | 39.2 | 40.8 | 44.0 | 44.8 | 43.4 | 41.4 | 39.7 |
| | 12 | 34.8 | 36.0 | 38.2 | 40.2 | 41.6 | 40.6 | 40.4 | 40.4 | 39.8 | 39.8 | 39.8 | 39.5 |
| | 13 | 38.8 | 39.4 | 39.8 | 41.8 | 44.2 | 44.0 | 43.8 | 42.8 | 42.2 | 41.0 | 40.4 | 39.2 |
| | 14 | 28.0 | 27.2 | 26.4 | 27.0 | 28.0 | 29.2 | 31.0 | 21.2 | 32.2 | 32.2 | 32.2 | 30.2 |
| | 15 | 29.0 | 29.6 | 29.6 | 29.8 | 30.2 | 30.0 | 31.6 | 32.5 | 32.6 | 32.7 | 34.0 | 34.1 |
| | 16 | 35.4 | 34.6 | 34.8 | 35.4 | 34.8 | 34.8 | 35.2 | 36.3 | 36.5 | 36.7 | 36.0 | 34.8 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 16.6 | 17.6 | 16.6 | 16.8 | 17.0 | 18.0 | 18.2 | 18.0 | 17.1 | 15.1 | 14.4 | 13.3 |
| | 19 | 13.0 | 14.8 | 16.4 | 19.8 | 22.6 | 23.2 | 24.8 | 26.5 | 29.4 | 29.1 | 28.1 | 27.2 |
| | 20 | 30.4 | 30.6 | 30.2 | 30.0 | 30.2 | 29.8 | 29.8 | 29.6 | 29.4 | 28.2 | 28.0 | 27.8 |
| | 21 | 13.9 | 13.5 | 14.8 | 16.9 | 18.5 | 20.8 | 22.4 | 24.8 | 26.2 | 27.2 | 28.0 | 28.1 |
| | 22 | 24.8 | 25.4 | 26.4 | 26.0 | 26.2 | 27.0 | 27.2 | 29.0 | 29.4 | 31.0 | 30.3 | 31.2 |
| | 23 | 18.2 | 18.4 | 19.6 | 21.0 | 23.0 | 24.4 | 26.0 | 27.5 | 29.0 | 29.8 | 31.7 | 31.5 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 38.0 | 38.2 | 38.4 | 37.8 | 38.6 | 36.8 | 35.8 | 36.5 | 37.7 | 39.5 | 43.3 | 41.5 |
| | 26 | 30.4 | 31.2 | 33.2 | 36.0 | 37.0 | 36.8 | 38.4 | 40.0 | 41.4 | 38.2 | 36.2 | 36.1 |
| | 27 | 30.4 | 30.4 | 29.2 | 28.8 | 28.3 | 28.2 | 28.3 | 29.2 | 30.4 | 30.6 | 30.3 | 30.3 |
| | 28 | 38.2 | 39.0 | 39.4 | 39.6 | 39.8 | 40.6 | 40.6 | 41.0 | 42.4 | 41.9 | 42.2 | 43.0 |
| | 29 | 23.6 | 21.6 | 21.6 | 22.8 | 25.0 | 26.6 | 28.6 | 30.2 | 30.4 | 30.3 | 29.0 | 29.3 |
| | 30 | 19.8 | 20.2 | 20.4 | 20.1 | 20.0 | 21.0 | 22.2 | 22.2 | 23.3 | 24.1 | 24.5 | 26.1 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 27.22 | 27.43 | 28.12 | 29.50 | 30.62 | 31.21 | 32.03 | 32.91 | 33.70 | 33.43 | 33.27 | 32.87 | |
| APRIL. | 1 | 19.6 | 23.2 | 28.0 | 29.8 | 30.5 | 32.2 | 32.4 | 32.8 | 34.0 | 35.4 | 35.5 | 34.8 |
| | 2 | 32.0 | 33.4 | 34.6 | 35.4 | 36.7 | 37.3 | 37.9 | 39.4 | 40.1 | 40.7 | 39.1 | 38.0 |
| | 3 | 34.4 | 35.4 | 39.4 | 41.4 | 44.6 | 45.8 | 48.1 | 50.8 | 51.9 | 54.3 | 54.4 | 53.0 |
| | 4 | 45.0 | 45.6 | 47.2 | 50.8 | 51.8 | 51.0 | 51.4 | 55.0 | 53.2 | 56.4 | 49.8 | 46.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 35.6 | 36.0 | 36.6 | 37.4 | 36.6 | 36.4 | 36.6 | 38.2 | 38.0 | 38.3 | 37.8 | 38.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 35.4 | 40.6 | 42.8 | 47.2 | 46.2 | 51.4 | 52.2 | 57.5 | 61.4 | 62.1 | 58.7 | 60.5 |
| | 9 | 41.8 | 42.8 | 45.2 | 47.6 | 48.6 | 50.2 | 53.8 | 52.9 | 51.7 | 53.5 | 54.0 | 53.5 |
| | 10 | 35.0 | 40.6 | 43.6 | 46.6 | 49.2 | 51.6 | 53.8 | 56.4 | 57.5 | 58.5 | 58.3 | 56.6 |
| | 11 | 40.4 | 44.8 | 47.0 | 48.6 | 49.6 | 46.6 | 47.2 | 50.1 | 55.4 | 52.3 | 54.9 | 53.0 |
| | 12 | 41.8 | 46.2 | 49.4 | 52.0 | 54.0 | 54.8 | 56.2 | 57.8 | 57.8 | 59.5 | 58.8 | 59.0 |
| | 13 | 43.6 | 46.8 | 50.6 | 53.6 | 54.0 | 56.4 | 57.0 | 58.8 | 60.5 | 63.4 | 60.0 | 58.7 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 54.0 | 55.4 | 55.6 | 57.6 | 58.2 | 56.4 | 56.6 | 56.1 | 54.1 | 53.9 | 54.4 | 51.4 |
| | 16 | 45.6 | 44.0 | 44.6 | 49.4 | 52.0 | 57.8 | 56.6 | 54.0 | 52.0 | 51.6 | 51.8 | 51.5 |
| | 17 | 36.2 | 37.0 | 36.8 | 37.6 | 37.4 | 38.2 | 40.5 | 40.5 | 41.3 | 41.4 | 41.2 | 41.0 |
| | 18 | 29.6 | 32.0 | 34.4 | 37.0 | 39.6 | 41.6 | 42.4 | 43.5 | 44.6 | 44.4 | 44.3 | 44.0 |
| | 19 | 29.2 | 34.0 | 36.6 | 38.8 | 42.2 | 43.8 | 47.2 | 50.0 | 49.4 | 48.0 | 47.2 | 47.4 |
| | 20 | 35.0 | 41.0 | 43.4 | 44.6 | 45.8 | 48.0 | 50.0 | 50.2 | 52.4 | 50.0 | 48.3 | 48.7 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 47.0 | 47.6 | 47.0 | 47.8 | 48.4 | 48.0 | 47.4 | 48.2 | 47.6 | 50.8 | 48.5 | 47.7 |
| | 23 | 47.2 | 48.8 | 49.6 | 50.6 | 52.6 | 54.6 | 56.4 | 56.4 | 56.2 | 59.0 | 59.8 | 62.6 |
| | 24 | 49.8 | 53.4 | 55.2 | 54.4 | 61.0 | 61.4 | 62.0 | 60.8 | 59.2 | 58.2 | 57.4 | 56.4 |
| | 25 | 38.2 | 40.8 | 43.4 | 45.8 | 47.4 | 48.4 | 47.9 | 48.4 | 50.5 | 47.1 | 47.1 | 48.0 |
| | 26 | 44.6 | 44.8 | 46.4 | 46.2 | 45.6 | 45.2 | 45.4 | 45.4 | 43.8 | 42.8 | 41.7 | 40.0 |
| | 27 | 31.0 | 32.0 | 33.8 | 36.2 | 36.8 | 39.4 | 38.2 | 39.9 | 41.7 | 41.2 | 42.8 | 41.6 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 35.4 | 38.8 | 41.6 | 44.4 | 46.0 | 45.8 | 47.0 | 49.2 | 49.8 | 49.7 | 50.3 | 52.8 |
| | 30 | 37.6 | 40.0 | 43.6 | 46.6 | 49.2 | 48.3 | 52.1 | 54.8 | 52.2 | 51.3 | 49.2 | 48.4 |
| | Hourly Means | 38.60 | 41.00 | 43.06 | 45.10 | 46.56 | 47.62 | 48.65 | 49.88 | 50.25 | 50.55 | 49.81 | 49.33 |

WET THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 38.8 | 37.8 | 38.0 | 38.8 | 41.8 | 47.2 | 46.7 | 45.8 | 39.3 | 37.5 | 36.4 | 35.8 | 39.95 |
| 34.3 | 32.2 | 31.8 | 30.4 | 30.2 | 29.5 | — | — | — | — | — | — | 31.34 |
| — | — | — | — | — | — | 27.5 | 25.7 | 23.9 | 22.9 | 21.4 | 18.0 | 16.39 |
| 19.8 | 18.4 | 17.2 | 16.8 | 15.2 | 13.7 | 12.5 | 12.0 | 10.6 | 10.6 | 10.9 | 11.0 | 27.80 |
| 32.6 | 32.5 | 31.2 | 31.0 | 31.0 | 31.2 | 31.5 | 30.0 | 29.2 | 28.5 | 28.2 | 27.6 | 30.80 |
| 31.6 | 31.0 | 29.8 | 30.0 | 30.4 | 29.4 | 29.6 | 29.6 | 29.4 | 29.7 | 29.4 | 27.6 | 33.36 |
| 34.4 | 33.0 | 31.5 | 31.3 | 30.8 | 29.9 | 29.8 | 29.6 | 29.4 | 30.8 | 31.0 | 31.6 | 37.38 |
| 40.8 | 42.2 | 41.2 | 40.7 | 39.4 | 38.5 | 37.2 | 35.8 | 35.0 | 33.8 | 32.5 | 30.2 | — |
| 31.7 | 28.9 | 27.9 | 27.5 | 26.8 | 26.4 | — | — | — | — | — | — | 30.08 |
| — | — | — | — | — | — | 32.5 | 30.0 | 29.2 | 29.2 | 28.8 | 28.8 | 36.42 |
| 36.2 | 35.2 | 35.6 | 35.3 | 34.8 | 34.8 | 34.7 | 34.2 | 33.8 | 33.6 | 33.5 | 35.2 | 39.28 |
| 39.4 | 39.7 | 39.7 | 39.0 | 38.8 | 39.0 | 38.8 | 39.4 | 39.5 | 39.4 | 39.7 | 39.2 | 36.83 |
| 37.8 | 37.0 | 35.8 | 33.4 | 32.3 | 31.1 | 30.5 | 30.3 | 30.0 | 30.3 | 29.1 | 29.0 | 28.66 |
| 28.8 | 27.1 | 26.8 | 27.2 | 27.7 | 28.0 | 27.5 | 27.6 | 28.2 | 27.8 | 28.0 | 28.4 | 33.25 |
| 34.3 | 34.9 | 35.0 | 35.5 | 35.0 | 35.2 | 35.2 | 35.4 | 35.6 | 35.9 | 35.2 | 35.2 | — |
| 32.8 | 31.6 | 31.0 | 29.3 | 29.3 | 29.0 | — | — | — | — | — | — | 30.05 |
| — | — | — | — | — | — | 21.4 | 20.0 | 18.5 | 19.0 | 17.0 | 17.0 | 14.82 |
| 12.7 | 12.5 | 12.5 | 12.7 | 12.8 | 12.6 | 13.8 | 13.8 | 13.6 | 13.2 | 13.2 | 13.6 | 25.43 |
| 26.6 | 26.5 | 26.5 | 27.3 | 27.8 | 28.2 | 28.4 | 28.5 | 28.1 | 28.3 | 29.5 | 29.8 | 25.33 |
| 26.8 | 26.3 | 26.2 | 25.3 | 23.9 | 22.8 | 20.8 | 19.0 | 17.0 | 15.6 | 15.0 | 15.2 | 22.68 |
| 24.8 | 24.5 | 24.5 | 24.2 | 23.5 | 23.8 | 23.8 | 24.3 | 23.8 | 23.8 | 24.0 | 24.2 | 25.82 |
| 29.5 | 26.4 | 26.0 | 25.4 | 24.9 | 24.2 | 24.0 | 23.5 | 23.2 | 20.3 | 19.5 | 19.0 | — |
| 31.8 | 27.2 | 24.9 | 23.0 | 22.7 | 22.0 | — | — | — | — | — | — | 27.96 |
| — | — | — | — | — | — | 36.0 | 37.6 | 36.9 | 37.8 | 36.0 | 35.0 | 34.98 |
| 38.4 | 34.0 | 30.5 | 30.2 | 30.2 | 31.7 | 32.6 | 30.8 | 29.2 | 29.5 | 30.0 | 30.4 | 35.06 |
| 35.6 | 35.0 | 34.5 | 34.1 | 34.0 | 34.1 | 33.9 | 33.2 | 33.6 | 33.5 | 32.6 | 32.4 | 30.94 |
| 30.4 | 30.7 | 31.2 | 30.8 | 31.0 | 30.6 | 32.0 | 32.2 | 32.3 | 33.9 | 36.0 | 37.0 | 37.64 |
| 43.8 | 41.4 | 39.8 | 36.5 | 36.0 | 35.8 | 33.2 | 31.5 | 31.7 | 30.8 | 28.9 | 26.2 | 25.47 |
| 28.8 | 27.7 | 27.2 | 25.9 | 24.8 | 23.4 | 22.8 | 22.6 | 22.0 | 21.2 | 20.8 | 25.2 | — |
| 25.5 | 22.7 | 20.7 | 19.0 | 18.5 | 17.8 | — | — | — | — | — | — | 20.64 |
| — | — | — | — | — | — | 18.4 | 17.4 | 18.0 | 18.7 | 17.4 | 17.4 | — |
| 31.85 | 30.63 | 29.88 | 29.25 | 28.98 | 28.84 | 29.04 | 28.45 | 27.73 | 27.52 | 27.08 | 26.92 | 29.94 |
| 31.7 | 30.3 | 30.8 | 30.5 | 30.5 | 29.8 | 30.6 | 31.0 | 31.4 | 31.5 | 31.4 | 31.2 | 30.79 |
| 37.0 | 36.0 | 37.1 | 37.4 | 36.0 | 36.0 | 34.8 | 35.6 | 35.9 | 36.8 | 36.2 | 34.6 | 36.58 |
| 60.0 | 48.0 | 43.2 | 41.8 | 42.8 | 47.5 | 49.3 | 49.8 | 49.1 | 44.5 | 43.8 | 44.2 | 46.56 |
| 45.6 | 45.1 | 43.5 | 42.8 | 42.2 | 40.7 | — | — | — | — | — | — | 44.86 |
| — | — | — | — | — | — | 33.8 | 34.5 | 35.2 | 37.4 | 36.6 | 35.4 | — |
| 38.3 | 38.2 | 38.5 | 38.4 | 38.1 | 38.0 | — | — | — | — | — | — | 37.02 |
| — | — | — | — | — | — | 36.0 | 35.1 | 35.8 | 36.2 | 35.4 | 35.0 | — |
| 57.1 | 55.5 | 52.7 | 52.5 | 52.2 | 46.7 | 45.5 | 42.7 | 42.0 | 40.2 | 40.2 | 40.2 | 49.31 |
| 50.5 | 45.4 | 43.0 | 41.7 | 40.3 | 39.3 | 38.2 | 36.1 | 35.8 | 35.2 | 35.3 | 34.6 | 44.63 |
| 53.7 | 50.1 | 48.0 | 46.4 | 44.0 | 43.5 | 40.7 | 39.0 | 38.5 | 37.5 | 38.0 | 38.8 | 46.91 |
| 49.6 | 47.2 | 45.8 | 46.4 | 45.0 | 43.8 | 42.6 | 41.8 | 40.8 | 40.0 | 41.3 | 41.0 | 46.47 |
| 52.5 | 50.4 | 49.7 | 48.8 | 46.9 | 46.4 | 44.8 | 46.8 | 44.6 | 44.7 | 45.2 | 43.2 | 50.47 |
| 53.7 | 53.2 | 50.5 | 49.2 | 47.2 | 46.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.4 | 55.3 | 54.7 | 53.1 | 54.3 | 52.8 | 53.73 |
| 49.4 | 47.2 | 46.8 | 46.3 | 45.4 | 47.0 | 46.8 | 46.5 | 46.2 | 46.7 | 47.4 | 46.0 | 51.06 |
| 53.6 | 53.0 | 47.6 | 46.4 | 45.9 | 45.5 | 43.0 | 41.6 | 40.8 | 39.0 | 38.4 | 36.8 | 47.60 |
| 40.5 | 37.4 | 34.0 | 31.6 | 30.0 | 29.4 | 29.2 | 29.1 | 28.8 | 28.8 | 28.6 | 28.4 | 35.20 |
| 41.0 | 37.2 | 34.0 | 32.8 | 33.1 | 32.9 | 32.2 | 30.3 | 29.7 | 29.1 | 28.5 | 28.0 | 36.09 |
| 44.5 | 42.7 | 41.2 | 40.6 | 38.5 | 37.5 | 35.8 | 35.5 | 35.4 | 34.5 | 33.8 | 33.4 | 40.30 |
| 46.7 | 44.8 | 42.7 | 41.0 | 39.8 | 38.0 | — | — | — | — | — | — | 45.78 |
| — | — | — | — | — | — | 49.5 | 49.0 | 48.2 | 47.8 | 47.0 | 46.8 | — |
| 48.0 | 48.2 | 49.0 | 50.1 | 49.5 | 49.0 | 46.7 | 45.0 | 45.0 | 47.0 | 46.5 | 46.0 | 47.75 |
| 64.8 | 64.6 | 51.8 | 49.8 | 48.6 | 54.2 | 51.0 | 50.2 | 50.5 | 48.2 | 49.8 | 49.6 | 53.62 |
| 54.8 | 51.8 | 47.0 | 44.2 | 44.0 | 43.2 | 42.1 | 41.4 | 40.3 | 38.1 | 38.7 | 38.0 | 50.53 |
| 47.1 | 46.7 | 45.2 | 45.9 | 45.9 | 45.5 | 43.9 | 43.4 | 42.0 | 44.0 | 43.5 | 43.4 | 45.40 |
| 40.0 | 39.8 | 38.7 | 37.5 | 37.8 | 37.8 | 37.5 | 37.2 | 34.5 | 33.2 | 31.7 | 30.8 | 40.35 |
| 39.6 | 37.4 | 35.5 | 34.2 | 32.8 | 32.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 36.2 | 35.4 | 34.2 | 33.2 | 32.0 | 33.4 | 36.27 |
| 49.7 | 47.5 | 43.5 | 41.5 | 39.8 | 38.4 | 37.2 | 36.2 | 35.2 | 34.6 | 34.5 | 35.8 | 42.70 |
| 48.3 | 47.5 | 47.0 | 47.2 | 46.8 | 46.0 | 46.5 | 47.3 | 47.9 | 46.7 | 47.4 | 50.2 | 47.59 |
| 47.91 | 45.81 | 43.47 | 42.60 | 41.72 | 41.40 | 41.17 | 40.63 | 40.10 | 39.54 | 39.42 | 39.10 | 44.30 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MAY. | 1 | 52.0 | 52.8 | 57.2 | 59.0 | 60.5 | 60.4 | 60.4 | 59.4 | 58.0 | 57.6 | 57.6 | 58.4 |
| | 2 | 52.6 | 55.2 | 56.4 | 57.6 | 56.2 | 59.6 | 60.8 | 61.7 | 61.3 | 62.3 | 59.8 | 56.4 |
| | 3 | 50.2 | 54.0 | 56.6 | 56.4 | 57.2 | 59.8 | 60.2 | 59.8 | 58.8 | 57.5 | 60.7 | 62.8 |
| | 4 | 47.2 | 48.4 | 49.8 | 51.8 | 49.6 | 51.4 | 53.2 | 51.8 | 51.8 | 51.8 | 49.3 | 49.8 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 45.0 | 46.0 | 45.6 | 45.8 | 47.4 | 49.8 | 53.0 | 53.7 | 54.4 | 55.1 | 53.8 | 48.6 |
| | 7 | 45.8 | 47.2 | 47.8 | 48.4 | 49.6 | 51.6 | 51.6 | 51.2 | 53.8 | 54.4 | 55.0 | 57.3 |
| | 8 | 51.4 | 52.4 | 53.6 | 55.2 | 50.6 | 50.2 | 51.8 | 50.8 | 52.0 | 52.9 | 52.5 | 54.9 |
| | 9 | 40.8 | 42.2 | 43.6 | 44.8 | 47.2 | 48.6 | 49.0 | 49.5 | 49.8 | 51.0 | 50.4 | 51.4 |
| | 10 | 37.6 | 42.6 | 43.2 | 44.6 | 45.0 | 46.0 | 44.8 | 46.0 | 46.0 | 45.0 | 43.5 | 42.7 |
| | 11 | 49.2 | 48.2 | 50.0 | 56.6 | 60.4 | 61.2 | 64.4 | 63.7 | 68.0 | 67.5 | 64.1 | 65.3 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 36.8 | 38.6 | 41.4 | 41.0 | 40.8 | 47.0 | 42.6 | 47.0 | 39.6 | 38.8 | 38.5 | 37.5 |
| | 14 | 43.0 | 43.6 | 44.6 | 47.0 | 48.4 | 49.2 | 52.4 | 53.2 | 52.0 | 52.9 | 56.4 | 54.9 |
| | 15 | 42.2 | 45.8 | 49.0 | 51.2 | 52.6 | 55.6 | 58.8 | 60.1 | 59.1 | 58.0 | 55.0 | 56.6 |
| | 16 | 47.8 | 49.2 | 50.6 | 52.4 | 58.6 | 57.6 | 56.6 | 55.5 | 54.8 | 53.2 | 53.0 | 53.5 |
| | 17 | 44.6 | 45.0 | 45.8 | 49.0 | 54.0 | 52.8 | 53.6 | 52.6 | 51.1 | 50.1 | 49.2 | 48.5 |
| | 18 | 46.2 | 46.8 | 47.0 | 50.6 | 51.0 | 52.0 | 49.2 | 48.6 | 50.6 | 49.2 | 51.5 | 50.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 45.2 | 45.4 | 48.0 | 51.6 | 54.4 | 52.6 | 51.8 | 57.2 | 57.1 | 54.8 | 52.1 | 48.2 |
| | 21 | 32.8 | 32.6 | 32.6 | 34.0 | 35.8 | 37.4 | 39.0 | 42.2 | 43.5 | 44.2 | 45.9 | 46.2 |
| | 22 | 32.6 | 39.2 | 42.6 | 44.6 | 47.8 | 49.4 | 50.4 | 50.8 | 50.6 | 50.5 | 52.7 | 51.3 |
| | 23 | 36.4 | 39.0 | 47.2 | 49.6 | 52.8 | 56.5 | 58.1 | 61.1 | 60.1 | 58.8 | 58.2 | 58.3 |
| | 24 | 50.0 | 52.0 | 53.6 | 56.0 | 58.0 | 60.0 | 59.6 | 60.7 | 59.7 | 58.0 | 61.0 | 64.8 |
| | 25 | 54.4 | 57.6 | 60.8 | 62.4 | 66.4 | 67.5 | 69.6 | 69.7 | 68.3 | 68.4 | 68.7 | 68.2 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 56.6 | 57.8 | 58.8 | 60.6 | 62.3 | 63.9 | 62.7 | 63.1 | — | — | 62.8 | 61.0 |
| | 28 | 54.0 | 54.8 | 56.4 | 57.4 | 59.2 | 59.8 | 59.0 | 59.6 | 60.1 | 59.8 | 58.8 | 57.8 |
| | 29 | 49.4 | 52.5 | 52.6 | 53.3 | 54.4 | 55.8 | 56.9 | 57.8 | 59.6 | 58.6 | 58.6 | 58.8 |
| | 30 | 50.8 | 52.2 | 52.6 | 53.2 | 55.6 | 56.0 | 61.8 | 65.0 | 60.8 | 59.8 | 59.4 | 60.0 |
| | 31 | 54.8 | 53.5 | 52.8 | 53.2 | 53.6 | 52.5 | 54.6 | 55.0 | 55.8 | 55.4 | 54.2 | 58.5 |
| Hourly Means | 46.27 | 47.95 | 49.64 | 54.38 | 52.94 | 54.23 | 55.03 | 55.81 | 55.26 | 54.83 | 54.91 | 54.89 | |
| JUNE. | 1 | 48.2 | 53.0 | 53.9 | 54.0 | 56.6 | 57.4 | 61.4 | 61.2 | 61.8 | 60.4 | 62.0 | 64.6 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 44.2 | 46.4 | 48.4 | 52.3 | 55.0 | 54.9 | 54.7 | 56.8 | 57.6 | 57.7 | 59.0 | 59.8 |
| | 4 | 44.0 | 47.0 | 50.0 | 53.4 | 56.0 | 56.6 | 57.6 | 58.6 | 58.6 | 59.8 | 59.6 | 59.8 |
| | 5 | 51.6 | 52.6 | 53.8 | 55.4 | 55.6 | 58.6 | 62.8 | 64.6 | 64.0 | 61.6 | 63.4 | 63.2 |
| | 6 | 58.7 | 62.5 | 65.5 | 65.8 | 64.6 | 62.8 | 62.6 | 61.9 | 61.4 | 59.4 | 58.2 | 56.8 |
| | 7 | 49.8 | 49.5 | 50.4 | 52.6 | 55.0 | 58.0 | 60.0 | 63.3 | 63.0 | 64.2 | 58.0 | 56.8 |
| | 8 | 37.6 | 40.2 | 43.8 | 45.8 | 47.2 | 48.8 | 50.0 | 51.8 | 52.8 | 54.2 | 55.0 | 53.1 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 43.6 | 45.9 | 45.4 | 46.4 | 46.8 | 48.8 | 45.2 | 53.4 | 45.0 | 45.4 | 45.2 | 44.4 |
| | 11 | 38.8 | 42.6 | 45.0 | 45.6 | 46.6 | 50.3 | 52.0 | 52.4 | 52.2 | 55.4 | 56.8 | 57.8 |
| | 12 | 44.6 | 47.0 | 49.2 | 50.2 | 52.2 | 54.5 | 55.8 | 56.9 | 55.6 | 54.6 | 54.0 | 54.3 |
| | 13 | 48.0 | 51.5 | 54.2 | 55.4 | 57.0 | 57.8 | 57.8 | 59.4 | 60.6 | 63.2 | 62.2 | 61.0 |
| | 14 | 48.7 | 52.2 | 56.6 | 57.4 | 58.2 | 59.0 | 58.8 | 62.2 | 64.6 | 63.6 | 65.6 | 62.6 |
| | 15 | 53.2 | 55.8 | 57.8 | 61.4 | 59.8 | 62.2 | 64.0 | 64.6 | 64.0 | 60.5 | 62.0 | 63.7 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 58.2 | 59.6 | 62.0 | 63.3 | 63.8 | 66.8 | 66.5 | 64.9 | 66.8 | 65.4 | 64.8 | 66.2 |
| | 18 | 62.6 | 65.5 | 67.2 | 69.5 | 70.0 | 68.8 | 71.0 | 69.8 | 72.2 | 75.2 | 72.8 | 75.3 |
| | 19 | 64.2 | 68.0 | 68.4 | 70.6 | 71.0 | 68.6 | 68.4 | 67.3 | 68.9 | 70.1 | 69.1 | 68.7 |
| | 20 | 55.6 | 55.6 | 57.4 | 58.4 | 58.8 | 61.5 | 60.1 | 61.7 | 62.0 | 60.6 | 60.4 | 67.0 |
| | 21 | 52.2 | 53.6 | 56.0 | 54.8 | 58.0 | 57.4 | 58.2 | 58.0 | 58.6 | 60.4 | 62.0 | 64.6 |
| | 22 | 51.2 | 52.6 | 54.2 | 54.6 | 55.0 | 56.0 | 54.8 | 57.2 | 57.2 | 57.0 | 56.6 | 56.2 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 56.0 | 58.4 | 61.4 | 63.0 | 64.2 | 63.0 | 67.2 | 68.4 | 67.4 | 65.0 | 65.0 | 67.3 |
| | 25 | 62.5 | 62.4 | 62.6 | 64.6 | 67.8 | 69.6 | 67.2 | 69.5 | 71.8 | 70.1 | 73.2 | 74.6 |
| | 26 | 59.4 | 60.0 | 60.6 | 60.9 | 62.2 | 64.0 | 65.0 | 64.7 | 64.0 | 63.5 | 62.9 | 62.4 |
| | 27 | 59.0 | 59.2 | 58.4 | 58.7 | 58.2 | 57.6 | 57.6 | 57.2 | 58.8 | 62.4 | 63.0 | 62.6 |
| | 28 | 56.6 | 57.6 | 56.4 | 56.4 | 58.0 | 59.0 | 59.4 | 59.4 | 58.6 | 60.8 | 60.2 | 64.6 |
| | 29 | 51.0 | 52.8 | 54.2 | 55.0 | 57.0 | 57.6 | 58.4 | 59.7 | 60.7 | 61.7 | 61.9 | 63.0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 51.98 | 54.06 | 55.71 | 57.00 | 58.18 | 59.18 | 59.86 | 61.00 | 61.13 | 61.29 | 61.32 | 62.02 | |

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 56.7 | 55.8 | 56.4 | 55.0 | 54.5 | 54.5 | 52.7 | 51.3 | 51.0 | 51.5 | 51.4 | 50.0 | 55.61 |
| 58.5 | 54.9 | 55.8 | 54.0 | 54.2 | 55.5 | 55.0 | 54.6 | 52.8 | 50.0 | 48.0 | 48.4 | 55.90 |
| 51.8 | 50.0 | 52.4 | 53.7 | 53.5 | 52.2 | 49.8 | 48.9 | 49.5 | 48.3 | 46.5 | 46.2 | 54.03 |
| 48.8 | 48.7 | 48.4 | 48.0 | — | — | — | — | — | — | — | — | 48.39 |
| — | — | — | — | — | — | 44.5 | 43.4 | 43.4 | 43.3 | 44.8 | 45.4 | 48.95 |
| 48.2 | 49.0 | 49.8 | 50.2 | 49.2 | 48.2 | 48.2 | 48.0 | 47.5 | 47.3 | 45.9 | 45.0 | 50.32 |
| 59.2 | 52.3 | 49.3 | 47.3 | 46.5 | 47.2 | 48.3 | 48.0 | 47.6 | 48.2 | 48.6 | 51.6 | 47.70 |
| 49.8 | 47.0 | 45.1 | 44.8 | 43.0 | 42.5 | 41.6 | 41.2 | 41.0 | 40.4 | 40.2 | 39.8 | 43.41 |
| 50.0 | 46.5 | 43.5 | 41.2 | 40.2 | 38.9 | 38.0 | 38.1 | 36.5 | 34.3 | 33.0 | 33.4 | 43.78 |
| 41.9 | 41.8 | 40.7 | 40.5 | 41.1 | 41.4 | 42.7 | 43.0 | 43.8 | 45.4 | 50.0 | 51.4 | 53.67 |
| 66.0 | 65.4 | 60.5 | 57.8 | 55.2 | 52.4 | — | — | — | — | — | — | 40.40 |
| — | — | — | — | — | — | 38.4 | 37.9 | 34.4 | 33.3 | 33.9 | 34.4 | 46.64 |
| 37.2 | 36.8 | 37.5 | 36.7 | 38.0 | 39.3 | 41.1 | 40.8 | 41.7 | 43.5 | 43.4 | 44.0 | 51.64 |
| 56.0 | 50.2 | 46.5 | 46.0 | 43.6 | 42.8 | 41.4 | 40.4 | 39.0 | 38.2 | 39.1 | 38.6 | 49.57 |
| 53.0 | 51.0 | 49.6 | 49.0 | 49.6 | 49.4 | 50.5 | 50.5 | 49.1 | 49.0 | 47.7 | 47.0 | 48.44 |
| 51.8 | 50.2 | 45.8 | 45.4 | 44.9 | 44.8 | 44.7 | 44.5 | 44.0 | 43.6 | 43.4 | 43.8 | 46.54 |
| 48.0 | 48.0 | 48.3 | 48.4 | 48.0 | 45.4 | 46.2 | 47.3 | 47.8 | 46.6 | 46.2 | 46.0 | 44.57 |
| 49.8 | 47.6 | 44.0 | 42.4 | 40.0 | 38.2 | — | — | — | — | — | — | 46.73 |
| — | — | — | — | — | — | 43.5 | 43.0 | 43.6 | 44.0 | 43.5 | 44.4 | 48.07 |
| 44.7 | 42.2 | 41.7 | 41.0 | 39.8 | 33.2 | 37.0 | 35.6 | 33.7 | 32.4 | 32.0 | 33.0 | 47.39 |
| 46.0 | 43.2 | 39.6 | 37.7 | 36.2 | 32.8 | 31.6 | 31.0 | 30.1 | 29.5 | 28.6 | 29.0 | 46.43 |
| 49.9 | 46.5 | 45.2 | 41.3 | 41.0 | 41.7 | 38.8 | 37.2 | 36.8 | 36.5 | 36.0 | 35.6 | 45.90 |
| 57.3 | 56.8 | 52.5 | 52.8 | 51.5 | 50.4 | 49.2 | 47.7 | 46.6 | 45.4 | 44.7 | 45.0 | 45.22 |
| 63.8 | 58.8 | 56.8 | 55.6 | 54.6 | 54.7 | 54.0 | 53.1 | 52.8 | 53.2 | 53.1 | 53.0 | 44.79 |
| 64.8 | 64.3 | 61.6 | 59.1 | 60.2 | 61.4 | — | — | — | — | — | — | 44.50 |
| — | — | — | — | — | — | 57.2 | 57.2 | 56.6 | 56.4 | 55.0 | 55.2 | 44.70 |
| 61.2 | 62.0 | 61.5 | 61.0 | 60.0 | 58.2 | 58.4 | 56.8 | 55.0 | 54.2 | 53.4 | 52.5 | 50.14 |
| 55.5 | 54.5 | 52.3 | 51.0 | 50.6 | 49.8 | 50.0 | 48.7 | 47.0 | 46.6 | 45.5 | 46.5 | 59.26 |
| 55.0 | 52.2 | 49.2 | 47.4 | 47.5 | 47.2 | 48.0 | 48.9 | 49.2 | 49.0 | 49.8 | 50.4 | 53.95 |
| 58.2 | 57.2 | 58.0 | 58.0 | 57.8 | 58.2 | 57.1 | 57.0 | 56.4 | 55.4 | 55.0 | 55.8 | 52.59 |
| 60.5 | 55.2 | 52.1 | 50.4 | 49.2 | 46.8 | 45.6 | 44.8 | 44.0 | 43.8 | 42.8 | 41.5 | 57.14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 51.27 |
| 53.47 | 51.41 | 49.78 | 48.73 | 48.07 | 47.39 | 46.43 | 45.90 | 45.22 | 44.79 | 44.50 | 44.70 | 50.14 |
| 60.0 | 61.8 | 60.0 | 59.5 | 56.2 | 55.8 | — | — | — | — | — | — | 54.40 |
| — | — | — | — | — | — | 44.6 | 43.4 | 43.0 | 42.6 | 42.8 | 41.5 | 49.87 |
| 58.8 | 53.6 | 49.6 | 48.2 | 45.6 | 43.8 | 42.9 | 42.7 | 41.9 | 41.9 | 41.2 | 40.0 | 52.62 |
| 56.4 | 53.0 | 51.0 | 49.8 | 48.7 | 47.9 | 48.3 | 48.7 | 48.8 | 49.4 | 49.3 | 50.6 | 58.29 |
| 63.0 | 58.7 | 57.9 | 57.6 | 57.5 | 55.7 | 56.4 | 56.6 | 56.8 | 56.8 | 57.6 | 57.2 | 56.09 |
| 53.7 | 54.6 | 52.8 | 51.4 | 50.4 | 49.6 | 48.4 | 48.3 | 48.5 | 49.7 | 49.8 | 48.8 | 48.30 |
| 55.6 | 51.0 | 44.2 | 41.7 | 39.2 | 38.0 | 37.2 | 36.0 | 35.3 | 33.6 | 33.2 | 33.6 | 47.32 |
| 52.4 | 50.2 | 50.3 | 50.0 | 49.0 | 47.6 | — | — | — | — | — | — | 42.80 |
| — | — | — | — | — | — | 45.8 | 43.4 | 42.6 | 41.8 | 42.0 | 40.2 | 47.08 |
| 44.8 | 45.0 | 42.4 | 41.0 | 39.8 | 39.0 | 38.2 | 38.3 | 37.3 | 37.0 | 34.3 | 34.6 | 49.52 |
| 56.4 | 53.6 | 49.0 | 46.1 | 44.2 | 42.0 | 40.7 | 40.4 | 41.0 | 40.4 | 40.2 | 41.0 | 53.23 |
| 51.4 | 49.9 | 47.9 | 47.2 | 47.4 | 46.5 | 45.0 | 44.0 | 44.0 | 44.6 | 45.6 | 46.1 | 55.84 |
| 60.0 | 57.4 | 53.3 | 50.2 | 48.6 | 47.6 | 46.4 | 45.2 | 45.0 | 45.2 | 45.2 | 45.3 | 58.57 |
| 62.6 | 59.4 | 56.0 | 54.2 | 53.2 | 51.0 | 49.5 | 49.6 | 49.6 | 49.0 | 47.8 | 48.8 | 62.99 |
| 62.3 | 58.7 | 55.9 | 54.3 | 52.9 | 52.5 | — | — | — | — | — | — | 67.71 |
| — | — | — | — | — | — | 57.9 | 55.9 | 55.4 | 56.6 | 56.8 | 57.4 | 64.75 |
| 66.0 | 64.2 | 62.2 | 62.4 | 62.0 | 61.7 | 62.0 | 61.6 | 61.0 | 59.8 | 60.0 | 60.5 | 57.10 |
| 74.9 | 70.0 | 67.0 | 64.5 | 64.7 | 65.0 | 64.8 | 63.0 | 64.2 | 62.4 | 62.8 | 61.8 | 55.30 |
| 66.8 | 66.0 | 63.2 | 61.1 | 60.0 | 60.2 | 61.2 | 60.2 | 59.6 | 59.1 | 58.0 | 55.4 | 54.32 |
| 69.8 | 67.6 | 61.2 | 53.0 | 51.8 | 50.6 | 49.4 | 49.7 | 49.3 | 49.3 | 49.3 | 50.4 | 63.19 |
| 62.6 | 60.8 | 53.8 | 52.1 | 52.3 | 51.4 | 51.7 | 50.3 | 50.0 | 48.7 | 49.6 | 50.0 | 65.18 |
| 57.4 | 56.2 | 53.4 | 50.4 | 48.8 | 49.0 | — | — | — | — | — | — | 61.51 |
| — | — | — | — | — | — | 54.4 | 54.0 | 55.2 | 54.0 | 54.5 | 53.8 | 60.00 |
| 62.5 | 62.2 | 62.9 | 63.2 | 66.0 | 66.0 | 62.6 | 60.2 | 61.2 | 60.2 | 61.2 | 62.0 | 55.00 |
| 70.6 | 67.2 | 63.8 | 63.2 | 63.0 | 62.5 | 61.6 | 59.6 | 59.4 | 59.2 | 59.0 | 59.3 | 58.67 |
| 62.8 | 63.2 | 62.4 | 61.6 | 60.2 | 60.2 | 60.0 | 60.0 | 58.9 | 58.6 | 59.2 | 59.6 | 63.19 |
| 63.2 | 61.6 | 61.2 | 61.3 | 61.5 | 61.2 | 61.4 | 63.6 | 59.8 | 58.6 | 57.0 | 56.8 | 65.18 |
| 61.2 | 56.7 | 54.8 | 52.9 | 51.4 | 50.4 | 49.8 | 49.5 | 48.6 | 46.3 | 45.6 | 46.0 | 61.51 |
| 63.2 | 59.7 | 55.9 | 53.4 | 52.0 | 51.6 | — | — | — | — | — | — | 60.00 |
| — | — | — | — | — | — | 62.8 | 63.0 | 62.8 | 63.0 | 63.0 | 64.8 | 55.00 |
| 60.74 | 58.49 | 55.68 | 54.01 | 53.06 | 52.27 | 52.12 | 51.49 | 51.17 | 50.71 | 50.60 | 50.62 | 55.99 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 67.0 | 69.6 | 70.0 | 70.2 | 69.9 | 71.9 | 71.9 | 71.4 | 70.7 | 69.8 | 69.5 | 66.3 |
| | 2 | 51.8 | 57.6 | 60.2 | 61.8 | 63.3 | 65.9 | 66.1 | 66.3 | 65.6 | 66.4 | 67.2 | 64.0 |
| | 3 | 55.6 | 56.9 | 58.6 | 58.6 | 59.3 | 59.2 | 59.1 | 59.2 | 58.2 | 56.4 | 56.4 | 57.2 |
| | 4 | 44.0 | 45.5 | 45.4 | 46.8 | 50.8 | 51.2 | 51.8 | 52.8 | 53.0 | 55.6 | 58.8 | 60.6 |
| | 5 | 50.4 | 53.8 | 55.4 | 55.4 | 56.4 | 57.6 | 58.1 | 59.6 | 60.4 | 59.8 | 59.6 | 58.9 |
| | 6 | 66.0 | 61.2 | 65.2 | 63.6 | 63.4 | 64.0 | 64.9 | 65.0 | 63.0 | 63.5 | 63.0 | 61.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 48.6 | 50.6 | 53.3 | 55.4 | 56.7 | 57.6 | 58.9 | 60.6 | 61.4 | 63.6 | 66.2 | 65.5 |
| | 9 | 57.5 | 61.7 | 62.7 | 64.2 | 66.8 | 68.0 | 68.2 | 65.3 | 65.4 | 64.8 | 64.8 | 64.6 |
| | 10 | 68.4 | 71.0 | 70.0 | 68.3 | 68.7 | 69.6 | 68.3 | 67.6 | 68.6 | 68.2 | 68.5 | 66.3 |
| | 11 | 57.8 | 59.4 | 60.8 | 62.0 | 63.6 | 64.4 | 64.8 | 66.8 | 66.7 | 69.4 | 70.2 | 70.0 |
| | 12 | 54.4 | 58.5 | 58.7 | 59.7 | 58.4 | 60.7 | 62.4 | 66.0 | 67.8 | 68.2 | 67.6 | 69.5 |
| | 13 | 61.9 | 63.0 | 63.1 | 66.0 | 65.6 | 66.3 | 68.1 | 69.0 | 68.4 | 69.7 | 67.0 | 68.4 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 56.5 | 58.5 | 60.0 | 59.6 | 60.0 | 60.8 | 60.2 | 60.5 | 61.2 | 62.0 | 61.8 | 60.8 |
| | 16 | 57.6 | 57.6 | 58.0 | 60.4 | 60.8 | 62.5 | 64.0 | 65.0 | 59.0 | 65.4 | 63.0 | 64.2 |
| | 17 | 55.8 | 58.0 | 60.0 | 61.4 | 62.2 | 60.4 | 59.5 | 68.1 | 64.6 | 68.0 | 68.0 | 66.8 |
| | 18 | 52.8 | 55.8 | 60.4 | 62.3 | 65.0 | 66.8 | 67.7 | 69.0 | 67.8 | 67.6 | 67.6 | 68.0 |
| | 19 | 64.8 | 65.6 | 67.0 | 65.6 | 67.8 | 70.8 | 66.4 | 66.2 | 68.0 | 68.6 | 67.7 | 68.6 |
| | 20 | 57.0 | 58.0 | 60.7 | 62.0 | 63.4 | 64.0 | 65.0 | 65.2 | 66.6 | 65.4 | 66.0 | 68.8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 59.6 | 63.2 | 64.0 | 66.0 | 68.0 | 71.0 | 70.8 | 71.6 | 72.0 | 72.0 | 73.0 | 73.4 |
| | 23 | 62.8 | 62.4 | 62.8 | 63.8 | 65.6 | 67.6 | 67.0 | 68.3 | 67.6 | 67.7 | 68.1 | 66.0 |
| | 24 | 59.3 | 59.0 | 60.2 | 61.2 | 62.0 | 64.8 | 64.9 | 65.6 | 65.3 | 64.5 | 63.6 | 64.0 |
| | 25 | 59.2 | 59.2 | 60.6 | 61.6 | 60.6 | 62.3 | 61.6 | 64.0 | 62.1 | 62.8 | 64.2 | 67.8 |
| | 26 | 55.0 | 55.7 | 57.0 | 59.0 | 59.4 | 59.4 | 61.0 | 63.0 | 62.2 | 63.6 | 65.4 | 65.6 |
| | 27 | 54.2 | 59.0 | 62.8 | 62.8 | 63.8 | 65.0 | 65.0 | 65.7 | 63.7 | 65.7 | 69.6 | 69.2 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 60.0 | 63.2 | 65.0 | 65.6 | 67.8 | 69.4 | 69.2 | 71.2 | 73.6 | 73.4 | 72.8 | 72.2 |
| | 30 | 65.8 | 68.4 | 69.2 | 70.1 | 70.0 | 70.6 | 71.5 | 70.8 | 71.4 | 70.2 | 70.1 | 70.1 |
| | 31 | 68.7 | 70.5 | 71.8 | 72.2 | 72.2 | 74.8 | 76.1 | 74.7 | 75.4 | 77.0 | 72.5 | 73.8 |
| Hourly Means | 58.24 | 60.11 | 61.59 | 62.43 | 63.39 | 64.69 | 64.91 | 65.87 | 65.54 | 66.27 | 66.38 | 66.36 | |
| AUGUST. | 1 | 60.9 | 62.4 | 64.0 | 65.6 | 68.3 | 69.5 | 71.5 | 73.3 | 72.0 | 75.0 | 75.8 | 74.0 |
| | 2 | 56.4 | 61.0 | 62.4 | 63.6 | 64.4 | 63.0 | 63.4 | 64.2 | 64.3 | 64.4 | 65.2 | 66.0 |
| | 3 | 54.2 | 55.6 | 59.1 | 61.9 | 65.3 | 66.4 | 67.6 | 68.4 | 66.0 | 65.2 | 65.2 | 66.4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 47.8 | 52.7 | 55.3 | 58.1 | 61.1 | 62.5 | 64.9 | 64.7 | 67.8 | 66.8 | 65.2 | 65.6 |
| | 6 | 61.0 | 62.0 | 62.5 | 63.1 | 66.2 | 68.5 | 65.4 | 66.4 | 66.6 | 64.6 | 62.8 | 62.8 |
| | 7 | 50.4 | 54.2 | 57.0 | 61.4 | 63.5 | 65.4 | 68.1 | 63.0 | 66.6 | 65.8 | 65.8 | 65.0 |
| | 8 | 62.8 | 63.8 | 64.0 | 66.4 | 66.8 | 67.6 | 68.6 | 69.0 | 70.7 | 73.9 | 73.3 | 72.0 |
| | 9 | 65.2 | 65.3 | 66.6 | 66.8 | 68.3 | 69.4 | 69.6 | 69.4 | 70.2 | 71.2 | 68.6 | 72.6 |
| | 10 | 56.8 | 57.8 | 58.4 | 57.9 | 61.2 | 63.4 | 63.4 | 60.7 | 60.4 | 61.5 | 59.4 | 60.4 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 48.4 | 51.4 | 52.7 | 54.7 | 56.0 | 56.4 | 60.2 | 60.0 | 62.2 | 60.5 | 62.8 | 63.0 |
| | 13 | 52.6 | 53.8 | 55.9 | 60.2 | 62.0 | 62.8 | 63.8 | 64.0 | 64.6 | 61.4 | 60.8 | 60.9 |
| | 14 | 57.4 | 60.0 | 61.8 | 63.0 | 64.2 | 65.4 | 66.0 | 66.2 | 69.0 | 67.9 | 67.2 | 66.0 |
| | 15 | 61.6 | 64.6 | 66.4 | 67.3 | 68.1 | 69.5 | 69.5 | 71.5 | 72.3 | 69.6 | 69.2 | 70.6 |
| | 16 | 60.3 | 64.4 | 67.4 | 68.8 | 70.2 | 72.2 | 73.6 | 74.2 | 71.4 | 75.0 | 72.2 | 70.0 |
| | 17 | 61.6 | 62.6 | 62.2 | 62.9 | 63.3 | 62.0 | 62.5 | 68.0 | 67.8 | 69.6 | 69.0 | 61.9 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 65.6 | 66.2 | 66.6 | 68.7 | 69.6 | 72.0 | 73.2 | 71.8 | 73.2 | 75.0 | 75.5 | 74.6 |
| | 20 | 66.2 | 66.8 | 68.0 | 64.6 | 64.4 | 62.8 | 62.0 | 61.4 | 63.6 | 63.8 | 62.3 | 61.3 |
| | 21 | 48.2 | 50.4 | 52.7 | 55.1 | 57.0 | 57.8 | 57.3 | 58.3 | 57.4 | 58.7 | 60.4 | 59.2 |
| | 22 | 56.6 | 57.7 | 57.7 | 58.0 | 58.9 | 59.7 | 60.9 | 63.2 | 69.4 | 72.6 | 71.4 | 70.4 |
| | 23 | 64.8 | 66.4 | 67.0 | 65.6 | 60.9 | 61.8 | 62.1 | 60.8 | 60.8 | 61.8 | 62.6 | 60.3 |
| | 24 | 48.0 | 51.4 | 54.4 | 57.6 | 58.6 | 63.0 | 57.4 | 59.9 | 57.7 | 58.4 | 56.9 | 57.3 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 47.6 | 50.4 | 54.8 | 56.4 | 59.4 | 60.0 | 61.0 | 61.9 | 62.3 | 60.4 | 58.0 | 57.3 |
| | 27 | 54.3 | 54.9 | 56.1 | 56.7 | 57.4 | 57.6 | 58.6 | 61.4 | 58.0 | 62.9 | 59.0 | 61.6 |
| | 28 | 53.2 | 54.5 | 56.6 | 58.0 | 61.0 | 61.8 | 62.2 | 56.0 | 58.0 | 61.8 | 61.8 | 60.0 |
| | 29 | 53.5 | 54.2 | 55.8 | 59.4 | 59.8 | 60.2 | 61.2 | 61.2 | 63.8 | 61.6 | 63.6 | 62.7 |
| | 30 | 50.0 | 52.2 | 55.0 | 58.6 | 61.4 | 61.0 | 63.2 | 66.3 | 63.3 | 63.7 | 64.1 | 63.6 |
| | 31 | 61.0 | 62.2 | 63.0 | 63.0 | 66.9 | 66.8 | 66.4 | 67.4 | 67.2 | 68.9 | 69.2 | 71.2 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 56.53 | 58.48 | 60.13 | 61.61 | 63.12 | 64.02 | 64.58 | 64.91 | 65.43 | 66.00 | 65.46 | 65.06 | |

WET THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 66.0 | 61.2 | 59.4 | 58.6 | 55.0 | 55.2 | 53.2 | 53.6 | 52.0 | 50.8 | 52.0 | 51.5 | 62.78 |
| 61.6 | 61.3 | 62.0 | 60.4 | 59.0 | 58.6 | 58.0 | 58.2 | 58.0 | 58.0 | 54.8 | 54.1 | 60.84 |
| 55.8 | 53.2 | 49.6 | 48.2 | 47.9 | 47.6 | 46.4 | 44.0 | 41.6 | 40.3 | 39.6 | 39.8 | 52.03 |
| 60.2 | 57.0 | 51.5 | 49.2 | 49.0 | 49.0 | 48.2 | 47.4 | 45.6 | 44.2 | 43.6 | 44.6 | 50.24 |
| 58.9 | 59.4 | 60.0 | 60.0 | 60.6 | 58.6 | 61.0 | 62.0 | 61.0 | 61.8 | 60.8 | 62.2 | 58.82 |
| 61.2 | 62.5 | 57.2 | 55.6 | 53.8 | 52.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.6 | 45.4 | 45.2 | 45.2 | 44.8 | 45.1 | 57.42 |
| 65.0 | 62.4 | 59.8 | 61.4 | 56.8 | 56.0 | 55.0 | 54.9 | 53.6 | 50.4 | 54.2 | 53.4 | 57.55 |
| 68.6 | 68.0 | 66.2 | 63.8 | 62.9 | 64.1 | 63.8 | 63.8 | 63.4 | 64.8 | 65.3 | 66.2 | 64.79 |
| 62.8 | 61.0 | 60.5 | 60.4 | 60.4 | 59.9 | 59.0 | 58.6 | 58.0 | 57.8 | 57.0 | 56.8 | 63.99 |
| 68.2 | 66.3 | 61.6 | 59.2 | 58.0 | 56.4 | 53.8 | 50.4 | 51.4 | 52.8 | 50.6 | 50.5 | 60.63 |
| 67.4 | 62.6 | 58.8 | 57.2 | 56.8 | 57.4 | 57.4 | 59.0 | 60.2 | 59.6 | 60.2 | 60.2 | 61.20 |
| 68.0 | 65.8 | 63.2 | 62.0 | 61.6 | 62.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.7 | 56.5 | 56.8 | 55.4 | 55.3 | 55.2 | 63.08 |
| 59.6 | 59.6 | 58.8 | 60.0 | 60.2 | 58.6 | 58.4 | 58.6 | 58.6 | 58.2 | 58.3 | 58.0 | 59.53 |
| 69.4 | 65.3 | 61.9 | 61.0 | 60.0 | 59.0 | 57.2 | 55.8 | 56.2 | 55.8 | 55.0 | 54.4 | 60.35 |
| 65.5 | 64.8 | 57.8 | 54.6 | 52.4 | 51.7 | 51.4 | 49.4 | 49.0 | 48.6 | 47.8 | 47.6 | 58.06 |
| 68.8 | 66.0 | 64.6 | 65.0 | 64.0 | 63.2 | 63.8 | 63.3 | 61.7 | 61.2 | 63.4 | 63.3 | 64.13 |
| 64.4 | 63.6 | 59.0 | 58.2 | 57.1 | 56.8 | 57.1 | 57.2 | 57.6 | 57.3 | 56.1 | 55.6 | 62.80 |
| 68.9 | 65.8 | 63.5 | 55.3 | 53.5 | 52.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.0 | 55.8 | 54.7 | 54.9 | 54.6 | 54.3 | 60.54 |
| 75.6 | 72.6 | 71.0 | 70.6 | 65.8 | 64.7 | 63.8 | 61.0 | 61.6 | 62.4 | 61.8 | 62.0 | 67.40 |
| 66.8 | 68.5 | 66.4 | 64.6 | 64.0 | 63.2 | 60.5 | 59.8 | 59.6 | 59.4 | 59.6 | 59.7 | 64.24 |
| 62.6 | 61.6 | 61.2 | 61.8 | 61.6 | 61.2 | 61.2 | 61.1 | 61.0 | 61.2 | 60.9 | 59.8 | 62.07 |
| 67.4 | 64.6 | 58.4 | 56.6 | 54.8 | 53.6 | 53.7 | 54.0 | 55.5 | 55.6 | 55.8 | 54.8 | 59.62 |
| 68.3 | 63.8 | 57.2 | 55.2 | 53.7 | 52.6 | 52.0 | 51.6 | 51.2 | 50.8 | 50.4 | 50.2 | 57.64 |
| 68.8 | 63.5 | 57.3 | 54.0 | 52.1 | 52.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.0 | 56.6 | 55.0 | 55.6 | 54.4 | 54.2 | 60.31 |
| 70.8 | 69.6 | 68.2 | 68.0 | 66.2 | 63.6 | 62.4 | 62.0 | 61.8 | 63.6 | 63.6 | 63.9 | 66.96 |
| 69.2 | 69.2 | 68.8 | 68.6 | 68.6 | 68.8 | 68.8 | 68.8 | 68.6 | 68.4 | 68.4 | 67.3 | 69.24 |
| 74.8 | 71.6 | 64.4 | 64.6 | 65.0 | 65.4 | 62.4 | 62.2 | 60.9 | 59.8 | 59.2 | 58.8 | 68.70 |
| 66.10 | 64.10 | 61.05 | 59.78 | 58.56 | 57.96 | 57.18 | 56.70 | 56.29 | 56.07 | 55.83 | 55.69 | 61.29 |
| 74.0 | 67.4 | 65.8 | 65.2 | 62.8 | 58.9 | 57.7 | 55.2 | 54.2 | 53.8 | 53.0 | 53.6 | 64.75 |
| 64.7 | 62.3 | 59.7 | 58.4 | 57.2 | 55.8 | 54.8 | 53.0 | 52.6 | 51.2 | 51.6 | 51.0 | 59.61 |
| 65.0 | 62.2 | 62.0 | 61.3 | 60.6 | 60.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 48.0 | 47.8 | 47.4 | 46.8 | 46.6 | 45.7 | 58.95 |
| 62.4 | 60.0 | 59.6 | 59.8 | 59.6 | 60.8 | 61.8 | 62.0 | 61.5 | 62.2 | 61.3 | 61.0 | 61.02 |
| 62.4 | 59.2 | 55.6 | 54.7 | 53.2 | 51.8 | 51.6 | 51.7 | 51.6 | 50.3 | 49.2 | 48.8 | 58.83 |
| 64.3 | 63.8 | 62.3 | 62.0 | 61.6 | 61.9 | 62.0 | 62.2 | 62.2 | 61.6 | 61.4 | 61.2 | 62.29 |
| 73.3 | 68.0 | 67.0 | 66.2 | 64.8 | 65.0 | 66.4 | 66.4 | 66.4 | 65.8 | 65.8 | 66.2 | 67.38 |
| 67.6 | 69.0 | 67.8 | 66.0 | 63.6 | 61.2 | 60.4 | 60.0 | 57.6 | 58.0 | 56.2 | 56.2 | 65.28 |
| 59.8 | 58.6 | 55.0 | 52.4 | 52.6 | 52.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 48.2 | 47.4 | 47.0 | 45.2 | 43.4 | 46.2 | 55.39 |
| 61.0 | 57.2 | 55.0 | 53.8 | 53.2 | 52.8 | 51.4 | 49.6 | 48.4 | 47.4 | 47.5 | 48.3 | 54.75 |
| 61.1 | 59.4 | 58.5 | 57.3 | 57.8 | 58.2 | 57.4 | 57.6 | 58.0 | 58.6 | 58.3 | 58.4 | 59.31 |
| 65.3 | 62.3 | 61.6 | 59.4 | 59.4 | 58.6 | 58.6 | 58.2 | 58.0 | 59.2 | 60.0 | 61.2 | 62.33 |
| 68.3 | 65.0 | 64.4 | 62.0 | 61.0 | 61.0 | 60.2 | 60.4 | 60.2 | 58.4 | 59.0 | 58.8 | 64.95 |
| 68.2 | 70.0 | 69.4 | 67.5 | 66.7 | 66.5 | 65.7 | 67.6 | 66.9 | 65.6 | 64.0 | 62.0 | 68.32 |
| 59.3 | 57.3 | 56.2 | 55.9 | 55.6 | 53.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 62.4 | 64.0 | 65.4 | 65.5 | 65.8 | 65.6 | 62.50 |
| 75.1 | 73.2 | 69.9 | 68.4 | 67.7 | 65.9 | 64.9 | 64.4 | 64.7 | 64.6 | 63.4 | 63.4 | 69.07 |
| 61.6 | 61.8 | 57.6 | 55.0 | 53.6 | 53.0 | 52.6 | 51.4 | 50.0 | 49.4 | 48.6 | 47.4 | 58.72 |
| 59.2 | 55.4 | 54.2 | 54.2 | 54.0 | 55.0 | 54.8 | 53.7 | 54.5 | 55.2 | 55.1 | 55.6 | 55.56 |
| 67.6 | 66.2 | 65.8 | 65.8 | 66.8 | 66.8 | 67.4 | 66.5 | 66.2 | 65.2 | 63.6 | 61.8 | 64.42 |
| 59.5 | 55.2 | 53.5 | 52.6 | 51.9 | 51.6 | 50.2 | 49.2 | 48.6 | 48.6 | 49.8 | 47.2 | 57.20 |
| 56.4 | 56.0 | 55.0 | 54.6 | 53.2 | 53.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.6 | 48.4 | 49.3 | 46.8 | 46.8 | 45.8 | 54.02 |
| 56.2 | 55.9 | 55.6 | 55.6 | 54.7 | 54.2 | 54.6 | 54.4 | 54.2 | 54.0 | 54.0 | 54.2 | 56.13 |
| 58.8 | 56.6 | 54.2 | 52.4 | 51.0 | 50.6 | 50.0 | 51.8 | 51.4 | 51.0 | 52.2 | 52.6 | 55.46 |
| 59.4 | 57.4 | 55.6 | 55.1 | 55.2 | 54.6 | 54.6 | 54.0 | 53.5 | 53.0 | 53.9 | 54.0 | 56.88 |
| 62.6 | 57.2 | 56.2 | 54.4 | 52.0 | 52.5 | 50.4 | 49.8 | 48.8 | 47.8 | 48.8 | 49.0 | 56.10 |
| 63.0 | 62.4 | 61.8 | 61.2 | 60.7 | 61.0 | 61.4 | 60.8 | 61.2 | 61.1 | 61.2 | 61.0 | 60.80 |
| 67.2 | 61.9 | 60.5 | 58.8 | 59.0 | 59.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65.8 | 65.2 | 65.0 | 65.4 | 65.6 | 65.6 | 64.70 |
| 63.71 | 61.51 | 59.99 | 58.89 | 58.13 | 57.64 | 57.18 | 56.77 | 56.47 | 55.99 | 55.78 | 55.62 | 60.54 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 65.8 | 66.4 | 67.5 | 67.9 | 68.2 | 68.0 | 69.4 | 72.8 | 72.4 | 73.2 | 71.2 | 70.5 |
| | 3 | 53.8 | 56.0 | 57.8 | 59.4 | 59.6 | 60.0 | 61.4 | 60.2 | 61.6 | 61.6 | 62.8 | 63.2 |
| | 4 | 53.6 | 55.8 | 57.2 | 58.2 | 58.0 | 58.6 | 58.6 | 58.1 | 58.2 | 57.2 | 57.0 | 57.4 |
| | 5 | 51.0 | 53.0 | 55.0 | 55.8 | 56.4 | 57.4 | 57.2 | 58.3 | 57.5 | 59.7 | 59.6 | 58.4 |
| | 6 | 51.3 | 55.5 | 60.7 | 61.9 | 62.5 | 63.0 | 63.7 | 65.0 | 65.6 | 65.0 | 65.0 | 64.2 |
| | 7 | 51.7 | 59.0 | 60.4 | 61.0 | 62.0 | 63.0 | 64.5 | 64.8 | 64.8 | 64.4 | 64.0 | 63.6 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 60.2 | 62.2 | 62.5 | 63.6 | 64.6 | 66.6 | 66.3 | 67.2 | 67.3 | 68.8 | 68.4 | 69.3 |
| | 10 | 58.8 | 60.0 | 61.8 | 63.0 | 62.4 | 64.6 | 67.0 | 68.8 | 67.8 | 66.6 | 69.6 | 68.2 |
| | 11 | 61.2 | 61.6 | 62.8 | 54.4 | 63.0 | 65.4 | 65.8 | 68.2 | 68.3 | 65.7 | 65.9 | 64.9 |
| | 12 | 57.1 | 57.5 | 58.6 | 59.5 | 61.5 | 63.5 | 63.4 | 67.6 | 67.0 | 66.4 | 67.0 | 67.0 |
| | 13 | 48.0 | 53.2 | 57.1 | 59.6 | 59.5 | 62.7 | 62.9 | 63.6 | 61.6 | 63.4 | 63.2 | 66.8 |
| | 14 | 50.6 | 55.7 | 59.4 | 62.0 | 64.3 | 67.0 | 67.0 | 67.0 | 68.0 | 69.8 | 70.6 | 71.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 54.7 | 58.8 | 62.4 | 66.0 | 67.8 | 68.8 | 69.2 | 69.2 | 69.4 | 70.4 | 71.8 | 71.8 |
| | 17 | 56.0 | 58.0 | 62.0 | 65.5 | 67.4 | 66.2 | 69.2 | 70.5 | 71.2 | 72.9 | 72.2 | 70.1 |
| | 18 | 50.4 | 52.4 | 53.2 | 53.9 | 55.2 | 58.8 | 60.6 | 60.8 | 61.2 | 61.7 | 62.4 | 64.4 |
| | 19 | 44.6 | 48.6 | 54.8 | 58.0 | 61.2 | 64.2 | 65.8 | 68.4 | 69.2 | 70.4 | 71.0 | 70.8 |
| | 20 | 58.7 | 64.0 | 66.4 | 67.8 | 69.4 | 70.8 | 72.7 | 71.6 | 71.2 | 70.0 | 69.4 | 68.6 |
| | 21 | 64.8 | 65.8 | 66.6 | 67.0 | 63.0 | 59.4 | 60.4 | 50.1 | 48.8 | 49.0 | 48.5 | 50.7 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 38.0 | 39.4 | 42.2 | 45.8 | 48.2 | 53.0 | 50.6 | 49.3 | 50.0 | 49.0 | 47.8 | 46.0 |
| | 24 | 42.5 | 43.8 | 45.6 | 47.9 | 48.6 | 50.6 | 50.2 | 51.0 | 52.0 | 54.0 | 52.0 | 51.8 |
| | 25 | 37.3 | 36.6 | 41.9 | 45.4 | 47.6 | 49.7 | 49.3 | 47.4 | 47.9 | 47.0 | 46.4 | 46.3 |
| | 26 | 37.4 | 38.8 | 40.6 | 43.0 | 44.5 | 45.0 | 44.6 | 43.8 | 44.6 | 45.4 | 44.6 | 43.2 |
| | 27 | 28.8 | 32.0 | 35.0 | 37.4 | 38.6 | 40.0 | 40.6 | 40.8 | 40.9 | 41.1 | 41.5 | 40.6 |
| | 28 | 32.7 | 34.3 | 36.5 | 37.2 | 41.1 | 42.3 | 44.4 | 45.7 | 45.5 | 44.4 | 43.5 | 43.4 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 40.2 | 41.1 | 44.9 | 47.5 | 51.3 | 52.2 | 51.4 | 51.0 | 50.4 | 48.8 | 47.0 | 45.2 |
| | Hourly Means | 49.97 | 52.38 | 54.92 | 56.75 | 57.84 | 59.23 | 59.85 | 60.05 | 60.10 | 60.24 | 60.10 | 59.90 |
| OCTOBER. | 1 | 30.6 | 33.6 | 38.1 | 42.6 | 45.0 | 45.0 | 46.2 | 47.6 | 47.7 | 47.5 | 48.3 | 47.0 |
| | 2 | 41.0 | 43.8 | 49.5 | 53.0 | 54.0 | 54.1 | 55.6 | 54.6 | 57.0 | 57.0 | 56.6 | 56.2 |
| | 3 | 43.8 | 43.8 | 49.2 | 51.4 | 52.8 | 55.2 | 55.4 | 55.2 | 55.5 | 55.2 | 55.6 | 53.5 |
| | 4 | 43.4 | 46.2 | 48.5 | 50.3 | 51.2 | 51.8 | 55.2 | 52.0 | 49.8 | 51.0 | 52.4 | 51.2 |
| | 5 | 46.0 | 46.2 | 46.0 | 46.0 | 46.4 | 47.3 | 47.4 | 49.0 | 47.2 | 47.5 | 46.7 | 46.4 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 32.0 | 33.6 | 36.7 | 38.2 | 39.8 | 40.3 | 40.3 | 40.0 | 40.6 | 42.6 | 43.6 | 42.0 |
| | 8 | 29.0 | 30.5 | 35.5 | 41.6 | 44.8 | 49.8 | 53.2 | 52.8 | 53.4 | 54.3 | 53.4 | 52.0 |
| | 9 | 48.0 | 49.0 | 50.0 | 52.3 | 54.5 | 55.0 | 57.8 | 57.2 | 58.8 | 54.6 | 55.1 | 54.8 |
| | 10 | 53.2 | 53.6 | 52.8 | 52.9 | 50.4 | 47.7 | 46.8 | 46.6 | 47.0 | 47.2 | 46.4 | 46.2 |
| | 11 | 35.6 | 36.4 | 39.0 | 40.3 | 42.9 | 44.0 | 46.0 | 47.7 | 47.8 | 47.8 | 47.5 | 47.8 |
| | 12 | 32.0 | 33.2 | 37.0 | 41.4 | 43.9 | 45.2 | 46.2 | 46.6 | 46.4 | 46.0 | 46.0 | 45.7 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 44.3 | 45.4 | 48.4 | 49.8 | 50.8 | 50.4 | 50.8 | 50.0 | 49.8 | 49.6 | 49.4 | 48.9 |
| | 15 | 41.6 | 42.6 | 44.4 | 47.0 | 48.2 | 49.2 | 49.8 | 49.8 | 49.4 | 48.3 | 47.8 | 47.4 |
| | 16 | 36.2 | 36.8 | 38.2 | 40.0 | 41.3 | 42.4 | 43.8 | 44.8 | 44.6 | 45.8 | 45.8 | 43.0 |
| | 17 | 40.3 | 40.2 | 41.1 | 41.8 | 44.0 | 45.0 | 44.6 | 44.2 | 44.0 | 43.8 | 43.8 | 43.4 |
| | 18 | 38.0 | 37.8 | 38.0 | 38.8 | 40.2 | 41.3 | 41.6 | 41.2 | 41.4 | 41.0 | 41.0 | 41.4 |
| | 19 | 37.4 | 37.6 | 36.4 | 37.2 | 38.6 | 38.6 | 37.2 | 37.2 | 36.8 | 36.0 | 34.8 | 34.0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 35.2 | 36.0 | 37.6 | 39.4 | 43.4 | 42.0 | 41.8 | 41.5 | 42.5 | 41.8 | 42.0 | 41.8 |
| | 22 | 40.2 | 41.6 | 43.2 | 45.7 | 47.1 | 46.6 | 47.9 | 48.8 | 48.4 | 49.2 | 47.3 | 43.8 |
| | 23 | 35.2 | 36.2 | 40.4 | 42.7 | 44.2 | 45.7 | 47.0 | 47.8 | 51.6 | 49.7 | 48.4 | 45.4 |
| | 24 | 36.0 | 37.8 | 43.7 | 46.0 | 47.6 | 48.6 | 50.2 | 51.6 | 51.3 | 50.8 | 50.3 | 47.8 |
| | 25 | 46.2 | 47.0 | 50.2 | 51.6 | 52.8 | 54.2 | 55.6 | 55.8 | 55.4 | 55.6 | 56.0 | 52.9 |
| | 26 | 37.4 | 37.6 | 40.2 | 42.5 | 42.8 | 44.0 | 44.5 | 44.5 | 44.2 | 43.8 | 43.6 | 43.2 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 26.8 | 26.8 | 27.2 | 27.6 | 27.8 | 28.2 | 28.0 | 29.0 | 28.3 | 28.4 | 28.1 | 27.4 |
| | 29 | 27.4 | 27.4 | 27.2 | 29.0 | 29.0 | 28.6 | 28.8 | 29.2 | 28.6 | 28.7 | 28.0 | 27.4 |
| | 30 | 27.6 | 27.8 | 28.5 | 29.5 | 30.3 | 31.3 | 32.6 | 32.8 | 32.8 | 33.0 | 32.2 | 32.5 |
| | 31 | 19.2 | 18.0 | 20.0 | 25.8 | 29.6 | 31.0 | 32.7 | 36.4 | 38.8 | 39.4 | 39.2 | 35.6 |
| Hourly Means | 37.17 | 38.02 | 40.26 | 42.39 | 43.83 | 44.54 | 45.44 | 45.70 | 45.89 | 45.76 | 45.53 | 44.40 | |

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| 65.8 | 62.0 | 59.4 | 57.4 | 56.0 | 55.4 | 55.2 | 54.0 | 54.1 | 53.4 | 53.2 | 53.2 | 63.02 |
| 62.8 | 67.4 | 56.8 | 55.2 | 53.7 | 53.0 | 52.3 | 52.0 | 52.1 | 52.0 | 48.4 | 50.2 | 57.22 |
| 55.4 | 52.2 | 49.8 | 48.9 | 49.2 | 48.8 | 50.0 | 49.8 | 50.2 | 51.0 | 50.6 | 50.6 | 53.93 |
| 56.7 | 55.3 | 53.2 | 54.8 | 54.4 | 54.0 | 54.8 | 54.2 | 53.0 | 51.2 | 50.6 | 51.0 | 55.10 |
| 62.2 | 60.4 | 59.8 | 59.6 | 57.8 | 56.0 | 54.6 | 54.4 | 52.0 | 54.2 | 52.6 | 51.5 | 59.10 |
| 61.4 | 60.4 | 58.0 | 56.2 | 56.0 | 55.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 62.1 | 62.2 | 62.4 | 61.3 | 60.2 | 59.2 | 60.75 |
| 65.8 | 62.2 | 61.4 | 60.0 | 59.3 | 58.6 | 58.5 | 58.6 | 58.6 | 58.4 | 57.2 | 58.2 | 62.66 |
| 64.8 | 61.7 | 59.3 | 58.7 | 60.4 | 59.8 | 62.0 | 62.0 | 62.0 | 62.0 | 61.7 | 61.6 | 63.11 |
| 64.2 | 63.1 | 62.4 | 62.3 | 61.6 | 60.8 | 60.2 | 59.6 | 59.2 | 58.0 | 58.0 | 57.5 | 62.67 |
| 64.0 | 60.2 | 58.5 | 57.0 | 57.6 | 56.8 | 56.2 | 55.0 | 53.3 | 52.4 | 50.0 | 48.6 | 59.40 |
| 60.0 | 57.6 | 54.4 | 53.3 | 52.3 | 51.4 | 51.7 | 51.4 | 50.1 | 50.4 | 50.2 | 49.6 | 56.42 |
| 66.2 | 64.5 | 63.5 | 62.3 | 62.5 | 61.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.6 | 58.8 | 57.6 | 55.9 | 55.0 | 54.6 | 62.25 |
| 67.4 | 63.6 | 62.4 | 60.2 | 58.4 | 56.2 | 56.2 | 56.6 | 55.3 | 54.9 | 54.6 | 54.0 | 62.50 |
| 68.4 | 67.8 | 64.2 | 62.3 | 62.0 | 64.7 | 64.0 | 60.0 | 54.6 | 53.8 | 53.8 | 51.8 | 63.69 |
| 58.4 | 55.8 | 54.0 | 55.0 | 53.0 | 51.6 | 50.4 | 49.3 | 47.2 | 46.8 | 46.2 | 45.8 | 54.52 |
| 68.6 | 68.0 | 67.2 | 65.0 | 63.2 | 61.4 | 61.2 | 59.6 | 58.8 | 59.0 | 58.8 | 58.8 | 62.36 |
| 66.4 | 65.3 | 64.7 | 65.7 | 65.2 | 63.0 | 62.0 | 62.0 | 62.5 | 64.4 | 64.3 | 64.2 | 66.26 |
| 51.9 | 47.0 | 43.6 | 43.0 | 41.6 | 41.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.5 | 38.8 | 38.4 | 38.4 | 38.6 | 37.8 | 49.70 |
| 45.2 | 45.2 | 44.2 | 44.6 | 45.0 | 43.8 | 42.2 | 42.0 | 42.6 | 42.2 | 41.8 | 42.1 | 45.01 |
| 50.8 | 48.2 | 44.8 | 44.4 | 43.4 | 41.0 | 38.0 | 38.4 | 38.6 | 38.8 | 36.4 | 36.0 | 45.37 |
| 45.9 | 45.4 | 44.3 | 43.7 | 43.2 | 42.2 | 41.7 | 41.0 | 41.4 | 41.0 | 40.4 | 39.0 | 43.83 |
| 41.1 | 39.4 | 37.5 | 36.8 | 37.2 | 37.4 | 37.2 | 33.0 | 31.4 | 30.6 | 28.6 | 28.6 | 38.93 |
| 37.6 | 34.6 | 33.0 | 33.6 | 34.2 | 35.0 | 34.8 | 35.0 | 34.4 | 34.4 | 33.6 | 32.8 | 36.26 |
| 43.0 | 42.4 | 42.4 | 42.0 | 40.8 | 40.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.8 | 38.4 | 37.8 | 37.6 | 38.6 | 38.2 | 40.47 |
| 41.8 | 40.0 | 38.8 | 37.4 | 35.0 | 34.0 | 33.8 | 31.2 | 30.9 | 30.4 | 31.2 | 30.4 | 41.08 |
| 57.43 | 55.59 | 53.50 | 52.78 | 52.12 | 51.31 | 51.04 | 50.29 | 49.54 | 49.30 | 48.58 | 48.21 | 54.62 |
| 42.8 | 39.8 | 38.4 | 39.2 | 38.6 | 38.2 | 37.6 | 38.3 | 37.8 | 38.8 | 38.6 | 39.8 | 41.13 |
| 55.5 | 54.8 | 55.1 | 55.2 | 55.4 | 55.5 | 55.4 | — | 51.2 | 50.3 | 49.0 | 46.0 | 52.86 |
| 53.4 | 48.2 | 47.4 | 46.6 | 45.0 | 46.0 | 46.2 | 45.4 | 44.0 | 43.4 | 43.4 | 43.0 | 49.11 |
| 50.4 | 49.8 | 48.8 | 47.8 | 47.0 | 46.0 | 45.4 | 45.2 | 44.2 | 43.0 | 44.4 | 45.4 | 48.35 |
| 46.0 | 45.8 | 44.6 | 45.0 | 44.0 | 44.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 36.2 | 36.2 | 34.5 | 34.0 | 31.5 | 32.2 | 43.20 |
| 37.8 | 34.2 | 34.2 | 32.2 | 31.6 | 30.5 | 30.9 | 31.0 | 30.5 | 30.0 | 29.7 | 28.8 | 35.48 |
| 50.8 | 49.3 | 48.9 | 49.1 | 49.1 | 49.0 | 48.8 | 48.6 | 48.6 | 48.0 | 48.4 | 48.2 | 47.38 |
| 49.8 | 48.6 | 51.4 | 47.7 | 44.0 | 43.0 | 43.1 | 44.8 | 45.0 | 48.0 | 49.7 | 53.2 | 50.64 |
| 44.8 | 43.4 | 41.0 | 40.8 | 40.8 | 40.4 | 38.4 | 37.8 | 37.2 | 36.2 | 36.0 | 35.2 | 44.28 |
| 40.4 | 38.6 | 37.0 | 36.8 | 36.2 | 34.0 | 34.5 | 33.6 | 32.3 | 32.0 | 31.8 | 32.2 | 39.26 |
| 41.5 | 40.6 | 43.0 | 45.8 | 45.0 | 42.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 43.0 | 41.0 | 53.3 | 43.0 | 42.6 | 43.2 | 42.78 |
| 48.2 | 47.9 | 47.2 | 47.0 | 46.9 | 47.0 | 47.1 | 46.6 | 46.4 | 45.0 | 44.0 | 43.0 | 47.66 |
| 44.5 | 43.1 | 42.3 | 41.4 | 40.6 | 39.6 | 38.7 | 38.2 | 37.2 | 37.2 | 36.6 | 36.2 | 43.38 |
| 43.2 | 42.1 | 41.0 | 39.2 | 39.6 | 39.6 | 39.0 | 39.0 | 28.4 | 38.8 | 39.8 | 39.8 | 40.92 |
| 42.4 | 41.4 | 40.6 | 41.2 | 41.2 | 40.8 | 40.4 | 40.2 | 40.0 | 39.7 | 38.7 | 38.7 | 41.73 |
| 43.2 | 44.5 | 46.7 | 40.6 | 40.6 | 50.6 | 53.2 | 45.2 | 43.6 | 40.2 | 39.4 | 38.2 | 42.77 |
| 33.0 | 32.4 | 32.0 | 31.6 | 31.7 | 30.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 26.4 | 32.8 | 34.0 | 35.6 | 36.8 | 36.0 | 34.77 |
| 41.1 | 40.0 | 38.6 | 40.6 | 38.2 | 36.0 | 35.6 | 34.2 | 37.0 | 38.6 | 39.0 | 39.5 | 39.31 |
| 42.0 | 39.4 | 37.4 | 36.2 | 36.6 | 35.4 | 35.0 | 36.7 | 36.1 | 37.0 | 35.8 | 37.0 | 41.43 |
| 42.6 | 43.2 | 45.5 | 45.3 | 43.2 | 41.0 | 37.8 | 37.0 | 35.2 | 35.6 | 35.4 | 36.0 | 42.17 |
| 47.8 | 47.8 | 44.2 | 45.0 | 45.2 | 43.2 | 46.2 | 46.2 | 47.0 | 46.0 | 46.2 | 45.8 | 46.35 |
| 49.6 | 47.1 | 45.4 | 43.6 | 42.2 | 40.3 | 37.8 | 34.6 | 37.0 | 38.6 | 39.2 | 39.8 | 47.02 |
| 42.7 | 42.4 | 42.6 | 42.7 | 38.8 | 37.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 32.0 | 31.2 | 30.0 | 28.6 | 27.4 | 27.0 | 38.80 |
| 27.2 | 27.0 | 27.0 | 27.4 | 27.4 | 27.6 | 27.4 | 27.4 | 27.0 | 27.2 | 27.4 | 27.4 | 27.54 |
| 27.2 | 27.0 | 27.2 | 27.2 | 27.9 | 28.2 | 28.2 | 28.6 | 28.8 | 28.8 | 28.0 | 27.4 | 28.08 |
| 32.7 | 33.1 | 33.0 | 30.7 | 28.0 | 25.0 | 24.3 | 24.4 | 25.4 | 24.2 | 20.4 | 18.2 | 28.76 |
| 30.6 | 29.3 | 28.4 | 28.0 | 27.4 | 26.4 | — | 25.8 | 25.2 | 24.6 | 25.0 | 25.4 | 28.77 |
| 42.64 | 41.51 | 41.07 | 49.85 | 40.07 | 39.17 | 39.56 | 37.42 | 37.66 | 37.51 | 37.19 | 37.13 | 41.26 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 25.2 | 25.8 | 29.0 | 32.6 | 39.9 | 40.6 | 42.4 | 41.7 | 40.8 | 40.6 | 40.2 | 40.2 |
| | 2 | 38.8 | 37.7 | 38.9 | 41.4 | 43.0 | 43.8 | 45.4 | 46.1 | 47.0 | 47.0 | 47.2 | 43.2 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 38.0 | 37.5 | 39.2 | 39.9 | 40.9 | 41.3 | 41.2 | 41.8 | 42.4 | 43.0 | 41.8 | 41.4 |
| | 5 | 35.4 | 35.7 | 38.1 | 39.5 | 41.6 | 40.8 | 43.0 | 42.2 | 42.0 | 42.2 | 40.8 | 39.5 |
| | 6 | 31.6 | 30.8 | 32.0 | 35.4 | 37.4 | 38.4 | 38.8 | 40.2 | 41.5 | 42.2 | 41.7 | 38.6 |
| | 7 | 39.2 | 36.2 | 37.2 | 41.4 | 44.0 | 45.2 | 46.4 | 45.9 | 45.4 | 44.6 | 44.0 | 43.2 |
| | 8 | 31.0 | 29.0 | 32.3 | 33.7 | 35.2 | 36.0 | 35.7 | 36.4 | 36.9 | 36.8 | 35.5 | 34.8 |
| | 9 | 30.0 | 30.6 | 31.4 | 32.0 | 32.4 | 35.8 | 37.0 | 38.4 | 39.6 | 40.2 | 39.4 | 36.1 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 39.3 | 39.2 | 39.4 | 39.8 | 40.2 | 40.8 | 41.0 | 41.8 | 42.4 | 41.4 | 41.2 | 41.5 |
| | 12 | 41.8 | 42.2 | 42.6 | 43.2 | 43.8 | 45.2 | 46.4 | 46.4 | 46.6 | 46.5 | 46.4 | 45.6 |
| | 13 | 34.0 | 32.6 | 31.7 | 31.8 | 31.3 | 32.0 | 32.7 | 32.6 | 33.0 | 33.0 | 32.0 | 31.2 |
| | 14 | 27.2 | 27.8 | 29.3 | 30.8 | 32.1 | 33.0 | 34.0 | 35.2 | 36.1 | 37.6 | 36.4 | 35.6 |
| | 15 | 33.0 | 33.2 | 33.2 | 33.3 | 36.4 | 37.0 | 38.4 | 39.2 | 39.2 | 40.0 | 40.0 | 38.8 |
| | 16 | 31.0 | 32.6 | 33.4 | 36.2 | 40.0 | 42.2 | 43.0 | 44.2 | 44.8 | 42.6 | 41.2 | 38.3 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 30.8 | 31.0 | 30.4 | 29.6 | 29.8 | 30.4 | 31.8 | 31.9 | 31.3 | 29.1 | 28.2 | 26.5 |
| | 19 | 25.0 | 24.8 | 27.4 | 29.8 | 31.4 | 32.4 | 34.0 | 36.4 | 37.0 | 38.2 | 39.3 | 40.0 |
| | 20 | 30.7 | 32.3 | 33.7 | 35.3 | 37.2 | 36.5 | 38.6 | 40.0 | 40.4 | 40.8 | 39.5 | 36.6 |
| | 21 | 28.4 | 29.4 | 31.8 | 36.6 | 40.0 | 42.2 | 41.7 | 41.4 | 41.2 | 41.6 | 39.2 | 39.4 |
| | 22 | 33.6 | 37.4 | 38.4 | 39.6 | 41.7 | 40.4 | 40.0 | 39.4 | 40.4 | 40.2 | 40.9 | 40.2 |
| | 23 | 38.2 | 37.4 | 36.8 | 37.2 | 38.5 | 38.6 | 38.8 | 39.0 | 39.0 | 38.4 | 36.6 | 35.2 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 17.2 | 17.4 | 18.5 | 19.8 | 20.8 | 20.6 | 22.2 | 22.0 | 23.3 | 23.1 | 22.4 | 21.6 |
| | 26 | 21.6 | 24.4 | 24.8 | 26.3 | 26.6 | 26.8 | 27.3 | 28.6 | 29.6 | 30.0 | 29.8 | 29.6 |
| | 27 | 18.2 | 18.5 | 18.9 | 16.8 | 16.4 | 17.0 | 17.6 | 19.4 | 18.2 | 18.2 | 15.8 | 15.4 |
| | 28 | 23.3 | 21.0 | 19.2 | 19.0 | 20.0 | 21.4 | 22.2 | 22.6 | 22.4 | 22.0 | 21.4 | 19.6 |
| | 29 | 22.4 | 23.2 | 24.4 | 26.4 | 29.0 | 30.7 | 31.4 | 31.4 | 31.2 | 31.3 | 30.8 | 30.5 |
| | 30 | 32.8 | 33.2 | 34.2 | 35.2 | 36.4 | 37.0 | 36.8 | 36.4 | 36.9 | 36.4 | 35.3 | 34.6 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 30.68 | 30.80 | 31.78 | 33.18 | 34.85 | 35.62 | 36.45 | 36.95 | 37.25 | 37.19 | 36.42 | 35.28 | |
| DECEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 28.2 | 27.8 | 27.0 | 27.3 | 28.2 | 28.2 | 29.0 | 29.6 | 31.6 | 31.4 | 30.2 | 27.6 |
| | 3 | 29.3 | 27.3 | 29.6 | 30.2 | 31.4 | 32.2 | 32.7 | 33.2 | 33.6 | 33.0 | 32.8 | 33.0 |
| | 4 | 32.0 | 32.4 | 32.8 | 35.5 | 36.0 | 36.0 | 36.4 | 36.4 | 35.4 | 34.8 | 33.4 | 34.5 |
| | 5 | 32.4 | 32.6 | 32.6 | 32.5 | 32.0 | 32.0 | 32.0 | 32.4 | 32.6 | 32.8 | 32.6 | 33.1 |
| | 6 | 33.2 | 33.0 | 33.2 | 33.7 | 33.6 | 33.8 | 33.7 | 33.2 | 33.0 | 32.7 | 32.2 | 33.4 |
| | 7 | 41.9 | 42.4 | 43.2 | 44.5 | 43.4 | 41.7 | 41.8 | 40.6 | 38.8 | 36.4 | 33.8 | 33.6 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 20.0 | 20.6 | 21.3 | 22.6 | 24.6 | 27.6 | 29.4 | 31.2 | 31.2 | 31.2 | 30.6 | 29.0 |
| | 10 | 28.6 | 26.0 | 25.3 | 24.6 | 24.8 | 25.6 | 25.8 | 26.4 | 26.2 | 26.4 | 26.2 | 25.2 |
| | 11 | 26.8 | 27.0 | 27.0 | 27.6 | 29.6 | 30.0 | 30.0 | 30.7 | 31.3 | 31.2 | 30.3 | 30.4 |
| | 12 | 22.9 | 22.9 | 26.0 | 32.0 | 32.4 | 32.8 | 33.4 | 35.1 | 35.8 | 36.0 | 33.8 | 32.6 |
| | 13 | 34.9 | 34.6 | 34.8 | 34.7 | 34.4 | 35.0 | 35.5 | 35.6 | 35.8 | 35.2 | 34.8 | 33.8 |
| | 14 | 30.1 | 29.8 | 29.9 | 31.0 | 32.0 | 32.6 | 32.6 | 34.0 | 34.0 | 33.6 | 33.0 | 32.4 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 22.4 | 22.0 | 21.6 | 20.2 | 20.4 | 19.8 | 20.0 | 20.3 | 19.6 | 20.0 | 19.4 | 18.4 |
| | 17 | 15.0 | 15.0 | 15.2 | 16.6 | 18.6 | 19.8 | 20.8 | 22.2 | 22.6 | 22.7 | 21.2 | 20.3 |
| | 18 | 1.6 | 3.4 | 6.7 | 12.4 | 16.1 | 19.0 | 21.3 | 22.1 | 24.0 | 23.9 | 23.3 | 23.0 |
| | 19 | 19.6 | 20.2 | 21.0 | 21.5 | 22.6 | 23.6 | 22.8 | 22.7 | 22.0 | 21.2 | 20.0 | 19.6 |
| | 20 | 8.8 | 10.2 | 11.5 | 10.5 | 15.0 | 17.3 | 20.0 | 20.0 | 20.4 | 19.0 | 18.6 | 18.0 |
| | 21 | 25.4 | 25.8 | 25.6 | 26.6 | 26.6 | 27.2 | 26.8 | 28.6 | 29.8 | 30.6 | 31.4 | 31.4 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 30.2 | 29.0 | 28.6 | 28.4 | 27.5 | 27.5 | 26.8 | 26.2 | 25.8 | 24.8 | 24.1 | 24.0 |
| | 24 | 25.6 | 26.6 | 26.2 | 26.7 | 27.6 | 30.4 | 29.8 | 30.2 | 31.4 | 32.0 | 32.4 | 32.6 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 40.0 | 40.2 | 41.0 | 41.2 | 40.8 | 41.6 | 46.2 | 46.0 | 41.8 | 40.0 | 37.0 | 35.8 |
| | 27 | 21.2 | 20.4 | 19.3 | 19.4 | 20.7 | 22.7 | 23.6 | 24.0 | 24.4 | 24.2 | 23.4 | 22.6 |
| | 28 | 13.0 | 13.4 | 13.8 | 16.0 | 19.4 | 22.8 | 24.8 | 26.0 | 25.8 | 25.8 | 24.8 | 24.7 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 32.2 | 32.6 | 34.3 | 35.4 | 36.5 | 35.6 | 34.2 | 33.0 | 33.0 | 33.2 | 32.6 | 32.6 |
| | 31 | 29.7 | 28.4 | 28.2 | 29.8 | 30.6 | 30.6 | 30.2 | 31.8 | 32.5 | 32.4 | 32.5 | 31.7 |
| Hourly Means | 25.80 | 25.74 | 26.23 | 27.24 | 28.19 | 29.02 | 29.58 | 30.06 | 30.10 | 29.78 | 28.98 | 28.53 | |

WET THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 37.8 | 37.4 | 37.4 | 37.2 | 37.2 | 37.6 | 37.4 | 37.4 | 37.8 | 38.2 | 39.2 | 39.1 | 37.20 |
| 41.6 | 38.8 | 37.8 | 37.8 | 37.8 | 38.0 | — | — | — | — | — | — | 41.39 |
| — | — | — | — | — | — | 41.4 | 41.2 | 41.0 | 40.8 | 39.7 | 38.0 | — |
| 41.0 | 41.6 | 41.4 | 41.1 | 40.3 | 36.5 | 37.2 | 37.2 | 36.9 | 34.3 | 34.0 | 33.5 | 39.31 |
| 37.5 | 36.2 | 35.4 | 35.0 | 34.4 | 34.8 | 35.2 | 33.0 | 33.0 | 33.0 | 33.2 | 32.8 | 37.26 |
| 34.8 | 32.2 | 30.6 | 29.8 | 30.2 | 29.8 | 31.8 | 35.2 | 38.0 | 38.0 | 39.0 | 40.2 | 35.76 |
| 42.8 | 42.6 | 41.6 | 41.4 | 41.4 | 41.2 | 41.0 | 41.3 | 37.2 | 35.4 | 34.6 | 32.9 | 41.09 |
| 34.0 | 34.0 | 34.6 | 34.7 | 34.5 | 32.3 | 30.2 | 29.2 | 29.0 | 27.3 | 27.0 | 29.0 | 32.88 |
| 32.8 | 30.2 | 30.3 | 30.2 | 30.0 | 29.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.6 | 39.6 | 39.5 | 40.0 | 39.7 | 39.6 | 35.22 |
| 41.4 | 41.5 | 41.0 | 40.8 | 41.0 | 41.0 | 40.6 | 41.0 | 41.4 | 41.2 | 41.2 | 41.2 | 40.89 |
| 45.6 | 45.3 | 45.2 | 40.4 | 39.6 | 38.4 | 37.2 | 36.4 | 35.4 | 34.2 | 34.6 | 34.2 | 41.80 |
| 29.8 | 29.2 | 29.0 | 29.4 | 29.4 | 29.4 | 29.6 | 29.0 | 28.4 | 28.2 | 28.2 | 27.8 | 30.64 |
| 32.6 | 31.5 | 30.0 | 30.2 | 30.6 | 31.8 | 32.3 | 31.1 | 30.8 | 28.4 | 27.8 | 32.7 | 31.87 |
| 37.4 | 35.8 | 32.6 | 31.9 | 31.3 | 30.8 | 31.4 | 30.6 | 30.4 | 29.8 | 29.0 | 30.0 | 34.28 |
| 37.0 | 35.2 | 36.3 | 40.0 | 40.3 | 40.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.0 | 37.2 | 36.5 | 35.2 | 34.7 | 32.2 | 38.07 |
| 26.5 | 26.0 | 26.0 | 26.0 | 26.0 | 25.3 | 25.0 | 25.0 | 25.6 | 24.8 | 25.6 | 24.8 | 27.81 |
| 39.6 | 36.6 | 34.4 | 33.8 | 34.4 | 34.8 | 33.4 | 30.2 | 31.4 | 31.2 | 28.4 | 30.6 | 33.10 |
| 33.2 | 33.6 | 33.6 | 32.3 | 30.4 | 28.4 | 28.6 | 28.2 | 29.0 | 27.1 | 26.9 | 28.4 | 33.39 |
| 38.2 | 36.7 | 33.3 | 31.6 | 30.4 | 31.2 | 33.4 | 34.4 | 34.0 | 33.6 | 32.8 | 33.6 | 35.67 |
| 40.2 | 40.9 | 40.8 | 40.6 | 40.6 | 40.8 | 41.0 | 41.0 | 40.0 | 39.8 | 38.8 | 38.8 | 39.81 |
| 36.0 | 36.2 | 34.0 | 30.2 | 30.0 | 27.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 21.0 | 20.0 | 19.6 | 17.8 | 17.0 | 17.4 | 31.69 |
| 20.6 | 18.0 | 16.5 | 16.4 | 15.8 | 16.6 | 18.2 | 18.3 | 18.5 | 19.4 | 21.0 | 21.0 | 19.55 |
| 29.4 | 29.4 | 28.6 | 26.6 | 25.4 | 24.4 | 22.6 | 23.0 | 23.4 | 23.2 | 22.2 | 20.0 | 25.98 |
| 13.6 | 12.4 | 14.0 | 15.0 | 14.4 | 13.8 | 13.6 | 14.2 | 14.8 | 15.9 | 18.0 | 22.3 | 16.35 |
| 19.4 | 19.4 | 19.0 | 19.4 | 19.6 | 19.6 | 19.8 | 20.2 | 20.6 | 21.0 | 21.2 | 21.6 | 20.62 |
| 30.5 | 30.4 | 31.0 | 30.2 | 30.0 | 31.2 | 32.4 | 32.6 | 32.4 | 32.5 | 32.4 | 32.7 | 30.04 |
| 34.0 | 34.0 | 33.6 | 34.0 | 33.6 | 33.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 28.8 | 28.8 | 28.6 | 28.4 | 28.4 | 28.0 | 33.28 |
| 34.13 | 33.27 | 32.62 | 32.15 | 31.87 | 31.51 | 31.64 | 31.36 | 31.28 | 30.72 | 30.56 | 30.86 | 33.27 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 26.6 | 26.4 | 26.4 | 27.7 | 27.4 | 28.4 | 28.2 | 25.8 | 24.8 | 26.0 | 28.0 | 28.4 | 27.92 |
| 32.7 | 33.0 | 34.0 | 32.6 | 32.8 | 33.6 | 33.2 | 28.7 | 28.3 | 27.4 | 29.6 | 31.0 | 31.47 |
| 34.0 | 34.0 | 33.8 | 33.7 | 33.6 | 33.5 | 33.4 | 33.0 | 32.2 | 32.0 | 32.0 | 32.4 | 33.88 |
| 33.3 | 33.2 | 33.2 | 33.4 | 32.4 | 32.2 | 32.2 | 32.2 | 32.6 | 32.6 | 32.6 | 32.5 | 32.58 |
| 33.4 | 34.8 | 35.2 | 36.0 | 36.6 | 37.4 | 38.6 | 38.4 | 39.8 | 40.2 | 40.6 | 41.2 | 35.45 |
| 33.6 | 33.6 | 33.0 | 33.0 | 25.9 | 22.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 24.2 | 24.1 | 22.3 | 21.8 | 21.0 | 20.3 | 33.22 |
| 26.0 | 26.2 | 24.6 | 24.5 | 24.8 | 25.6 | 27.0 | 27.3 | 27.3 | 27.0 | 26.7 | 27.6 | 26.41 |
| 24.8 | 24.5 | 24.2 | 23.9 | 23.8 | 24.4 | 25.0 | 25.2 | 25.2 | 26.6 | 27.0 | 27.4 | 25.55 |
| 30.0 | 30.0 | 30.3 | 29.1 | 28.6 | 31.0 | 28.4 | 23.6 | 24.2 | 22.0 | 22.0 | 22.0 | 28.05 |
| 32.8 | 32.8 | 33.8 | 34.0 | 34.0 | 34.4 | 34.6 | 34.8 | 34.0 | 34.4 | 34.8 | 35.9 | 32.75 |
| 33.6 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 32.6 | 32.2 | 32.1 | 31.4 | 30.2 | 31.0 | 33.63 |
| 32.4 | 31.7 | 31.2 | 30.4 | 30.3 | 30.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 22.6 | 22.0 | 21.8 | 23.4 | 23.2 | 23.0 | 29.47 |
| 18.2 | 17.4 | 17.2 | 17.2 | 17.4 | 17.4 | 17.2 | 15.4 | 15.2 | 15.0 | 15.8 | 15.0 | 18.44 |
| 21.0 | 20.3 | 19.8 | 17.4 | 16.2 | 16.4 | 15.8 | 13.8 | 12.0 | 6.0 | 3.0 | 0.4 | 16.34 |
| 21.4 | 21.0 | 21.0 | 21.0 | 20.4 | 19.4 | 18.4 | 16.4 | 17.9 | 18.7 | 17.8 | 19.0 | 17.88 |
| 19.0 | 17.2 | 17.0 | 18.2 | 18.2 | 16.2 | 12.5 | 9.2 | 5.7 | 4.3 | 5.9 | 9.8 | 17.08 |
| 17.9 | 17.5 | 17.0 | 18.2 | 18.2 | 18.0 | 17.8 | 17.2 | 20.6 | 21.4 | 23.8 | 24.0 | 17.54 |
| 31.4 | 29.2 | 24.8 | 24.3 | 24.3 | 28.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33.8 | 33.0 | 32.5 | 32.2 | 31.3 | 31.0 | 28.82 |
| 23.4 | 23.1 | 23.0 | 22.8 | 20.8 | 21.0 | 21.8 | 21.8 | 23.8 | 24.6 | 25.0 | 25.4 | 24.97 |
| 30.8 | 32.6 | 32.6 | 32.6 | 32.2 | 30.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.4 | 39.4 | 40.9 | 40.0 | 40.4 | 40.2 | 32.60 |
| 32.2 | 29.2 | 27.5 | 27.0 | 25.8 | 25.3 | 25.0 | 23.8 | 23.7 | 22.0 | 22.8 | 22.7 | 33.28 |
| 21.6 | 20.0 | 20.4 | 18.4 | 17.8 | 17.4 | 16.4 | 13.8 | 12.7 | 12.3 | 12.4 | 12.8 | 19.25 |
| 25.9 | 25.4 | 24.2 | 24.8 | 25.3 | 26.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 30.0 | 28.6 | 29.2 | 29.8 | 30.2 | 29.8 | 24.15 |
| 32.4 | 30.6 | 29.4 | 29.8 | 29.2 | 29.4 | 30.3 | 30.2 | 29.8 | 29.8 | 29.8 | 29.6 | 31.99 |
| 31.6 | 32.6 | 32.7 | 32.8 | 32.5 | 31.4 | 28.6 | 29.4 | 32.0 | 33.6 | 34.2 | 35.2 | 31.46 |
| 25.00 | 27.57 | 27.17 | 27.03 | 26.46 | 26.52 | 26.68 | 25.56 | 25.59 | 25.38 | 25.69 | 25.90 | 37.36 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | JANUARY. | 1 | 90 | 90 | 93 | 90 | 90 | 85 | 87 | 80 | 78 | 78 | 95 | 88 | |
| | | 2 | 89 | 92 | 92 | 91 | 92 | 92 | 91 | 92 | 88 | 88 | 89 | 85 | |
| | | 3 | 98 | 98 | 98 | 98 | 96 | 96 | 95 | 95 | 94 | 96 | 95 | 95 | |
| | | 4 | 86 | 85 | 84 | 82 | 82 | 82 | 81 | 76 | 77 | 77 | 77 | 78 | |
| | | 5 | 75 | 74 | 80 | 80 | 81 | 78 | 66 | 72 | 71 | 64 | 72 | 82 | |
| | | 6 | 87 | 83 | 84 | 82 | 76 | 79 | 77 | 80 | 82 | 85 | 82 | 82 | |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 8 | 71 | 70 | 69 | 79 | 81 | 81 | 80 | 76 | 77 | 76 | 81 | 82 | |
| | | 9 | 93 | 92 | 81 | 81 | 81 | 92 | 78 | 85 | 91 | 92 | 95 | 92 | |
| | | 10 | 85 | 78 | 79 | 79 | 80 | 79 | 75 | 76 | 76 | 76 | 79 | 75 | |
| | | 11 | 100 | 95 | 100 | 92 | 92 | 74 | 89 | 89 | 93 | 90 | 92 | 88 | |
| | | 12 | 86 | 84 | 89 | 89 | 85 | 78 | 75 | 85 | 95 | 96 | 98 | 98 | |
| | | 13 | 72 | 77 | 77 | 82 | 78 | 79 | 78 | 78 | 74 | 79 | 74 | 77 | |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | 88 | 75 | 84 | 86 | 86 | 86 | 81 | 81 | 87 | 89 | 82 | 86 | |
| | | 16 | 98 | 98 | 98 | 98 | 95 | 95 | 92 | 92 | 92 | 92 | 95 | 93 | |
| | | 17 | 71 | 68 | 72 | 73 | 73 | 73 | 73 | 73 | 73 | 75 | 73 | 70 | |
| | | 18 | 72 | 76 | 78 | 77 | 71 | 68 | 69 | 65 | 77 | 68 | 71 | 71 | |
| | | 19 | 89 | 85 | 85 | 86 | 86 | 89 | 81 | 75 | 75 | 73 | 75 | 73 | |
| | | 20 | 85 | 85 | 85 | 78 | 76 | 66 | 72 | 81 | 78 | 82 | 85 | 82 | |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 22 | 91 | 94 | 93 | 93 | 97 | 97 | 97 | 95 | 97 | 97 | 92 | 87 | |
| | | 23 | 96 | 98 | 98 | 100 | 100 | 98 | 82 | 73 | 72 | 66 | 66 | 70 | |
| | | 24 | 67 | 67 | 69 | 69 | 88 | 66 | 82 | 66 | 80 | 74 | 63 | 68 | |
| | | 25 | 87 | 87 | 87 | 90 | 59 | 87 | 86 | 82 | 76 | 75 | 78 | 79 | |
| | | 26 | 79 | 86 | 90 | 86 | 87 | 74 | 71 | 64 | 75 | 60 | 66 | 79 | |
| | | 27 | 89 | 89 | 95 | 90 | 87 | 87 | 78 | 77 | 74 | 80 | 81 | 87 | |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 29 | 96 | 91 | 90 | 91 | 95 | 100 | 100 | 87 | 89 | 92 | 87 | 87 | |
| | | 30 | 96 | 96 | 97 | 97 | 96 | 93 | 95 | 95 | 97 | 95 | 92 | 93 | |
| | | 31 | 92 | 95 | 95 | 86 | 73 | 73 | 74 | 71 | 77 | 82 | 78 | 73 | |
| | | Hourly Means | | 86 | 85 | 87 | 86 | 85 | 83 | 82 | 80 | 82 | 81 | 82 | 82 |
| Tension of the Vapour. | JANUARY. | 1 | In. .118 | In. .119 | In. .125 | In. .126 | In. .126 | In. .122 | In. .133 | In. .127 | In. .128 | In. .137 | In. .149 | In. .129 | |
| | | 2 | .139 | .150 | .156 | .158 | .160 | .165 | .168 | .168 | .168 | .168 | .168 | .167 | |
| | | 3 | .209 | .209 | .212 | .214 | .207 | .200 | .195 | .196 | .183 | .184 | .180 | .178 | |
| | | 4 | .144 | .130 | .121 | .112 | .108 | .108 | .105 | .096 | .101 | .101 | .101 | .102 | |
| | | 5 | .087 | .085 | .088 | .090 | .094 | .094 | .084 | .093 | .097 | .090 | .098 | .100 | |
| | | 6 | .114 | .112 | .115 | .116 | .110 | .116 | .118 | .129 | .132 | .135 | .132 | .135 | |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 8 | .058 | .060 | .063 | .072 | .079 | .086 | .085 | .083 | .086 | .084 | .088 | .086 | |
| | | 9 | .087 | .090 | .092 | .097 | .098 | .115 | .098 | .107 | .114 | .118 | .125 | .124 | |
| | | 10 | .125 | .112 | .113 | .114 | .117 | .122 | .120 | .119 | .116 | .112 | .111 | .102 | |
| | | 11 | .056 | .043 | .056 | .062 | .070 | .071 | .098 | .102 | .108 | .106 | .108 | .107 | |
| | | 12 | .140 | .146 | .159 | .166 | .166 | .160 | .156 | .171 | .195 | .194 | .198 | .200 | |
| | | 13 | .158 | .162 | .162 | .164 | .138 | .139 | .137 | .138 | .140 | .144 | .132 | .131 | |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | .138 | .124 | .143 | .151 | .155 | .157 | .151 | .151 | .156 | .155 | .151 | .157 | |
| | | 16 | .191 | .196 | .201 | .203 | .217 | .233 | .236 | .236 | .234 | .230 | .230 | .217 | |
| | | 17 | .125 | .118 | .124 | .125 | .125 | .125 | .126 | .125 | .125 | .125 | .122 | .113 | |
| | | 18 | .097 | .099 | .101 | .107 | .107 | .103 | .106 | .103 | .126 | .108 | .111 | .107 | |
| | | 19 | .087 | .085 | .085 | .089 | .087 | .088 | .089 | .084 | .089 | .086 | .087 | .084 | |
| | | 20 | .056 | .054 | .054 | .052 | .055 | .054 | .065 | .078 | .075 | .079 | .075 | .069 | |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 22 | .072 | .073 | .077 | .085 | .091 | .094 | .095 | .097 | .102 | .106 | .119 | .118 | |
| | | 23 | .193 | .202 | .214 | .217 | .216 | .240 | .242 | .205 | .201 | .183 | .178 | .176 | |
| | | 24 | .111 | .104 | .106 | .108 | .123 | .099 | .108 | .086 | .086 | .080 | .068 | .068 | |
| | | 25 | .040 | .038 | .036 | .037 | .025 | .040 | .042 | .042 | .042 | .045 | .047 | .044 | |
| | | 26 | .033 | .034 | .035 | .034 | .036 | .034 | .036 | .030 | .046 | .041 | .044 | .050 | |
| | | 27 | .033 | .032 | .035 | .035 | .036 | .041 | .042 | .046 | .050 | .056 | .057 | .053 | |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 29 | .043 | .040 | .038 | .040 | .045 | .054 | .056 | .051 | .055 | .058 | .054 | .053 | |
| | | 30 | .068 | .070 | .072 | .076 | .082 | .084 | .092 | .093 | .094 | .093 | .087 | .086 | |
| | | 31 | .046 | .046 | .044 | .042 | .044 | .044 | .050 | .053 | .063 | .069 | .066 | .059 | |
| | | Hourly Means | | .103 | .101 | .105 | .107 | .108 | .111 | .112 | .111 | .115 | .114 | .114 | .112 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 85 | 91 | 90 | 96 | 96 | 96 | 98 | 93 | 94 | 92 | 93 | 91 | 90 |
| 81 | 89 | 87 | 82 | 84 | 95 | 98 | 96 | 95 | 93 | 96 | 98 | 91 |
| 97 | 97 | 92 | 94 | 95 | 89 | 89 | 96 | 92 | 94 | 91 | 85 | 94 |
| 82 | 87 | 83 | 97 | 86 | 86 | 86 | 84 | 82 | 81 | 82 | 81 | 83 |
| 81 | 91 | 92 | 92 | 91 | 90 | 92 | 89 | 92 | 88 | 88 | 85 | 82 |
| 83 | 86 | 88 | 86 | 80 | 80 | — | — | — | — | — | — | 81 |
| — | — | — | — | — | — | 80 | 79 | 80 | 80 | 74 | 66 | — |
| 75 | 74 | 77 | 79 | 83 | 79 | 82 | 85 | 89 | 84 | 83 | 84 | 79 |
| 95 | 97 | 97 | 97 | 97 | 90 | 92 | 91 | 89 | 81 | 80 | 77 | 89 |
| 72 | 82 | 81 | 83 | 85 | 84 | 90 | 91 | 83 | 91 | 91 | 92 | 82 |
| 83 | 83 | 82 | 83 | 83 | 84 | 84 | 85 | 79 | 79 | 82 | 84 | 87 |
| 99 | 99 | 99 | 97 | 97 | 96 | 97 | 98 | 98 | 99 | 88 | 78 | 92 |
| 78 | 77 | 76 | 77 | 80 | 80 | — | — | — | — | — | — | 82 |
| — | — | — | — | — | — | 93 | 95 | 95 | 93 | 95 | 93 | — |
| 82 | 86 | 81 | 74 | 75 | 82 | 81 | 95 | 97 | 97 | 98 | 96 | 86 |
| 95 | 93 | 91 | 94 | 73 | 79 | 85 | 78 | 79 | 79 | 77 | 70 | 89 |
| 79 | 78 | 79 | 83 | 81 | 86 | 80 | 78 | 78 | 74 | 71 | 74 | 75 |
| 76 | 71 | 71 | 75 | 74 | 76 | 75 | 74 | 74 | 77 | 82 | 88 | 74 |
| 67 | 69 | 68 | 79 | 84 | 88 | 80 | 80 | 80 | 80 | 83 | 83 | 80 |
| 82 | 83 | 81 | 80 | 78 | 86 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | 91 | 91 | 96 | 95 | 94 | 91 | — |
| 92 | 86 | 87 | 91 | 93 | 94 | 96 | 98 | 98 | 94 | 90 | 95 | 94 |
| 75 | 71 | 74 | 65 | 63 | 65 | 67 | 75 | 86 | 88 | 72 | 68 | 79 |
| 73 | 79 | 77 | 75 | 85 | 87 | 90 | 87 | 87 | 83 | 88 | 83 | 77 |
| 82 | 84 | 80 | 84 | 83 | 86 | 88 | 88 | 75 | 74 | 75 | 76 | 81 |
| 87 | 87 | 87 | 87 | 76 | 83 | 82 | 84 | 88 | 90 | 88 | 95 | 81 |
| 87 | 92 | 92 | 87 | 82 | 78 | — | — | — | — | — | — | 86 |
| — | — | — | — | — | — | — | 86 | 87 | 86 | 91 | 95 | — |
| 89 | 90 | 90 | 91 | 94 | 96 | 94 | 93 | 90 | 90 | 96 | 96 | 92 |
| 83 | 82 | 83 | 90 | 83 | 87 | 85 | 87 | 90 | 96 | 93 | 90 | 91 |
| 83 | 81 | 91 | 83 | 87 | 85 | 85 | 85 | 85 | 85 | 88 | 95 | 83 |
| 83 | 85 | 84 | 85 | 84 | 85 | 87 | 87 | 87 | 87 | 86 | 86 | 84 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·116 | ·117 | ·111 | ·118 | ·118 | ·123 | ·136 | ·129 | ·134 | ·133 | ·138 | ·140 | ·127 |
| ·163 | ·172 | ·170 | ·165 | ·173 | ·191 | ·201 | ·199 | ·198 | ·195 | ·204 | ·209 | ·174 |
| ·176 | ·176 | ·164 | ·163 | ·162 | ·141 | ·139 | ·145 | ·143 | ·147 | ·154 | ·152 | ·176 |
| ·165 | ·109 | ·103 | ·119 | ·100 | ·099 | ·100 | ·100 | ·099 | ·099 | ·099 | ·098 | ·107 |
| ·092 | ·091 | ·091 | ·098 | ·101 | ·104 | ·102 | ·095 | ·099 | ·103 | ·110 | ·109 | ·096 |
| ·136 | ·141 | ·142 | ·138 | ·132 | ·133 | — | — | — | — | — | — | ·114 |
| — | — | — | — | — | — | ·077 | ·080 | ·081 | ·078 | ·070 | ·061 | — |
| ·080 | ·078 | ·078 | ·075 | ·075 | ·073 | ·069 | ·062 | ·072 | ·071 | ·073 | ·075 | ·075 |
| ·132 | ·136 | ·136 | ·137 | ·137 | ·130 | ·133 | ·136 | ·136 | ·128 | ·123 | ·117 | ·119 |
| ·089 | ·091 | ·090 | ·094 | ·098 | ·088 | ·086 | ·080 | ·064 | ·073 | ·069 | ·059 | ·099 |
| ·100 | ·105 | ·106 | ·112 | ·113 | ·118 | ·123 | ·126 | ·122 | ·120 | ·126 | ·134 | ·100 |
| ·199 | ·194 | ·203 | ·208 | ·210 | ·214 | ·215 | ·216 | ·216 | ·235 | ·222 | ·186 | ·191 |
| ·128 | ·126 | ·119 | ·118 | ·122 | ·122 | — | — | — | — | — | — | ·134 |
| — | — | — | — | — | — | ·121 | ·121 | ·118 | ·117 | ·125 | ·124 | — |
| ·154 | ·166 | ·162 | ·154 | ·155 | ·165 | ·164 | ·182 | ·185 | ·181 | ·184 | ·184 | ·159 |
| ·215 | ·215 | ·208 | ·210 | ·173 | ·174 | ·179 | ·163 | ·164 | ·161 | ·156 | ·134 | ·199 |
| ·125 | ·118 | ·117 | ·120 | ·119 | ·123 | ·116 | ·112 | ·110 | ·101 | ·096 | ·097 | ·118 |
| ·110 | ·101 | ·101 | ·105 | ·101 | ·100 | ·094 | ·091 | ·090 | ·086 | ·086 | ·086 | ·101 |
| ·076 | ·077 | ·072 | ·074 | ·075 | ·076 | ·067 | ·065 | ·062 | ·059 | ·060 | ·058 | ·078 |
| ·073 | ·074 | ·069 | ·065 | ·062 | ·068 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·068 | ·069 | ·072 | ·073 | ·072 | ·071 | ·067 |
| ·122 | ·126 | ·130 | ·141 | ·148 | ·155 | ·164 | ·173 | ·179 | ·177 | ·172 | ·185 | ·125 |
| ·177 | ·167 | ·165 | ·148 | ·139 | ·136 | ·133 | ·141 | ·152 | ·148 | ·125 | ·119 | ·176 |
| ·066 | ·064 | ·060 | ·056 | ·057 | ·055 | ·052 | ·046 | ·043 | ·041 | ·043 | ·039 | ·074 |
| ·045 | ·044 | ·042 | ·042 | ·040 | ·040 | ·039 | ·039 | ·035 | ·033 | ·034 | ·034 | ·039 |
| ·052 | ·049 | ·047 | ·044 | ·038 | ·038 | ·038 | ·036 | ·036 | ·036 | ·034 | ·036 | ·039 |
| ·052 | ·052 | ·051 | ·047 | ·044 | ·041 | — | — | — | — | — | — | ·044 |
| — | — | — | — | — | — | — | ·044 | ·041 | ·039 | ·040 | ·043 | — |
| ·056 | ·058 | ·060 | ·061 | ·063 | ·064 | ·064 | ·062 | ·061 | ·060 | ·065 | ·066 | ·055 |
| ·074 | ·066 | ·062 | ·064 | ·057 | ·057 | ·056 | ·052 | ·047 | ·043 | ·043 | ·046 | ·069 |
| ·053 | ·053 | ·057 | ·058 | ·059 | ·055 | ·054 | ·053 | ·057 | ·055 | ·051 | ·049 | ·053 |
| ·110 | ·109 | ·108 | ·109 | ·106 | ·107 | ·107 | ·104 | ·104 | ·103 | ·103 | ·100 | ·108 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | FEBRUARY. | 1 | 95 | 95 | 90 | 90 | 85 | 81 | 85 | 81 | 83 | 73 | 86 | 93 |
| | | 2 | 90 | 93 | 90 | 90 | 86 | 82 | 97 | 80 | 76 | 71 | 68 | 62 |
| | | 3 | 74 | 78 | 87 | 81 | 74 | 76 | 77 | 78 | 79 | 79 | 84 | 82 |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 5 | 98 | 98 | 98 | 98 | 96 | 88 | 85 | 84 | 87 | 93 | 94 | 95 |
| | | 6 | 98 | 98 | 100 | 96 | 95 | 93 | 89 | 90 | 96 | 94 | 89 | 88 |
| | | 7 | 86 | 90 | 90 | 90 | 83 | 74 | 76 | 85 | 80 | 78 | 77 | 77 |
| | | 8 | 86 | 90 | 90 | 90 | 81 | 78 | 70 | 70 | 64 | 69 | 70 | 79 |
| | | 9 | 85 | 90 | 96 | 85 | 78 | 79 | 80 | 75 | 75 | 72 | 77 | 77 |
| | | 10 | 88 | 82 | 82 | 80 | 92 | 78 | 72 | 71 | 70 | 71 | 74 | 74 |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 12 | 100 | 100 | 100 | 100 | 100 | 96 | 98 | 91 | 86 | 86 | 88 | 95 |
| | | 13 | 96 | 89 | 89 | 96 | 85 | 79 | 93 | 87 | 66 | 70 | 75 | 74 |
| | | 14 | 81 | 82 | 78 | 90 | 76 | 73 | 71 | 70 | 69 | 77 | 67 | 77 |
| | | 15 | 82 | 86 | 88 | 90 | 88 | 83 | 86 | 89 | 88 | 87 | 96 | 94 |
| | | 16 | 82 | 84 | 88 | 91 | 93 | 78 | 73 | 73 | 87 | 83 | 87 | 89 |
| | | 17 | 82 | 82 | 95 | 77 | 73 | 63 | 62 | 66 | 64 | 67 | 70 | 67 |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 19 | 84 | 86 | 87 | 81 | 81 | 79 | 89 | 71 | 58 | 75 | 73 | 80 |
| | | 20 | 85 | 86 | 84 | 76 | 77 | 80 | 73 | 68 | 69 | 68 | 69 | 74 |
| | | 21 | 86 | 91 | 87 | 79 | 73 | 74 | 69 | 66 | 80 | 83 | 80 | 82 |
| | | 22 | 86 | 88 | 83 | 78 | 73 | 71 | 63 | 55 | 54 | 41 | 39 | 39 |
| | | 23 | 98 | 96 | 91 | 83 | 83 | 81 | 79 | 92 | 95 | 85 | 81 | 85 |
| | | 24 | 74 | 76 | 71 | 64 | 66 | 69 | 74 | 81 | 80 | 75 | 78 | 74 |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | 90 | 94 | 90 | 86 | 70 | 63 | 62 | 71 | 77 | 82 | 82 | 82 |
| | | 27 | 89 | 86 | 79 | 78 | 81 | 79 | 76 | 71 | 65 | 61 | 61 | 66 |
| | | 28 | 74 | 78 | 71 | 64 | 70 | 81 | 70 | 71 | 63 | 68 | 93 | 80 |
| | | 29 | 80 | 82 | 78 | 79 | 87 | 93 | 88 | 92 | 88 | 86 | 92 | 92 |
| | | Hourly Means | | 87 | 88 | 87 | 84 | 82 | 79 | 78 | 77 | 76 | 76 | 78 |
| Tension of the Vapour. | FEBRUARY. | 1 | In. .048 | In. .048 | In. .054 | In. .061 | In. .073 | In. .098 | In. .109 | In. .107 | In. .111 | In. .099 | In. .113 | In. .121 |
| | | 2 | .107 | .108 | .107 | .116 | .118 | .118 | .140 | .125 | .121 | .114 | .112 | .092 |
| | | 3 | .097 | .095 | .092 | .092 | .091 | .099 | .105 | .109 | .115 | .115 | .115 | .107 |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 5 | .172 | .172 | .175 | .179 | .179 | .169 | .167 | .169 | .175 | .191 | .191 | .187 |
| | | 6 | .182 | .182 | .186 | .182 | .185 | .187 | .187 | .194 | .196 | .191 | .173 | .168 |
| | | 7 | .096 | .099 | .100 | .107 | .111 | .107 | .116 | .135 | .128 | .128 | .119 | .115 |
| | | 8 | .094 | .094 | .095 | .098 | .101 | .109 | .111 | .115 | .108 | .111 | .110 | .115 |
| | | 9 | .062 | .063 | .068 | .062 | .059 | .063 | .068 | .067 | .071 | .071 | .071 | .067 |
| | | 10 | .086 | .083 | .084 | .084 | .093 | .094 | .094 | .100 | .104 | .111 | .114 | .110 |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 12 | .091 | .089 | .103 | .119 | .138 | .139 | .148 | .151 | .156 | .166 | .167 | .171 |
| | | 13 | .170 | .159 | .165 | .179 | .167 | .161 | .200 | .190 | .160 | .165 | .160 | .159 |
| | | 14 | .105 | .101 | .093 | .112 | .096 | .101 | .101 | .107 | .110 | .126 | .117 | .112 |
| | | 15 | .116 | .122 | .129 | .145 | .150 | .149 | .153 | .161 | .161 | .157 | .168 | .170 |
| | | 16 | .136 | .137 | .144 | .157 | .167 | .156 | .151 | .152 | .167 | .164 | .168 | .168 |
| | | 17 | .099 | .094 | .108 | .087 | .082 | .074 | .076 | .085 | .082 | .081 | .075 | .063 |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 19 | .118 | .127 | .133 | .131 | .141 | .145 | .167 | .148 | .132 | .178 | .178 | .179 |
| | | 20 | .173 | .174 | .179 | .179 | .188 | .193 | .187 | .186 | .188 | .194 | .193 | .190 |
| | | 21 | .176 | .178 | .180 | .166 | .155 | .166 | .165 | .168 | .186 | .192 | .186 | .177 |
| | | 22 | .147 | .146 | .152 | .158 | .157 | .167 | .162 | .159 | .164 | .134 | .131 | .129 |
| | | 23 | .181 | .179 | .171 | .158 | .161 | .151 | .138 | .156 | .160 | .141 | .130 | .127 |
| | | 24 | .054 | .054 | .053 | .052 | .060 | .071 | .079 | .097 | .101 | .102 | .104 | .100 |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | .125 | .122 | .130 | .150 | .148 | .137 | .145 | .181 | .174 | .176 | .175 | .171 |
| | | 27 | .159 | .152 | .139 | .139 | .140 | .136 | .135 | .129 | .126 | .123 | .126 | .129 |
| | | 28 | .099 | .101 | .099 | .104 | .126 | .147 | .144 | .147 | .137 | .146 | .175 | .147 |
| | | 29 | .162 | .164 | .159 | .168 | .186 | .200 | .199 | .207 | .214 | .230 | .229 | .227 |
| | | Hourly Means | | .122 | .122 | .124 | .127 | .129 | .133 | .138 | .142 | .142 | .144 | .144 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 94 | 96 | 92 | 91 | 91 | 91 | 90 | 90 | 97 | 94 | 88 | 95 | 89 |
| 75 | 82 | 85 | 91 | 94 | 95 | 95 | 92 | 91 | 82 | 85 | 78 | 85 |
| 82 | 93 | 97 | 94 | 93 | 93 | — | — | — | — | — | — | 86 |
| — | — | — | — | — | — | 96 | 98 | 97 | 95 | 91 | 93 | 94 |
| 96 | 94 | 95 | 95 | 95 | 95 | 96 | 97 | 93 | 95 | 95 | 98 | 93 |
| 94 | 97 | 98 | 94 | 90 | 85 | 79 | 86 | 96 | 97 | 93 | 87 | 93 |
| 77 | 86 | 92 | 92 | 93 | 88 | 90 | 82 | 80 | 80 | 79 | 87 | 84 |
| 78 | 79 | 76 | 77 | 79 | 74 | 85 | 75 | 81 | 84 | 83 | 79 | 79 |
| 78 | 81 | 83 | 83 | 90 | 92 | 80 | 78 | 78 | 79 | 82 | 82 | 81 |
| 76 | 79 | 85 | 86 | 82 | 84 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | 92 | 96 | 96 | 96 | 94 | 97 | 92 |
| 88 | 85 | 94 | 92 | 91 | 91 | 90 | 91 | 86 | 86 | 87 | 87 | 80 |
| 74 | 87 | 74 | 70 | 79 | 73 | 76 | 74 | 71 | 79 | 84 | 73 | 81 |
| 81 | 83 | 81 | 80 | 91 | 87 | 79 | 89 | 88 | 81 | 90 | 93 | 90 |
| 96 | 96 | 96 | 97 | 94 | 95 | 95 | 94 | 82 | 83 | 85 | 84 | 83 |
| 76 | 78 | 81 | 85 | 87 | 84 | 86 | 86 | 80 | 78 | 73 | 81 | 76 |
| 77 | 78 | 77 | 77 | 74 | 62 | 85 | 86 | 84 | 84 | 84 | 84 | 83 |
| — | — | — | — | — | — | — | — | — | — | — | — | 83 |
| 83 | 83 | 85 | 85 | 83 | 85 | 87 | 94 | 93 | 88 | 87 | 87 | 76 |
| 77 | 67 | 72 | 80 | 83 | 87 | 73 | 71 | 71 | 76 | 81 | 86 | 80 |
| 84 | 77 | 71 | 75 | 75 | 79 | 83 | 83 | 88 | 88 | 87 | 90 | 72 |
| 47 | 54 | 73 | 79 | 81 | 88 | 90 | 91 | 91 | 92 | 91 | 91 | 83 |
| 88 | 89 | 84 | 88 | 82 | 87 | 73 | 71 | 74 | 68 | 68 | 70 | 81 |
| 80 | 90 | 91 | 78 | 90 | 90 | — | — | — | — | — | — | 87 |
| — | — | — | — | — | — | 90 | 91 | 89 | 90 | 83 | 91 | 73 |
| 92 | 100 | 100 | 100 | 100 | 95 | 97 | 95 | 93 | 89 | 86 | 93 | 79 |
| 68 | 73 | 74 | 77 | 74 | 71 | 75 | 71 | 70 | 67 | 68 | 74 | 90 |
| 92 | 87 | 87 | 84 | 86 | 79 | 79 | 79 | 74 | 89 | 87 | 85 | 87 |
| 94 | 93 | 93 | 88 | 89 | 92 | 89 | 96 | 96 | 96 | 96 | 96 | 83 |
| 82 | 84 | 85 | 86 | 87 | 86 | 86 | 86 | 86 | 85 | 86 | 86 | 83 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .122 | .127 | .117 | .112 | .112 | .114 | .115 | .118 | .122 | .117 | .106 | .108 | .101 |
| .101 | .100 | .092 | .082 | .076 | .079 | .087 | .097 | .106 | .103 | .108 | .103 | .105 |
| .076 | .080 | .078 | .081 | .080 | .076 | — | — | — | — | — | — | .112 |
| — | — | — | — | — | — | .157 | .164 | .165 | .166 | .162 | .167 | .180 |
| .187 | .187 | .185 | .183 | .183 | .181 | .185 | .181 | .175 | .179 | .177 | .181 | .157 |
| .172 | .181 | .175 | .153 | .141 | .128 | .114 | .113 | .096 | .088 | .096 | .093 | .106 |
| .107 | .102 | .094 | .093 | .091 | .097 | .098 | .102 | .099 | .098 | .096 | .101 | .100 |
| .111 | .112 | .106 | .106 | .105 | .101 | .110 | .088 | .084 | .080 | .073 | .062 | .066 |
| .059 | .060 | .057 | .057 | .055 | .059 | .063 | .069 | .074 | .076 | .080 | .080 | .100 |
| .109 | .105 | .105 | .101 | .102 | .101 | — | — | — | — | — | — | .147 |
| — | — | — | — | — | — | .110 | .111 | .105 | .100 | .098 | .104 | .151 |
| .157 | .151 | .158 | .157 | .158 | .153 | .160 | .162 | .160 | .162 | .159 | .161 | .100 |
| .156 | .175 | .153 | .138 | .145 | .124 | .125 | .119 | .112 | .118 | .122 | .099 | .147 |
| .105 | .099 | .090 | .089 | .095 | .089 | .077 | .083 | .093 | .097 | .100 | .103 | .152 |
| .174 | .172 | .169 | .167 | .161 | .157 | .150 | .147 | .139 | .144 | .145 | .141 | .140 |
| .139 | .138 | .135 | .135 | .128 | .124 | .125 | .124 | .116 | .111 | .101 | .104 | .086 |
| .062 | .059 | .058 | .059 | .055 | .048 | — | — | — | — | — | — | .159 |
| — | — | — | — | — | — | .126 | .126 | .119 | .118 | .120 | .119 | .176 |
| .184 | .175 | .168 | .167 | .164 | .166 | .167 | .172 | .173 | .167 | .165 | .173 | .167 |
| .183 | .176 | .178 | .176 | .163 | .159 | .152 | .150 | .151 | .157 | .168 | .180 | .147 |
| .177 | .168 | .155 | .158 | .155 | .158 | .162 | .163 | .164 | .148 | .151 | .146 | .125 |
| .127 | .125 | .152 | .152 | .148 | .150 | .141 | .141 | .141 | .143 | .146 | .157 | .088 |
| .129 | .130 | .124 | .122 | .114 | .116 | .092 | .077 | .073 | .062 | .056 | .055 | .172 |
| .089 | .087 | .082 | .071 | .079 | .079 | — | — | — | — | — | — | .123 |
| — | — | — | — | — | — | .114 | .114 | .114 | .117 | .115 | .125 | .143 |
| .183 | .195 | .194 | .199 | .200 | .191 | .196 | .206 | .202 | .181 | .170 | .175 | .205 |
| .117 | .118 | .118 | .121 | .114 | .110 | .114 | .107 | .106 | .100 | .098 | .102 | .136 |
| .154 | .146 | .151 | .150 | .159 | .149 | .149 | .151 | .145 | .170 | .167 | .166 | .135 |
| .215 | .217 | .231 | .226 | .226 | .223 | .206 | .208 | .206 | .202 | .208 | .210 | .133 |
| .136 | .135 | .133 | .130 | .128 | .125 | .132 | .132 | .130 | .128 | .127 | .129 | .132 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|--|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| Hours of Mean Göttingen Time. } Hours of Mean Toronto Time. } | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | MARCH. | 1 | 96 | 98 | 98 | 100 | 98 | 97 | 97 | 97 | 95 | 94 | 96 | 94 | |
| | | 2 | 86 | 84 | 83 | 82 | 82 | 80 | 76 | 75 | 71 | 84 | 87 | 91 | |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 4 | 75 | 86 | 82 | 79 | 66 | 67 | 68 | 65 | 64 | 61 | 62 | 64 | 64 |
| | | 5 | 94 | 77 | 91 | 82 | 87 | 80 | 79 | 73 | 56 | 59 | 74 | 78 | 78 |
| | | 6 | 91 | 91 | 86 | 74 | 70 | 61 | 54 | 79 | 77 | 78 | 75 | 77 | 77 |
| | | 7 | 90 | 92 | 87 | 87 | 84 | 76 | 73 | 71 | 75 | 75 | 76 | 63 | 63 |
| | | 8 | 95 | 91 | 91 | 94 | 80 | 83 | 96 | 96 | 97 | 98 | 99 | 97 | 97 |
| | | 9 | 87 | 86 | 85 | 83 | 96 | 81 | 74 | 68 | 68 | 76 | 72 | 68 | 68 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | 92 | 95 | 95 | 84 | 87 | 76 | 69 | 66 | 68 | 68 | 71 | 72 | 72 |
| | | 12 | 86 | 82 | 79 | 84 | 75 | 74 | 80 | 90 | 95 | 95 | 97 | 97 | 97 |
| | | 13 | 98 | 98 | 98 | 96 | 90 | 87 | 78 | 79 | 75 | 78 | 78 | 81 | 81 |
| | | 14 | 88 | 84 | 76 | 77 | 76 | 70 | 74 | 75 | 72 | 70 | 69 | 76 | 76 |
| | | 15 | 84 | 87 | 93 | 95 | 95 | 96 | 96 | 93 | 88 | 93 | 97 | 98 | 98 |
| | | 16 | 98 | 98 | 98 | 98 | 96 | 95 | 93 | 91 | 88 | 85 | 86 | 82 | 82 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | 80 | 80 | 84 | 69 | 64 | 70 | 72 | 71 | 82 | 76 | 72 | 70 | 70 |
| | | 19 | 79 | 83 | 83 | 78 | 74 | 62 | 59 | 62 | 64 | 67 | 77 | 81 | 81 |
| | | 20 | 96 | 93 | 98 | 98 | 98 | 95 | 91 | 92 | 92 | 82 | 85 | 81 | 81 |
| | | 21 | 78 | 80 | 73 | 71 | 71 | 76 | 76 | 81 | 81 | 80 | 78 | 77 | 77 |
| | | 22 | 86 | 94 | 98 | 94 | 91 | 86 | 84 | 79 | 77 | 80 | 76 | 78 | 78 |
| | | 23 | 74 | 71 | 69 | 63 | 64 | 63 | 59 | 60 | 64 | 63 | 59 | 54 | 54 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | 68 | 66 | 52 | 51 | 56 | 57 | 48 | 42 | 40 | 36 | 52 | 48 | 48 |
| | | 26 | 78 | 76 | 74 | 65 | 67 | 58 | 53 | 53 | 52 | 50 | 60 | 69 | 69 |
| | | 27 | 73 | 74 | 74 | 72 | 70 | 74 | 72 | 78 | 75 | 75 | 76 | 78 | 78 |
| | | 28 | 94 | 93 | 93 | 97 | 97 | 97 | 97 | 98 | 97 | 97 | 97 | 96 | 96 |
| | | 29 | 79 | 81 | 76 | 75 | 71 | 66 | 68 | 64 | 74 | 72 | 70 | 78 | 78 |
| | | 30 | 100 | 97 | 93 | 96 | 95 | 100 | 100 | 99 | 98 | 82 | 81 | 76 | 76 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | 86 | 86 | 85 | 82 | 81 | 78 | 76 | 77 | 76 | 74 | 78 | 78 | | |
| Tension of the Vapour. | MARCH. | 1 | .210 | .212 | .221 | .240 | .251 | .253 | .250 | .253 | .258 | .229 | .235 | .232 | |
| | | 2 | .184 | .178 | .173 | .173 | .179 | .179 | .176 | .178 | .179 | .198 | .197 | .191 | |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 4 | .078 | .083 | .079 | .080 | .070 | .074 | .082 | .083 | .089 | .089 | .091 | .092 | |
| | | 5 | .075 | .069 | .085 | .093 | .118 | .134 | .146 | .151 | .127 | .134 | .155 | .159 | |
| | | 6 | .134 | .136 | .146 | .145 | .145 | .135 | .127 | .172 | .178 | .183 | .160 | .155 | |
| | | 7 | .151 | .156 | .165 | .188 | .191 | .182 | .188 | .190 | .212 | .194 | .192 | .160 | |
| | | 8 | .175 | .171 | .181 | .215 | .193 | .204 | .228 | .228 | .237 | .240 | .256 | .253 | |
| | | 9 | .153 | .146 | .144 | .147 | .180 | .158 | .149 | .145 | .146 | .155 | .145 | .142 | |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 11 | .150 | .160 | .177 | .188 | .206 | .203 | .204 | .226 | .238 | .225 | .213 | .201 | |
| | | 12 | .184 | .188 | .200 | .224 | .220 | .212 | .220 | .235 | .236 | .236 | .238 | .236 | |
| | | 13 | .231 | .237 | .240 | .255 | .273 | .263 | .248 | .239 | .229 | .222 | .217 | .211 | |
| | | 14 | .143 | .135 | .122 | .126 | .129 | .129 | .145 | .147 | .148 | .145 | .143 | .143 | |
| | | 15 | .145 | .152 | .158 | .161 | .162 | .163 | .174 | .176 | .170 | .177 | .192 | .194 | |
| | | 16 | .203 | .197 | .199 | .203 | .197 | .196 | .197 | .201 | .199 | .197 | .193 | .179 | |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 18 | .082 | .086 | .086 | .075 | .071 | .079 | .082 | .080 | .086 | .074 | .070 | .065 | |
| | | 19 | .070 | .079 | .085 | .094 | .102 | .092 | .096 | .105 | .123 | .125 | .130 | .132 | |
| | | 20 | .166 | .163 | .166 | .165 | .166 | .161 | .157 | .156 | .156 | .137 | .140 | .135 | |
| | | 21 | .073 | .072 | .072 | .077 | .082 | .096 | .103 | .120 | .126 | .131 | .132 | .130 | |
| | | 22 | .124 | .134 | .143 | .138 | .136 | .135 | .135 | .138 | .139 | .152 | .144 | .152 | |
| | | 23 | .084 | .082 | .086 | .084 | .093 | .099 | .092 | .109 | .120 | .124 | .128 | .119 | |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 25 | .181 | .179 | .153 | .148 | .166 | .154 | .130 | .123 | .126 | .128 | .193 | .169 | |
| | | 26 | .148 | .149 | .157 | .162 | .172 | .155 | .156 | .167 | .176 | .150 | .154 | .168 | |
| | | 27 | .141 | .143 | .134 | .131 | .124 | .128 | .127 | .138 | .143 | .144 | .144 | .145 | |
| | | 28 | .221 | .227 | .231 | .237 | .238 | .245 | .245 | .251 | .264 | .258 | .261 | .268 | |
| | | 29 | .112 | .105 | .100 | .103 | .110 | .111 | .123 | .127 | .142 | .138 | .129 | .139 | |
| | | 30 | .112 | .111 | .109 | .110 | .108 | .116 | .122 | .122 | .127 | .117 | .117 | .121 | |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — | |
| Hourly Means | | .143 | .144 | .147 | .152 | .157 | .156 | .158 | .164 | .168 | .165 | .168 | .165 | | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 95 | 95 | 93 | 95 | 93 | 86 | 85 | 84 | 81 | 80 | 83 | 86 | 92 |
| 92 | 77 | 78 | 83 | 86 | 84 | — | — | — | — | — | — | 82 |
| — | — | — | — | — | — | 91 | 91 | 83 | 83 | 77 | 71 | 76 |
| 63 | 68 | 70 | 78 | 62 | 91 | 88 | 90 | 91 | 95 | 96 | 94 | 76 |
| 71 | 69 | 62 | 68 | 68 | 67 | 78 | 74 | 78 | 81 | 82 | 85 | 76 |
| 86 | 84 | 86 | 87 | 87 | 92 | 91 | 90 | 91 | 92 | 91 | 80 | 82 |
| 73 | 79 | 87 | 89 | 94 | 95 | 93 | 90 | 86 | 95 | 93 | 91 | 84 |
| 98 | 97 | 94 | 92 | 93 | 90 | 87 | 87 | 87 | 89 | 81 | 81 | 91 |
| 90 | 92 | 87 | 90 | 89 | 87 | — | — | — | — | — | — | 85 |
| — | — | — | — | — | — | 93 | 93 | 94 | 95 | 95 | 95 | 80 |
| 81 | 79 | 75 | 78 | 79 | 79 | 82 | 86 | 87 | 83 | 78 | 84 | 91 |
| 98 | 97 | 97 | 93 | 95 | 96 | 95 | 97 | 97 | 97 | 98 | 98 | 87 |
| 79 | 78 | 78 | 83 | 96 | 92 | 93 | 94 | 94 | 89 | 88 | 90 | 78 |
| 84 | 81 | 86 | 86 | 87 | 79 | 72 | 72 | 71 | 78 | 80 | 84 | 95 |
| 98 | 98 | 91 | 100 | 98 | 97 | 98 | 98 | 98 | 97 | 98 | 98 | 87 |
| 81 | 83 | 87 | 87 | 91 | 88 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 78 | 74 | 74 | 82 | 71 | 80 | 74 |
| 65 | 66 | 69 | 75 | 74 | 81 | 79 | 83 | 82 | 73 | 70 | 82 | 79 |
| 80 | 85 | 86 | 85 | 85 | 86 | 86 | 87 | 86 | 89 | 94 | 86 | 86 |
| 73 | 72 | 81 | 85 | 82 | 80 | 81 | 81 | 81 | 82 | 74 | 81 | 78 |
| 76 | 75 | 76 | 79 | 79 | 70 | 80 | 80 | 80 | 82 | 82 | 84 | 82 |
| 78 | 85 | 76 | 78 | 80 | 79 | 82 | 83 | 83 | 73 | 68 | 75 | 70 |
| 70 | 72 | 75 | 67 | 76 | 79 | — | — | — | — | — | — | 64 |
| — | — | — | — | — | — | 95 | 82 | 71 | 77 | 75 | 76 | 75 |
| 62 | 67 | 81 | 86 | 83 | 76 | 70 | 71 | 78 | 79 | 78 | 81 | 80 |
| 75 | 77 | 85 | 96 | 93 | 93 | 95 | 93 | 89 | 87 | 78 | 82 | 93 |
| 76 | 79 | 74 | 79 | 83 | 87 | 89 | 87 | 89 | 96 | 94 | 95 | 76 |
| 90 | 88 | 87 | 88 | 89 | 95 | 85 | 87 | 91 | 95 | 89 | 87 | 88 |
| 74 | 62 | 63 | 66 | 72 | 73 | 78 | 83 | 85 | 92 | 95 | 100 | 88 |
| 74 | 77 | 81 | 77 | 76 | 74 | — | — | — | — | — | — | 82 |
| — | — | — | — | — | — | 88 | 92 | 91 | 90 | 92 | 92 | 82 |
| 80 | 80 | 81 | 83 | 84 | 84 | 86 | 86 | 85 | 87 | 85 | 86 | 82 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .229 | .220 | .218 | .229 | .251 | .296 | .289 | .277 | .211 | .196 | .192 | .191 | .235 |
| .189 | .155 | .156 | .152 | .153 | .149 | — | — | — | — | — | — | .160 |
| — | — | — | — | — | — | .143 | .133 | .117 | .112 | .100 | .080 | .079 |
| .089 | .079 | .077 | .082 | .064 | .080 | .075 | .074 | .071 | .073 | .074 | .072 | .130 |
| .149 | .146 | .130 | .135 | .137 | .136 | .154 | .139 | .139 | .138 | .137 | .138 | .153 |
| .163 | .157 | .153 | .153 | .156 | .156 | .156 | .154 | .155 | .157 | .155 | .132 | .171 |
| .163 | .161 | .163 | .163 | .165 | .161 | .158 | .156 | .150 | .166 | .165 | .168 | .213 |
| .249 | .262 | .248 | .240 | .230 | .218 | .204 | .193 | .188 | .180 | .163 | .148 | .152 |
| .167 | .153 | .141 | .142 | .138 | .133 | — | — | — | — | — | — | .188 |
| — | — | — | — | — | — | .176 | .159 | .155 | .157 | .154 | .154 | .226 |
| .188 | .179 | .174 | .176 | .174 | .175 | .178 | .180 | .178 | .171 | .563 | .184 | .204 |
| .236 | .239 | .238 | .227 | .228 | .230 | .228 | .235 | .237 | .236 | .240 | .235 | .135 |
| .197 | .190 | .180 | .170 | .178 | .165 | .163 | .162 | .160 | .157 | .149 | .151 | .185 |
| .145 | .131 | .134 | .136 | .140 | .134 | .122 | .123 | .125 | .131 | .134 | .141 | .159 |
| .196 | .200 | .203 | .206 | .201 | .202 | .202 | .203 | .204 | .206 | .202 | .202 | .073 |
| .163 | .160 | .159 | .149 | .154 | .147 | — | — | — | — | — | — | .122 |
| — | — | — | — | — | — | .101 | .090 | .085 | .094 | .077 | .084 | .129 |
| .061 | .060 | .062 | .067 | .067 | .071 | .072 | .075 | .074 | .066 | .064 | .074 | .107 |
| .126 | .132 | .132 | .136 | .140 | .141 | .142 | .144 | .141 | .144 | .158 | .154 | .126 |
| .121 | .117 | .126 | .126 | .116 | .108 | .100 | .092 | .085 | .081 | .073 | .078 | .152 |
| .114 | .111 | .112 | .114 | .111 | .103 | .114 | .115 | .114 | .115 | .116 | .119 | .218 |
| .141 | .131 | .121 | .119 | .119 | .114 | .116 | .116 | .113 | .091 | .084 | .088 | .117 |
| .144 | .121 | .114 | .096 | .103 | .105 | — | — | — | — | — | — | .106 |
| — | — | — | — | — | — | .205 | .198 | .178 | .194 | .178 | .172 | .169 |
| .174 | .152 | .150 | .153 | .150 | .152 | .147 | .139 | .138 | .142 | .143 | .150 | .152 |
| .175 | .173 | .180 | .184 | .187 | .188 | .189 | .180 | .178 | .174 | .159 | .163 | .152 |
| .145 | .149 | .145 | .150 | .155 | .157 | .169 | .166 | .170 | .190 | .203 | .213 | .218 |
| .268 | .240 | .225 | .199 | .197 | .202 | .171 | .163 | .168 | .166 | .149 | .132 | .117 |
| .132 | .112 | .110 | .109 | .109 | .105 | .106 | .111 | .110 | .111 | .112 | .139 | .096 |
| .114 | .105 | .099 | .089 | .086 | .082 | — | — | — | — | — | — | .096 |
| — | — | — | — | — | — | .096 | .095 | .096 | .098 | .094 | .094 | .153 |
| .163 | .155 | .152 | .150 | .150 | .150 | .153 | .149 | .145 | .144 | .140 | .141 | |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | |
|---|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. APRIL. | 1 | 78 | 82 | 82 | 81 | 82 | 80 | 72 | 60 | 71 | 68 | 73 | 78 |
| | 2 | 89 | 87 | 80 | 74 | 76 | 74 | 71 | 68 | 66 | 66 | 68 | 64 |
| | 3 | 86 | 82 | 72 | 68 | 70 | 67 | 64 | 64 | 64 | 62 | 5 | 28 |
| | 4 | 84 | 85 | 82 | 77 | 80 | 76 | 76 | 73 | 76 | 64 | 78 | 86 |
| | 5 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 73 | 75 | 80 | 90 | 89 | 89 | 89 | 87 | 86 | 85 | 86 | 89 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 98 | 98 | 92 | 89 | 91 | 96 | 90 | 85 | 76 | 75 | 77 | 74 |
| | 9 | 97 | 83 | 79 | 70 | 61 | 59 | 73 | 74 | 70 | 66 | 61 | 56 |
| | 10 | 91 | 92 | 73 | 81 | 77 | 75 | 69 | 66 | 54 | 57 | 57 | 57 |
| | 11 | 91 | 87 | 86 | 79 | 78 | 67 | 60 | 62 | 57 | 60 | 53 | 60 |
| | 12 | 88 | 80 | 68 | 70 | 67 | 64 | 61 | 61 | 59 | 54 | 63 | 77 |
| | 13 | 90 | 90 | 79 | 72 | 66 | 61 | 56 | 50 | 54 | 61 | 54 | 51 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 93 | 95 | 92 | 87 | 84 | 86 | 89 | 92 | 93 | 92 | 87 | 82 |
| | 16 | 93 | 93 | 92 | 96 | 95 | 82 | 80 | 64 | 59 | 55 | 55 | 59 |
| | 17 | 79 | 80 | 73 | 67 | 63 | 60 | 58 | 53 | 51 | 46 | 44 | 41 |
| | 18 | 79 | 69 | 63 | 65 | 71 | 73 | 79 | 79 | 75 | 67 | 66 | 69 |
| | 19 | 88 | 79 | 69 | 70 | 65 | 61 | 62 | 62 | 57 | 59 | 64 | 51 |
| | 20 | 93 | 86 | 76 | 67 | 64 | 60 | 61 | 60 | 58 | 54 | 53 | 45 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 80 | 81 | 74 | 75 | 78 | 84 | 89 | 85 | 88 | 82 | 85 | 81 |
| | 23 | 88 | 86 | 85 | 87 | 83 | 89 | 83 | 81 | 78 | 75 | 82 | 83 |
| | 24 | 96 | 97 | 95 | 92 | 84 | 82 | 76 | 43 | 40 | 46 | 51 | 52 |
| | 25 | 87 | 82 | 71 | 67 | 70 | 62 | 53 | 49 | 52 | 47 | 55 | 61 |
| | 26 | 81 | 92 | 92 | 77 | 79 | 85 | 88 | 89 | 80 | 86 | 87 | 83 |
| | 27 | 68 | 67 | 64 | 64 | 64 | 60 | 52 | 53 | 58 | 54 | 54 | 52 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 74 | 56 | 58 | 61 | 58 | 48 | 47 | 52 | 45 | 45 | 43 | 40 |
| | 30 | 82 | 65 | 71 | 69 | 67 | 68 | 60 | 61 | 63 | 61 | 58 | 60 |
| | Hourly Means | 86 | 83 | 78 | 76 | 74 | 72 | 70 | 67 | 65 | 63 | 64 | 63 |
| Tension of the Vapour. APRIL. | 1 | In. .093 | In. .112 | In. .136 | In. .147 | In. .152 | In. .159 | In. .150 | In. .135 | In. .158 | In. .162 | In. .169 | In. .173 |
| | 2 | .169 | .175 | .174 | .171 | .184 | .184 | .186 | .191 | .192 | .196 | .179 | .172 |
| | 3 | .181 | .183 | .199 | .208 | .241 | .245 | .262 | .292 | .306 | .331 | .323 | .200 |
| | 4 | .269 | .278 | .291 | .321 | .339 | .321 | .326 | .366 | .350 | .365 | .311 | .291 |
| | 5 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | .170 | .177 | .189 | .208 | .201 | .200 | .201 | .211 | .208 | .209 | .206 | .212 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | .203 | .248 | .261 | .304 | .294 | .367 | .366 | .435 | .473 | .486 | .433 | .456 |
| | 9 | .256 | .246 | .262 | .270 | .262 | .275 | .352 | .341 | .319 | .331 | .327 | .305 |
| | 10 | .194 | .240 | .236 | .282 | .303 | .327 | .343 | .371 | .351 | .377 | .371 | .350 |
| | 11 | .236 | .272 | .295 | .301 | .308 | .255 | .244 | .278 | .332 | .300 | .313 | .309 |
| | 12 | .244 | .276 | .285 | .322 | .342 | .345 | .354 | .380 | .372 | .382 | .398 | .438 |
| | 13 | .265 | .300 | .324 | .347 | .340 | .353 | .349 | .361 | .397 | .469 | .390 | .361 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | .399 | .421 | .419 | .440 | .443 | .418 | .427 | .425 | .400 | .395 | .389 | .342 |
| | 16 | .292 | .275 | .280 | .341 | .372 | .431 | .407 | .332 | .293 | .281 | .282 | .287 |
| | 17 | .185 | .192 | .180 | .177 | .167 | .169 | .180 | .172 | .172 | .164 | .157 | .148 |
| | 18 | .143 | .143 | .149 | .169 | .198 | .218 | .236 | .245 | .250 | .231 | .228 | .233 |
| | 19 | .150 | .169 | .171 | .190 | .211 | .215 | .250 | .277 | .250 | .250 | .253 | .223 |
| | 20 | .195 | .233 | .239 | .236 | .240 | .254 | .275 | .277 | .297 | .261 | .240 | .225 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | .283 | .294 | .272 | .282 | .296 | .303 | .306 | .319 | .305 | .333 | .309 | .294 |
| | 23 | .299 | .317 | .323 | .340 | .357 | .397 | .413 | .405 | .396 | .432 | .463 | .514 |
| | 24 | .346 | .395 | .417 | .398 | .490 | .489 | .487 | .357 | .324 | .335 | .341 | .330 |
| | 25 | .211 | .226 | .230 | .245 | .267 | .260 | .235 | .229 | .260 | .211 | .231 | .256 |
| | 26 | .261 | .281 | .300 | .269 | .267 | .274 | .281 | .282 | .251 | .251 | .240 | .221 |
| | 27 | .135 | .140 | .147 | .162 | .165 | .178 | .153 | .166 | .190 | .179 | .192 | .176 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | .172 | .167 | .189 | .220 | .228 | .204 | .209 | .243 | .233 | .234 | .230 | .246 |
| | 30 | .198 | .191 | .232 | .259 | .281 | .275 | .298 | .233 | .306 | .290 | .259 | .254 |
| | Hourly Means | .222 | .238 | .248 | .264 | .278 | .285 | .292 | .293 | .295 | .298 | .289 | .281 |

^a Good Friday

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 82 | 87 | 95 | 87 | 87 | 85 | 84 | 87 | 87 | 88 | 90 | 89 | 81 |
| 65 | 72 | 70 | 70 | 74 | 79 | 80 | 79 | 76 | 73 | 82 | 84 | 74 |
| 63 | 38 | 60 | 72 | 69 | 69 | 67 | 68 | 69 | 81 | 83 | 83 | 67 |
| 87 | 88 | 87 | 86 | 88 | 85 | — | — | — | — | — | — | 81 |
| — | — | — | — | — | — | 69 | 76 | 96 | 95 | 74 | 70 | 81 |
| 89 | 89 | 90 | 91 | 92 | 92 | — | — | — | — | — | — | 89 |
| — | — | — | — | — | — | 96 | 95 | 96 | 96 | 95 | 100 | 89 |
| 66 | 80 | 80 | 86 | 89 | 80 | 86 | 86 | 93 | 88 | 89 | 87 | 85 |
| 50 | 62 | 69 | 76 | 80 | 81 | 86 | 78 | 79 | 86 | 87 | 93 | 74 |
| 55 | 64 | 66 | 73 | 76 | 78 | 84 | 88 | 88 | 89 | 88 | 90 | 75 |
| 60 | 63 | 62 | 71 | 74 | 76 | 83 | 88 | 85 | 88 | 89 | 88 | 73 |
| 58 | 76 | 82 | 84 | 84 | 88 | 86 | 84 | 89 | 88 | 84 | 92 | 75 |
| 65 | 77 | 85 | 82 | 78 | 81 | — | — | — | — | — | — | 72 |
| — | — | — | — | — | — | 74 | 73 | 78 | 79 | 86 | 85 | 72 |
| 82 | 78 | 86 | 89 | 90 | 88 | 93 | 92 | 93 | 94 | 94 | 93 | 89 |
| 77 | 80 | 80 | 84 | 85 | 71 | 70 | 68 | 64 | 68 | 87 | 84 | 77 |
| 43 | 64 | 59 | 62 | 65 | 64 | 63 | 67 | 68 | 70 | 73 | 75 | 62 |
| 71 | 73 | 83 | 85 | 79 | 79 | 80 | 87 | 91 | 88 | 90 | 88 | 77 |
| 62 | 64 | 64 | 68 | 82 | 82 | 87 | 88 | 88 | 88 | 89 | 93 | 73 |
| 47 | 58 | 70 | 76 | 80 | 77 | — | — | — | — | — | — | 70 |
| — | — | — | — | — | — | 84 | 84 | 80 | 81 | 78 | 77 | 70 |
| 88 | 86 | 81 | 82 | 82 | 80 | 80 | 85 | 83 | 85 | 89 | 88 | 83 |
| 84 | 92 | 95 | 94 | 94 | 95 | 96 | 96 | 96 | 96 | 97 | 97 | 89 |
| 60 | 68 | 64 | 66 | 71 | 74 | 75 | 77 | 80 | 85 | 81 | 81 | 72 |
| 67 | 71 | 66 | 73 | 77 | 76 | 74 | 71 | 68 | 77 | 77 | 71 | 68 |
| 83 | 83 | 81 | 79 | 83 | 84 | 80 | 83 | 76 | 70 | 70 | 70 | 82 |
| 53 | 46 | 79 | 90 | 86 | 92 | — | — | — | — | — | — | 62 |
| — | — | — | — | — | — | 41 | 45 | 53 | 59 | 66 | 63 | 62 |
| 43 | 57 | 66 | 81 | 88 | 87 | 85 | 87 | 86 | 80 | 88 | 91 | 65 |
| 61 | 72 | 70 | 72 | 72 | 67 | 68 | 71 | 75 | 79 | 78 | 76 | 69 |
| 66 | 72 | 76 | 79 | 81 | 80 | 79 | 80 | 81 | 83 | 84 | 84 | 75 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·159 | ·155 | ·166 | ·157 | ·157 | ·151 | ·154 | ·159 | ·162 | ·164 | ·165 | ·163 | ·151 |
| ·169 | ·172 | ·177 | ·178 | ·176 | ·183 | ·176 | ·179 | ·178 | ·180 | ·189 | ·180 | ·192 |
| ·419 | ·190 | ·208 | ·219 | ·222 | ·267 | ·282 | ·291 | ·284 | ·260 | ·245 | ·259 | ·255 |
| ·282 | ·278 | ·257 | ·250 | ·248 | ·231 | — | — | — | — | — | — | ·269 |
| — | — | — | — | — | — | ·153 | ·168 | ·204 | ·206 | ·179 | ·165 | ·269 |
| ·215 | ·214 | ·218 | ·218 | ·216 | ·216 | — | — | — | — | — | — | ·204 |
| — | — | — | — | — | — | ·206 | ·199 | ·204 | ·206 | ·199 | ·204 | ·204 |
| ·381 | ·391 | ·352 | ·360 | ·363 | ·281 | ·278 | ·250 | ·255 | ·231 | ·232 | ·229 | ·330 |
| ·253 | ·230 | ·223 | ·223 | ·219 | ·212 | ·210 | ·183 | ·181 | ·187 | ·189 | ·192 | ·252 |
| ·306 | ·285 | ·266 | ·265 | ·246 | ·243 | ·229 | ·219 | ·215 | ·208 | ·211 | ·220 | ·287 |
| ·267 | ·252 | ·235 | ·261 | ·251 | ·245 | ·243 | ·244 | ·231 | ·229 | ·240 | ·236 | ·266 |
| ·296 | ·315 | ·320 | ·313 | ·291 | ·290 | ·271 | ·289 | ·275 | ·274 | ·272 | ·264 | ·317 |
| ·329 | ·351 | ·336 | ·314 | ·281 | ·285 | — | — | — | — | — | — | ·349 |
| — | — | — | — | — | — | ·376 | ·371 | ·376 | ·356 | ·387 | ·365 | ·349 |
| ·316 | ·282 | ·293 | 293 | ·283 | ·297 | ·304 | ·301 | ·299 | ·306 | ·313 | ·297 | ·354 |
| ·358 | ·356 | ·290 | ·285 | ·280 | ·251 | ·225 | ·209 | ·194 | ·188 | ·213 | ·196 | ·288 |
| ·151 | ·170 | ·139 | ·133 | ·127 | ·123 | ·121 | ·124 | ·125 | ·128 | ·129 | ·130 | ·153 |
| ·208 | ·183 | ·175 | ·168 | ·162 | ·161 | ·159 | ·155 | ·156 | ·149 | ·147 | ·142 | ·184 |
| ·224 | ·212 | ·198 | ·200 | ·206 | ·199 | ·192 | ·191 | ·191 | ·185 | ·180 | ·182 | ·207 |
| ·209 | ·215 | ·220 | ·217 | ·214 | ·195 | — | — | — | — | — | — | ·251 |
| — | — | — | — | — | — | ·320 | ·314 | ·298 | ·295 | ·280 | ·275 | ·251 |
| ·309 | ·308 | ·310 | ·324 | ·315 | ·305 | ·281 | ·272 | ·268 | ·291 | ·296 | ·285 | ·298 |
| ·558 | ·574 | ·369 | ·343 | ·328 | ·402 | ·361 | ·351 | ·356 | ·325 | ·347 | ·344 | ·388 |
| ·333 | ·314 | ·250 | ·228 | ·237 | ·235 | ·226 | ·224 | ·219 | ·207 | ·208 | ·200 | ·316 |
| ·257 | ·264 | ·238 | ·260 | ·267 | ·259 | ·240 | ·229 | ·214 | ·247 | ·242 | ·229 | ·242 |
| ·221 | ·219 | ·207 | ·195 | ·203 | ·204 | ·196 | ·197 | ·168 | ·150 | ·144 | ·139 | ·226 |
| ·164 | ·136 | ·178 | ·185 | ·170 | ·172 | — | — | — | — | — | — | ·157 |
| — | — | — | — | — | — | ·118 | ·121 | ·131 | ·134 | ·140 | ·142 | ·157 |
| ·225 | ·238 | ·220 | ·230 | ·227 | ·211 | ·199 | ·196 | ·187 | ·174 | ·185 | ·197 | ·211 |
| ·259 | ·273 | ·265 | ·268 | ·266 | ·247 | ·255 | ·269 | ·283 | ·279 | ·283 | ·288 | ·263 |
| ·275 | ·263 | ·244 | ·243 | ·238 | ·235 | ·231 | ·228 | ·226 | ·222 | ·225 | ·221 | ·256 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | |
|---|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 |
| Humidity of the Air. MAY. | 1 | 78 | 80 | 77 | 78 | 75 | 80 | 80 | 78 | 77 | 76 | 78 |
| | 2 | 98 | 97 | 97 | 91 | 83 | 82 | 76 | 71 | 68 | 58 | 58 |
| | 3 | 97 | 93 | 96 | 91 | 88 | 88 | 88 | 86 | 85 | 82 | 78 |
| | 4 | 81 | 86 | 85 | 87 | 84 | 80 | 78 | 77 | 78 | 73 | 84 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 74 | 77 | 87 | 89 | 94 | 93 | 88 | 88 | 90 | 88 | 83 |
| | 7 | 77 | 75 | 67 | 64 | 63 | 67 | 60 | 47 | 45 | 40 | 38 |
| | 8 | 87 | 89 | 88 | 86 | 56 | 45 | 41 | 29 | 29 | 52 | 41 |
| | 9 | 68 | 64 | 58 | 48 | 47 | 45 | 42 | 40 | 37 | 39 | 35 |
| | 10 | 88 | 76 | 71 | 66 | 62 | 65 | 62 | 67 | 68 | 78 | 79 |
| | 11 | 96 | 96 | 97 | 92 | 92 | 96 | 88 | 89 | 84 | 83 | 92 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 84 | 66 | 66 | 55 | 56 | 86 | 64 | 95 | 58 | 58 | 63 |
| | 14 | 78 | 76 | 81 | 80 | 72 | 68 | 73 | 67 | 60 | 57 | 62 |
| | 15 | 93 | 89 | 89 | 86 | 86 | 82 | 77 | 67 | 76 | 75 | 73 |
| | 16 | 85 | 80 | 76 | 72 | 87 | 70 | 66 | 66 | 68 | 66 | 67 |
| | 17 | 59 | 59 | 57 | 59 | 67 | 67 | 66 | 64 | 55 | 60 | 61 |
| | 18 | 88 | 85 | 74 | 76 | 75 | 71 | 72 | 64 | 62 | 58 | 56 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 87 | 85 | 93 | 88 | 83 | 84 | 84 | 67 | 64 | 72 | 71 |
| | 21 | 64 | 61 | 58 | 57 | 54 | 51 | 47 | 62 | 60 | 52 | 51 |
| | 22 | 78 | 81 | 83 | 83 | 75 | 70 | 64 | 60 | 53 | 53 | 61 |
| | 23 | 80 | 84 | 78 | 80 | 73 | 75 | 73 | 66 | 62 | 61 | 58 |
| | 24 | 87 | 82 | 78 | 77 | 75 | 72 | 74 | 73 | 73 | 71 | 66 |
| | 25 | 92 | 88 | 89 | 87 | 85 | 86 | 80 | 74 | 68 | 66 | 63 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 91 | 88 | 88 | 83 | 82 | 78 | 72 | 67 | — | — | 56 |
| | 28 | 82 | 81 | 82 | 79 | 75 | 69 | 62 | 55 | 58 | 49 | 48 |
| | 29 | 86 | 84 | 77 | 69 | 71 | 69 | 69 | 66 | 65 | 63 | 60 |
| | 30 | 95 | 95 | 95 | 96 | 97 | 97 | 95 | 90 | 86 | 96 | 94 |
| | 31 | 94 | 83 | 78 | 80 | 76 | 78 | 67 | 65 | 62 | 56 | 60 |
| Hourly Means | 84 | 81 | 80 | 78 | 75 | 75 | 71 | 68 | 65 | 65 | 64 | |
| Tension of the Vapour. MAY. | 1 | In. .340 | In. .352 | In. .410 | In. .440 | In. .456 | In. .469 | In. .469 | In. .448 | In. .424 | In. .416 | In. .419 |
| | 2 | .385 | .421 | .439 | .448 | .409 | .461 | .466 | .468 | .450 | .440 | .401 |
| | 3 | .353 | .389 | .441 | .426 | .435 | .476 | .484 | .472 | .456 | .426 | .467 |
| | 4 | .288 | .312 | .326 | .355 | .322 | .334 | .354 | .336 | .337 | .324 | .318 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | .251 | .267 | .280 | .287 | .313 | .340 | .371 | .382 | .397 | .402 | .374 |
| | 7 | .266 | .276 | .266 | .265 | .276 | .311 | .290 | .254 | .275 | .265 | .263 |
| | 8 | .350 | .365 | .381 | .399 | .271 | .235 | .238 | .184 | .196 | .213 | .247 |
| | 9 | .202 | .207 | .206 | .193 | .211 | .224 | .213 | .214 | .205 | .224 | .204 |
| | 10 | .208 | .233 | .229 | .232 | .228 | .244 | .226 | .247 | .248 | .258 | .245 |
| | 11 | .338 | .326 | .350 | .434 | .497 | .520 | .561 | .551 | .626 | .613 | .562 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | .196 | .181 | .203 | .178 | .178 | .294 | .211 | .308 | .175 | .170 | .174 |
| | 14 | .240 | .242 | .261 | .283 | .284 | .282 | .333 | .330 | .296 | .301 | .358 |
| | 15 | .257 | .287 | .324 | .343 | .363 | .398 | .437 | .431 | .434 | .416 | .366 |
| | 16 | .301 | .310 | .317 | .330 | .456 | .399 | .371 | .360 | .355 | .327 | .328 |
| | 17 | .215 | .219 | .225 | .260 | .342 | .325 | .334 | .314 | .275 | .280 | .268 |
| | 18 | .287 | .290 | .271 | .317 | .320 | .323 | .292 | .270 | .286 | .261 | .281 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | .275 | .276 | .318 | .354 | .382 | .359 | .348 | .385 | .374 | .363 | .325 |
| | 21 | .140 | .135 | .130 | .137 | .141 | .146 | .149 | .204 | .208 | .198 | .210 |
| | 22 | .158 | .211 | .243 | .264 | .282 | .290 | .290 | .283 | .264 | .263 | .308 |
| | 23 | .187 | .213 | .282 | .315 | .339 | .392 | .414 | .444 | .415 | .394 | .376 |
| | 24 | .332 | .349 | .360 | .390 | .416 | .442 | .440 | .457 | .438 | .408 | .442 |
| | 25 | .398 | .444 | .496 | .521 | .595 | .622 | .650 | .636 | .586 | .581 | .577 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | .431 | .446 | .459 | .478 | .506 | .528 | .489 | .480 | — | — | .442 |
| | 28 | .375 | .384 | .408 | .418 | .436 | .431 | .399 | .386 | .406 | .369 | .352 |
| | 29 | .323 | .357 | .344 | .337 | .356 | .369 | .386 | .392 | .417 | .394 | .386 |
| | 30 | .356 | .375 | .380 | .391 | .428 | .432 | .526 | .576 | .490 | .494 | .484 |
| | 31 | .410 | .369 | .349 | .356 | .357 | .344 | .350 | .350 | .351 | .331 | .325 |
| Hourly Means | .291 | .305 | .322 | .339 | .356 | .370 | .374 | .376 | .361 | .351 | .352 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Meas. |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 80 | 82 | 83 | 88 | 90 | 92 | 95 | 98 | 92 | 93 | 97 | 96 | 84 |
| 63 | 67 | 70 | 72 | 70 | 75 | 86 | 88 | 80 | 91 | 95 | 97 | 79 |
| 91 | 89 | 90 | 93 | 96 | 90 | 97 | 95 | 91 | 89 | 88 | 79 | 89 |
| 77 | 85 | 83 | 82 | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 77 | 77 | 76 | 70 | 64 | 75 | 79 |
| 89 | 93 | 94 | 87 | 83 | 84 | 86 | 85 | 81 | 81 | 80 | 79 | 86 |
| 52 | 69 | 79 | 85 | 89 | 86 | 85 | 86 | 86 | 85 | 86 | 93 | 69 |
| 38 | 43 | 44 | 48 | 56 | 65 | 72 | 70 | 73 | 68 | 71 | 68 | 59 |
| 42 | 45 | 53 | 64 | 66 | 71 | 74 | 75 | 84 | 89 | 92 | 95 | 59 |
| 60 | 66 | 69 | 71 | 71 | 73 | 86 | 86 | 85 | 89 | 96 | 98 | 75 |
| 98 | 92 | 88 | 85 | 85 | 79 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 88 | 90 | 84 | 89 | 87 | 86 | 89 |
| 63 | 57 | 67 | 67 | 83 | 88 | 89 | 90 | 86 | 92 | 95 | 92 | 74 |
| 64 | 71 | 79 | 83 | 86 | 92 | 93 | 95 | 93 | 95 | 95 | 97 | 78 |
| 71 | 76 | 78 | 75 | 76 | 79 | 76 | 81 | 76 | 82 | 84 | 84 | 79 |
| 57 | 73 | 62 | 63 | 72 | 68 | 65 | 64 | 58 | 57 | 54 | 56 | 68 |
| 64 | 66 | 61 | 62 | 64 | 53 | 72 | 81 | 85 | 88 | 92 | 90 | 67 |
| 45 | 47 | 50 | 58 | 82 | 88 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 85 | 79 | 83 | 85 | 83 | 89 | 71 |
| 68 | 73 | 75 | 72 | 67 | 62 | 67 | 73 | 71 | 77 | 88 | 81 | 76 |
| 59 | 72 | 82 | 78 | 74 | 88 | 95 | 91 | 93 | 92 | 94 | 92 | 70 |
| 56 | 61 | 70 | 70 | 82 | 83 | 91 | 93 | 86 | 87 | 89 | 87 | 74 |
| 50 | 61 | 75 | 80 | 77 | 79 | 88 | 92 | 94 | 94 | 95 | 90 | 76 |
| 65 | 67 | 83 | 88 | 91 | 94 | 93 | 95 | 94 | 96 | 92 | 93 | 81 |
| 65 | 71 | 77 | 81 | 84 | 90 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 93 | 94 | 94 | 95 | 96 | 96 | 82 |
| 60 | 76 | 83 | 93 | 88 | 95 | 95 | 93 | 88 | 86 | 88 | 88 | 82 |
| 47 | 55 | 59 | 62 | 66 | 68 | 69 | 69 | 71 | 79 | 89 | 88 | 67 |
| 68 | 69 | 66 | 73 | 66 | 63 | 64 | 64 | 69 | 69 | 80 | 92 | 70 |
| 91 | 92 | 96 | 96 | 96 | 96 | 96 | 97 | 99 | 97 | 97 | 96 | 95 |
| 70 | 76 | 77 | 82 | 86 | 93 | 93 | 95 | 92 | 96 | 96 | 90 | 79 |
| 65 | 70 | 74 | 76 | 79 | 81 | 84 | 85 | 84 | 86 | 87 | 88 | 76 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·409 | ·401 | ·412 | ·402 | ·396 | ·402 | ·381 | ·375 | ·353 | ·362 | ·367 | ·350 | ·404 |
| ·393 | ·354 | ·373 | ·352 | ·351 | ·380 | ·396 | ·395 | ·354 | ·339 | ·322 | ·330 | ·395 |
| ·362 | ·336 | ·369 | ·392 | ·394 | ·368 | ·347 | ·333 | ·333 | ·316 | ·293 | ·273 | ·393 |
| ·299 | ·315 | ·305 | ·299 | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·252 | ·241 | ·240 | ·228 | ·231 | ·257 | ·299 |
| ·314 | ·331 | ·343 | ·335 | ·315 | ·304 | ·309 | ·305 | ·293 | ·288 | ·273 | ·260 | ·319 |
| ·368 | ·323 | ·307 | ·294 | ·296 | ·297 | ·309 | ·307 | ·302 | ·306 | ·315 | ·364 | ·294 |
| ·208 | ·200 | ·187 | ·194 | ·196 | ·211 | ·215 | ·208 | ·213 | ·199 | ·203 | ·195 | ·242 |
| ·225 | ·203 | ·194 | ·198 | ·193 | ·219 | ·190 | ·192 | ·193 | ·185 | ·178 | ·185 | ·202 |
| ·195 | ·207 | ·203 | ·205 | ·209 | ·217 | ·250 | ·253 | ·259 | ·282 | ·350 | ·370 | ·242 |
| ·617 | ·592 | ·489 | ·438 | ·397 | ·344 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·215 | ·213 | ·178 | ·176 | ·178 | ·181 | ·416 |
| ·166 | ·154 | ·176 | ·170 | ·204 | ·222 | ·242 | ·238 | ·239 | ·266 | ·270 | ·272 | ·211 |
| ·356 | ·300 | ·278 | ·280 | ·257 | ·260 | ·249 | ·243 | ·226 | ·222 | ·230 | ·229 | ·277 |
| ·335 | ·321 | ·308 | ·297 | ·305 | ·308 | ·316 | ·326 | ·300 | ·311 | ·299 | ·291 | ·339 |
| ·285 | ·307 | ·235 | ·231 | ·247 | ·239 | ·231 | ·229 | ·210 | ·203 | ·195 | ·203 | ·292 |
| ·262 | ·267 | ·257 | ·261 | ·262 | ·210 | ·260 | ·288 | ·302 | ·293 | ·296 | ·292 | ·273 |
| ·231 | ·216 | ·192 | ·196 | ·219 | ·212 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·255 | ·242 | ·253 | ·261 | ·252 | ·272 | ·260 |
| ·237 | ·223 | ·221 | ·210 | ·193 | ·171 | ·173 | ·171 | ·156 | ·157 | ·168 | ·164 | ·261 |
| ·230 | ·230 | ·216 | ·194 | ·176 | ·171 | ·173 | ·163 | ·160 | ·157 | ·151 | ·153 | ·174 |
| ·262 | ·242 | ·245 | ·210 | ·227 | ·234 | ·221 | ·211 | ·199 | ·198 | ·197 | ·191 | ·240 |
| ·337 | ·360 | ·339 | ·354 | ·331 | ·322 | ·323 | ·315 | ·305 | ·290 | ·285 | ·286 | ·333 |
| ·487 | ·409 | ·417 | ·410 | ·399 | ·408 | ·397 | ·387 | ·381 | ·390 | ·382 | ·378 | ·409 |
| ·510 | ·513 | ·482 | ·449 | ·475 | ·508 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·445 | ·447 | ·436 | ·435 | ·418 | ·419 | ·508 |
| ·428 | ·489 | ·493 | ·509 | ·480 | ·466 | ·470 | ·437 | ·401 | ·385 | ·377 | ·365 | ·454 |
| ·302 | ·313 | ·298 | ·289 | ·296 | ·290 | ·297 | ·281 | ·266 | ·277 | ·283 | ·293 | ·341 |
| ·356 | ·322 | ·277 | ·275 | ·261 | ·252 | ·262 | ·273 | ·286 | ·283 | ·316 | ·347 | ·332 |
| ·457 | ·444 | ·465 | ·463 | ·462 | ·468 | ·450 | ·449 | ·441 | ·425 | ·419 | ·428 | ·449 |
| ·444 | ·377 | ·338 | ·327 | ·321 | ·304 | ·292 | ·286 | ·273 | ·277 | ·265 | ·245 | ·333 |
| ·336 | ·324 | ·312 | ·305 | ·302 | ·298 | ·293 | ·289 | ·280 | ·278 | ·278 | ·281 | ·322 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | JUNE. | 1 | 96 | 96 | 92 | 89 | 79 | 78 | 78 | 71 | 71 | 67 | 67 | 63 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | 79 | 79 | 71 | 73 | 78 | 76 | 74 | 75 | 66 | 62 | 62 | 59 |
| | | 4 | 90 | 89 | 84 | 81 | 83 | 79 | 75 | 74 | 68 | 65 | 66 | 63 |
| | | 5 | 90 | 95 | 92 | 86 | 81 | 82 | 81 | 78 | 75 | 74 | 76 | 87 |
| | | 6 | 97 | 95 | 93 | 81 | 69 | 62 | 56 | 53 | 51 | 52 | 51 | 55 |
| | | 7 | 77 | 74 | 81 | 79 | 73 | 75 | 76 | 76 | 77 | 73 | 41 | 39 |
| | | 8 | 68 | 71 | 65 | 69 | 68 | 64 | 62 | 58 | 57 | 53 | 51 | 57 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | 83 | 76 | 50 | 48 | 44 | 54 | 32 | 68 | 29 | 28 | 34 | 31 |
| | | 11 | 84 | 74 | 66 | 51 | 47 | 66 | 68 | 64 | 57 | 59 | 53 | 52 |
| | | 12 | 77 | 70 | 79 | 67 | 67 | 66 | 59 | 56 | 54 | 49 | 48 | 45 |
| | | 13 | 76 | 74 | 72 | 67 | 69 | 66 | 65 | 61 | 66 | 65 | 66 | 63 |
| | | 14 | 65 | 66 | 69 | 74 | 74 | 74 | 66 | 67 | 65 | 64 | 66 | 57 |
| | | 15 | 81 | 79 | 75 | 74 | 71 | 77 | 73 | 73 | 70 | 72 | 71 | 65 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | 95 | 95 | 96 | 97 | 94 | 91 | 88 | 90 | 87 | 90 | 90 | 87 |
| | | 18 | 98 | 95 | 92 | 89 | 82 | 80 | 82 | 80 | 76 | 72 | 85 | 69 |
| | | 19 | 98 | 94 | 93 | 89 | 89 | 95 | 95 | 97 | 89 | 77 | 72 | 68 |
| | | 20 | 77 | 70 | 69 | 63 | 58 | 62 | 55 | 58 | 55 | 53 | 55 | 88 |
| | | 21 | 89 | 83 | 77 | 70 | 69 | 66 | 67 | 62 | 58 | 59 | 56 | 57 |
| | | 22 | 82 | 80 | 79 | 64 | 60 | 57 | 49 | 51 | 44 | 39 | 39 | 39 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | 86 | 82 | 77 | 74 | 71 | 71 | 73 | 71 | 75 | 70 | 69 | 61 |
| | | 25 | 93 | 91 | 88 | 90 | 84 | 77 | 84 | 81 | 74 | 86 | 80 | 73 |
| | | 26 | 78 | 87 | 86 | 90 | 88 | 81 | 87 | 92 | 86 | 84 | 83 | 84 |
| | | 27 | 95 | 95 | 96 | 96 | 97 | 97 | 97 | 97 | 97 | 97 | 95 | 98 |
| | | 28 | 77 | 77 | 72 | 71 | 70 | 66 | 61 | 61 | 59 | 56 | 52 | 70 |
| | | 29 | 87 | 80 | 71 | 63 | 66 | 64 | 61 | 59 | 55 | 50 | 47 | 49 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | 85 | 83 | 79 | 76 | 73 | 73 | 71 | 71 | 66 | 65 | 63 |
| Tension of the Vapour. | JUNE. | 1 | In. .326 | In. .388 | In. .293 | In. .388 | In. .404 | In. .416 | In. .481 | In. .460 | In. .470 | In. .435 | In. .462 | In. .495 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | .254 | .275 | .282 | .333 | .380 | .374 | .367 | .397 | .390 | .379 | .400 | .403 |
| | | 4 | .269 | .300 | .327 | .364 | .405 | .404 | .413 | .425 | .409 | .420 | .418 | .415 |
| | | 5 | .357 | .379 | .393 | .403 | .395 | .443 | .513 | .538 | .520 | .475 | .510 | .536 |
| | | 6 | .478 | .541 | .597 | .570 | .516 | .460 | .441 | .414 | .400 | .373 | .353 | .343 |
| | | 7 | .310 | .300 | .326 | .347 | .369 | .419 | .453 | .508 | .508 | .519 | .311 | .287 |
| | | 8 | .178 | .203 | .224 | .251 | .262 | .272 | .277 | .288 | .300 | .304 | .307 | .300 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | .254 | .265 | .204 | .208 | .201 | .245 | .151 | .337 | .140 | .140 | .155 | .142 |
| | | 11 | .212 | .229 | .236 | .203 | .206 | .294 | .317 | .312 | .290 | .337 | .337 | .348 |
| | | 12 | .252 | .263 | .305 | .294 | .317 | .344 | .345 | .348 | .325 | .297 | .287 | .283 |
| | | 13 | .287 | .324 | .353 | .362 | .387 | .392 | .389 | .404 | .434 | .477 | .465 | .434 |
| | | 14 | .274 | .316 | .382 | .405 | .417 | .429 | .405 | .465 | .503 | .480 | .526 | .443 |
| | | 15 | .360 | .392 | .415 | .471 | .435 | .493 | .516 | .524 | .504 | .451 | .471 | .486 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | .466 | .489 | .534 | .558 | .564 | .617 | .605 | .577 | .607 | .585 | .574 | .596 |
| | | 18 | .548 | .600 | .630 | .673 | .667 | .635 | .690 | .658 | .700 | .764 | .742 | .759 |
| | | 19 | .578 | .651 | .658 | .696 | .709 | .666 | .663 | .642 | .659 | .654 | .615 | .594 |
| | | 20 | .388 | .371 | .394 | .392 | .381 | .437 | .396 | .428 | .424 | .395 | .402 | .614 |
| | | 21 | .364 | .372 | .388 | .360 | .401 | .386 | .399 | .383 | .383 | .414 | .430 | .477 |
| | | 22 | .338 | .351 | .370 | .342 | .336 | .340 | .298 | .334 | .314 | .290 | .286 | .280 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | .411 | .441 | .480 | .499 | .510 | .490 | .580 | .600 | .590 | .523 | .520 | .545 |
| | | 25 | .535 | .536 | .527 | .569 | .620 | .641 | .607 | .652 | .687 | .680 | .736 | .753 |
| | | 26 | .447 | .479 | .486 | .502 | .520 | .538 | .569 | .576 | .550 | .533 | .521 | .511 |
| | | 27 | .479 | .483 | .473 | .477 | .468 | .460 | .461 | .452 | .480 | .541 | .552 | .548 |
| | | 28 | .400 | .418 | .386 | .382 | .403 | .410 | .404 | .402 | .384 | .409 | .387 | .517 |
| | | 29 | .345 | .354 | .353 | .344 | .376 | .384 | .388 | .400 | .403 | .401 | .394 | .417 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | .364 | .389 | .405 | .416 | .426 | .440 | .445 | .461 | .455 | .451 | .446 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 73 | 67 | 72 | 82 | 76 | 78 | — | — | — | — | — | — | 78 |
| 60 | 68 | 84 | 89 | 91 | 92 | 83 | 76 | 78 | 81 | 81 | 75 | 79 |
| 65 | 72 | 78 | 84 | 91 | 94 | 93 | 95 | 96 | 93 | 94 | 93 | 82 |
| 95 | 89 | 93 | 93 | 93 | 92 | 94 | 98 | 93 | 94 | 92 | 90 | 89 |
| 48 | 55 | 60 | 65 | 74 | 75 | 82 | 75 | 72 | 80 | 80 | 76 | 69 |
| 41 | 46 | 37 | 42 | 41 | 45 | 63 | 70 | 72 | 87 | 86 | 89 | 65 |
| 63 | 69 | 71 | 75 | 75 | 81 | — | — | — | — | — | — | 72 |
| — | — | — | — | — | — | 85 | 92 | 92 | 92 | 92 | 95 | 59 |
| 34 | 46 | 54 | 58 | 67 | 74 | 73 | 76 | 81 | 85 | 93 | 93 | 69 |
| 48 | 54 | 74 | 78 | 79 | 87 | 87 | 82 | 77 | 78 | 80 | 83 | 63 |
| 47 | 53 | 54 | 39 | 62 | 66 | 73 | 78 | 73 | 74 | 72 | 84 | 74 |
| 57 | 76 | 81 | 81 | 83 | 81 | 88 | 88 | 89 | 84 | 81 | 74 | 72 |
| 55 | 78 | 81 | 85 | 81 | 73 | 74 | 80 | 80 | 80 | 83 | 81 | 78 |
| 63 | 70 | 78 | 86 | 86 | 87 | — | — | — | — | — | — | 94 |
| — | — | — | — | — | — | 88 | 80 | 81 | 86 | 85 | 92 | 87 |
| 90 | 93 | 94 | 98 | 97 | 97 | 96 | 97 | 97 | 97 | 97 | 96 | 86 |
| 70 | 76 | 89 | 90 | 91 | 93 | 93 | 93 | 97 | 97 | 98 | 96 | 75 |
| 75 | 64 | 75 | 81 | 84 | 87 | 89 | 91 | 95 | 94 | 95 | 81 | 72 |
| 100 | 100 | 100 | 71 | 76 | 76 | 83 | 85 | 86 | 85 | 91 | 91 | 66 |
| 58 | 61 | 80 | 85 | 76 | 77 | 81 | 77 | 81 | 74 | 80 | 83 | 79 |
| 40 | 50 | 58 | 74 | 83 | 78 | — | — | — | — | — | — | 90 |
| — | — | — | — | — | — | 80 | 89 | 83 | 88 | 83 | 88 | 94 |
| 72 | 74 | 73 | 75 | 69 | 89 | 92 | 93 | 90 | 90 | 94 | 95 | 77 |
| 54 | 52 | 56 | 67 | 83 | 81 | 71 | 81 | 71 | 79 | 79 | 79 | 90 |
| 87 | 93 | 94 | 95 | 96 | 97 | 96 | 96 | 94 | 91 | 95 | 96 | 94 |
| 99 | 97 | 97 | 97 | 97 | 97 | 98 | 91 | 79 | 80 | 78 | 79 | 71 |
| 66 | 60 | 67 | 74 | 76 | 81 | 81 | 82 | 86 | 92 | 85 | 73 | 74 |
| 52 | 64 | 81 | 90 | 88 | 83 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 94 | 95 | 97 | 97 | 97 | 97 | 77 |
| 64 | 69 | 75 | 78 | 81 | 82 | 85 | 86 | 85 | 87 | 88 | 87 | — |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .444 | .460 | .443 | .461 | .390 | .391 | — | — | — | — | — | — | .382 |
| — | — | — | — | — | — | .265 | .240 | .240 | .240 | .243 | .221 | .320 |
| .391 | .337 | .322 | .314 | .288 | .271 | .264 | .264 | .257 | .254 | .248 | .236 | .357 |
| .368 | .339 | .326 | .324 | .326 | .319 | .324 | .336 | .328 | .337 | .333 | .346 | .456 |
| .550 | .463 | .459 | .454 | .451 | .418 | .433 | .439 | .445 | .445 | .463 | .452 | .380 |
| .283 | .315 | .306 | .303 | .311 | .303 | .303 | .289 | .286 | .314 | .317 | .295 | .283 |
| .282 | .243 | .159 | .155 | .138 | .136 | .164 | .170 | .168 | .175 | .172 | .178 | .272 |
| .310 | .297 | .303 | .309 | .296 | .293 | — | — | — | — | — | — | .197 |
| — | — | — | — | — | — | .280 | .265 | .257 | .250 | .252 | .240 | .264 |
| .158 | .190 | .188 | .186 | .193 | .197 | .190 | .197 | .195 | .199 | .190 | .191 | .278 |
| .315 | .301 | .294 | .269 | .254 | .244 | .233 | .223 | .219 | .216 | .217 | .228 | .352 |
| .254 | .257 | .236 | .240 | .252 | .250 | .249 | .249 | .240 | .247 | .253 | .279 | .384 |
| .398 | .412 | .362 | .323 | .308 | .293 | .290 | .278 | .278 | .271 | .266 | .254 | .434 |
| .436 | .448 | .398 | .382 | .360 | .316 | .297 | .314 | .314 | .307 | .298 | .308 | .549 |
| .457 | .412 | .392 | .387 | .366 | .362 | — | — | — | — | — | — | .631 |
| — | — | — | — | — | — | .448 | .397 | .391 | .421 | .422 | .446 | .569 |
| .598 | .567 | .534 | .543 | .537 | .531 | .534 | .528 | .518 | .497 | .499 | .506 | .411 |
| .750 | .649 | .614 | .568 | .575 | .584 | .580 | .547 | .576 | .541 | .552 | .531 | .372 |
| .576 | .526 | .505 | .484 | .471 | .481 | .504 | .493 | .490 | .477 | .462 | .392 | .335 |
| .706 | .655 | .527 | .336 | .330 | .317 | .318 | .324 | .323 | .319 | .331 | .346 | .515 |
| .445 | .420 | .368 | .355 | .340 | .329 | .342 | .317 | .320 | .292 | .314 | .325 | .553 |
| .293 | .316 | .307 | .311 | .310 | .303 | — | — | — | — | — | — | .512 |
| — | — | — | — | — | — | .375 | .389 | .394 | .387 | .383 | .384 | .494 |
| .482 | .483 | .496 | .504 | .541 | .595 | .538 | .496 | .506 | .489 | .515 | .530 | .369 |
| .584 | .506 | .456 | .480 | .523 | .508 | .465 | .457 | .429 | .446 | .442 | .449 | 427 |
| .530 | .549 | .536 | .524 | .503 | .504 | .499 | .499 | .473 | .466 | .481 | .492 | — |
| .561 | .528 | .522 | .522 | .526 | .522 | .525 | .555 | .456 | .440 | .409 | .407 | — |
| .446 | .357 | .353 | .342 | .327 | .326 | .520 | .329 | .315 | .296 | .278 | .260 | — |
| .433 | .416 | .400 | .382 | .360 | .344 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .545 | .552 | .550 | .556 | .554 | .590 | — |
| .442 | .418 | .392 | .378 | .371 | .365 | .371 | .366 | .359 | .355 | .356 | .355 | .404 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | JULY. | 1 | 98 | 92 | 92 | 86 | 84 | 68 | 77 | 71 | 56 | 49 | 43 | 34 |
| | | 2 | 86 | 78 | 79 | 75 | 72 | 73 | 68 | 60 | 61 | 63 | 55 | 56 |
| | | 3 | 76 | 73 | 67 | 66 | 61 | 56 | 53 | 52 | 49 | 44 | 45 | 47 |
| | | 4 | 73 | 63 | 47 | 46 | 58 | 57 | 53 | 48 | 48 | 57 | 53 | 54 |
| | | 5 | 88 | 89 | 81 | 78 | 82 | 86 | 87 | 81 | 88 | 90 | 89 | 87 |
| | | 6 | 91 | 65 | 72 | 56 | 50 | 49 | 48 | 44 | 78 | 78 | 40 | 36 |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 8 | 85 | 81 | 72 | 65 | 64 | 63 | 56 | 51 | 48 | 47 | 51 | 59 |
| | | 9 | 95 | 87 | 81 | 77 | 70 | 70 | 64 | 56 | 62 | 67 | 75 | 78 |
| | | 10 | 96 | 89 | 82 | 68 | 67 | 68 | 66 | 67 | 64 | 64 | 64 | 63 |
| | | 11 | 81 | 72 | 67 | 63 | 62 | 60 | 54 | 60 | 57 | 57 | 54 | 49 |
| | | 12 | 77 | 77 | 76 | 72 | 65 | 58 | 54 | 53 | 55 | 54 | 54 | 57 |
| | | 13 | 87 | 75 | 83 | 87 | 80 | 78 | 74 | 71 | 62 | 61 | 63 | 67 |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | 75 | 75 | 66 | 56 | 55 | 55 | 57 | 60 | 65 | 71 | 77 | 82 |
| | | 16 | 92 | 91 | 90 | 87 | 82 | 82 | 85 | 80 | 73 | 77 | 75 | 75 |
| | | 17 | 81 | 79 | 74 | 69 | 62 | 47 | 40 | 65 | 61 | 61 | 56 | 54 |
| | | 18 | 85 | 77 | 80 | 82 | 81 | 78 | 74 | 74 | 73 | 70 | 70 | 70 |
| | | 19 | 90 | 87 | 87 | 87 | 89 | 86 | 88 | 75 | 70 | 67 | 70 | 66 |
| | | 20 | 83 | 76 | 78 | 76 | 93 | 69 | 68 | 66 | 63 | 66 | 59 | 61 |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 22 | 95 | 88 | 82 | 78 | 73 | 70 | 69 | 67 | 67 | 75 | 83 | 82 |
| | | 23 | 85 | 78 | 69 | 66 | 69 | 69 | 63 | 61 | 63 | 77 | 73 | 84 |
| | | 24 | 89 | 83 | 87 | 79 | 76 | 78 | 78 | 74 | 69 | 65 | 70 | 75 |
| | | 25 | 95 | 95 | 92 | 89 | 76 | 76 | 66 | 65 | 69 | 70 | 65 | 57 |
| | | 26 | 79 | 71 | 68 | 70 | 72 | 62 | 66 | 68 | 57 | 63 | 60 | 60 |
| | | 27 | 92 | 91 | 90 | 81 | 77 | 75 | 68 | 67 | 54 | 58 | 66 | 64 |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 29 | 88 | 92 | 87 | 82 | 79 | 77 | 72 | 66 | 68 | 64 | 60 | 64 |
| | | 30 | 98 | 97 | 97 | 95 | 95 | 97 | 96 | 94 | 94 | 97 | 98 | 99 |
| | | 31 | 99 | 98 | 88 | 83 | 75 | 83 | 82 | 74 | 68 | 73 | 87 | 95 |
| | | Hourly Means | | 87 | 82 | 79 | 75 | 73 | 70 | 68 | 65 | 65 | 66 | 65 |
| Tension of the Vapour. | JULY. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | | 1 | .655 | .682 | .693 | .684 | .668 | .670 | .699 | .666 | .595 | .549 | .513 | .404 |
| | | 2 | .352 | .420 | .465 | .481 | .497 | .549 | .539 | .518 | .508 | .533 | .522 | .460 |
| | | 3 | .384 | .393 | .406 | .401 | .400 | .382 | .372 | .369 | .343 | .299 | .304 | .325 |
| | | 4 | .240 | .233 | .197 | .206 | .278 | .280 | .275 | .272 | .275 | .336 | .368 | .398 |
| | | 5 | .340 | .386 | .392 | .386 | .408 | .439 | .446 | .458 | .489 | .480 | .473 | .459 |
| | | 6 | .600 | .442 | .535 | .454 | .429 | .437 | .448 | .429 | .370 | .376 | .381 | .331 |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 8 | .313 | .328 | .341 | .356 | .369 | .380 | .380 | .385 | .388 | .418 | .483 | .500 |
| | | 9 | .454 | .507 | .512 | .528 | .560 | .584 | .573 | .485 | .508 | .511 | .534 | .539 |
| | | 10 | .666 | .708 | .667 | .588 | .590 | .614 | .578 | .572 | .578 | .569 | .577 | .527 |
| | | 11 | .427 | .431 | .440 | .453 | .472 | .482 | .471 | .526 | .513 | .570 | .575 | .552 |
| | | 12 | .368 | .433 | .432 | .435 | .395 | .413 | .428 | .488 | .532 | .535 | .521 | .569 |
| | | 13 | .512 | .501 | .522 | .589 | .565 | .575 | .600 | .609 | .569 | .594 | .544 | .586 |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | .391 | .425 | .425 | .388 | .392 | .404 | .401 | .417 | .441 | .474 | .486 | .480 |
| | | 16 | .452 | .449 | .452 | .486 | .480 | .508 | .545 | .551 | .425 | .552 | .502 | .520 |
| | | 17 | .397 | .426 | .446 | .453 | .449 | .372 | .329 | .572 | .490 | .556 | .535 | .506 |
| | | 18 | .363 | .386 | .471 | .504 | .554 | .582 | .592 | .618 | .590 | .577 | .579 | .584 |
| | | 19 | .574 | .583 | .608 | .583 | .632 | .698 | .602 | .565 | .584 | .588 | .580 | .585 |
| | | 20 | .420 | .421 | .470 | .486 | .553 | .502 | .517 | .511 | .535 | .519 | .508 | .572 |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 22 | .488 | .537 | .539 | .566 | .596 | .653 | .645 | .658 | .670 | .692 | .742 | .749 |
| | | 23 | .524 | .498 | .479 | .491 | .533 | .576 | .541 | .564 | .557 | .567 | .596 | .583 |
| | | 24 | .469 | .450 | .480 | .480 | .486 | .544 | .543 | .549 | .527 | .503 | .498 | .519 |
| | | 25 | .482 | .480 | .500 | .510 | .460 | .493 | .452 | .493 | .468 | .483 | .496 | .537 |
| | | 26 | .383 | .374 | .383 | .419 | .431 | .407 | .441 | .480 | .433 | .477 | .500 | .507 |
| | | 27 | .397 | .470 | .536 | .513 | .523 | .537 | .518 | .532 | .447 | .500 | .608 | .492 |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 29 | .478 | .544 | .569 | .569 | .608 | .636 | .618 | .645 | .711 | .691 | .663 | .660 |
| | | 30 | .611 | .668 | .683 | .700 | .698 | .716 | .735 | .717 | .730 | .708 | .709 | .712 |
| | | 31 | .678 | .716 | .726 | .719 | .695 | .786 | .820 | .756 | .758 | .817 | .738 | .796 |
| Hourly Means | | .460 | .477 | .495 | .497 | .508 | .527 | .523 | .534 | .520 | .536 | .538 | .535 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 36 | 55 | 49 | 62 | 66 | 75 | 89 | 92 | 93 | 93 | 90 | 95 | 73 |
| 55 | 58 | 70 | 70 | 76 | 82 | 85 | 77 | 82 | 77 | 86 | 87 | 72 |
| 46 | 49 | 53 | 58 | 62 | 68 | 73 | 76 | 89 | 91 | 99 | 87 | 64 |
| 55 | 66 | 80 | 84 | 86 | 81 | 77 | 82 | 89 | 94 | 94 | 93 | 68 |
| 91 | 93 | 95 | 96 | 96 | 97 | 97 | 97 | 97 | 100 | 99 | 98 | 91 |
| 38 | 52 | 53 | 58 | 61 | 63 | — | — | — | — | — | — | 66 |
| — | — | — | — | — | — | 92 | 90 | 92 | 93 | 95 | 90 | 74 |
| 63 | 72 | 77 | 80 | 89 | 93 | 96 | 95 | 90 | 88 | 92 | 93 | 83 |
| 83 | 83 | 86 | 93 | 95 | 96 | 95 | 95 | 93 | 98 | 98 | 97 | 75 |
| 70 | 78 | 80 | 81 | 79 | 78 | 77 | 78 | 81 | 81 | 83 | 83 | 69 |
| 49 | 54 | 67 | 67 | 72 | 78 | 87 | 90 | 90 | 95 | 86 | 83 | 67 |
| 63 | 59 | 58 | 58 | 68 | 74 | 78 | 76 | 71 | 80 | 84 | 89 | 76 |
| 67 | 76 | 83 | 87 | 89 | 89 | — | — | — | — | — | — | 79 |
| — | — | — | — | — | — | 79 | 73 | 71 | 73 | 71 | 74 | 84 |
| 82 | 86 | 84 | 92 | 96 | 94 | 94 | 93 | 94 | 94 | 94 | 95 | 70 |
| 70 | 76 | 85 | 89 | 91 | 90 | 97 | 95 | 92 | 83 | 81 | 84 | 80 |
| 55 | 68 | 69 | 71 | 75 | 75 | 80 | 88 | 86 | 90 | 91 | 86 | 78 |
| 68 | 76 | 81 | 80 | 82 | 84 | 86 | 88 | 92 | 95 | 92 | 93 | 83 |
| 68 | 76 | 66 | 70 | 71 | 71 | 74 | 75 | 81 | 81 | 85 | 83 | 78 |
| 59 | 71 | 80 | 76 | 87 | 83 | — | — | — | — | — | — | 78 |
| — | — | — | — | — | — | 93 | 95 | 93 | 95 | 95 | 94 | 83 |
| 82 | 89 | 96 | 92 | 86 | 88 | 91 | 80 | 82 | 88 | 89 | 88 | 81 |
| 90 | 91 | 93 | 93 | 95 | 93 | 89 | 86 | 84 | 88 | 86 | 89 | 84 |
| 78 | 81 | 86 | 85 | 94 | 91 | 94 | 94 | 96 | 96 | 95 | 95 | 81 |
| 60 | 66 | 89 | 91 | 91 | 90 | 91 | 92 | 91 | 88 | 90 | 95 | 77 |
| 66 | 82 | 88 | 88 | 88 | 89 | 91 | 90 | 92 | 90 | 88 | 93 | 79 |
| 69 | 78 | 77 | 78 | 85 | 75 | — | — | — | — | — | — | 82 |
| — | — | — | — | — | — | 92 | 92 | 85 | 94 | 93 | 96 | 97 |
| 72 | 77 | 79 | 84 | 91 | 93 | 94 | 96 | 95 | 98 | 98 | 99 | 85 |
| 98 | 97 | 99 | 99 | 99 | 98 | 98 | 97 | 97 | 97 | 97 | 99 | 78 |
| 95 | 77 | 75 | 93 | 76 | 74 | 82 | 93 | 94 | 96 | 96 | 95 | 78 |
| 68 | 74 | 78 | 81 | 83 | 84 | 88 | 88 | 89 | 90 | 90 | 91 | 78 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .409 | .410 | .362 | .394 | .352 | .376 | .376 | .390 | .369 | .354 | .363 | .364 | .500 |
| .418 | .422 | .471 | .440 | .435 | .443 | .439 | .427 | .432 | .424 | .394 | .387 | .457 |
| .303 | .278 | .250 | .251 | .257 | .268 | .266 | .246 | .242 | .235 | .228 | .225 | .309 |
| .395 | .379 | .335 | .317 | .319 | .310 | .293 | .293 | .284 | .277 | .270 | .282 | .296 |
| .470 | .481 | .494 | .496 | .509 | .477 | .518 | .537 | .518 | .538 | .516 | .542 | .469 |
| .345 | .421 | .345 | .338 | .322 | .314 | — | — | — | — | — | — | .376 |
| — | — | — | — | — | — | .290 | .284 | .285 | .287 | .286 | .282 | .406 |
| .500 | .482 | .452 | .485 | .430 | .423 | .415 | .413 | .386 | .340 | .396 | .388 | .555 |
| .636 | .624 | .594 | .559 | .549 | .571 | .564 | .564 | .553 | .592 | .602 | .620 | .526 |
| .481 | .476 | .471 | .472 | .469 | .456 | .438 | .437 | .430 | .426 | .421 | .420 | .447 |
| .515 | .496 | .452 | .416 | .408 | .398 | .382 | .345 | .355 | .382 | .336 | .331 | .449 |
| .552 | .448 | .382 | .360 | .382 | .406 | .416 | .435 | .441 | .453 | .475 | .485 | .510 |
| .576 | .556 | .523 | .514 | .510 | .518 | — | — | — | — | — | — | .449 |
| — | — | — | — | — | — | .393 | .388 | .387 | .374 | .367 | .373 | .449 |
| .461 | .468 | .453 | .490 | .501 | .471 | .468 | .468 | .471 | .463 | .467 | .462 | .480 |
| .616 | .547 | .508 | .500 | .489 | .468 | .453 | .427 | .427 | .403 | .385 | .385 | .411 |
| .486 | .514 | .397 | .358 | .338 | .327 | .336 | .325 | .319 | .321 | .315 | .302 | .539 |
| .596 | .561 | .548 | .548 | .538 | .528 | .543 | .538 | .521 | .516 | .550 | .550 | .511 |
| .509 | .513 | .407 | .406 | .391 | .389 | .397 | .405 | .424 | .422 | .409 | .401 | .469 |
| .566 | .542 | .523 | .378 | .377 | .356 | — | — | — | — | — | — | .614 |
| — | — | — | — | — | — | .442 | .426 | .407 | .413 | .408 | .403 | .539 |
| .808 | .745 | .724 | .705 | .583 | .566 | .554 | .480 | .491 | .523 | .514 | .515 | .477 |
| .614 | .654 | .615 | .578 | .568 | .546 | .489 | .472 | .465 | .470 | .468 | .477 | .506 |
| .502 | .490 | .497 | .505 | .519 | .509 | .514 | .513 | .516 | .520 | .511 | .492 | .459 |
| .539 | .506 | .457 | .430 | .405 | .386 | .389 | .395 | .415 | .410 | .416 | .412 | .419 |
| .580 | .535 | .435 | .403 | .382 | .367 | .364 | .358 | .356 | .348 | .340 | .346 | .465 |
| .601 | .520 | .409 | .367 | .354 | .338 | — | — | — | — | — | — | .600 |
| — | — | — | — | — | — | .440 | .433 | .395 | .421 | .403 | .405 | .686 |
| .654 | .642 | .615 | .627 | .605 | .557 | .536 | .535 | .529 | .567 | .567 | .573 | .655 |
| .682 | .686 | .680 | .674 | .675 | .677 | .677 | .676 | .671 | .668 | .668 | .647 | — |
| .818 | .691 | .530 | .578 | .541 | .544 | .507 | .532 | .509 | .495 | .485 | .476 | — |
| .542 | .522 | .479 | .466 | .454 | .444 | .441 | .435 | .430 | .431 | .428 | .428 | — |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|--|---------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| Hours of Mean Göttingen Time. } Hours of Mean Toronto Time. } | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | AUGUST. | 1 | 96 | 92 | 84 | 83 | 84 | 85 | 85 | 79 | 76 | 75 | 72 | 79 | |
| | | 2 | 91 | 86 | 79 | 75 | 70 | 57 | 58 | 58 | 53 | 54 | 50 | 51 | |
| | | 3 | 91 | 86 | 87 | 86 | 84 | 80 | 77 | 75 | 74 | 75 | 85 | 83 | |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 5 | 95 | 85 | 81 | 77 | 75 | 75 | 78 | 68 | 73 | 76 | 76 | 76 | 82 |
| | | 6 | 97 | 93 | 89 | 83 | 87 | 84 | 95 | 82 | 68 | 68 | 61 | 61 | 54 |
| | | 7 | 93 | 82 | 73 | 78 | 77 | 74 | 72 | 91 | 63 | 62 | 62 | 62 | 53 |
| | | 8 | 95 | 95 | 86 | 88 | 77 | 75 | 72 | 80 | 74 | 77 | 72 | 72 | 72 |
| | | 9 | 87 | 84 | 76 | 75 | 76 | 65 | 64 | 68 | 72 | 76 | 81 | 76 | 76 |
| | | 10 | 89 | 80 | 74 | 66 | 77 | 76 | 72 | 52 | 50 | 46 | 41 | 52 | 52 |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 12 | 81 | 77 | 70 | 68 | 64 | 57 | 63 | 64 | 65 | 67 | 64 | 63 | 63 |
| | | 13 | 95 | 93 | 87 | 84 | 82 | 80 | 78 | 76 | 74 | 67 | 70 | 71 | 71 |
| | | 14 | 91 | 96 | 93 | 94 | 91 | 91 | 89 | 88 | 79 | 75 | 73 | 69 | 69 |
| | | 15 | 97 | 98 | 93 | 91 | 87 | 82 | 79 | 78 | 75 | 78 | 77 | 78 | 78 |
| | | 16 | 97 | 97 | 92 | 84 | 86 | 86 | 78 | 58 | 78 | 85 | 76 | 65 | 65 |
| | | 17 | 86 | 83 | 72 | 69 | 61 | 50 | 44 | 65 | 66 | 68 | 69 | 48 | 48 |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 19 | 97 | 96 | 97 | 96 | 91 | 91 | 89 | 87 | 94 | 84 | 79 | 75 | 75 |
| | | 20 | 93 | 92 | 97 | 88 | 83 | 81 | 78 | 79 | 76 | 71 | 63 | 52 | 52 |
| | | 21 | 66 | 70 | 72 | 76 | 75 | 73 | 65 | 61 | 56 | 56 | 57 | 57 | 57 |
| | | 22 | 77 | 78 | 82 | 82 | 83 | 93 | 96 | 95 | 91 | 84 | 84 | 91 | 91 |
| | | 23 | 98 | 98 | 95 | 84 | 75 | 66 | 61 | 53 | 48 | 50 | 52 | 48 | 48 |
| | | 24 | 96 | 86 | 82 | 81 | 70 | 77 | 54 | 52 | 64 | 68 | 61 | 65 | 65 |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | 95 | 93 | 89 | 83 | 86 | 81 | 80 | 77 | 76 | 74 | 77 | 82 | 82 |
| | | 27 | 96 | 94 | 90 | 83 | 78 | 81 | 84 | 87 | 91 | 81 | 81 | 73 | 73 |
| | | 28 | 94 | 93 | 89 | 90 | 81 | 86 | 84 | 73 | 89 | 87 | 79 | 79 | 79 |
| | | 29 | 93 | 93 | 88 | 83 | 76 | 70 | 66 | 67 | 71 | 66 | 64 | 62 | 62 |
| | | 30 | 93 | 93 | 89 | 84 | 86 | 74 | 76 | 80 | 86 | 93 | 89 | 93 | 93 |
| | | 31 | 96 | 94 | 92 | 85 | 84 | 88 | 82 | 80 | 78 | 78 | 76 | 72 | 72 |
| | | 32 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | 92 | 89 | 85 | 82 | 79 | 77 | 75 | 73 | 73 | 72 | 70 | 68 |
| Tension of the Vapour. | AUGUST. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | | |
| | | 1 | .512 | .531 | .545 | .570 | .632 | .659 | .707 | .735 | .693 | .769 | .779 | .753 | |
| | | 2 | .428 | .594 | .500 | .512 | .514 | .449 | .458 | .473 | .456 | .463 | .459 | .476 | |
| | | 3 | .394 | .406 | .463 | .510 | .568 | .582 | .601 | .610 | .556 | .540 | .565 | .588 | |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 5 | .320 | .362 | .388 | .425 | .470 | .491 | .543 | .514 | .589 | .577 | .544 | .569 | |
| | | 6 | .518 | .528 | .527 | .523 | .596 | .639 | .597 | .586 | .551 | .513 | .457 | .437 | |
| | | 7 | .348 | .375 | .395 | .481 | .515 | .544 | .595 | .554 | .533 | .514 | .514 | .468 | |
| | | 8 | .548 | .564 | .551 | .603 | .581 | .594 | .603 | .637 | .658 | .748 | .715 | .684 | |
| | | 9 | .575 | .568 | .575 | .576 | .609 | .600 | .600 | .610 | .642 | .678 | .629 | .709 | |
| | | 10 | .430 | .425 | .420 | .392 | .475 | .511 | .500 | .391 | .378 | .380 | .331 | .349 | |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 12 | .303 | .329 | .329 | .352 | .359 | .344 | .422 | .419 | .459 | .436 | .468 | .469 | |
| | | 13 | .379 | .395 | .413 | .474 | .500 | .511 | .523 | .522 | .527 | .450 | .448 | .452 | |
| | | 14 | .445 | .499 | .523 | .547 | .562 | .587 | .594 | .598 | .635 | .600 | .577 | .542 | |
| | | 15 | .528 | .587 | .615 | .629 | .638 | .655 | .641 | .690 | .700 | .642 | .633 | .667 | |
| | | 16 | .507 | .581 | .635 | .645 | .684 | .725 | .744 | .757 | .687 | .797 | .697 | .616 | |
| | | 17 | .504 | .515 | .478 | .480 | .465 | .406 | .391 | .571 | .569 | .612 | .605 | .395 | |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 19 | .607 | .617 | .627 | .671 | .679 | .737 | .760 | .723 | .776 | .794 | .795 | .761 | |
| | | 20 | .612 | .620 | .658 | .565 | .547 | .513 | .491 | .482 | .513 | .502 | .451 | .402 | |
| | | 21 | .268 | .303 | .334 | .374 | .401 | .410 | .380 | .385 | .356 | .376 | .404 | .387 | |
| | | 22 | .398 | .423 | .430 | .434 | .450 | .485 | .513 | .551 | .675 | .734 | .704 | .698 | |
| | | 23 | .592 | .625 | .630 | .574 | .464 | .455 | .444 | .395 | .381 | .402 | .423 | .374 | |
| | | 24 | .323 | .347 | .380 | .426 | .413 | .508 | .348 | .380 | .384 | .405 | .365 | .379 | |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 26 | .319 | .349 | .400 | .412 | .466 | .465 | .480 | .490 | .490 | .456 | .424 | .419 | |
| | | 27 | .405 | .411 | .419 | .418 | .416 | .425 | .449 | .502 | .453 | .516 | .447 | .473 | |
| | | 28 | .386 | .403 | .427 | .452 | .483 | .508 | .508 | .379 | .450 | .508 | .490 | .459 | |
| | | 29 | .389 | .397 | .413 | .461 | .446 | .436 | .444 | .446 | .505 | .451 | .477 | .456 | |
| | | 30 | .343 | .372 | .403 | .448 | .500 | .466 | .504 | .577 | .535 | .559 | .554 | .557 | |
| | | 31 | .516 | .531 | .543 | .529 | .601 | .610 | .586 | .603 | .593 | .627 | .630 | .665 | |
| | | 32 | — | — | — | — | — | — | — | — | — | — | — | — | |
| Hourly Means | | .441 | .465 | .490 | .499 | .520 | .530 | .534 | .537 | .546 | .557 | .540 | .526 | | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 79 | 65 | 74 | 80 | 80 | 72 | 78 | 89 | 91 | 89 | 88 | 90 | 82 |
| 50 | 56 | 72 | 74 | 76 | 78 | 77 | 80 | 88 | 90 | 90 | 86 | 71 |
| 83 | 75 | 96 | 94 | 91 | 91 | — | — | — | — | — | — | 86 |
| — | — | — | — | — | — | 86 | 89 | 91 | 91 | 93 | 89 | 84 |
| 73 | 72 | 72 | 89 | 94 | 96 | 96 | 95 | 97 | 97 | 97 | 97 | 78 |
| 64 | 56 | 64 | 75 | 77 | 79 | 80 | 75 | 80 | 86 | 91 | 93 | 81 |
| 65 | 80 | 80 | 85 | 83 | 86 | 92 | 97 | 97 | 96 | 97 | 95 | 86 |
| 82 | 87 | 93 | 96 | 93 | 90 | 95 | 95 | 95 | 94 | 95 | 90 | 77 |
| 80 | 77 | 80 | 82 | 72 | 69 | 74 | 80 | 76 | 89 | 86 | 87 | 69 |
| 43 | 52 | 73 | 80 | 71 | 77 | — | — | — | — | — | — | 79 |
| — | — | — | — | — | — | 74 | 78 | 88 | 83 | 89 | 84 | 83 |
| 74 | 87 | 91 | 91 | 91 | 93 | 93 | 93 | 94 | 91 | 95 | 95 | 88 |
| 74 | 83 | 85 | 82 | 88 | 88 | 89 | 89 | 87 | 92 | 91 | 95 | 89 |
| 71 | 77 | 84 | 88 | 95 | 97 | 96 | 95 | 97 | 97 | 97 | 97 | 85 |
| 81 | 90 | 95 | 95 | 96 | 96 | 95 | 95 | 95 | 92 | 97 | 97 | 72 |
| 77 | 83 | 89 | 88 | 89 | 89 | 88 | 91 | 96 | 95 | 92 | 91 | 91 |
| 53 | 55 | 59 | 64 | 63 | 66 | — | — | — | — | — | — | 72 |
| — | — | — | — | — | — | 97 | 97 | 99 | 97 | 99 | 98 | 91 |
| 80 | 84 | 100 | 82 | 87 | 92 | 96 | 97 | 97 | 96 | 96 | 96 | 76 |
| 55 | 63 | 90 | 91 | 76 | 78 | 76 | 75 | 62 | 66 | 65 | 64 | 70 |
| 62 | 76 | 81 | 81 | 73 | 77 | 76 | 71 | 74 | 74 | 72 | 72 | 91 |
| 90 | 92 | 97 | 98 | 98 | 98 | 97 | 97 | 98 | 99 | 98 | 97 | 74 |
| 52 | 60 | 67 | 80 | 80 | 81 | 83 | 90 | 90 | 86 | 81 | 91 | 79 |
| 68 | 77 | 82 | 82 | 89 | 90 | — | — | — | — | — | — | 87 |
| — | — | — | — | — | — | 90 | 94 | 92 | 94 | 95 | 95 | 89 |
| 82 | 89 | 92 | 91 | 91 | 93 | 93 | 92 | 94 | 93 | 93 | 96 | 88 |
| 73 | 94 | 93 | 92 | 94 | 96 | 97 | 95 | 95 | 92 | 92 | 95 | 88 |
| 86 | 87 | 88 | 90 | 91 | 91 | 93 | 93 | 92 | 90 | 92 | 92 | 82 |
| 72 | 68 | 83 | 87 | 91 | 90 | 91 | 96 | 95 | 95 | 96 | 96 | 90 |
| 92 | 95 | 95 | 89 | 94 | 95 | 95 | 97 | 94 | 96 | 96 | 96 | 89 |
| 76 | 89 | 96 | 95 | 95 | 97 | — | — | — | — | — | — | 89 |
| — | — | — | — | — | — | 95 | 96 | 97 | 97 | 97 | 98 | 82 |
| 72 | 77 | 84 | 86 | 86 | 87 | 89 | 90 | 91 | 91 | 91 | 92 | 82 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .753 | .557 | .553 | .554 | .511 | .422 | .420 | .405 | .395 | .386 | .371 | .386 | .567 |
| .450 | .429 | .436 | .420 | .407 | .390 | .375 | .355 | .365 | .352 | .358 | .341 | .432 |
| .557 | .487 | .532 | .515 | .498 | .493 | — | — | — | — | — | — | .470 |
| — | — | — | — | — | — | .307 | .310 | .308 | .303 | .302 | .285 | .492 |
| .483 | .442 | .434 | .479 | .486 | .512 | .531 | .533 | .525 | .539 | .522 | .518 | .447 |
| .460 | .383 | .357 | .370 | .352 | .338 | .336 | .327 | .336 | .333 | .329 | .328 | .502 |
| .495 | .531 | .501 | .507 | .495 | .509 | .525 | .539 | .539 | .525 | .522 | .518 | .619 |
| .673 | .635 | .627 | .616 | .583 | .576 | .618 | .618 | .618 | .603 | .605 | .604 | .557 |
| .605 | .628 | .611 | .577 | .504 | .453 | .456 | .461 | .416 | .450 | .413 | .415 | .364 |
| .344 | .361 | .366 | .346 | .330 | .340 | — | — | — | — | — | — | .380 |
| — | — | — | — | — | — | .284 | .283 | .296 | .269 | .260 | .282 | .459 |
| .465 | .432 | .406 | .390 | .383 | .378 | .362 | .337 | .326 | .308 | .316 | .325 | .524 |
| .466 | .460 | .451 | .424 | .446 | .453 | .441 | .445 | .444 | .466 | .460 | .470 | .579 |
| .532 | .496 | .497 | .469 | .487 | .476 | .472 | .466 | .466 | .487 | .501 | .522 | .642 |
| .626 | .574 | .579 | .533 | .516 | .516 | .501 | .505 | .501 | .462 | .482 | .479 | .485 |
| .610 | .670 | .670 | .627 | .610 | .606 | .588 | .634 | .629 | .602 | .562 | .524 | .671 |
| .372 | .350 | .348 | .355 | .354 | .331 | — | — | — | — | — | — | .439 |
| — | — | — | — | — | — | .541 | .574 | .605 | .604 | .614 | .608 | .368 |
| .788 | .749 | .708 | .631 | .627 | .602 | .590 | .581 | .585 | .583 | .558 | .558 | .574 |
| .416 | .446 | .446 | .408 | .356 | .352 | .342 | .326 | .279 | .279 | .271 | .254 | .406 |
| .403 | .382 | .374 | .374 | .354 | .378 | .371 | .346 | .362 | .373 | .367 | .374 | .369 |
| .632 | .609 | .608 | .610 | .631 | .613 | .642 | .624 | .621 | .600 | .567 | .531 | .418 |
| .373 | .337 | .335 | .351 | .340 | .339 | .327 | .328 | .321 | .315 | .320 | .306 | .411 |
| .376 | .390 | .387 | .383 | .377 | .378 | — | — | — | — | — | — | .431 |
| — | — | — | — | — | — | .346 | .325 | .333 | .307 | .308 | .297 | .410 |
| .493 | .415 | .419 | .416 | .403 | .400 | .404 | .400 | .400 | .398 | .398 | .403 | .502 |
| .426 | .436 | .397 | .371 | .356 | .356 | .350 | .369 | .364 | .353 | .370 | .379 | .571 |
| .466 | .436 | .410 | .405 | .408 | .401 | .406 | .398 | .388 | .378 | .394 | .396 | .485 |
| .487 | .386 | .408 | .390 | .366 | .370 | .346 | .345 | .332 | .321 | .333 | .336 | .418 |
| .543 | .538 | .526 | .504 | .504 | .514 | .520 | .514 | .515 | .517 | .520 | .516 | .431 |
| .588 | .517 | .507 | .476 | .479 | .493 | — | — | — | — | — | — | .410 |
| — | — | — | — | — | — | .605 | .594 | .592 | .602 | .607 | .608 | .502 |
| .511 | .484 | .477 | .463 | .450 | .444 | .445 | .442 | .439 | .434 | .427 | .428 | .485 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | SEPTEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | | 2 | 98 | 96 | 93 | 94 | 94 | 95 | 94 | 89 | 86 | 78 | 59 | 58 |
| | | 3 | 86 | 81 | 75 | 71 | 65 | 57 | 58 | 56 | 50 | 48 | 41 | 70 |
| | | 4 | 83 | 82 | 74 | 70 | 61 | 57 | 53 | 48 | 46 | 41 | 42 | 43 |
| | | 5 | 84 | 89 | 69 | 69 | 52 | 66 | 64 | 61 | 59 | 65 | 67 | 67 |
| | | 6 | 96 | 94 | 91 | 85 | 83 | 80 | 79 | 77 | 75 | 72 | 72 | 72 |
| | | 7 | 96 | 94 | 88 | 83 | 82 | 77 | 76 | 78 | 75 | 72 | 75 | 75 |
| | | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 9 | 96 | 97 | 95 | 95 | 96 | 95 | 92 | 87 | 91 | 84 | 85 | 61 |
| | | 10 | 94 | 95 | 93 | 92 | 91 | 88 | 83 | 83 | 79 | 79 | 78 | 82 |
| | | 11 | 99 | 96 | 97 | 93 | 82 | 90 | 87 | 85 | 84 | 83 | 92 | 90 |
| | | 12 | 88 | 86 | 85 | 84 | 79 | 75 | 72 | 78 | 76 | 79 | 77 | 74 |
| | | 13 | 94 | 90 | 82 | 78 | 69 | 72 | 70 | 69 | 55 | 62 | 61 | 65 |
| | | 14 | 96 | 97 | 90 | 86 | 86 | 87 | 78 | 69 | 70 | 70 | 72 | 70 |
| | | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 16 | 96 | 96 | 95 | 91 | 80 | 74 | 71 | 67 | 64 | 65 | 65 | 67 |
| | | 17 | 92 | 91 | 89 | 87 | 82 | 76 | 75 | 72 | 68 | 71 | 67 | 64 |
| | | 18 | 79 | 83 | 64 | 56 | 51 | 61 | 64 | 62 | 59 | 60 | 61 | 68 |
| | | 19 | 95 | 96 | 82 | 82 | 77 | 76 | 73 | 71 | 66 | 77 | 78 | 76 |
| | | 20 | 97 | 98 | 95 | 91 | 89 | 83 | 75 | 67 | 62 | 59 | 59 | 61 |
| | | 21 | 84 | 85 | 79 | 73 | 61 | 57 | 73 | 34 | 37 | 41 | 44 | 54 |
| | | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 23 | 73 | 76 | 72 | 69 | 74 | 81 | 72 | 65 | 68 | 69 | 68 | 61 |
| | | 24 | 86 | 89 | 82 | 77 | 75 | 71 | 70 | 69 | 68 | 75 | 54 | 67 |
| | | 25 | 94 | 66 | 93 | 87 | 83 | 78 | 75 | 67 | 76 | 73 | 78 | 80 |
| | | 26 | 90 | 87 | 81 | 82 | 63 | 57 | 51 | 48 | 48 | 54 | 47 | 56 |
| | | 27 | 88 | 78 | 72 | 58 | 55 | 60 | 50 | 79 | 50 | 49 | 48 | 51 |
| | | 28 | 81 | 78 | 62 | 54 | 65 | 65 | 63 | 69 | 68 | 66 | 66 | 71 |
| | | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 30 | 82 | 87 | 84 | 78 | 71 | 60 | 52 | 50 | 52 | 55 | 55 | 53 |
| | | Hourly Means | | 90 | 88 | 83 | 79 | 75 | 74 | 71 | 68 | 65 | 66 | 64 |
| Tension of the Vapour. | SEPTEMBER. | 1 | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | | 2 | .611 | .620 | .640 | .649 | .656 | .651 | .681 | .753 | .733 | .732 | .619 | .599 |
| | | 3 | .381 | .397 | .415 | .429 | .417 | .398 | .421 | .400 | .399 | .389 | .395 | .488 |
| | | 4 | .372 | .401 | .402 | .408 | .380 | .377 | .363 | .339 | .332 | .302 | .301 | .310 |
| | | 5 | .338 | .372 | .360 | .368 | .327 | .386 | .376 | .385 | .367 | .418 | .422 | .403 |
| | | 6 | .365 | .420 | .501 | .508 | .513 | .516 | .525 | .542 | .552 | .531 | .532 | .513 |
| | | 7 | .370 | .476 | .487 | .486 | .501 | .508 | .532 | .544 | .535 | .520 | .520 | .514 |
| | | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 9 | .501 | .539 | .541 | .563 | .583 | .622 | .610 | .617 | .629 | .642 | .637 | .583 |
| | | 10 | .475 | .494 | .524 | .544 | .530 | .565 | .600 | .641 | .609 | .584 | .644 | .627 |
| | | 11 | .524 | .527 | .550 | .572 | .520 | .585 | .585 | .635 | .632 | .576 | .604 | .574 |
| | | 12 | .431 | .437 | .451 | .464 | .485 | .511 | .500 | .604 | .582 | .579 | .584 | .577 |
| | | 13 | .321 | .381 | .420 | .450 | .427 | .486 | .483 | .496 | .419 | .471 | .464 | .545 |
| | | 14 | .356 | .428 | .475 | .511 | .552 | .609 | .589 | .563 | .585 | .627 | .649 | .654 |
| | | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 16 | .413 | .478 | .539 | .600 | .611 | .614 | .616 | .604 | .595 | .620 | .658 | .663 |
| | | 17 | .423 | .453 | .519 | .580 | .607 | .568 | .628 | .646 | .656 | .704 | .672 | .611 |
| | | 18 | .322 | .353 | .322 | .309 | .311 | .393 | .430 | .425 | .423 | .436 | .449 | .509 |
| | | 19 | .284 | .331 | .375 | .432 | .477 | .527 | .550 | .598 | .601 | .658 | .678 | .668 |
| | | 20 | .476 | .576 | .618 | .637 | .670 | .686 | .710 | .658 | .633 | .592 | .580 | .568 |
| | | 21 | .558 | .580 | .584 | .574 | .460 | .387 | .450 | .199 | .200 | .212 | .216 | .265 |
| | | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 23 | .190 | .205 | .222 | .250 | .284 | .360 | .309 | .278 | .293 | .284 | .269 | .236 |
| | | 24 | .247 | .265 | .273 | .290 | .291 | .304 | .300 | .307 | .318 | .360 | .282 | .310 |
| | | 25 | .213 | .167 | .254 | .277 | .296 | .309 | .302 | .260 | .285 | .270 | .273 | .276 |
| | | 26 | .208 | .217 | .224 | .247 | .225 | .214 | .200 | .185 | .192 | .211 | .190 | .198 |
| | | 27 | .143 | .158 | .166 | .158 | .162 | .180 | .165 | .163 | .168 | .168 | .167 | .170 |
| | | 28 | .164 | .169 | .158 | .150 | .200 | .210 | .225 | .247 | .244 | .230 | .221 | .230 |
| | | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 30 | .221 | .235 | .268 | .285 | .314 | .298 | .267 | .259 | .257 | .250 | .230 | .207 |
| | | Hourly Means | | .356 | .387 | .412 | .430 | .432 | .451 | .457 | .454 | .450 | .455 | .450 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 54 | 59 | 63 | 65 | 64 | 65 | 70 | 79 | 79 | 83 | 85 | 85 | 79 |
| 51 | 94 | 62 | 72 | 77 | 77 | 81 | 81 | 83 | 85 | 89 | 86 | 71 |
| 45 | 51 | 52 | 57 | 68 | 68 | 76 | 80 | 81 | 81 | 84 | 87 | 64 |
| 70 | 80 | 81 | 87 | 96 | 92 | 93 | 93 | 93 | 96 | 98 | 96 | 79 |
| 74 | 81 | 83 | 88 | 92 | 91 | 93 | 95 | 93 | 96 | 96 | 96 | 86 |
| 82 | 87 | 91 | 92 | 93 | 94 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 92 | 93 | 94 | 92 | 95 | 96 | 86 |
| 87 | 95 | 88 | 91 | 89 | 90 | 90 | 92 | 92 | 92 | 95 | 95 | 90 |
| 76 | 93 | 95 | 96 | 96 | 96 | 97 | 97 | 97 | 97 | 97 | 99 | 91 |
| 88 | 93 | 90 | 88 | 90 | 90 | 90 | 88 | 88 | 89 | 87 | 88 | 89 |
| 78 | 91 | 94 | 93 | 93 | 92 | 87 | 84 | 83 | 85 | 90 | 94 | 84 |
| 76 | 84 | 89 | 92 | 90 | 90 | 96 | 96 | 95 | 96 | 96 | 95 | 82 |
| 71 | 89 | 92 | 89 | 92 | 94 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 97 | 95 | 92 | 96 | 96 | 97 | 86 |
| 80 | 85 | 80 | 89 | 88 | 82 | 85 | 87 | 84 | 83 | 91 | 91 | 82 |
| 74 | 82 | 89 | 90 | 91 | 87 | 79 | 65 | 53 | 61 | 68 | 76 | 77 |
| 81 | 86 | 86 | 81 | 83 | 87 | 90 | 94 | 93 | 94 | 93 | 94 | 76 |
| 82 | 86 | 87 | 88 | 93 | 95 | 93 | 96 | 96 | 96 | 96 | 98 | 86 |
| 84 | 72 | 78 | 87 | 91 | 93 | 96 | 95 | 95 | 92 | 89 | 88 | 83 |
| 86 | 69 | 62 | 69 | 67 | 72 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 80 | 69 | 72 | 70 | 73 | 82 | 66 |
| 62 | 69 | 67 | 70 | 74 | 79 | 83 | 90 | 83 | 84 | 83 | 84 | 74 |
| 68 | 76 | 72 | 67 | 71 | 82 | 87 | 90 | 90 | 92 | 93 | 96 | 78 |
| 83 | 85 | 87 | 83 | 82 | 79 | 76 | 75 | 82 | 83 | 84 | 87 | 81 |
| 63 | 71 | 69 | 65 | 62 | 71 | 68 | 81 | 76 | 74 | 81 | 88 | 68 |
| 65 | 74 | 72 | 73 | 76 | 76 | 76 | 78 | 79 | 79 | 77 | 78 | 68 |
| 72 | 71 | 72 | 76 | 75 | 80 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 81 | 83 | 87 | 87 | 85 | 88 | 74 |
| 56 | 61 | 65 | 68 | 71 | 73 | 75 | 78 | 76 | 75 | 74 | 72 | 68 |
| 72 | 79 | 79 | 81 | 83 | 84 | 85 | 86 | 85 | 86 | 88 | 89 | 79 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| ·488 | ·436 | ·409 | ·383 | ·357 | ·356 | ·363 | ·370 | ·369 | ·368 | ·371 | ·371 | ·524 |
| ·422 | ·637 | ·363 | ·368 | ·359 | ·349 | ·349 | ·345 | ·351 | ·354 | ·317 | ·333 | ·395 |
| ·295 | ·274 | ·253 | ·253 | ·282 | ·280 | ·311 | ·317 | ·323 | ·333 | ·333 | ·339 | ·328 |
| ·386 | ·388 | ·360 | ·394 | ·408 | ·395 | ·407 | ·400 | ·383 | ·364 | ·359 | ·361 | ·380 |
| ·483 | ·472 | ·467 | ·472 | ·454 | ·421 | ·406 | ·405 | ·369 | ·405 | ·382 | ·365 | ·463 |
| ·490 | ·487 | ·453 | ·424 | ·423 | ·418 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·527 | ·530 | ·536 | ·513 | ·501 | ·485 | ·491 |
| ·585 | ·535 | ·503 | ·496 | ·472 | ·463 | ·461 | ·466 | ·468 | ·464 | ·449 | ·466 | ·537 |
| ·539 | ·521 | ·484 | ·475 | ·507 | ·495 | ·537 | ·537 | ·537 | ·537 | ·531 | ·530 | ·544 |
| ·556 | ·546 | ·527 | ·522 | ·512 | ·498 | ·489 | ·472 | ·466 | ·450 | ·445 | ·442 | ·534 |
| ·530 | ·493 | ·469 | ·442 | ·454 | ·435 | ·415 | ·393 | ·366 | ·356 | ·338 | ·329 | ·468 |
| ·453 | ·434 | ·393 | ·384 | ·369 | ·355 | ·368 | ·377 | ·347 | ·354 | ·351 | ·341 | ·412 |
| ·552 | ·563 | ·552 | ·524 | ·534 | ·510 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·491 | ·476 | ·452 | ·429 | ·418 | ·411 | ·521 |
| ·601 | ·540 | ·504 | ·487 | ·457 | ·403 | ·411 | ·421 | ·397 | ·390 | ·400 | ·394 | ·517 |
| ·608 | ·615 | ·558 | ·525 | ·522 | ·566 | ·530 | ·424 | ·308 | ·322 | ·340 | ·333 | ·530 |
| ·438 | ·409 | ·384 | ·387 | ·362 | ·353 | ·344 | ·336 | ·309 | ·307 | ·299 | ·294 | ·371 |
| ·633 | ·633 | ·614 | ·572 | ·546 | ·520 | ·513 | ·492 | ·478 | ·481 | ·478 | ·482 | ·526 |
| ·592 | ·538 | ·543 | ·586 | ·582 | ·547 | ·534 | ·533 | ·540 | ·570 | ·559 | ·556 | ·587 |
| ·355 | ·262 | ·215 | ·224 | ·206 | ·211 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·204 | ·188 | ·190 | ·186 | ·193 | ·200 | ·305 |
| ·229 | ·243 | ·231 | ·241 | ·251 | ·249 | ·240 | ·250 | ·243 | ·243 | ·235 | ·242 | ·253 |
| ·303 | ·288 | ·245 | ·232 | ·230 | ·227 | ·209 | ·217 | ·219 | ·223 | ·204 | ·206 | ·265 |
| ·275 | ·275 | ·266 | ·255 | ·249 | ·234 | ·224 | ·216 | ·231 | ·228 | ·226 | ·218 | ·253 |
| ·195 | ·197 | ·178 | ·167 | ·164 | ·181 | ·175 | ·164 | ·150 | ·143 | ·139 | ·146 | ·188 |
| ·174 | ·166 | ·153 | ·157 | ·166 | ·172 | ·170 | ·180 | ·172 | ·172 | ·162 | ·160 | ·166 |
| ·228 | ·220 | ·222 | ·228 | ·214 | ·220 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·208 | ·208 | ·208 | ·206 | ·212 | ·212 | ·210 |
| ·188 | ·184 | ·182 | ·176 | ·165 | ·161 | ·162 | ·150 | ·146 | ·142 | ·144 | ·139 | ·210 |
| ·424 | ·414 | ·381 | ·375 | ·362 | ·361 | ·362 | ·355 | ·342 | ·342 | ·335 | ·334 | ·399 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | OCTOBER. | 1 | 72 | 72 | 72 | 73 | 66 | 53 | 60 | 60 | 57 | 59 | 62 | 66 | |
| | | 2 | 97 | 96 | 92 | 88 | 86 | 83 | 82 | 87 | 83 | 83 | 79 | 88 | |
| | | 3 | 96 | 95 | 97 | 88 | 85 | 83 | 77 | 73 | 70 | 76 | 80 | 87 | |
| | | 4 | 95 | 94 | 88 | 86 | 86 | 71 | 76 | 70 | 84 | 72 | 76 | 86 | |
| | | 5 | 85 | 78 | 75 | 73 | 76 | 73 | 79 | 79 | 69 | 67 | 64 | 67 | |
| | | 6 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 7 | 91 | 83 | 76 | 72 | 67 | 66 | 64 | 65 | 67 | 64 | 66 | 66 | 71 |
| | | 8 | 100 | 95 | 64 | 84 | 84 | 82 | 71 | 60 | 55 | 59 | 61 | 64 | 64 |
| | | 9 | 80 | 80 | 81 | 76 | 66 | 61 | 62 | 70 | 67 | 34 | 36 | 67 | 67 |
| | | 10 | 90 | 89 | 90 | 76 | 81 | 73 | 66 | 45 | 40 | 42 | 41 | 50 | 50 |
| | | 11 | 87 | 88 | 84 | 77 | 71 | 68 | 71 | 68 | 68 | 69 | 67 | 69 | 69 |
| | | 12 | 88 | 88 | 85 | 82 | 75 | 71 | 66 | 65 | 61 | 64 | 67 | 72 | 72 |
| | | 13 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 14 | 93 | 95 | 96 | 96 | 96 | 92 | 95 | 95 | 95 | 95 | 93 | 93 | 95 |
| | | 15 | 95 | 94 | 92 | 86 | 86 | 86 | 82 | 81 | 76 | 74 | 74 | 74 | 81 |
| | | 16 | 93 | 92 | 88 | 82 | 73 | 71 | 68 | 68 | 61 | 77 | 79 | 79 | 70 |
| | | 17 | 91 | 90 | 93 | 93 | 93 | 93 | 93 | 92 | 93 | 93 | 93 | 93 | 92 |
| | | 18 | 83 | 85 | 83 | 84 | 84 | 85 | 88 | 88 | 93 | 92 | 93 | 93 | 93 |
| | | 19 | 71 | 75 | 66 | 67 | 63 | 57 | 50 | 49 | 45 | 63 | 84 | 72 | 72 |
| | | 20 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 21 | 84 | 78 | 73 | 76 | 89 | 64 | 64 | 66 | 73 | 69 | 70 | 72 | 72 |
| | | 22 | 95 | 95 | 94 | 94 | 85 | 80 | 79 | 78 | 76 | 74 | 75 | 83 | 83 |
| | | 23 | 96 | 98 | 97 | 98 | 98 | 97 | 95 | 92 | 82 | 79 | 78 | 80 | 80 |
| | | 24 | 96 | 98 | 97 | 91 | 85 | 82 | 78 | 76 | 72 | 72 | 72 | 81 | 81 |
| | | 25 | 92 | 93 | 90 | 87 | 85 | 81 | 78 | 80 | 78 | 78 | 80 | 84 | 84 |
| | | 26 | 87 | 79 | 81 | 84 | 73 | 73 | 73 | 74 | 76 | 79 | 83 | 89 | 89 |
| | | 27 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 28 | 96 | 95 | 94 | 95 | 96 | 97 | 96 | 100 | 100 | 100 | 99 | 90 | 90 |
| | | 29 | 88 | 90 | 81 | 91 | 95 | 86 | 84 | 90 | 91 | 90 | 88 | 91 | 91 |
| | | 30 | 85 | 84 | 81 | 82 | 82 | 79 | 74 | 70 | 70 | 72 | 70 | 74 | 74 |
| | | 31 | 94 | 93 | 95 | 87 | 90 | 80 | 65 | 74 | 80 | 76 | 74 | 78 | 78 |
| Hourly Means | | 90 | 89 | 85 | 84 | 82 | 77 | 75 | 75 | 73 | 73 | 74 | 78 | | |
| Tension of the Vapour. | OCTOBER. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | | |
| | | 1 | ·140 | ·156 | ·186 | ·224 | ·234 | ·206 | ·232 | ·247 | ·241 | ·247 | ·261 | ·255 | |
| | | 2 | ·249 | ·277 | ·233 | ·371 | ·384 | ·378 | ·398 | ·392 | ·419 | ·419 | ·404 | ·419 | |
| | | 3 | ·277 | ·275 | ·339 | ·352 | ·362 | ·391 | ·382 | ·368 | ·369 | ·378 | ·393 | ·377 | |
| | | 4 | ·270 | ·299 | ·315 | ·335 | ·343 | ·321 | ·378 | ·322 | ·325 | ·315 | ·340 | ·346 | |
| | | 5 | ·282 | ·272 | ·264 | ·260 | ·271 | ·274 | ·285 | ·304 | ·262 | ·261 | ·247 | ·253 | |
| | | 6 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 7 | ·171 | ·171 | ·183 | ·188 | ·191 | ·193 | ·190 | ·191 | ·198 | ·210 | ·224 | ·217 | |
| | | 8 | ·166 | ·165 | ·156 | ·235 | ·266 | ·320 | ·338 | ·305 | ·298 | ·322 | ·317 | ·307 | |
| | | 9 | ·295 | ·307 | ·320 | ·338 | ·342 | ·337 | ·381 | ·392 | ·407 | ·244 | ·253 | ·353 | |
| | | 10 | ·381 | ·382 | ·373 | ·339 | ·326 | ·278 | ·253 | ·200 | ·190 | ·198 | ·189 | ·211 | |
| | | 11 | ·189 | ·198 | ·213 | ·213 | ·225 | ·230 | ·256 | ·268 | ·269 | ·270 | ·261 | ·271 | |
| | | 12 | ·168 | ·174 | ·198 | ·231 | ·243 | ·246 | ·245 | ·249 | ·240 | ·242 | ·248 | ·254 | |
| | | 13 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 14 | ·277 | ·292 | ·328 | ·345 | ·357 | ·347 | ·356 | ·346 | ·343 | ·340 | ·336 | ·333 | |
| | | 15 | ·252 | ·260 | ·276 | ·294 | ·309 | ·321 | ·320 | ·319 | ·302 | ·286 | ·282 | ·290 | |
| | | 16 | ·203 | ·207 | ·212 | ·219 | ·214 | ·220 | ·229 | ·238 | ·223 | ·264 | ·269 | ·224 | |
| | | 17 | ·235 | ·233 | ·245 | ·252 | ·275 | ·286 | ·282 | ·275 | ·275 | ·273 | ·273 | ·265 | |
| | | 18 | ·204 | ·205 | ·204 | ·212 | ·224 | ·235 | ·241 | ·238 | ·249 | ·242 | ·245 | ·249 | |
| | | 19 | ·181 | ·190 | ·166 | ·174 | ·176 | ·166 | ·142 | ·139 | ·128 | ·156 | ·181 | ·160 | |
| | | 20 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 21 | ·184 | ·181 | ·185 | ·205 | ·260 | ·205 | ·203 | ·205 | ·224 | ·211 | ·216 | ·217 | |
| | | 22 | ·240 | ·252 | ·268 | ·294 | ·294 | ·279 | ·292 | ·300 | ·290 | ·295 | ·277 | ·256 | |
| | | 23 | ·200 | ·209 | ·245 | ·267 | ·283 | ·298 | ·309 | ·314 | ·340 | ·313 | ·296 | ·266 | |
| | | 24 | ·206 | ·223 | ·277 | ·292 | ·299 | ·306 | ·315 | ·329 | ·319 | ·311 | ·305 | ·295 | |
| | | 25 | ·297 | ·306 | ·340 | ·352 | ·362 | ·374 | ·388 | ·394 | ·385 | ·388 | ·396 | ·363 | |
| | | 26 | ·204 | ·194 | ·219 | ·243 | ·229 | ·239 | ·244 | ·247 | ·247 | ·249 | ·253 | ·259 | |
| | | 27 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 28 | ·144 | ·142 | ·144 | ·146 | ·149 | ·152 | ·150 | ·160 | ·155 | ·156 | ·154 | ·141 | |
| | | 29 | ·138 | ·141 | ·131 | ·151 | ·155 | ·144 | ·145 | ·152 | ·149 | ·149 | ·142 | ·143 | |
| | | 30 | ·138 | ·138 | ·138 | ·146 | ·150 | ·153 | ·154 | ·147 | ·147 | ·153 | ·145 | ·156 | |
| 31 | ·104 | ·097 | ·109 | ·130 | ·154 | ·152 | ·141 | ·179 | ·205 | ·205 | ·200 | ·177 | | | |
| Hourly Means | | ·215 | ·220 | ·232 | ·252 | ·262 | ·261 | ·268 | ·267 | ·267 | ·263 | ·263 | ·261 | | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 75 | 52 | 88 | 90 | 89 | 89 | 92 | 93 | 95 | 95 | 96 | 96 | 76 |
| 91 | 85 | 86 | 83 | 86 | 91 | 91 | — | 92 | 96 | 94 | 95 | 88 |
| 81 | 78 | 77 | 83 | 89 | 89 | 92 | 90 | 92 | 93 | 93 | 97 | 86 |
| 87 | 88 | 88 | 88 | 84 | 83 | 81 | 83 | 90 | 88 | 87 | 88 | 84 |
| 72 | 76 | 83 | 84 | 87 | 85 | — | — | — | — | — | — | 78 |
| — | — | — | — | — | — | 79 | 81 | 85 | 83 | 92 | 91 | — |
| 82 | 87 | 87 | 95 | 94 | 92 | 94 | 94 | 95 | 93 | 97 | 95 | 82 |
| 65 | 61 | 59 | 58 | 60 | 60 | 61 | 64 | 65 | 70 | 74 | 77 | 69 |
| 78 | 81 | 84 | 84 | 83 | 86 | 91 | 93 | 91 | 86 | 84 | 92 | 76 |
| 59 | 63 | 73 | 74 | 77 | 80 | 87 | 88 | 89 | 76 | 87 | 86 | 72 |
| 74 | 68 | 73 | 76 | 79 | 87 | 82 | 86 | 83 | 81 | 89 | 89 | 77 |
| 81 | 87 | 89 | 84 | 84 | 88 | — | — | — | — | — | — | 78 |
| — | — | — | — | — | — | 64 | 71 | 80 | 81 | 86 | 88 | — |
| 96 | 98 | 95 | 96 | 95 | 95 | 96 | 95 | 93 | 94 | 95 | 97 | 95 |
| 75 | 76 | 80 | 86 | 84 | 85 | 84 | 85 | 87 | 91 | 91 | 90 | 84 |
| 76 | 76 | 80 | 85 | 88 | 90 | 90 | 88 | 88 | 88 | 93 | 99 | 82 |
| 95 | 95 | 94 | 95 | 93 | 95 | 93 | 90 | 92 | 88 | 87 | 88 | 92 |
| 97 | 97 | 97 | 98 | 97 | 97 | 89 | 67 | 68 | 64 | 71 | 69 | 86 |
| 72 | 75 | 75 | 80 | 88 | 83 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 74 | 63 | 69 | 78 | 89 | 89 | 71 |
| 78 | 84 | 88 | 85 | 93 | 94 | 95 | 96 | 89 | 96 | 96 | 98 | 82 |
| 88 | 93 | 97 | 96 | 98 | 96 | 96 | 97 | 97 | 96 | 96 | 98 | 90 |
| 89 | 85 | 86 | 89 | 92 | 97 | 96 | 97 | 96 | 96 | 98 | 96 | 92 |
| 80 | 93 | 89 | 92 | 90 | 92 | 93 | 93 | 93 | 93 | 93 | 92 | 87 |
| 63 | 68 | 71 | 72 | 74 | 75 | 82 | 93 | 87 | 88 | 82 | 82 | 81 |
| 95 | 89 | 89 | 89 | 93 | 94 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 81 | 79 | 79 | 78 | 94 | 96 | 84 |
| 88 | 81 | 85 | 85 | 88 | 86 | 84 | 85 | 91 | 85 | 85 | 85 | 91 |
| 94 | 91 | 89 | 85 | 88 | 95 | 90 | 92 | 91 | 91 | 85 | 84 | 89 |
| 81 | 81 | 83 | 87 | 85 | 95 | 93 | 91 | 87 | 88 | 93 | 92 | 82 |
| 88 | 94 | 95 | 95 | 96 | 93 | — | 94 | 91 | 95 | 88 | 94 | 87 |
| 81 | 82 | 84 | 86 | 87 | 89 | 87 | 86 | 87 | 87 | 89 | 90 | 83 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·233 | ·163 | ·214 | ·224 | ·218 | ·214 | ·212 | ·220 | ·219 | ·228 | ·228 | ·236 | ·218 |
| ·415 | ·390 | ·397 | ·394 | ·403 | ·415 | ·412 | — | ·356 | ·351 | ·333 | ·300 | ·370 |
| ·360 | ·293 | ·281 | ·286 | ·278 | ·288 | ·296 | ·284 | ·273 | ·268 | ·268 | ·269 | ·221 |
| ·339 | ·332 | ·319 | ·307 | ·290 | ·279 | ·269 | ·269 | ·272 | ·256 | ·267 | ·280 | ·308 |
| ·259 | ·262 | ·264 | ·269 | ·263 | ·268 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·185 | ·187 | ·181 | ·175 | ·168 | ·171 | ·245 |
| ·200 | ·181 | ·181 | ·175 | ·170 | ·161 | ·165 | ·166 | ·165 | ·162 | ·163 | ·154 | ·182 |
| ·297 | ·266 | ·259 | ·259 | ·264 | ·263 | ·263 | ·269 | ·271 | ·274 | ·287 | ·291 | ·269 |
| ·311 | ·306 | ·344 | ·300 | ·258 | ·253 | ·262 | ·284 | ·281 | ·307 | ·322 | ·384 | ·316 |
| ·219 | ·215 | ·213 | ·213 | ·217 | ·220 | ·213 | ·209 | ·206 | ·180 | ·194 | ·187 | ·242 |
| ·210 | ·185 | ·181 | ·184 | ·185 | ·179 | ·177 | ·174 | ·164 | ·161 | ·167 | ·168 | ·208 |
| ·231 | ·233 | ·257 | ·276 | ·269 | ·247 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·213 | ·236 | ·246 | ·244 | ·248 | ·258 | ·233 |
| ·325 | ·326 | ·313 | ·312 | ·311 | ·309 | ·314 | ·307 | ·302 | ·288 | ·277 | ·269 | ·319 |
| ·248 | ·236 | ·236 | ·237 | ·229 | ·221 | ·212 | ·208 | ·203 | ·208 | ·203 | ·200 | ·256 |
| ·238 | ·229 | ·224 | ·217 | ·226 | ·228 | ·222 | ·220 | ·214 | ·219 | ·233 | ·199 | ·225 |
| ·261 | ·251 | ·242 | ·249 | ·246 | ·245 | ·240 | ·233 | ·234 | ·226 | ·216 | ·217 | ·251 |
| ·271 | ·285 | ·311 | ·346 | ·356 | ·356 | ·376 | ·238 | ·227 | ·189 | ·196 | ·183 | ·253 |
| ·153 | ·154 | ·153 | ·157 | ·165 | ·151 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·119 | ·139 | ·155 | ·177 | ·203 | ·197 | ·162 |
| ·222 | ·222 | ·216 | ·230 | ·219 | ·203 | ·200 | ·193 | ·205 | ·228 | ·229 | ·236 | ·212 |
| ·246 | ·230 | ·218 | ·208 | ·212 | ·201 | ·199 | ·212 | ·208 | ·214 | ·204 | ·216 | ·246 |
| ·252 | ·253 | ·278 | ·280 | ·264 | ·249 | ·221 | ·215 | ·200 | ·202 | ·203 | ·206 | ·257 |
| ·292 | ·298 | ·270 | ·283 | ·282 | ·264 | ·299 | ·296 | ·306 | ·295 | ·296 | ·292 | ·290 |
| ·273 | ·261 | ·249 | ·233 | ·225 | ·210 | ·200 | ·191 | ·202 | ·216 | ·212 | ·217 | ·293 |
| ·264 | ·251 | ·252 | ·254 | ·225 | ·214 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·161 | ·151 | ·144 | ·135 | ·145 | ·145 | ·215 |
| ·137 | ·131 | ·135 | ·136 | ·138 | ·138 | ·135 | ·136 | ·141 | ·135 | ·136 | ·136 | ·143 |
| ·144 | ·141 | ·140 | ·135 | ·142 | ·150 | ·145 | ·150 | ·151 | ·151 | ·140 | ·135 | ·144 |
| ·163 | ·165 | ·166 | ·157 | ·140 | ·134 | ·127 | ·126 | ·127 | ·122 | ·109 | ·098 | ·142 |
| ·158 | ·156 | ·150 | ·149 | ·146 | ·138 | — | ·136 | ·131 | ·131 | ·128 | ·134 | ·142 |
| ·249 | ·238 | ·239 | ·240 | ·235 | ·230 | ·225 | ·210 | ·214 | ·213 | ·214 | ·214 | ·254 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | NOVEMBER. | 1 | 94 | 96 | 95 | 78 | 88 | 88 | 82 | 83 | 84 | 84 | 84 | 86 |
| | | 2 | 95 | 95 | 95 | 88 | 88 | 86 | 85 | 82 | 78 | 79 | 84 | 88 |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 4 | 88 | 91 | 90 | 92 | 91 | 84 | 84 | 84 | 81 | 88 | 90 | 93 |
| | | 5 | 94 | 93 | 93 | 86 | 82 | 80 | 75 | 54 | 55 | 57 | 61 | 70 |
| | | 6 | 91 | 93 | 85 | 72 | 56 | 53 | 47 | 47 | 51 | 53 | 54 | 64 |
| | | 7 | 90 | 95 | 93 | 88 | 81 | 77 | 76 | 84 | 83 | 86 | 85 | 89 |
| | | 8 | 86 | 90 | 83 | 74 | 72 | 71 | 68 | 69 | 72 | 73 | 79 | 93 |
| | | 9 | 96 | 96 | 93 | 87 | 78 | 86 | 87 | 85 | 82 | 75 | 76 | 84 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | 97 | 97 | 98 | 98 | 98 | 98 | 96 | 95 | 97 | 97 | 97 | 97 |
| | | 12 | 95 | 97 | 97 | 96 | 95 | 96 | 94 | 95 | 96 | 96 | 95 | 95 |
| | | 13 | 78 | 83 | 74 | 64 | 64 | 64 | 59 | 55 | 59 | 64 | 59 | 63 |
| | | 14 | 81 | 84 | 80 | 73 | 68 | 63 | 61 | 65 | 72 | 82 | 93 | 93 |
| | | 15 | 81 | 85 | 83 | 71 | 76 | 71 | 69 | 68 | 66 | 68 | 74 | 84 |
| | | 16 | 91 | 95 | 95 | 91 | 84 | 79 | 79 | 76 | 75 | 79 | 84 | 92 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | 73 | 79 | 75 | 79 | 74 | 72 | 72 | 75 | 84 | 73 | 79 | 76 |
| | | 19 | 76 | 83 | 88 | 72 | 72 | 69 | 58 | 66 | 66 | 74 | 86 | 94 |
| | | 20 | 90 | 90 | 84 | 79 | 75 | 79 | 78 | 75 | 70 | 70 | 68 | 78 |
| | | 21 | 95 | 97 | 96 | 91 | 90 | 82 | 80 | 74 | 79 | 76 | 81 | 93 |
| | | 22 | 95 | 92 | 90 | 84 | 77 | 82 | 85 | 82 | 79 | 82 | 92 | 88 |
| | | 23 | 75 | 75 | 76 | 85 | 90 | 91 | 83 | 72 | 62 | 57 | 62 | 70 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | 76 | 81 | 76 | 73 | 69 | 64 | 67 | 70 | 70 | 71 | 74 | 81 |
| | | 26 | 94 | 97 | 98 | 95 | 93 | 98 | 100 | 93 | 96 | 98 | 100 | 95 |
| | | 27 | 78 | 80 | 88 | 88 | 85 | 85 | 84 | 90 | 77 | 72 | 75 | 82 |
| | | 28 | 96 | 94 | 100 | 97 | 96 | 97 | 96 | 93 | 87 | 87 | 85 | 73 |
| | | 29 | 94 | 93 | 91 | 94 | 93 | 89 | 87 | 87 | 83 | 88 | 87 | 86 |
| | | 30 | 93 | 93 | 96 | 98 | 96 | 94 | 93 | 92 | 95 | 95 | 95 | 96 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | 88 | 90 | 89 | 84 | 82 | 81 | 79 | 77 | 77 | 78 | 81 |
| Tension of the Vapour. | NOVEMBER. | 1 | In. .133 | In. .138 | In. .155 | In. .157 | In. .227 | In. .234 | In. .241 | In. .235 | In. .230 | In. .227 | In. .224 | In. .227 |
| | | 2 | .228 | .218 | .228 | .240 | .256 | .260 | .275 | .277 | .280 | .281 | .293 | .258 |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 4 | .210 | .210 | .224 | .232 | .239 | .234 | .233 | .237 | .238 | .256 | .246 | .249 |
| | | 5 | .198 | .199 | .218 | .221 | .232 | .222 | .234 | .187 | .187 | .192 | .190 | .196 |
| | | 6 | .168 | .163 | .167 | .168 | .155 | .155 | .147 | .158 | .173 | .184 | .181 | .177 |
| | | 7 | .224 | .205 | .211 | .240 | .254 | .256 | .269 | .278 | .271 | .269 | .261 | .260 |
| | | 8 | .158 | .150 | .163 | .160 | .168 | .177 | .163 | .169 | .178 | .179 | .178 | .193 |
| | | 9 | .163 | .167 | .168 | .167 | .157 | .191 | .202 | .210 | .216 | .209 | .205 | .190 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | .235 | .234 | .237 | .240 | .244 | .249 | .247 | .255 | .262 | .253 | .251 | .255 |
| | | 12 | .255 | .261 | .264 | .269 | .275 | .291 | .303 | .304 | .309 | .307 | .305 | .294 |
| | | 13 | .168 | .165 | .148 | .134 | .133 | .138 | .131 | .126 | .133 | .140 | .129 | .131 |
| | | 14 | .131 | .138 | .142 | .141 | .142 | .138 | .142 | .158 | .172 | .200 | .204 | .198 |
| | | 15 | .164 | .171 | .168 | .152 | .181 | .179 | .185 | .190 | .185 | .195 | .207 | .213 |
| | | 16 | .163 | .178 | .184 | .200 | .222 | .234 | .242 | .249 | .252 | .237 | .233 | .218 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | .141 | .151 | .142 | .142 | .137 | .138 | .147 | .153 | .158 | .131 | .133 | .121 |
| | | 19 | .116 | .121 | .138 | .135 | .144 | .145 | .138 | .166 | .171 | .191 | .219 | .237 |
| | | 20 | .160 | .170 | .173 | .178 | .185 | .187 | .201 | .213 | .211 | .206 | .193 | .185 |
| | | 21 | .150 | .161 | .175 | .203 | .231 | .239 | .229 | .218 | .224 | .223 | .211 | .231 |
| | | 22 | .185 | .210 | .217 | .219 | .225 | .223 | .224 | .214 | .218 | .221 | .241 | .230 |
| | | 23 | .193 | .187 | .185 | .199 | .218 | .219 | .210 | .195 | .177 | .163 | .159 | .164 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | .081 | .086 | .086 | .089 | .089 | .083 | .093 | .096 | .101 | .101 | .101 | .105 |
| | | 26 | .116 | .131 | .134 | .139 | .139 | .146 | .150 | .150 | .161 | .165 | .166 | .160 |
| | | 27 | .087 | .090 | .098 | .089 | .086 | .088 | .090 | .101 | .085 | .081 | .076 | .080 |
| | | 28 | .125 | .112 | .108 | .105 | .109 | .117 | .118 | .119 | .113 | .111 | .107 | .088 |
| | | 29 | .119 | .121 | .126 | .139 | .152 | .159 | .162 | .162 | .156 | .162 | .157 | .155 |
| | | 30 | .177 | .180 | .193 | .202 | .208 | .211 | .208 | .203 | .211 | .207 | .199 | .195 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | .163 | .166 | .171 | .175 | .185 | .189 | .192 | .193 | .195 | .196 | .195 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 92 | 96 | 98 | 98 | 93 | 97 | 95 | 92 | 88 | 95 | 95 | 97 | 91 |
| 92 | 93 | 92 | 95 | 95 | 96 | — | — | — | — | — | — | 89 |
| — | — | — | — | — | — | 92 | 77 | 89 | 90 | 89 | 90 | 91 |
| 93 | 92 | 92 | 90 | 93 | 95 | 95 | 93 | 93 | 94 | 95 | 95 | 91 |
| 74 | 67 | 71 | 77 | 78 | 83 | 89 | 78 | 89 | 89 | 86 | 89 | 78 |
| 76 | 82 | 87 | 90 | 89 | 89 | 93 | 89 | 83 | 82 | 82 | 86 | 75 |
| 90 | 89 | 92 | 75 | 73 | 75 | 73 | 88 | 75 | 76 | 83 | 77 | 83 |
| 95 | 95 | 96 | 95 | 95 | 95 | 95 | 96 | 95 | 96 | 98 | 98 | 87 |
| 93 | 96 | 95 | 95 | 96 | 96 | — | — | — | — | — | — | 91 |
| — | — | — | — | — | — | 96 | 97 | 96 | 97 | 96 | 97 | 91 |
| 97 | 97 | 97 | 97 | 98 | 97 | 97 | 97 | 97 | 96 | 97 | 96 | 97 |
| 96 | 97 | 93 | 90 | 92 | 85 | 85 | 93 | 87 | 89 | 93 | 84 | 93 |
| 69 | 74 | 76 | 80 | 81 | 89 | 87 | 88 | 86 | 87 | 88 | 86 | 74 |
| 74 | 78 | 87 | 91 | 79 | 86 | 86 | 89 | 89 | 95 | 91 | 71 | 80 |
| 81 | 87 | 89 | 90 | 92 | 93 | 95 | 94 | 95 | 95 | 95 | 93 | 83 |
| 92 | 95 | 95 | 93 | 94 | 95 | — | — | — | — | — | — | 90 |
| — | — | — | — | — | — | 97 | 99 | 100 | 100 | 99 | 76 | 90 |
| 86 | 85 | 84 | 87 | 89 | 92 | 92 | 87 | 87 | 79 | 74 | 73 | 80 |
| 97 | 82 | 72 | 75 | 78 | 78 | 78 | 89 | 87 | 89 | 88 | 91 | 80 |
| 81 | 68 | 65 | 68 | 82 | 87 | 84 | 82 | 98 | 90 | 93 | 96 | 81 |
| 88 | 87 | 92 | 96 | 93 | 93 | 95 | 95 | 95 | 96 | 95 | 95 | 90 |
| 88 | 88 | 85 | 78 | 75 | 84 | 84 | 89 | 89 | 92 | 88 | 74 | 85 |
| 69 | 86 | 89 | 74 | 89 | 77 | — | — | — | — | — | — | 76 |
| — | — | — | — | — | — | 81 | 76 | 76 | 67 | 67 | 71 | 76 |
| 85 | 72 | 78 | 80 | 69 | 83 | 83 | 82 | 82 | 82 | 85 | 94 | 77 |
| 95 | 95 | 84 | 80 | 71 | 79 | 69 | 70 | 75 | 77 | 77 | 78 | 88 |
| 100 | 86 | 85 | 91 | 83 | 77 | 77 | 88 | 91 | 93 | 100 | 91 | 85 |
| 87 | 90 | 84 | 90 | 91 | 90 | 93 | 95 | 96 | 94 | 94 | 93 | 92 |
| 87 | 86 | 87 | 87 | 87 | 91 | 89 | 85 | 91 | 92 | 91 | 92 | 89 |
| 96 | 98 | 97 | 95 | 96 | 98 | — | — | — | — | — | — | 94 |
| — | — | — | — | — | — | 92 | 95 | 89 | 90 | 90 | 88 | 94 |
| 87 | 87 | 87 | 87 | 87 | 88 | 88 | 89 | 89 | 89 | 90 | 87 | 85 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·214 | ·217 | ·219 | ·217 | ·211 | ·220 | ·215 | ·210 | ·209 | ·222 | ·231 | ·232 | ·210 |
| ·247 | ·226 | ·214 | ·219 | ·219 | ·222 | — | — | — | — | — | — | ·243 |
| — | — | — | — | — | — | ·246 | ·221 | ·237 | ·238 | ·227 | ·213 | ·226 |
| ·245 | ·247 | ·246 | ·241 | ·238 | ·207 | ·213 | ·211 | ·209 | ·190 | ·190 | ·184 | ·190 |
| ·187 | ·166 | ·166 | ·172 | ·169 | ·180 | ·191 | ·160 | ·173 | ·173 | ·172 | ·172 | ·173 |
| ·170 | ·161 | ·157 | ·155 | ·156 | ·154 | ·171 | ·191 | ·204 | ·201 | ·210 | ·227 | ·231 |
| ·258 | ·252 | ·247 | ·220 | ·217 | ·216 | ·212 | ·239 | ·185 | ·174 | ·178 | ·157 | ·171 |
| ·190 | ·189 | ·195 | ·195 | ·194 | ·176 | ·162 | ·158 | ·155 | ·146 | ·147 | ·158 | ·194 |
| ·177 | ·164 | ·163 | ·162 | ·163 | ·162 | — | — | — | — | — | — | ·248 |
| — | — | — | — | — | — | ·244 | ·237 | ·234 | ·240 | ·236 | ·237 | ·256 |
| ·254 | ·255 | ·249 | ·238 | ·251 | ·250 | ·245 | ·249 | ·254 | ·249 | ·252 | ·249 | ·241 |
| ·296 | ·293 | ·287 | ·235 | ·230 | ·210 | ·199 | ·204 | ·189 | ·184 | ·191 | ·177 | ·157 |
| ·131 | ·134 | ·135 | ·142 | ·144 | ·152 | ·151 | ·148 | ·142 | ·142 | ·143 | ·139 | ·176 |
| ·153 | ·154 | ·153 | ·158 | ·148 | ·164 | ·166 | ·162 | ·159 | ·150 | ·144 | ·150 | ·215 |
| ·196 | ·192 | ·171 | ·169 | ·166 | ·163 | ·170 | ·164 | ·165 | ·161 | ·155 | ·159 | ·134 |
| ·209 | ·199 | ·206 | ·236 | ·240 | ·244 | — | — | — | — | — | — | ·165 |
| — | — | — | — | — | — | ·232 | ·218 | ·214 | ·205 | ·199 | ·152 | ·168 |
| ·132 | ·129 | ·128 | ·131 | ·133 | ·132 | ·131 | ·127 | ·128 | ·116 | ·115 | ·110 | ·196 |
| ·237 | ·192 | ·161 | ·162 | ·169 | ·172 | ·164 | ·156 | ·162 | ·162 | ·144 | ·161 | ·222 |
| ·166 | ·151 | ·146 | ·143 | ·151 | ·143 | ·143 | ·137 | ·158 | ·140 | ·141 | ·152 | ·156 |
| ·212 | ·199 | ·180 | ·173 | ·162 | ·166 | ·184 | ·192 | ·189 | ·187 | ·180 | ·185 | ·092 |
| ·230 | ·236 | ·231 | ·217 | ·213 | ·229 | ·231 | ·237 | ·230 | ·231 | ·218 | ·197 | ·132 |
| ·168 | ·194 | ·182 | ·140 | ·155 | ·129 | — | — | — | — | — | — | ·086 |
| — | — | — | — | — | — | ·101 | ·092 | ·091 | ·076 | ·073 | ·078 | ·108 |
| ·103 | ·081 | ·080 | ·082 | ·071 | ·085 | ·091 | ·091 | ·092 | ·095 | ·104 | ·112 | ·156 |
| ·158 | ·158 | ·143 | ·126 | ·111 | ·113 | ·096 | ·099 | ·107 | ·107 | ·103 | ·094 | ·184 |
| ·085 | ·074 | ·077 | ·085 | ·077 | ·071 | ·070 | ·080 | ·085 | ·090 | ·103 | ·116 | — |
| ·099 | ·101 | ·095 | ·101 | ·104 | ·103 | ·106 | ·109 | ·111 | ·112 | ·113 | ·114 | — |
| ·156 | ·155 | ·159 | ·153 | ·152 | ·164 | ·170 | ·167 | ·172 | ·174 | ·172 | ·176 | — |
| ·191 | ·193 | ·188 | ·190 | ·186 | ·187 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·152 | ·154 | ·153 | ·146 | ·146 | ·142 | — |
| ·187 | ·181 | ·176 | ·172 | ·170 | ·170 | ·171 | ·170 | ·170 | ·166 | ·165 | ·163 | ·178 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-----------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | DECEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | | 2 | 90 | 85 | 82 | 74 | 78 | 79 | 82 | 83 | 81 | 89 | 93 | 80 |
| | | 3 | 90 | 94 | 95 | 89 | 86 | 78 | 70 | 68 | 77 | 82 | 82 | 89 |
| | | 4 | 93 | 92 | 72 | 92 | 89 | 86 | 87 | 86 | 80 | 94 | 87 | 97 |
| | | 5 | 87 | 89 | 86 | 86 | 89 | 87 | 86 | 83 | 79 | 82 | 81 | 86 |
| | | 6 | 97 | 95 | 95 | 95 | 95 | 96 | 95 | 93 | 96 | 95 | 96 | 96 |
| | | 7 | 98 | 98 | 99 | 100 | 82 | 71 | 70 | 75 | 78 | 80 | 77 | 79 |
| | | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 9 | 87 | 88 | 82 | 79 | 76 | 73 | 74 | 72 | 63 | 61 | 64 | 70 |
| | | 10 | 92 | 85 | 82 | 79 | 79 | 77 | 76 | 76 | 76 | 77 | 77 | 80 |
| | | 11 | 81 | 81 | 81 | 79 | 83 | 79 | 77 | 74 | 74 | 74 | 78 | 79 |
| | | 12 | 95 | 93 | 86 | 92 | 78 | 71 | 72 | 75 | 74 | 74 | 78 | 78 |
| | | 13 | 80 | 79 | 93 | 96 | 96 | 95 | 94 | 93 | 92 | 93 | 95 | 96 |
| | | 14 | 96 | 95 | 95 | 91 | 86 | 82 | 76 | 82 | 79 | 79 | 78 | 81 |
| | | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 16 | 92 | 90 | 94 | 85 | 88 | 85 | 81 | 80 | 79 | 77 | 74 | 74 |
| | | 17 | 82 | 80 | 80 | 80 | 74 | 81 | 79 | 75 | 77 | 79 | 74 | 79 |
| | | 18 | 90 | 97 | 94 | 72 | 73 | 74 | 82 | 82 | 86 | 87 | 84 | 87 |
| | | 19 | 90 | 90 | 94 | 89 | 89 | 93 | 89 | 88 | 87 | 87 | 85 | 90 |
| | | 20 | 83 | 81 | 80 | 63 | 73 | 75 | 78 | 72 | 76 | 75 | 77 | 80 |
| | | 21 | 85 | 84 | 77 | 84 | 84 | 85 | 85 | 96 | 93 | 93 | 91 | 93 |
| | | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 23 | 86 | 81 | 84 | 82 | 85 | 85 | 81 | 84 | 84 | 84 | 83 | 85 |
| | | 24 | 85 | 85 | 79 | 82 | 79 | 93 | 79 | 71 | 75 | 74 | 69 | 91 |
| | | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | 84 | 85 | 80 | 80 | 82 | 83 | 78 | 79 | 76 | 74 | 77 | 87 |
| | | 27 | 74 | 83 | 81 | 75 | 80 | 76 | 74 | 78 | 66 | 68 | 65 | 71 |
| | | 28 | 86 | 89 | 85 | 73 | 78 | 79 | 73 | 70 | 72 | 72 | 76 | 79 |
| | | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 30 | 78 | 75 | 80 | 80 | 66 | 66 | 65 | 64 | 71 | 71 | 61 | 63 |
| | | 31 | 91 | 90 | 90 | 85 | 83 | 77 | 73 | 74 | 71 | 77 | 79 | 81 |
| | | Hourly Means | | 88 | 87 | 86 | 83 | 82 | 81 | 79 | 79 | 78 | 80 | 79 |
| Tension of the Vapour. | DECEMBER. | 1 | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | | 2 | .145 | .139 | .132 | .123 | .132 | .134 | .142 | .147 | .157 | .164 | .160 | .132 |
| | | 3 | .153 | .145 | .160 | .156 | .160 | .155 | .148 | .148 | .162 | .165 | .165 | .173 |
| | | 4 | .173 | .174 | .152 | .196 | .197 | .193 | .197 | .195 | .180 | .194 | .174 | .196 |
| | | 5 | .167 | .171 | .168 | .167 | .169 | .167 | .166 | .164 | .160 | .165 | .163 | .171 |
| | | 6 | .185 | .181 | .182 | .186 | .185 | .189 | .186 | .180 | .182 | .180 | .177 | .185 |
| | | 7 | .260 | .264 | .274 | .289 | .249 | .214 | .213 | .212 | .202 | .187 | .164 | .165 |
| | | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 9 | .102 | .105 | .104 | .106 | .113 | .124 | .135 | .141 | .131 | .128 | .129 | .127 |
| | | 10 | .149 | .129 | .122 | .114 | .115 | .118 | .118 | .121 | .120 | .123 | .121 | .120 |
| | | 11 | .129 | .130 | .130 | .130 | .146 | .143 | .140 | .142 | .145 | .144 | .144 | .147 |
| | | 12 | .122 | .119 | .130 | .172 | .157 | .149 | .154 | .171 | .174 | .176 | .166 | .159 |
| | | 13 | .176 | .172 | .193 | .196 | .194 | .197 | .198 | .198 | .199 | .196 | .195 | .189 |
| | | 14 | .163 | .161 | .162 | .163 | .166 | .164 | .155 | .173 | .168 | .165 | .160 | .162 |
| | | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 16 | .117 | .113 | .116 | .101 | .104 | .100 | .097 | .097 | .094 | .093 | .088 | .084 |
| | | 17 | .079 | .077 | .077 | .082 | .085 | .097 | .098 | .101 | .104 | .106 | .095 | .096 |
| | | 18 | .047 | .055 | .061 | .064 | .075 | .086 | .104 | .108 | .119 | .120 | .115 | .116 |
| | | 19 | .103 | .105 | .112 | .111 | .116 | .124 | .117 | .115 | .111 | .107 | .100 | .103 |
| | | 20 | .061 | .064 | .066 | .052 | .072 | .080 | .094 | .089 | .094 | .087 | .087 | .088 |
| | | 21 | .125 | .127 | .118 | .131 | .131 | .135 | .134 | .154 | .159 | .163 | .166 | .168 |
| | | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 23 | .153 | .140 | .142 | .137 | .136 | .136 | .130 | .128 | .126 | .121 | .118 | .118 |
| | | 24 | .126 | .132 | .124 | .130 | .131 | .162 | .143 | .136 | .149 | .153 | .145 | .173 |
| | | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | .222 | .226 | .224 | .226 | .226 | .233 | .271 | .271 | .224 | .205 | .189 | .192 |
| | | 27 | .095 | .100 | .093 | .089 | .100 | .103 | .106 | .111 | .102 | .102 | .097 | .099 |
| | | 28 | .076 | .078 | .076 | .075 | .091 | .107 | .110 | .113 | .114 | .114 | .114 | .116 |
| | | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 30 | .156 | .155 | .172 | .180 | .166 | .159 | .150 | .140 | .150 | .151 | .135 | .137 |
| | | 31 | .156 | .146 | .145 | .151 | .153 | .146 | .138 | .151 | .148 | .157 | .160 | .158 |
| | | Hourly Means | | .138 | .136 | .137 | .141 | .143 | .145 | .146 | .148 | .147 | .147 | .141 |

^a Christmas Day.

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-----|----|----|----|-----|-----|----|-----|----|-----|----|-----|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 91 | 81 | 81 | 83 | 81 | 84 | 82 | 85 | 86 | 92 | 95 | 96 | 85 |
| 88 | 89 | 83 | 85 | 81 | 88 | 79 | 95 | 98 | 97 | 98 | 95 | 87 |
| 96 | 96 | 96 | 97 | 96 | 94 | 95 | 91 | 87 | 86 | 86 | 86 | 90 |
| 86 | 90 | 86 | 93 | 91 | 93 | 93 | 93 | 93 | 93 | 93 | 94 | 88 |
| 100 | 98 | 98 | 96 | 96 | 98 | 98 | 96 | 98 | 97 | 97 | 98 | 96 |
| 78 | 82 | 85 | 86 | 75 | 68 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 79 | 83 | 86 | 89 | 81 | 83 | 83 |
| 79 | 81 | 83 | 81 | 83 | 79 | 78 | 77 | 82 | 81 | 85 | 85 | 78 |
| 83 | 83 | 84 | 83 | 84 | 84 | 86 | 86 | 79 | 89 | 90 | 90 | 82 |
| 78 | 81 | 79 | 83 | 90 | 86 | 88 | 93 | 91 | 81 | 92 | 94 | 82 |
| 77 | 69 | 82 | 87 | 83 | 84 | 87 | 86 | 80 | 86 | 89 | 81 | 82 |
| 96 | 96 | 98 | 95 | 97 | 97 | 96 | 95 | 96 | 95 | 91 | 100 | 94 |
| 89 | 88 | 88 | 79 | 82 | 83 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 94 | 94 | 95 | 85 | 95 | 93 | 87 |
| 80 | 76 | 78 | 81 | 82 | 85 | 83 | 91 | 88 | 86 | 88 | 86 | 83 |
| 81 | 84 | 95 | 80 | 80 | 80 | 82 | 73 | 69 | 31 | 81 | 90 | 78 |
| 74 | 74 | 74 | 78 | 79 | 87 | 92 | 92 | 89 | 92 | 81 | 90 | 84 |
| 87 | 81 | 83 | 81 | 80 | 80 | 82 | 100 | 89 | 90 | 92 | 82 | 87 |
| 81 | 75 | 83 | 83 | 83 | 88 | 88 | 81 | 90 | 92 | 83 | 83 | 80 |
| 93 | 95 | 89 | 98 | 100 | 100 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 95 | 89 | 94 | 100 | 99 | 91 | 91 |
| 82 | 84 | 83 | 88 | 77 | 78 | 82 | 82 | 86 | 88 | 88 | 83 | 84 |
| 87 | 73 | 73 | 78 | 86 | 83 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 84 | 76 | 76 | 78 | 87 | 86 | 80 |
| 72 | 66 | 69 | 72 | 72 | 70 | 76 | 74 | 80 | 82 | 89 | 75 | 78 |
| 76 | 74 | 70 | 81 | 83 | 84 | 91 | 91 | 94 | 90 | 90 | 88 | 79 |
| 97 | 91 | 86 | 83 | 79 | 87 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 95 | 82 | 76 | 80 | 81 | 87 | 82 |
| 80 | 73 | 71 | 74 | 76 | 79 | 84 | 88 | 85 | 87 | 90 | 90 | 76 |
| 82 | 78 | 74 | 85 | 89 | 96 | 93 | 91 | 72 | 71 | 63 | 65 | 80 |
| 85 | 82 | 83 | 84 | 84 | 85 | 87 | 87 | 86 | 85 | 88 | 88 | 84 |

| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| ·138 | ·127 | ·127 | ·136 | ·132 | ·141 | ·137 | ·128 | ·124 | ·136 | ·149 | ·152 | ·139 |
| ·171 | ·173 | ·175 | ·167 | ·163 | ·177 | ·163 | ·153 | ·153 | ·147 | ·163 | ·167 | ·161 |
| ·191 | ·191 | ·189 | ·189 | ·187 | ·183 | ·184 | ·176 | ·166 | ·166 | ·166 | ·167 | ·182 |
| ·172 | ·176 | ·172 | ·182 | ·172 | ·173 | ·173 | ·173 | ·176 | ·176 | ·176 | ·177 | ·171 |
| ·190 | ·199 | ·202 | ·206 | ·209 | ·219 | ·230 | ·226 | ·240 | ·242 | ·245 | ·253 | ·202 |
| ·164 | ·168 | ·169 | ·171 | ·119 | ·095 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·113 | ·118 | ·112 | ·112 | ·101 | ·100 | ·176 |
| ·122 | ·126 | ·120 | ·117 | ·121 | ·120 | ·127 | ·127 | ·133 | ·131 | ·133 | ·138 | ·123 |
| ·121 | ·119 | ·118 | ·117 | ·116 | ·120 | ·126 | ·127 | ·119 | ·136 | ·139 | ·140 | ·124 |
| ·142 | ·147 | ·146 | ·144 | ·148 | ·158 | ·144 | ·124 | ·124 | ·106 | ·116 | ·117 | ·137 |
| ·156 | ·147 | ·170 | ·179 | ·174 | ·177 | ·183 | ·183 | ·170 | ·181 | ·187 | ·185 | ·164 |
| ·187 | ·182 | ·184 | ·181 | ·183 | ·183 | ·179 | ·175 | ·177 | ·170 | ·157 | ·173 | ·185 |
| ·170 | ·165 | ·161 | ·147 | ·150 | ·151 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·120 | ·117 | ·117 | ·116 | ·123 | ·120 | ·150 |
| ·088 | ·082 | ·083 | ·085 | ·087 | ·089 | ·088 | ·087 | ·083 | ·081 | ·086 | ·081 | ·093 |
| ·101 | ·101 | ·108 | ·085 | ·082 | ·082 | ·082 | ·068 | ·060 | ·022 | ·046 | ·044 | ·082 |
| ·097 | ·094 | ·094 | ·098 | ·096 | ·099 | ·099 | ·091 | ·094 | ·101 | ·088 | ·099 | ·093 |
| ·097 | ·085 | ·087 | ·089 | ·088 | ·082 | ·071 | ·070 | ·056 | ·054 | ·058 | ·062 | ·093 |
| ·088 | ·081 | ·087 | ·091 | ·091 | ·094 | ·093 | ·085 | ·107 | ·113 | ·116 | ·117 | ·087 |
| ·168 | ·156 | ·127 | ·132 | ·133 | ·154 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·187 | ·173 | ·176 | ·182 | ·174 | ·163 | ·152 |
| ·114 | ·113 | ·112 | ·116 | ·096 | ·098 | ·106 | ·106 | ·118 | ·125 | ·128 | ·124 | ·123 |
| ·157 | ·153 | ·153 | ·159 | ·165 | ·153 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·217 | ·205 | ·210 | ·213 | ·231 | ·152 | ·161 |
| ·147 | ·124 | ·119 | ·120 | ·114 | ·110 | ·116 | ·107 | ·113 | ·107 | ·117 | ·102 | ·171 |
| ·100 | ·090 | ·089 | ·090 | ·090 | ·088 | ·089 | ·080 | ·080 | ·076 | ·076 | ·076 | ·093 |
| ·140 | ·131 | ·120 | ·121 | ·120 | ·132 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·161 | ·140 | ·136 | ·144 | ·148 | ·152 | ·118 |
| ·161 | ·141 | ·132 | ·138 | ·136 | ·141 | ·152 | ·155 | ·151 | ·152 | ·155 | ·154 | ·151 |
| ·159 | ·158 | ·154 | ·168 | ·171 | ·172 | ·150 | ·154 | ·147 | ·154 | ·147 | ·157 | ·154 |
| ·142 | ·137 | ·136 | ·137 | ·134 | ·136 | ·140 | ·134 | ·134 | ·134 | ·137 | ·135 | ·139 |



TORONTO, 1844.

DIRECTION AND FORCE OF THE WIND.

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| E. by N. | 3.0 | N. E. by E. | 4.0 | E. by N. | 4.0 | E. | 4.0 | E. | 2.5 | E. | 2.0 | 2 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | 3 |
| N. W. | 3.5 | N. W. by N. | 5.0 | N. W. by N. | 5.0 | N. W. by N. | 3.0 | N. W. by N. | 2.0 | N. W. by N. | 2.0 | 4 |
| N. W. by N. | 0.2 | N. W. by N. | 0.5 | N. W. by N. | 0.5 | N. W. by N. | 0.5 | N. W. by N. | 0.2 | — | 0.0 | 5 |
| — | 0.0 | N. W. by W. | 0.2 | S. W. | 0.5 | S. W. | 0.5 | S. W. by W. | 0.0 | — | 0.0 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| — | 0.2 | N. W. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 8 |
| E. N. E. | 1.0 | E. S. E. | 1.0 | E. S. E. | 1.0 | E. S. E. | 1.0 | S. E. | 1.0 | S. E. by E. | 0.5 | 9 |
| W. | 0.2 | W. | 0.2 | W. | 0.2 | W. by N. | 0.2 | N. N. W. | 0.5 | N. N. W. | 0.5 | 10 |
| — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.5 | E. by S. | 0.5 | 11 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 12 |
| N. by W. | 5.0 | N. | 5.0 | N. by W. | 3.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| E. N. E. | 5.0 | E. | 4.5 | E. | 3.5 | E. | 2.5 | E. | 2.5 | E. | 3.0 | 15 |
| — | 0.0 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | S. S. E. | 0.2 | 16 |
| — | 0.0 | N. W. by W. | 0.2 | N. W. by W. | 0.5 | N. W. by W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 | 17 |
| N. W. | 3.5 | W. N. W. | 4.0 | W. N. W. | 3.0 | W. N. W. | 2.0 | N. W. by W. | 2.5 | N. W. | 1.0 | 18 |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| N. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.5 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| — | 0.0 | — | 0.0 | N. E. | 0.2 | N. E. | 0.2 | S. E. | 0.2 | S. E. | 0.5 | 22 |
| S. by W. | 2.5 | S. by E. | 3.0 | W. S. W. | 2.0 | W. S. W. | 3.0 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | 23 |
| N. W. by W. | 2.5 | W. by N. | 3.0 | N. W. | 2.5 | N. W. by N. | 1.0 | N. W. by N. | 2.0 | N. W. | 1.0 | 24 |
| N. | 2.0 | N. by W. | 2.0 | N. by W. | 1.0 | N. by W. | 0.5 | N. by W. | 1.0 | N. by W. | 2.0 | 25 |
| N. by W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 1.0 | 26 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| — | 0.0 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 29 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | 30 |
| N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| E. | 0.2 | E. | 0.2 | E. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| S. W. by W. | 0.5 | S. W. by W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 | 3 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| W. | 0.5 | W. | 0.2 | — | 0.0 | N. W. by W. | 1.0 | N. W. by W. | 0.5 | N. W. by W. | 1.0 | 7 |
| N. W. by W. | 0.2 | N. W. by W. | 0.2 | — | 0.0 | — | 0.0 | N. W. by W. | 0.2 | — | 0.0 | 8 |
| S. W. | 0.2 | S. W. | 0.5 | S. W. | 0.5 | W. by S. | 0.5 | W. | 1.0 | W. | 1.0 | 9 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | — | 0.0 | 10 |
| E. by S. | 0.5 | E. by S. | 0.2 | E. by S. | 0.5 | E. by S. | 0.5 | E. S. E. | 0.5 | — | 0.0 | 11 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | S. S. W. | 0.2 | W. S. W. | 1.0 | W. by N. | 6.5 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| E. | 0.2 | E. | 0.2 | — | 0.0 | E. | 0.2 | E. | 0.2 | — | 0.0 | 14 |
| E. S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. by S. | 0.5 | E. | 0.5 | E. | 0.5 | 15 |
| S. W. by W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| W. by N. | 2.5 | W. by N. | 2.0 | W. N. W. | 2.0 | W. N. W. | 2.0 | W. N. W. | 2.0 | W. N. W. | 1.0 | 17 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | 18 |
| — | 0.0 | N. | 0.5 | N. | 0.5 | N. | 0.5 | N. | 0.2 | N. | 0.2 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| E. S. E. | 2.5 | E. S. E. | 2.5 | E. by S. | 2.0 | E. by S. | 0.5 | E. by S. | 0.5 | — | 0.0 | 22 |
| S. W. by W. | 2.0 | W. S. W. | 3.0 | S. W. by S. | 2.5 | S. W. by S. | 0.5 | S. W. by S. | 0.2 | S. W. by S. | 0.5 | 23 |
| N. N. W. | 2.0 | N. N. W. | 2.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. | 0.2 | 24 |
| N. N. W. | 2.5 | N. N. W. | 3.0 | N. N. W. | 3.5 | N. N. W. | 2.5 | N. | 2.0 | N. by E. | 0.2 | 25 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. N. W. | 0.2 | — | 0.0 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| — | — | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. by N. | 0.2 | 28 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | 29 |
| N. N. W. | 0.5 | N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |
| N. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

JANUARY.

JANUARY.

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| E. | 0.2 | E. | 0.2 | E. | 0.2 | E. by S. | 0.2 | — | 0.0 | — | 0.0 | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | 2 |
| — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| N. N. W. | 2.5 | N. N. W. | 1.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | 4 |
| S. W. | 0.2 | S. W. | 0.2 | S. S. W. | 0.2 | S. | 0.5 | S. | 0.5 | S. | 0.2 | 5 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | S. E. by E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 6 |
| E. S. E. | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.2 | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 8 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | 9 |
| — | — | — | — | — | — | — | — | — | — | — | — | 10 |
| — | 0.0 | S. E. by S. | 0.2 | S. E. | 0.2 | S. E. | 0.5 | S. E. | 0.5 | N. E. | 0.2 | 11 |
| — | 0.0 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 12 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.5 | N. | 1.0 | N. | 1.0 | 13 |
| E. S. E. | 0.2 | E. S. E. | 0.5 | E. S. E. | 0.5 | S. E. by E. | 0.5 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | 14 |
| E. | 5.0 | E. | 3.0 | E. | 2.0 | E. | 2.0 | E. | 1.5 | E. | 1.0 | 15 |
| N. E. | 0.2 | N. E. | 0.2 | N. N. E. | 0.2 | N. W. | 0.2 | N. N. W. | 0.5 | N. N. W. | 0.5 | 16 |
| — | — | — | — | — | — | — | — | — | — | — | — | 17 |
| N. W. | 1.0 | W. by N. | 2.0 | W. by N. | 2.5 | W. by N. | 3.0 | W. by N. | 3.0 | W. by N. | 3.0 | 18 |
| W. S. W. | 0.2 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 1.0 | S. S. W. | 2.0 | S. S. W. | 2.0 | 19 |
| E. by N. | 2.5 | E. by N. | 2.5 | E. by N. | 2.0 | N. | 2.0 | N. | 2.5 | N. | 2.5 | 20 |
| N. N. W. | 0.2 | S. S. W. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | — | 0.0 | 21 |
| E. | 0.5 | E. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| N. | 1.0 | N. | 0.5 | N. | 0.2 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | 23 |
| — | — | — | — | — | — | — | — | — | — | — | — | 24 |
| N. N. W. | 0.0 | N. W. by N. | 0.2 | N. W. by N. | 0.2 | W. by S. | 0.2 | S. | 0.2 | S. | 0.2 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | 26 |
| E. by S. | 3.0 | E. by S. | 2.0 | E. by S. | 1.0 | E. by S. | 1.0 | E. N. E. | 1.0 | E. by N. | 1.0 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| N. E. | 0.2 | N. E. | 0.2 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.2 | E. S. E. | 0.2 | 29 |
| N. by E. | 3.0 | N. | 3.0 | N. | 3.0 | N. | 2.0 | N. by E. | 2.0 | N. N. E. | 2.0 | 30 |
| — | — | — | — | — | — | — | — | — | — | — | — | 31 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. by W. | 0.2 | — | 0.0 | S. W. | 0.2 | S. W. | 0.5 | S. W. | 0.2 | — | 0.0 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| N. N. E. | 1.0 | N. by E. | 1.0 | N. | 2.0 | N. by W. | 2.0 | N. by W. | 2.0 | N. by W. | 1.0 | 3 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| N. W. by W. | 0.5 | N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 1.0 | N. N. W. | 1.0 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.5 | N. by E. | 0.5 | 13 |
| E. by S. | 1.0 | E. by S. | 1.0 | E. by S. | 2.0 | E. by S. | 2.0 | E. by S. | 3.0 | E. | 3.0 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| W. S. W. | 5.0 | W. S. W. | 2.0 | W. | 2.0 | W. | 1.0 | W. | 2.5 | W. | 2.5 | 17 |
| N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | — | 0.0 | 18 |
| S. S. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| N. | 2.0 | N. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | 20 |
| — | 0.0 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | 21 |
| N. W. | 0.2 | N. W. | 2.0 | N. W. | 1.0 | N. W. | 0.5 | N. W. by N. | 1.0 | N. N. W. | 1.0 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| — | 0.0 | — | 0.0 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. N. E. | 3.0 | N. E. by N. | 3.5 | 26 |
| E. by N. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 | E. N. E. | 0.5 | — | 0.0 | 27 |
| N. by W. | 1.0 | N. by W. | 1.5 | N. N. W. | 0.5 | N. N. W. | 1.0 | N. N. W. | 1.5 | N. | 2.0 | 28 |
| N. E. | 2.5 | N. E. | 2.5 | N. E. | 2.0 | N. E. | 1.5 | N. E. | 2.5 | N. E. | 2.5 | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

MARCH.

MARCH.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|----------|------------------|----------|------------------|-------------|------------------|-------------|------------------|----------|------------------|----------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| APRIL. | 1 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·0 | S. E. | 0·2 | S. E. | 0·2 |
| | 2 | — | 0·0 | — | 0·0 | E. | 0·2 | E. by S. | 0·5 | E. S. E. | 0·5 | E. S. E. | 0·5 |
| | 3 | — | 0·0 | — | 0·0 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | S. W. | 0·2 | S. W. | 0·2 |
| | 4 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | E. by S. | 0·5 | E. | 0·5 | E. | 0·5 | E. by S. | 1·0 | E. | 1·0 | E. | 0·5 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 |
| | 9 | N. | 0·2 | N. | 0·2 | N. by E. | 0·2 | N. by E. | 0·5 | N. by E. | 0·5 | N. N. E. | 0·2 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. W. | 0·2 |
| | 17 | N. N. W. | 1·0 | N. by E. | 1·5 | N. by E. | 1·0 | N. by E. | 1·5 | N. by E. | 1·0 | N. N. W. | 0·5 |
| | 18 | N. | 0·2 | N. | 0·2 | — | 0·0 | E. N. E. | 0·5 | E. by S. | 0·5 | E. by S. | 0·5 |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 | E. by S. | 0·2 |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | N. N. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 | S. S. W. | 0·2 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. | 0·5 | N. E. | 0·5 |
| | 27 | — | 0·0 | — | 0·0 | E. N. E. | 0·5 | E. N. E. | 0·5 | E. | 0·5 | E. by S. | 0·5 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. E. | 0·2 |
| | 30 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | S. E. | 0·2 |
| APRIL. | 1 | E. by S. | 0·2 | E. | 0·2 | E. | 0·2 | E. | 0·2 | E. | 0·2 | — | 0·0 |
| | 2 | E. | 0·5 | E. | 0·5 | E. by S. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 3 | W. N. W. | 0·2 | W. N. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 4 | N. | 1·0 | N. | 1·0 | N. | 0·5 | — | 0·0 | — | 0·0 | N. | 0·5 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | E. by N. | 1·0 | E. by N. | 1·0 | E. | 1·0 | E. | 1·0 | E. | 1·0 | E. by N. | 1·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | N. by E. | 0·5 | N. by E. | 0·5 | N. by E. | 1·0 | N. by E. | 0·2 | N. by E. | 0·2 | — | 0·0 |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 10 | S. | 0·2 | S. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | S. S. E. | 0·2 | E. S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | N. E. | 0·2 | N. E. | 0·2 | — | 0·0 | N. E. | 0·2 | N. E. | 0·2 | N. E. | 0·2 |
| | 16 | W. N. W. | 0·2 | W. N. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | N. N. W. | 1·5 |
| | 17 | N. by E. | 1·0 | N. N. E. | 0·5 | N. N. E. | 0·5 | N. N. E. | 0·5 | N. N. E. | 0·5 | N. N. E. | 0·5 |
| | 18 | E. S. E. | 0·2 | E. S. E. | 0·2 | — | 0·0 | — | 0·0 | F. S. E. | 0·2 | E. S. E. | 0·2 |
| | 19 | E. S. E. | 0·2 | E. S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 20 | E. S. E. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | E. by N. | 0·2 | E. | 1·0 | E. | 2·0 | E. by S. | 3·0 | E. by S. | 3·0 |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 24 | N. | 1·0 | N. | 2·0 | N. W. | 2·0 | N. W. | 2·0 | N. N. W. | 1·0 | N. N. W. | 1·0 |
| | 25 | S. | 0·2 | — | 0·0 | S. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 |
| | 26 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | — | 0·0 | — | 0·0 |
| | 27 | E. S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 30 | E. by S. | 0·2 | E. by S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. E. | 0.2 | S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.2 | S. E. | 0.2 | E. by S. | 0.2 | 1 |
| E. S. E. | 0.5 | E. by S. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. by S. | 0.5 | E. by S. | 0.5 | 2 |
| S. W. by S. | 0.2 | S. W. by S. | 0.5 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. S. W. | 0.2 | W. N. W. | 0.2 | 3 |
| S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | N. W. | 0.5 | N. | 1.0 | N. | 1.0 | 4 |
| — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| E. by N. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. by N. | 1.0 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| S. | 0.2 | — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 8 |
| — | 0.0 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. E. by S. | 0.2 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. S. E. | 0.2 | S. S. E. | 0.2 | 11 |
| E. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| N. E. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | — | 0.0 | — | 0.0 | N. E. | 0.2 | 15 |
| N. W. | 0.2 | W. N. W. | 0.2 | W. | 0.2 | W. N. W. | 0.5 | W. N. W. | 0.2 | W. N. W. | 0.2 | 16 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.5 | N. N. E. | 0.5 | N. | 1.5 | 17 |
| E. S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 18 |
| — | 0.0 | — | 0.0 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 19 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.5 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| S. by E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | — | 0.0 | 22 |
| E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | S. W. | 1.0 | — | 0.0 | 23 |
| E. by S. | 0.2 | W. S. W. | 2.5 | W. N. W. | 2.0 | N. N. W. | 1.5 | N. | 2.5 | N. N. W. | 2.0 | 24 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | 25 |
| N. E. | 0.2 | E. N. E. | 0.2 | N. by E. | 0.2 | N. | 0.2 | N. by E. | 0.2 | N. by E. | 0.5 | 26 |
| E. | 5.0 | E. N. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.2 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. | 0.2 | — | 0.0 | 29 |
| S. E. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. by S. | 0.2 | 30 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| E. | 0.2 | E. | 0.2 | — | 0.0 | E. | 0.0 | — | 0.0 | — | 0.0 | 1 |
| — | 0.0 | — | 0.0 | E. | 0.2 | — | 0.2 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | W. N. W. | 0.5 | W. N. W. | 0.5 | W. by S. | 0.2 | W. by S. | 0.2 | — | 0.0 | 3 |
| — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.5 | E. by S. | 0.5 | E. by S. | 0.5 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| N. N. W. | 1.5 | N. N. W. | 1.5 | N. N. W. | 2.5 | N. N. W. | 2.0 | N. N. W. | 0.5 | N. N. W. | 1.5 | 16 |
| N. N. E. | 0.2 | N. by E. | 0.2 | N. | 0.5 | N. | 0.5 | N. | 0.5 | N. | 0.5 | 17 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| E. by S. | 3.0 | S. E. by E. | 2.0 | S. E. by E. | 2.0 | S. E. by E. | 1.0 | S. E. by E. | 1.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 23 |
| N. N. W. | 1.0 | N. N. W. | 1.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | 0.0 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | — | 0.0 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 29 |
| S. S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |

APRIL.

APRIL.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| MAY. | 1 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 |
| | 2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by W. | 0·5 | S. by W. | 0·5 |
| | 3 | — | 0·0 | — | 0·0 | — | 0·0 | E. S. E. | 0·2 | — | 0·0 | S. E. | 0·2 |
| | 4 | S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·2 | S. | 0·2 | S. | 0·2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | N. E. by E. | 0·2 | E. N. E. | 0·5 | E. N. E. | 0·2 | E. N. E. | 0·2 | N. E. by E. | 0·2 | N. E. by E. | 0·2 |
| | 7 | W. | 0·2 | W. | 0·2 | N. W. | 0·5 | W. N. W. | 1·0 | N. W. | 1·5 | N. W. | 1·0 |
| | 8 | — | 0·0 | — | 0·0 | S. by W. | 0·2 | S. by W. | 0·2 | W. N. W. | 0·5 | W. by S. | 0·5 |
| | 9 | N. W. by W. | 0·2 | N. W. by W. | 0·2 | N. W. by N. | 0·5 | N. W. | 1·0 | N. W. | 1·0 | N. W. by N. | 0·5 |
| | 10 | — | 0·0 | E. N. E. | 0·2 | E. by S. | 0·2 | E. by S. | 0·2 | E. by S. | 0·2 | E. by S. | 0·2 |
| | 11 | — | 0·0 | S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | — | 0·0 | — | 0·0 | N. E. by E. | 0·2 | E. by N. | 0·2 | E. by S. | 0·2 | E. by S. | 0·2 |
| | 14 | N. N. E. | 0·2 | N. | 0·2 | N. N. W. | 0·2 | N. W. by N. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·2 |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | E. | 0·2 | E. | 0·2 | E. N. E. | 0·2 | N. E. by E. | 0·2 | N. E. by E. | 0·2 | S. E. by E. | 0·2 |
| | 17 | N. by W. | 0·2 | N. by W. | 0·2 | N. | 0·2 | N. | 0·2 | S. W. | 0·2 | S. W. | 0·2 |
| | 18 | — | 0·0 | — | 0·0 | S. W. by S. | 0·2 | S. by W. | 0·2 | S. | 0·5 | S. S. W. | 0·5 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 21 | N. N. W. | 0·2 | N. by W. | 0·2 | N. N. W. | 0·2 | N. by W. | 0·2 | N. N. W. | 0·2 | N. by W. | 0·2 |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. W. by S. | 0·2 |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | S. by E. | 0·2 | S. by E. | 0·2 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | S. S. W. | 0·5 |
| | 28 | — | 0·0 | — | 0·0 | W. S. W. | 0·2 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 0·5 |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | S. S. E. | 0·2 |
| | 30 | E. by S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 31 | W. | 0·2 | W. by N. | 0·5 | W. by S. | 0·5 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 0·5 |
| MAY. | 1 | S. S. W. | 0·5 | S. S. W. | 0·5 | S. S. W. | 0·5 | — | 0·0 | S. S. W. | 1·0 | S. S. W. | 0·2 |
| | 2 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·5 | S. S. W. | 1·0 | S. S. W. | 7·0 | S. W. | 5·0 |
| | 3 | E. by S. | 0·5 | E. by S. | 0·5 | E. by N. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 |
| | 4 | S. S. W. | 0·2 | S. S. W. | 0·5 | — | 0·0 | — | 0·0 | — | — | — | — |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | S. E. | 0·2 | — | 0·0 | — | 0·0 | W. by N. | 1·0 | W. N. W. | 1·0 | W. N. W. | 1·5 |
| | 7 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | N. W. | 1·0 | N. W. | 1·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 9 | N. | 0·5 | N. | 0·2 | N. | 0·2 | N. | 1·2 | N. | 0·2 | N. | 0·2 |
| | 10 | E. | 0·5 | E. | 0·5 | E. | 0·5 | E. by S. | 0·5 | E. | 0·5 | E. | 0·5 |
| | 11 | S. S. W. | 0·5 | — | 0·0 | N. N. W. | 1·5 | N. W. | 1·0 | N. W. | 1·5 | N. W. | 1·5 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | E. by N. | 0·2 | E. by N. | 0·5 | E. by N. | 0·5 | E. | 1·0 | N. E. by E. | 0·5 | N. E. by E. | 0·5 |
| | 14 | S. W. by S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | E. S. E. | 0·2 | — | 0·0 | — | 0·0 | S. S. E. | 0·2 | S. S. E. | 0·2 | S. S. E. | 0·2 |
| | 16 | — | 0·0 | N. | 0·5 | N. by W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. by W. | 0·5 |
| | 17 | S. S. W. | 0·5 | S. S. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 18 | N. W. | 0·5 | N. N. E. | 1·0 | N. | 0·5 | N. | 0·2 | N. by W. | 0·2 | — | 0·0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | N. W. | 1·5 | N. W. by W. | 0·2 | — | 0·0 | N. W. by N. | 0·5 | N. W. by N. | 0·2 | N. W. by N. | 0·5 |
| | 21 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 22 | S. | 0·5 | S. | 0·5 | S. | 0·5 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 23 | S. W. | 0·5 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | S. by W. | 0·5 | S. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·5 | — | 0·0 | — | 0·0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | S. S. W. | 0·2 | W. S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 28 | W. | 0·2 | W. | 0·2 | W. by N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. N. E. | 0·5 | E. N. E. | 0·5 |
| | 30 | S. E. | 0·2 | S. E. | 0·5 | S. E. by E. | 0·2 | S. E. | 0·2 | S. E. | 0·2 | S. E. | 0·2 |
| | 31 | W. S. W. | 0·2 | W. S. W. | 0·2 | W. S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 0.5 | 1 |
| S. by W. | 0.5 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 0.5 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. S. E. | 0.2 | 3 |
| S. | 0.2 | — | 0.0 | — | 0.0 | S. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | 4 |
| — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| E. by N. | 0.2 | — | 0.0 | E. by N. | 0.2 | — | 0.0 | E. by S. | 0.5 | S. E. by E. | 0.5 | 6 |
| N. | 1.0 | N. by W. | 1.0 | N. N. W. | 2.0 | N. W. | 1.0 | N. W. by W. | 1.0 | N. N. W. | 0.5 | 7 |
| W. | 1.0 | W. | 2.0 | W. | 2.0 | N. W. | 2.0 | N. W. | 2.5 | N. W. by W. | 1.5 | 8 |
| N. W. | 0.5 | N. W. | 0.5 | N. W. by W. | 1.5 | N. W. by W. | 1.5 | N. W. | 1.5 | N. W. | 1.0 | 9 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. | 0.5 | 10 |
| — | 0.0 | — | 0.0 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | S. S. W. | 1.0 | 11 |
| — | — | — | — | — | — | — | — | — | — | — | — | 12 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by N. | 0.2 | 13 |
| N. N. W. | 0.2 | N. N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | N. W. by W. | 0.5 | 14 |
| — | 0.0 | — | 0.0 | S. by E. | 0.2 | S. S. E. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | 15 |
| S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | — | 0.0 | — | 0.0 | 16 |
| S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | 17 |
| S. W. | 0.5 | W. | 3.5 | W. N. W. | 4.0 | N. W. | 1.5 | W. N. W. | 1.0 | N. W. | 0.5 | 18 |
| — | — | — | — | — | — | — | — | — | — | — | — | 19 |
| E. S. E. | 0.2 | S. S. W. | 0.2 | W. S. W. | 0.5 | W. N. W. | 0.5 | N. W. | 0.5 | N. N. W. | 0.5 | 20 |
| S. W. | 0.2 | S. W. | 0.2 | S. W. by S. | 0.5 | S. S. W. | 0.5 | S. by W. | 0.2 | S. by W. | 0.2 | 21 |
| S. by W. | 0.2 | S. by W. | 0.5 | S. by W. | 1.0 | S. | 1.0 | S. | 1.0 | S. | 1.0 | 22 |
| S. | 0.2 | S. | 0.2 | S. | 0.5 | S. | 1.0 | S. | 1.0 | S. by W. | 1.0 | 23 |
| S. E. by S. | 0.2 | S. by E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. | 0.2 | — | 0.0 | 24 |
| S. | 0.2 | S. E. by S. | 0.5 | S. by E. | 1.0 | S. S. E. | 1.0 | S. E. | 1.0 | S. by W. | 0.5 | 25 |
| — | — | — | — | — | — | — | — | — | — | — | — | 26 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | — | — | — | — | S. S. W. | 0.5 | S. S. W. | 0.5 | 27 |
| W. S. W. | 0.5 | W. | 0.5 | W. | 0.2 | W. | 0.2 | W. | 0.2 | W. | 0.2 | 28 |
| S. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 29 |
| S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.5 | 30 |
| W. S. W. | 0.5 | W. S. W. | 1.0 | W. S. W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.2 | W. S. W. | 0.2 | 31 |

MAY.

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| W. S. W. | 1.0 | W. N. W. | 1.0 | W. N. W. | 0.5 | N. N. E. | 0.2 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. by W. | 0.2 | 3 |
| — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| S. S. W. | 0.2 | S. | 0.2 | S. by E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. | 0.2 | 5 |
| W. N. W. | 2.0 | W. N. W. | 3.5 | W. N. W. | 1.5 | W. N. W. | 0.5 | W. N. W. | 1.0 | W. by N. | 0.5 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. | 0.5 | N. W. | 0.2 | 8 |
| N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | — | — | — | — | — | — | — | — | — | — | — | 11 |
| — | 0.0 | — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | — | 0.0 | 12 |
| N. E. by E. | 0.5 | N. E. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. | 0.2 | — | 0.0 | 15 |
| N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | — | — | — | — | — | — | — | — | — | — | — | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| N. W. by N. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| N. E. | 1.0 | E. | 1.0 | E. by S. | 1.0 | E. by S. | 1.0 | E. | 0.5 | E. by S. | 0.2 | 29 |
| S. E. | 0.2 | S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

MAY.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | |
|----------------------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. by W. | 0.2 | S. by W. | 0.5 | S. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| S. | 0.5 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 3 |
| S. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | S. E. | 0.2 | S. E. | 0.2 | 4 |
| S. E. | 0.2 | S. | 0.2 | S. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | — | 0.0 | 5 |
| N. W. | 0.5 | N. W. | 0.5 | N. W. by N. | 0.5 | N. N. W. | 0.5 | N. W. | 0.5 | W. N. W. | 0.5 | 6 |
| — | 0.0 | S. by W. | 0.2 | S. by W. | 0.2 | N. by E. | 0.5 | N. W. | 1.0 | N. W. | 1.0 | 7 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| W. | 2.0 | W. | 2.0 | W. | 3.0 | N. W. by N. | 4.0 | W. N. W. | 4.2 | W. N. W. | 1.0 | 10 |
| S. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | 11 |
| E. | 0.2 | E. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 | E. N. E. | 0.2 | E. by S. | 0.2 | 12 |
| E. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | S. E. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | E. by S. | 0.2 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | 17 |
| S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. E. | 0.2 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | W. N. W. | 0.2 | W. N. W. | 0.5 | W. N. W. | 0.5 | — | 0.0 | N. | 0.5 | 19 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. E. by N. | 0.5 | 20 |
| S. E. by E. | 0.2 | E. S. E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | — | 0.0 | 21 |
| N. N. E. | 0.2 | N. N. E. | 0.2 | N. | 0.2 | N. by E. | 0.5 | N. by E. | 0.2 | N. N. E. | 0.5 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| S. S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | 24 |
| S. W. | 0.2 | S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.2 | — | 0.0 | S. W. | 0.2 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| E. | 0.5 | E. N. E. | 0.2 | N. E. by E. | 0.2 | N. E. by E. | 0.2 | — | 0.0 | E. | 0.2 | 27 |
| W. S. W. | 1.0 | W. by S. | 2.0 | W. by S. | 2.0 | W. by S. | 1.0 | W. S. W. | 0.5 | W. S. W. | 0.5 | 28 |
| S. E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | — | 0.0 | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.2 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | — | 0.0 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | — | 0.0 | N. N. W. | 0.2 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. E. | 0.2 | N. | 0.2 | 20 |
| E. N. E. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| S. W. | 0.2 | — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| S. by E. | 0.2 | S. by W. | 0.2 | S. W. | 0.5 | — | 0.0 | S. W. | 0.5 | S. W. by S. | 0.5 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | — | — | 0.0 | — | 0.0 | 30 |

JUNE.

JUNE.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| JULY. | 1 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | S. S. W. | lbs. 0·5 |
| | 2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. | 0·2 |
| | 3 | — | 0·0 | — | 0·0 | N. by W. | 0·2 | N. by W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 |
| | 4 | N. by W. | 0·2 | N. by W. | 0·2 | N. | 0·2 | E. by N. | 0·2 | S. E. | 0·2 | S. | 0·5 |
| | 5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | W. | 0·2 | W. | 0·2 | W. | 0·2 | W. by N. | 0·2 | W. by N. | 0·5 | W. N. W. | 1·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | S. | 0·2 | S. W. | 0·2 |
| | 10 | S. W. | 0·2 | W. | 0·5 | W. | 0·5 | W. by N. | 1·0 | N. W. | 0·5 | N. W. | 0·5 |
| | 11 | N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·2 |
| | 12 | — | 0·0 | — | 0·0 | S. | 0·2 | S. | 0·2 | S. | 0·2 | S. | 0·2 |
| | 13 | — | 0·0 | N. W. | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | S. E. | 0·5 |
| | 16 | E. | 1·0 | E. | 1·0 | E. | 1·0 | E. by N. | 1·0 | E. N. E. | 0·5 | E. N. E. | 0·5 |
| | 17 | — | 0·0 | — | 0·0 | N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·2 | N. W. | 0·2 |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. by E. | 0·2 | S. W. | 0·2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | S. E. | 0·2 | S. E. | 0·2 | — | 0·0 | S. | 0·2 | S. by W. | 0·2 |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | E. by N. | 0·2 | E. N. E. | 0·2 | E. by N. | 0·2 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. by E. | 0·2 | E. N. E. | 0·2 | E. by N. | 0·2 |
| | 25 | E. | 0·2 | N. E. by E. | 0·2 | N. E. by E. | 0·5 | N. E. by E. | 0·5 | N. E. by E. | 0·5 | E. N. E. | 0·5 |
| | 26 | N. E. by N. | 0·2 | N. E. by N. | 0·2 | N. E. by E. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·2 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. S. E. | 0·2 | S. E. by E. | 0·2 |
| | 30 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | S. by E. | 0·2 |
| | 31 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | W. by S. | 0·2 | W. | 0·2 |
| JULY. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | 1 | W. S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 2 | N. by E. | 0·2 | N. by E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 3 | N. by W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·2 |
| | 4 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 5 | S. S. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | N. W. | 2·0 | N. W. | 0·5 | — | 0·0 | N. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 9 | — | 0·0 | — | 0·0 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 10 | N. W. | 2·0 | N. W. | 2·0 | N. W. | 1·0 | N. W. | 0·5 | N. W. | 1·0 | N. W. | 0·5 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | S. by W. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. by W. | 0·2 | — | 0·0 |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 19 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | S. by E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 23 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | E. | 0·2 | E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | S. | 0·2 | S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 30 | S. by W. | 0·2 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| 31 | — | 0·0 | — | 0·0 | W. N. W. | 7·0 | W. N. W. | 0·5 | W. N. W. | 0·5 | N. N. W. | 0·2 | |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. W. | 0.5 | S. W. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | 1 |
| S. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 0.2 | E. N. E. | 1.0 | N. by E. | 0.5 | 2 |
| N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 1.0 | N. by W. | 1.0 | N. | 1.0 | N. by W. | 1.0 | 3 |
| S. | 0.5 | S. | 0.5 | S. | 0.5 | S. by E. | 0.5 | S. by E. | 0.5 | S. by E. | 0.2 | 4 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | 5 |
| W. N. W. | 1.0 | W. | 1.0 | W. N. W. | 1.0 | W. N. W. | 1.0 | N. W. | 3.0 | N. W. | 2.0 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| S. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 8 |
| S. W. | 0.5 | S. W. | 1.0 | S. by W. | 2.0 | S. | 0.5 | S. by W. | 0.5 | S. W. | 0.5 | 9 |
| N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 1.0 | N. W. | 1.5 | N. W. | 1.5 | 10 |
| — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 11 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 12 |
| S. | 0.2 | S. | 0.2 | S. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. | 0.2 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| S. E. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| E. N. E. | 1.0 | E. N. E. | 0.5 | E. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| N. W. | 0.2 | S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | 17 |
| S. | 0.2 | S. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 18 |
| S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | N. W. by W. | 0.2 | N. N. W. | 0.2 | W. N. W. | 0.2 | 19 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. W. by W. | 0.2 | S. W. by W. | 0.2 | S. W. by W. | 0.2 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| S. by W. | 0.2 | S. by W. | 1.0 | S. by W. | 1.0 | S. S. W. | 0.2 | N. by W. | 0.2 | S. by E. | 0.5 | 22 |
| E. | 0.2 | E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | S. E. by S. | 0.2 | — | 0.0 | 23 |
| E. | 0.2 | E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | — | 0.0 | 24 |
| E. N. E. | 0.5 | E. | 0.5 | E. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| E. N. E. | 0.2 | E. N. E. | 0.2 | E. by N. | 0.2 | E. by S. | 0.2 | E. | 0.2 | E. | 0.2 | 26 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | S. E. by E. | 0.2 | — | 0.0 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.5 | S. | 0.2 | 29 |
| S. by E. | 0.2 | — | 0.0 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 2.0 | S. by E. | 3.0 | 30 |
| W. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. | 0.5 | S. by W. | 0.2 | S. by W. | 0.2 | 31 |

JULY.

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. by W. | 0.2 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| N. W. | 0.5 | W. by N. | 0.5 | W. by N. | 0.5 | N. W. | 0.5 | N. W. | 0.5* | N. W. | 0.2 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| — | 0.0 | E. | 0.2 | — | 0.0 | — | 0.0 | E. | 0.5 | E. | 0.5 | 15 |
| — | 0.0 | — | 0.0 | N. E. | 0.2 | N. E. | 0.5 | N. E. | 0.5 | — | 0.0 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | 0.0 | N. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | N. E. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. | 0.5 | N. E. by N. | 0.2 | 25 |
| — | 0.0 | E. | 0.2 | E. | 0.2 | E. | 0.5 | E. | 0.5 | — | 0.0 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 29 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |
| N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

JULY.

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| W. by S. | 0.2 | — | 0.0 | S. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | E. | 0.2 | 1 |
| N. by E. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | 2 |
| E. | 0.2 | E. S. E. | 0.2 | E. by S. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 3 |
| — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | 5 |
| — | 0.0 | S. W. | 0.2 | S. W. by W. | 0.2 | N. by W. | 0.5 | N. | 0.5 | N. | 0.2 | 6 |
| S. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. S. W. | 0.5 | 7 |
| — | 0.0 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | 8 |
| W. | 1.5 | W. | 1.0 | W. by N. | 0.2 | W. by N. | 0.2 | W. by N. | 0.2 | W. by N. | 0.2 | 9 |
| S. | 0.5 | S. | 0.2 | W. by S. | 0.5 | W. by N. | 1.0 | N. W. | 0.5 | N. W. | 0.5 | 10 |
| — | — | — | — | — | — | — | — | — | — | — | — | 11 |
| S. W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | 12 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | — | 0.0 | S. E. | 0.2 | 13 |
| — | 0.0 | E. S. E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | — | 0.0 | 14 |
| S. | 0.2 | S. | 0.2 | S. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 15 |
| S. | 0.2 | S. | 0.5 | S. | 1.0 | S. by E. | 0.5 | S. by W. | 0.5 | S. W. | 0.5 | 16 |
| W. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.5 | 17 |
| — | — | — | — | — | — | — | — | — | — | — | — | 18 |
| S. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| N. N. E. | 0.5 | N. N. E. | 0.5 | N. N. E. | 0.5 | N. by E. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | 20 |
| E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | N. N. E. | 0.2 | E. by S. | 0.2 | 21 |
| E. | 0.2 | — | 0.0 | E. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 | 22 |
| N. W. | 0.5 | W. N. W. | 0.5 | W. | 0.5 | W. | 0.5 | W. | 0.5 | W. N. W. | 0.5 | 23 |
| S. W. | 0.5 | W. S. W. | 1.0 | W. S. W. | 0.5 | W. S. W. | 0.5 | W. N. W. | 0.5 | N. W. | 0.2 | 24 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| — | 0.0 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | 26 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| N. N. W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | 29 |
| E. by S. | 0.2 | E. by S. | 0.2 | — | 0.0 | — | 0.0 | E. by S. | 0.2 | — | 0.0 | 30 |
| — | 0.0 | S. | 0.2 | S. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | 31 |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 September |

AUGUST.

AUGUST.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| SEPTEMBER. | 1 | — | lbs. | — | lbs. | — | — | — | — | — | — | — | |
| | 2 | — | 0·0 | — | 0·0 | — | 0·0 | E by S. | 0·2 | E. by S. | 0·2 | E. by S. | 0·2 |
| | 3 | N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 | N. W. | 0·5 |
| | 4 | — | 0·0 | — | 0·0 | N. N. W. | 0·5 | N. by W. | 0·5 | N. by W. | 0·2 | N. by W. | 0·2 |
| | 5 | — | 0·0 | S. E. | 0·2 | S. E. | 0·5 | S. by E. | 0·5 | E. | 0·2 | E. | 0·2 |
| | 6 | E. | 0·2 | E. | 0·2 | E. | 0·2 | E. by N. | 0·5 | E. by S. | 0·5 | E. by S. | 0·5 |
| | 7 | — | 0·0 | — | 0·0 | — | 0·0 | E. S. E. | 0·2 | S. E. | 0·2 | S. E. | 0·2 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | N. E. by N. | 0·2 | N. E. by N. | 0·2 | N. E. by N. | 0·2 | N. E. by N. | 0·5 | N. E. by N. | 0·5 | N. E. by N. | 0·2 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. N. E. | 0·2 | S. E. | 0·2 |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | S. E. | 0·2 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 18 | N. N. W. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·2 | N. by W. | 0·2 | S. W. | 0·5 |
| | 19 | N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·5 | S. S. W. | 0·5 |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 |
| | 21 | S. S. W. | 0·2 | S. S. W. | 0·5 | S. S. W. | 1·5 | S. S. W. | 2·0 | W. by N. | 5·0 | W. | 5·0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | — | 0·0 | E. | 0·5 | E. | 0·2 | E. | 0·2 | E. | 0·2 | E. S. E. | 0·2 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | W. | 0·2 | — | 0·0 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | — | 0·0 | N. W. | 0·2 | N. W. | 0·2 | — | 0·0 | N. W. by N. | 0·5 | N. | 0·2 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | N. | 0·2 | N. by E. | 0·2 | N. N. E. | 0·2 |
| | 28 | N. | 0·2 | N. | 0·2 | N. | 0·2 | N. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·2 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | N. by E. | 0·2 | N. by E. | 0·2 | N. by E. | 0·2 | N. N. E. | 0·2 | N. N. E. | 0·2 | N. N. E. | 0·5 |
| SEPTEMBER. | | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | |
| | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | W. | 1·5 | N. W. by W. | 3·5 | N. W. by W. | 2·5 | N. W. by W. | 1·0 | N. W. by W. | 1·0 | N. W. | 0·5 |
| | 3 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 4 | N. | 0·5 | N. | 0·2 | N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 5 | E. | 0·2 | E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 |
| | 6 | E. by N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 7 | E. | 0·5 | E. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | — | 0·0 | — | 0·0 | N. E. | 0·2 | N. E. | 0·5 | N. E. | 0·5 | N. E. | 0·5 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. | 0·2 | — | 0·0 | N. E. | 0·2 |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 19 | S. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 20 | S. S. W. | 1·0 | S. S. W. | 0·5 | S. S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 21 | W. N. W. | 2·5 | W. N. W. | 2·5 | W. N. W. | 1·0 | W. N. W. | 1·0 | W. N. W. | 0·5 | W. N. W. | 0·5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | N. N. W. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·2 |
| | 26 | N. | 0·2 | N. | 0·2 | N. | 0·2 | N. | 0·2 | N. | 0·2 | — | 0·0 |
| | 27 | N. by E. | 0·2 | N. | 0·2 | N. | 0·2 | N. by E. | 0·2 | N. by E. | 0·5 | N. by E. | 0·2 |
| | 28 | E. by S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | E. by S. | 0·2 | — | — |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| 30 | N. by E. | 0·5 | N. by E. | 1·0 | N. by E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| — | 0.0 | — | 0.0 | E. | 0.2 | S. by E. | 0.2 | W. by S. | 0.5 | W. | 1.0 | 2 |
| N. W. | 0.5 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.5 | — | 0.0 | 3 |
| N. by W. | 0.2 | N. N. W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. | 0.5 | N. by W. | 0.5 | 4 |
| E. S. E. | 0.2 | E. by S. | 1.0 | E. | 1.0 | E. | 1.0 | E. | 0.5 | E. | 0.2 | 5 |
| E. by S. | 0.5 | E. by S. | 0.2 | E. by S. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.2 | E. by N. | 0.2 | 6 |
| S. E. | 0.2 | E. by S. | 0.5 | E. by S. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | E. S. E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | N. E. by E. | 0.2 | N. E. | 0.2 | 11 |
| N. E. by N. | 0.2 | E. by S. | 0.2 | E. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | 12 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | — | 0.0 | — | 0.0 | 13 |
| S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. S. E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | 14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| — | 0.0 | S. | 0.2 | — | 0.0 | — | 0.0 | S. | 0.2 | — | 0.0 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | — | 0.0 | 17 |
| S. W. by S. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | 18 |
| S. S. W. | 0.5 | S. by W. | 1.0 | S. by W. | 1.0 | S. by W. | 1.0 | S. by W. | 0.2 | S. by W. | 0.2 | 19 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 1.0 | S. W. by S. | 0.0 | S. S. W. | 1.5 | 20 |
| W. | 3.5 | W. S. W. | 5.0 | W. by N. | 5.0 | W. by N. | 4.0 | W. N. W. | 5.0 | W. N. W. | 5.0 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| E. | 0.2 | E. by N. | 0.2 | E. by S. | 0.2 | E. by N. | 0.2 | E. | 0.5 | E. | 0.2 | 23 |
| N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 1.2 | N. N. W. | 0.2 | — | 0.0 | 25 |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | 26 |
| N. E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | 27 |
| E. | 0.5 | E. | 0.5 | E. | 0.2 | E. | 0.5 | E. | 0.5 | — | 0.0 | 28 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| N. N. E. | 0.2 | N. N. E. | 0.5 | N. N. E. | 2.5 | N. | 3.5 | N. by E. | 4.0 | N. by E. | 2.5 | 30 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| — | 0.0 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. | 0.2 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 8 |
| N. E. | 0.2 | N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| N. E. by N. | 0.2 | N. E. by N. | 0.2 | N. E. by N. | 0.5 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | 11 |
| E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.2 | — | 0.0 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| W. | 0.2 | N. W. | 0.5 | N. by W. | 2.0 | N. by W. | 1.0 | N. by W. | 0.5 | N. N. W. | 0.2 | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| — | 0.0 | E. | 0.2 | E. | 0.2 | E. | 0.5 | E. | 0.2 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | 26 |
| N. by E. | 0.2 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | 29 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |

SEPTEMBER.

SEPTEMBER.

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.5 | E. by S. | 0.2 | E. by S. | 0.2 | — | 0.0 | 1 |
| — | 0.0 | E. by S. | 0.2 | — | 0.0 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | 2 |
| — | 0.0 | W. N. W. | 0.2 | S. S. E. | 0.0 | S. E. | 0.2 | S. E. | 0.2 | E. | 0.2 | 3 |
| S. by E. | 0.2 | N. by E. | 0.2 | N. | 0.0 | N. by E. | 0.2 | N. | 0.5 | N. | 0.2 | 4 |
| N. W. | 1.0 | N. W. | 0.2 | N. W. by N. | 0.0 | N. W. by N. | 0.5 | N. W. by N. | 1.0 | N. W. by N. | 0.2 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| N. by E. | 0.2 | N. | 0.2 | — | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| S. S. W. | 1.0 | S. S. W. | 2.0 | S. W. | 3.0 | S. W. | 1.5 | S. W. | 2.5 | S. W. by S. | 2.0 | 8 |
| W. by S. | 0.5 | W. by S. | 0.5 | W. by S. | 0.0 | S. W. | 0.2 | S. W. | 0.2 | — | 0.0 | 9 |
| N. W. | 1.5 | N. W. | 1.5 | N. N. W. | 2.5 | N. by W. | 1.5 | N. | 0.2 | N. | 0.2 | 10 |
| E. S. E. | 0.5 | S. E. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.0 | — | 0.0 | — | 0.0 | 11 |
| S. E. by E. | 0.2 | — | 0.0 | S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| — | 0.0 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. S. W. | 0.2 | 14 |
| — | 0.0 | — | 0.0 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | 15 |
| N. W. by W. | 0.2 | N. W. by W. | 0.2 | — | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| — | 0.0 | — | 0.0 | — | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.2 | E. N. E. | 0.5 | E. N. E. | 1.5 | E. N. E. | 3.0 | 18 |
| W. | 6.0 | W. by N. | 7.0 | W. | 7.0 | W. | 6.0 | W. | 5.0 | W. | 2.5 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.2 | — | 0.0 | 21 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.5 | E. S. E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| E. | 0.2 | E. | 0.2 | E. | 0.5 | E. by N. | 0.5 | E. N. E. | 0.2 | E. N. E. | 0.2 | 24 |
| — | 0.0 | S. S. E. | 0.2 | S. by E. | 0.2 | S. by W. | 3.0 | S. by W. | 0.5 | S. W. | 2.5 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| N. E. | 1.0 | N. E. | 1.0 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | N. N. E. | 0.5 | 28 |
| N. by W. | 1.0 | N. by W. | 1.0 | N. by W. | 1.0 | N. by W. | 1.0 | N. by W. | 1.0 | N. by W. | 1.0 | 29 |
| N. by W. | 0.2 | N. by W. | 0.5 | N. by W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | 30 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| S. | 6.0 | — | 0.0 | W. N. W. | 1.0 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | 4 |
| — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | 6 |
| N. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | — | — | — | — | — | — | — | — | — | — | — | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| S. W. | 7.0 | S. W. | 7.0 | S. W. | 7.0 | W. S. W. | 7.0 | W. S. W. | 7.0 | W. | 5.0 | 18 |
| — | — | — | — | — | — | — | — | — | — | — | — | 19 |
| N. W. | 0.2 | — | 0.0 | — | 0.0 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | — | — | — | — | — | — | — | — | — | — | — | 26 |
| N. E. | 1.5 | N. N. E. | 0.5 | E. N. E. | 2.0 | N. E. | 1.5 | N. E. | 0.5 | N. E. | 1.0 | 27 |
| N. N. E. | 0.5 | N. N. E. | 0.5 | N. by E. | 0.5 | N. by E. | 1.5 | N. by E. | 1.5 | N. by E. | 1.0 | 28 |
| N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | 29 |
| N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

OCTOBER.

OCTOBER.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | Mean Göttingen Time. | |
|----------------------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|----|
| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | | |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | NOVEMBER. | |
| | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 1 |
| S. W. | 0.5 | S. W. | 0.2 | S. W. | 0.5 | S. W. | 0.2 | — | 0.0 | — | 0.0 | | 2 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 3 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. by E. | 0.2 | | 4 |
| N. N. W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.2 | — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | | 5 |
| N. W. | 2.0 | N. W. | 1.5 | N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.2 | N. W. | 0.2 | | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 7 |
| N. W. | 0.2 | N. W. | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. W. by W. | 0.2 | — | 0.0 | N. W. | 0.2 | | 9 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. | 0.2 | — | 0.0 | | 12 |
| W. by N. | 2.0 | W. | 2.5 | W. | 2.0 | W. | 1.5 | W. | 0.5 | — | 0.0 | | 13 |
| W. by N. | 0.5 | W. by N. | 0.2 | W. | 0.2 | W. | 0.5 | — | 0.0 | — | 0.0 | | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 16 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 17 |
| N. W. | 1.5 | N. W. | 2.5 | N. W. | 1.5 | N. N. W. | 1.5 | N. N. W. | 2.5 | N. N. W. | 1.0 | | 18 |
| S. S. W. | 3.0 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 3.5 | S. W. | 4.0 | S. W. by S. | 2.5 | | 19 |
| — | 0.0 | — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | | 20 |
| E. | 0.2 | E. | 0.2 | E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | | 21 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | — | 0.0 | | 22 |
| S. W. by W. | 3.5 | W. S. W. | 5.5 | W. S. W. | 5.0 | W. S. W. | 3.5 | W. S. W. | 1.0 | W. S. W. | 1.0 | | 23 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 24 |
| N. W. | 4.5 | N. W. | 5.0 | N. W. | 3.0 | N. W. | 2.0 | W. N. W. | 0.5 | N. W. | 0.5 | | 25 |
| S. S. E. | 2.0 | S. by W. | 2.0 | S. S. W. | 2.5 | S. W. | 2.0 | S. W. | 1.5 | S. W. | 1.5 | | 26 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | | 27 |
| N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | | 28 |
| N. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | | 29 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 30 | |
| — | — | — | — | — | — | — | — | — | — | — | — | 31 | |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | Mean Göttingen Time. | |
|----------------------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|----|
| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | | |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | NOVEMBER. | |
| | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 2 |
| N. N. E. | 0.5 | N. N. E. | 0.5 | N. N. E. | 0.5 | N. N. E. | 0.5 | N. N. E. | 0.2 | — | 0.0 | | 3 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.2 | — | 0.2 | | 5 |
| — | 0.0 | — | 0.0 | E. S. E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.2 | | 6 |
| N. N. W. | 0.2 | N. W. | 0.5 | N. W. | 0.5 | N. W. by W. | 0.5 | N. W. by W. | 0.5 | — | 0.0 | | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 9 |
| E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.5 | | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 1.0 | E. | 1.5 | | 11 |
| W. N. W. | 0.2 | W. N. W. | 0.2 | — | 0.0 | — | 0.0 | E. | 0.0 | — | 0.0 | | 12 |
| W. | 0.5 | W. | 0.5 | W. | 0.2 | W. | 0.2 | W. | 0.2 | — | 0.0 | | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 16 |
| W. | 3.0 | W. | 3.5 | W. N. W. | 3.5 | W. N. W. | 4.5 | N. N. W. | 3.5 | W. N. W. | 3.0 | | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. S. W. | 1.0 | | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 23 |
| N. W. | 2.0 | N. W. | 1.5 | N. W. | 2.0 | N. W. | 2.5 | N. W. | 2.5 | N. W. | 4.5 | | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 25 |
| W. by N. | 2.0 | W. by N. | 3.0 | W. by N. | 2.5 | W. N. W. | 2.5 | N. W. | 2.5 | N. W. | 1.0 | | 26 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. E. | 0.5 | — | 0.0 | E. | 0.5 | E. by S. | 0.5 | | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 28 |
| — | 0.0 | S. E. by S. | 0.5 | S. S. E. | 0.2 | S. E. by S. | 0.2 | S. | 0.2 | S. | 0.2 | | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 | |
| — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | 31 | |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|----------|------------------|----------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|----------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| DECEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. N. W. | 1.0 | N. N. W. | 1.0 | N. by W. | 0.5 |
| | 3 | — | 0.0 | — | 0.0 | — | 0.0 | E. S. E. | 0.2 | E. S. E. | 0.2 | S. E. | 0.2 |
| | 4 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 5 | E. | 0.5 | E. | 1.0 | E. | 0.5 | E. | 0.4 | E. | 0.4 | E. | 0.2 |
| | 6 | N. E. | 0.2 | — | 0.0 | E. | 0.2 | E. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 |
| | 7 | E. | 0.2 | E. | 0.2 | E. | 0.2 | — | 0.0 | S. W. | 0.2 | S. W. | 0.4 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | — | 0.0 | S. W. | 0.2 | S. W. | 0.2 |
| | 10 | N. W. | 0.2 | N. E. | 0.5 | N. N. E. | 0.5 | N. N. E. | 0.5 | N. by E. | 0.5 | N. by E. | 0.2 |
| | 11 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. | 0.2 | S. E. | 0.2 |
| | 12 | — | 0.0 | — | 0.0 | S. E. | 0.2 | S. S. E. | 0.2 | S. | 0.2 | S. | 0.5 |
| | 13 | S. | 0.2 | S. | 0.5 | S. | 0.5 | S. | 0.5 | S. | 1.0 | S. | 0.2 |
| | 14 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. by N. | 0.2 | N. W. by N. | 0.2 | N. by W. | 0.2 |
| | 17 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 |
| | 18 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. | 0.2 | W. | 0.5 |
| | 19 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | W. | 0.2 |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 21 | S. S. E. | 1.0 | S. S. E. | 1.0 | S. S. E. | 1.0 | S. S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | N. N. W. | 5.0 | N. N. W. | 3.0 | N. N. W. | 5.0 | N. | 5.0 | N. | 5.0 | N. | 5.0 |
| | 24 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | S. W. | 0.2 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | — | 0.0 | — | 0.0 | S. W. by W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 |
| | 27 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.2 | N. | 0.2 | N. | 0.2 |
| | 28 | N. | 0.2 | — | 0.0 | N. | 0.2 | — | 0.0 | — | 0.0 | E. | 0.2 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | E. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 | W. S. W. | 0.2 | W. | 5.0 |
| | 31 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.2 |
| DECEMBER. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | — | 0.0 |
| | 3 | E. | 0.2 | — | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 |
| | 4 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.5 | E. | 0.5 |
| | 5 | E. | 0.5 | E. | 0.5 | E. | 1.0 | E. | 0.5 | E. | 0.5 | E. | 0.2 |
| | 6 | — | 0.0 | E. | 0.5 | E. | 1.0 | E. | 0.2 | E. | 0.5 | E. | 0.5 |
| | 7 | W. S. W. | 2.5 | W. S. W. | 1.0 | W. N. W. | 4.0 | W. N. W. | 4.0 | N. N. W. | 5.0 | N. N. W. | 3.0 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 10 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 |
| | 11 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. E. | 0.2 | — | 0.0 |
| | 12 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 13 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 14 | W. | 1.0 | W. | 0.2 | W. | 0.2 | W. | 0.5 | W. | 0.5 | W. | 0.5 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | N. W. | 1.0 | N. W. | 1.0 | W. N. W. | 1.0 | W. N. W. | 0.5 | W. N. W. | 0.5 | — | 0.0 |
| | 17 | W. | 1.0 | W. | 1.0 | W. | 0.5 | — | 0.0 | W. N. W. | 0.2 | W. N. W. | 0.5 |
| | 18 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 19 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | — | 0.0 |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 21 | S. E. | 0.5 | S. E. | 0.2 | S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | N. W. | 3.0 | N. W. | 3.0 | N. W. | 2.0 | N. W. | 1.0 | N. W. | 1.0 | N. W. | 1.0 |
| | 24 | S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | N. W. | 1.0 | N. W. | 1.0 | N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.5 | — | 0.0 |
| | 27 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | W. | 0.2 | W. | 0.2 | W. | 0.2 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | W. | 1.0 | W. by N. | 1.0 | W. by N. | 0.5 | W. by N. | 5.0 | W. by N. | 3.0 | W. by N. | 3.0 |
| | 31 | — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. E. | 0.2 |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | Mean Göttingen Time. |
|----------------------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | lbs. | — | lbs. | — | lbs. | — | lbs. | — | lbs. | — | lbs. | 1 |
| N. by W. | 0.2 | N. by W. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 | E. by N. | 0.5 | E. by N. | 0.2 | 2 |
| S. E. by E. | 0.2 | S. E. | 0.2 | E. by S. | 0.2 | E. | 0.2 | — | 0.0 | E. | 0.2 | 3 |
| E. | 0.0 | E. | 0.2 | E. by N. | 0.2 | E. | 0.2 | E. N. E. | 0.2 | E. | 0.2 | 4 |
| N. E. | 0.4 | E. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 | E. N. E. | 0.5 | E. | 0.5 | 5 |
| E. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| S. W. | 0.0 | S. W. | 1.5 | S. W. | 2.0 | S. W. | 2.0 | S. W. | 1.0 | W. S. W. | 5.0 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | — | 0.0 | — | 0.0 | 9 |
| N. by E. | 0.2 | N. | 0.2 | N. N. E. | 0.2 | E. N. E. | 0.5 | N. N. E. | 0.2 | N. | 0.2 | 10 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. | 0.2 | — | 0.0 | 11 |
| S. | 0.5 | S. | 0.5 | S. | 0.2 | S. | 0.2 | — | 0.0 | S. | 0.2 | 12 |
| S. | 0.2 | S. | 0.2 | — | 0.0 | S. | 0.2 | — | 0.0 | — | 0.0 | 13 |
| W. | 0.2 | W. | 0.5 | W. by S. | 0.2 | W. by S. | 0.2 | W. by S. | 0.2 | W. by S. | 0.2 | 14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| N. by W. | 0.2 | N. | 1.0 | N. | 0.2 | N. N. W. | 0.2 | N. W. | 1.0 | N. W. | 1.0 | 16 |
| — | 0.0 | N. W. | 0.2 | N. W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 | — | 0.0 | 17 |
| W. S. W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | — | 0.0 | 18 |
| W. | 0.2 | — | 0.0 | — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| S. E. | 1.0 | S. E. | 0.5 | S. E. | 0.5 | E. S. E. | 1.0 | E. S. E. | 1.0 | S. E. | 0.5 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| N. N. W. | 5.0 | N. N. W. | 5.0 | N. N. W. | 5.0 | N. W. | 5.0 | N. W. | 5.0 | N. W. | 4.0 | 23 |
| S. W. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| W. S. W. | 0.2 | W. S. W. | 0.2 | N. W. | 0.5 | N. W. | 0.5 | N. N. W. | 0.2 | N. W. | 0.5 | 26 |
| N. | 0.2 | N. | 0.5 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | 28 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| W. S. W. | 5.0 | W. S. W. | 3.0 | W. | 1.0 | W. | 1.0 | W. | 1.5 | W. | 2.0 | 30 |
| S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | 31 |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | Mean Göttingen Time. |
|----------------------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| E. S. E. | 0.2 | E. by N. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 | E. by N. | 0.2 | — | 0.0 | 2 |
| E. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| E. | 0.5 | E. | 0.5 | — | 0.0 | E. | 0.5 | E. | 0.5 | E. | 0.5 | 4 |
| E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| E. | 0.5 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| S. W. | 0.2 | S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.5 | S. W. | 0.5 | — | 0.0 | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| N. W. | 0.5 | N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. E. | 0.5 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| N. W. | 0.5 | N. W. | 1.0 | N. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | 22 |
| N. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| — | — | — | — | — | — | — | — | — | — | — | — | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | 26 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 1.0 | E. S. E. | 1.0 | E. | 0.2 | E. | 0.2 | 29 |
| W. by N. | 0.2 | W. | 0.2 | W. | 0.2 | W. | 0.2 | W. | 0.2 | — | 0.0 | 30 |
| N. N. E. | 0.2 | — | 0.0 | — | 0.0 | W. by S. | 0.2 | W. | 0.5 | W. N. W. | 0.5 | 31 |

DECEMBER.

DECEMBER.



TORONTO, 1844.

METEOROLOGICAL JOURNAL.

| OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED. | | | | | |
|---|--|--------------------------|--|---|--------------------------|
| Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. | Toronto Mean Time, Astronomical Reckoning. | Weather and Phenomena. | Moon's Age at Mean Noon. |
| MARCH. | | | AUGUST. | | |
| D. H. M. | | D. | D. H. M. | | D. |
| 7 9 00 | Clear and unclouded; bank of Auroral light in N., altitude about 5°, and a few faint streamers issuing from it - - - | 17·9 | 29 10 25 | ·2 of the sky overcast with cir.-cum. in N.W.; otherwise clear. No auroral light - - - - - | - |
| 10 00 | Clear and unclouded; bank of auroral light in N., altitude about 7°. No streamers. - - - - - | - | | | |
| MAY. | | | SEPTEMBER. | | |
| 14 9 00 | Haze in S. horizon; otherwise clear; auroral light in N., with streamers issuing from it - - - - - | 26·6 | 14 9 00 | Clear and unclouded; bank of auroral light in N., with patches and streamers issuing from it, burst out very suddenly - - - - - | 17·7 |
| 10 00 | Haze round horizon; otherwise clear; auroral light almost entirely disappeared - - - - - | 4·9 | 10 00 | Clear and unclouded; no appearance of auroral light remaining - - - - - | - |
| 22 7 00 | Unclouded; light haze round horizon; fair - - - - - | 4·9 | 30 13 00 | Clear and unclouded; auroral light in N.; patches; bank and streamers resting upon a low arch of light, extending from N.E. to N.W. - - - - - | 17·7 |
| 8 00 | Unclouded; light haze round horizon; fair - - - - - | - | 20 | Auroral light in N.; bright streamers, altitude 45° - - - - - | - |
| 9 00 | Clear and unclouded - - - - - | - | 30 | Faint auroral light and streamers in N. - - - - - | - |
| 10 00 | Clear and unclouded - - - - - | - | 40 | Bright streamers in N. and N. W., altitude 60° - - - - - | - |
| 20 | Bank of auroral light in N., with streamers and patches - - - - - | - | 50 | Faint light and streamers - - - - - | - |
| 11 00 | Clear and unclouded; auroral light in N., an arch of small streamers extending from N.W. to N.E.; altitude of highest part about 40°; length of streamers in centre of arch about 1° 30'; getting gradually shorter towards each extremity - - - - - | - | 14 00 | Clear arch of light in N., altitude of centre 15° - - - - - | - |
| 12 00 | Clear and unclouded; a faint auroral light in N. - - - - - | - | 10 | Arch of light as before; no streamers visible - - - - - | - |
| 13 00 | Quite clear; a low and very faint bank of auroral light in N. - - - - - | - | 35 | Perfectly clear; no aurora visible - - - - - | - |
| AUGUST. | | | 15 00 | Clear and unclouded; bank of light in N. - - - - - | - |
| 29 9 00 | Unclouded, save low bank of cir.-strat. in S.E. horizon - - - - - | 15·2 | 40 | Bright arch of light in N.; altitude of centre about 20° - - - - - | - |
| 10 | Sudden appearance of an aurora; moderately bright streamers and patches - - - - - | - | 16 00 | Clear; auroral light totally disappeared - - - - - | - |
| 9 30 | Aurora totally disappeared - - - - - | - | 17 00 | Clear and unclouded - - - - - | - |
| 40 | No aurora visible; sky clear save a low bank of cir.-strat. in S.E. horizon - - - - - | - | OCTOBER. | | |
| 10 00 | Clear save a few cir.-strat. in S.W. and S.E. horizon - - - - - | - | 20 12 00 | Cir. and cir.-strat., dispersed auroral light in N. - - - - - | 8·3 |
| 10 | Very faint auroral light in N.; low bank of strat. in W. - - - - - | - | 40 | Aurora very bright, shooting up streamers to altitude of 45°; bright bank in N. horizon; waves rising in succession from horizon and reaching to zenith - - - - - | - |
| 15 | A number of small streamers or fragments of streamers appearing about 10° N. of zenith - - - - - | - | 13 00 | Bright bank of auroral light in N. horizon, with streamers and patches - - - - - | - |
| 20 | No traces of the aurora; sheet of cir.-strat. rising in N.W. horizon - - - - - | - | 30 | Bright bank of auroral light in N., with streamers; waves reaching to zenith - - - - - | - |
| | | | 14 00 | Faint auroral light in N.; streaky light cir. in ridges stretching from E. to W. - - - - - | - |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Terr. Rad. |
|-----------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| JANUARY. | | | | | | | | | |
| 1 | Clouded from 12 ^h to 17 ^h , with cir.-cum. and haze; remainder of day clear | 0·2 | 0·3 | 1·0 | 1·0 | 32·4 | 22·5 | In. — | ° — |
| 2 | Densely clouded all day with cir.-cum., cir.-strat., and haze; slight rain from 6 ^h to 23 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 31·5 | 20·7 | 0·27 | 14·6 |
| 3 | Rain to 0 ^h ; clouded; snow at 0 ^h , which continued to fall the greater part of the day | 1·0 | 1·0 | 1·0 | 1·0 | 36·9 | 30·5 | 0·14 | 29·4 |
| 4 | Brisk wind; snow drifting; magnetic disturbance | 0·9 | 1·0 | 1·0 | 0·4 | 36·9 | 24·4 | — | 23·4 |
| 5 | Partially clouded till 7 ^h ; remainder of the day clouded with cir.-cum., cir.-strat., and haze | 0·2 | 1·0 | 1·0 | 1·0 | 25·3 | 19·4 | — | 17·1 |
| 6 | Densely clouded all day; snow at 11 ^h , which continued to fall till 17 ^h | 1·0 | 1·0 | — | 1·0 | 26·2 | 16·1 | — | 8·0 |
| 7 | Clouded all day with cir.-cum. and cir.-strat.; snow from 3 ^h to 6 ^h | 1·0 | — | 1·0 | 1·0 | 31·9 | 25·7 | — | 24·4 |
| 8 | Clouded all day with cir.-cum. and haze | 1·0 | 0·7 | 1·0 | 1·0 | 33·9 | 11·9 | — | 8·3 |
| 9 | Clouded with dense cir.-cum. and haze; snow from 0 ^h 30 ^m to 8 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 22·2 | 9·1 | — | 1·0 |
| 10 | Clear and clouded alternately; quite clear at 7 ^h , 8 ^h , 17 ^h , 19 ^h , and 20 ^h | 0·7 | 1·0 | 0·9 | 1·0 | 28·9 | 21·2 | — | 20·1 |
| 11 | Clouded with cir.-cum. and haze; rain at 19 ^h and 20 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 29·9 | -0·7 | — | -5·5 |
| 12 | Rain from 7 ^h to 16 ^h 45 ^m ; followed by a heavy gale from W. by N. | 1·0 | 1·0 | 1·0 | 1·0 | 32·9 | 8·1 | 1·42 | 7·3 |
| 13 | Gale continued till 2 ^h ; sky clouded, with cum.-strat. and cir.-cum. | 1·0 | 1·0 | — | 1·0 | 41·2 | 31·9 | — | 31·4 |
| 14 | Clouded till 12 ^h , with cir.-cum. and cum.-strat.; clear. | 1·0 | — | 0·0 | 0·1 | 32·7 | 19·1 | — | 11·8 |
| 15 | Clear to 0 ^h ; clouded with cum.-strat. and cir.-strat.; rain from 13 ^h to 17 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 31·9 | 21·2 | 0·44 | 12·6 |
| 16 | Clouded; rain continued till 20 ^h | 1·0 | 1·0 | 0·9 | 1·0 | 35·7 | 30·7 | — | 26·4 |
| 17 | Overcast; dense haze; slight snow from 11 ^h to 13 ^h with brisk wind | 1·0 | 1·0 | 1·0 | 0·8 | 42·0 | 30·2 | — | 23·4 |
| 18 | Clear and clouded alternately; cir.-cum., cum.-strat., and haze | 0·7 | 1·0 | 0·5 | 1·0 | 30·7 | 22·7 | — | 17·6 |
| 19 | Clouded till 7 ^h ; cir.-cum. and cir.-strat.; slight snow from 21 ^h to 22 ^h | 1·0 | 0·0 | 0·0 | 1·0 | 30·2 | 15·9 | — | 7·8 |
| 20 | Clouded from 0 ^h to 5 ^h ; cir.-strat. and haze; snow from 9 ^h to 23 ^h | 0·8 | 1·0 | — | 1·0 | 21·7 | 5·1 | — | 2·8 |
| 21 | Snowing at 0 ^h ; remainder of day densely overcast | 1·0 | — | 1·0 | 1·0 | 16·7 | 6·6 | — | 7·8 |
| 22 | Densely clouded all day; rain from 10 ^h to 17 ^h , freezing as it falls; rain ceased at 21 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 16·2 | 9·6 | 0·74 | 9·8 |
| 23 | Clouded and clear alternately | 0·5 | 0·1 | 1·0 | 1·0 | 37·7 | 14·4 | — | 10·3 |
| 24 | Cloudy till 9 ^h , cir.-cum. and cir.-strat.; occasional showers of snow; auroral light in N. at 11 ^h | 1·0 | 0·5 | 1·0 | 1·0 | 45·3 | 26·7 | — | 16·6 |
| 25 | Clear to 7 ^h ; solar halo at 1 ^h , diam. about 35°; lunar halo from 6 ^h to 10 ^h , diam. increasing from 30° to 45°; clouded from 20 ^h to 23 ^h | 0·7 | 0·2 | 0·0 | 1·0 | 28·7 | -4·2 | — | -3·0 |
| 26 | Sky mostly clear; solar halo from 22 ^h to 1 ^h , diam. about 30° (perfect) | 0·4 | 0·1 | 0·0 | 0·0 | 5·9 | -5·2 | — | -9·0 |
| 27 | Nearly clear to 11 ^h ; lunar halo at 10 ^h and 11 ^h , diam. between 30° and 45° | 0·1 | 0·1 | — | 1·0 | 8·4 | -7·2 | — | -13·0 |
| 28 | Clouded; snowing heavily till noon; remainder of day mostly clear | 0·2 | — | 0·1 | 1·0 | 9·3 | -4·7 | — | -6·0 |
| 29 | Clouded; clear at 2 ^h and 3 ^h ; cir.-cum. and haze; snow from 7 ^h to 17 ^h | 0·3 | 1·0 | 1·0 | 1·0 | 15·7 | -3·7 | — | -10·5 |
| 30 | Ceased snowing at 6 ^h ; clouded and partially clear alternately for the remainder of the day | 1·0 | 1·0 | 0·1 | 0·1 | 11·7 | -2·0 | — | -11·5 |
| 31 | Clouded at 7 ^h , 8 ^h , and 9 ^h ; remainder of day mostly clear; lunar halo at 6 ^h , 7 ^h , 8 ^h , and 9 ^h | 0·1 | 1·0 | 0·5 | 1·0 | 18·2 | -2·7 | — | -11·5 |
| FEBRUARY. | | | | | | | | | |
| 1 | Clouded all day, cir., cir.-cum. and haze; snow from 4 ^h to 8 ^h 45 ^m | 1·0 | 1·0 | 1·0 | 1·0 | 13·7 | 0·6 | — | -3·0 |
| 2 | Clouded from 13 ^h to 17 ^h ; cir.-strat., cir.-cum., and haze, clear | 0·4 | 0·3 | 1·0 | 0·1 | 25·2 | 8·1 | — | 7·8 |
| 3 | Clear; very high wind | 0·0 | 0·0 | — | 1·0 | 30·2 | 10·1 | — | 5·8 |
| 4 | Snow from 12 ^h to 23 ^h | 1·0 | — | 1·0 | 1·0 | 27·7 | 10·1 | — | 4·8 |
| 5 | Snow to 1 ^h ; densely clouded cir.-cum. and haze; slight rain | 1·0 | 1·0 | 1·0 | 1·0 | 32·5 | 19·9 | — | 15·6 |
| 6 | Clouded to 8 ^h ; cir.-cum. and haze; clear; snow from 18 ^h to 23 ^h | 1·0 | 0·1 | 0·1 | 0·2 | 46·1 | 32·5 | — | 31·9 |
| 7 | Snow to 2 ^h ; clouded cir.-cum. and haze; clear spaces occasionally | 1·0 | 1·0 | 1·0 | 0·5 | 37·9 | 13·4 | — | 5·8 |
| 8 | Clear to 1 ^h ; clouded cir.-cum. and cir.-strat.; slight snow at 6 ^h | 1·0 | 1·0 | 0·6 | 0·3 | 30·7 | 16·1 | — | 11·8 |
| 9 | Clouded; cir.-cum., cir.-strat., and haze; clear at 10 ^h | 0·1 | 0·2 | 1·0 | 1·0 | 30·7 | 8·6 | — | 4·3 |
| 10 | Clouded till 4 ^h ; cir.-cum., cir.-strat., and haze; remainder but partially clouded | 1·0 | 0·6 | — | 1·0 | 19·2 | 4·1 | — | -2·5 |
| 11 | Clouded from 12 ^h to 17 ^h ; remainder of the day cir.-strat. and cum.-strat. | 1·0 | — | 0·2 | 0·0 | 29·9 | 10·6 | — | -2·5 |
| 12 | Clear till 3 ^h ; afterwards clouded with cir.-strat. and haze | 0·2 | 1·0 | 1·0 | 1·0 | 30·4 | 13·4 | — | 4·8 |
| 13 | Clouded; cir.-cum., and haze; heavy snow from 19 ^h 45 ^m to 20 ^h 10 ^m ; squally. | 1·0 | 1·0 | 1·0 | 1·0 | 34·4 | 22·7 | — | 21·6 |
| 14 | Partially clear to 13 ^h ; afterwards clouded, with cir. and haze | 0·7 | 1·0 | 1·0 | 1·0 | 39·9 | 20·7 | — | 15·1 |
| 15 | Clouded all day with dense haze; slight snow from 2 ^h to 9 ^h , and 20 ^h to 21 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 31·3 | 14·9 | — | 7·8 |
| 16 | Snow from 8 ^h to 9 ^h ; clouded to 20 ^h | 1·0 | 0·8 | 1·0 | 0·6 | 32·9 | 27·7 | — | 26·4 |
| 17 | Clouded; cir.-cum. and cum.-strat.; afterwards mostly clear | 0·1 | 0·0 | — | 1·0 | 35·9 | 19·9 | — | 16·6 |
| 18 | Cloudless, but hazy | 1·0 | — | 0·0 | 0·0 | 25·2 | 1·6 | — | -7·0 |
| 19 | Generally clear; clouded from 6 ^h to 8 ^h ; from 12 ^h to 17 ^h cir., cir.-cum., and haze | 0·4 | 0·0 | 0·0 | 0·7 | 30·4 | 15·9 | — | 16·6 |
| 20 | Clear at 10 ^h and 11 ^h ; clouded from 15 ^h to 20 ^h ; solar halo at 2 ^h , diam. about 40° | 0·7 | 0·4 | 1·0 | 0·8 | 40·4 | 30·2 | — | 24·4 |
| 21 | Clouded from 2 ^h to 7 ^h and from 12 ^h to 13 ^h ; remainder of day almost clear | 1·0 | 0·8 | 0·1 | 0·0 | 44·4 | 32·2 | — | 26·9 |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Torr. Bar. |
|------------------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| FEBRUARY. | | | | | | | | | |
| 22 | Generally clear; lunar halo at 7 ^h , 8 ^h , and 9 ^h , diam. about 45°; clouded from 11 ^h - - - - - | 0·0 | 0·1 | 0·4 | 1·0 | 41·9 | 28·5 | — | 20·1 |
| 23 | Snowing from 0 ^h to 11 ^h - - - - - | 1·0 | 1·0 | 0·0 | 0·0 | 47·9 | 27·2 | — | 22·6 |
| 24 | Generally clear to 15 ^h - - - - - | 0·1 | 0·0 | — | 0·0 | 33·4 | 8·6 | — | 4·8 |
| 25 | Clouded; cir.-cum. and haze - - - - - | 0·8 | — | 0·5 | 0·5 | 25·2 | 10·1 | — | 3·3 |
| 26 | Partially clouded to 1 ^h ; remainder of day cir.-cum., cir.-strat., and haze; rain from 5 ^h to 12 ^h ; clouded to 21 ^h - - - - - | 1·0 | 1·0 | 1·0 | 0·9 | 32·9 | 20·7 | 0·42 | 14·6 |
| 27 | Cir.-cum., cum.-strat., and haze; remainder of day clear - - - - - | 0·1 | 0·0 | 0·0 | 0·0 | 41·9 | 30·7 | — | 30·4 |
| 28 | Clouded with cir.-cum. and cir.-strat.; lunar halo from 5 ^h to 9 ^h ; magnetic disturbance; rain at 19 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 35·4 | 22·5 | — | 13·6 |
| 29 | Rain continued from last observation to 1 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 36·9 | 29·7 | 0·02 | 22·9 |
| MARCH. | | | | | | | | | |
| 1 | Drizzling rain to 3 ^h ; clouded to 7 ^h ; afterwards clear - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 42·9 | 35·2 | 0·05 | 31·4 |
| 2 | Nearly clear; auroral light in N. from 10 ^h to 11 ^h - - - - - | 0·6 | 0·1 | — | — | 49·8 | 35·2 | — | — |
| 3 | Clouded all day; snowing; cleared up at 17 ^h - - - - - | — | — | 1·0 | 0·0 | 41·4 | 22·3 | — | 18·1 |
| 4 | Generally clear - - - - - | 0·0 | 0·0 | 0·1 | 0·0 | 32·4 | 15·9 | — | 12·6 |
| 5 | Clouded with cir.-strat. and cum.-strat.; clear at 17 ^h ; solar halo at 23 ^h , diam. 45° - - - - - | 0·6 | 1·0 | 1·0 | 0·5 | 26·7 | 9·6 | — | 2·8 |
| 6 | Solar halo at 1 ^h , diam. 30°; haze from 6 ^h to 15 ^h - - - - - | 0·9 | 1·0 | 1·0 | 1·0 | 38·5 | 21·7 | — | 17·1 |
| 7 | Cir. and haze; auroral light from 9 ^h to 11 ^h ; rain at 23 ^h - - - - - | 0·5 | 0·0 | 0·0 | 1·0 | 39·9 | 28·7 | — | 22·4 |
| 8 | Rain from 0 ^h to 3 ^h - - - - - | 1·0 | 1·0 | 1·0 | 0·5 | 45·4 | 29·2 | 0·35 | 22·4 |
| 9 | Clouded with detached cir.-cum; cloudless at 8 ^h , 9 ^h , and 10 ^h ; auroral light in N. at 11 ^h - - - - - | 0·9 | 0·0 | — | — | 43·4 | 29·7 | — | 26·4 |
| 10 | Generally cloudless - - - - - | — | — | 0·1 | 0·0 | 36·4 | 22·7 | — | 11·8 |
| 11 | In general clear to 7 ^h ; afterwards clouded; slight rain at 20 ^h - - - - - | 0·0 | 1·0 | 1·0 | 1·0 | 44·9 | 28·7 | — | 20·6 |
| 12 | Rain; densely overcast - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 50·8 | 35·2 | 0·73 | 32·4 |
| 13 | Clouded; cum.-strat., cir.-cum., and haze; clear from 9 ^h to 14 ^h ; clouded at 22 ^h - - - - - | 1·0 | 0·2 | 0·5 | 1·0 | 45·1 | 38·7 | — | 38·1 |
| 14 | Clouded with light cir.; snow at 19 ^h - - - - - | 0·3 | 0·1 | 0·8 | 1·0 | 47·4 | 28·2 | — | 22·4 |
| 15 | Snow from 0 ^h to 3 ^h ; thence rain, which continued throughout the day - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 35·7 | 27·7 | 0·29 | 18·6 |
| 16 | Rain continues; from 4 ^h to 21 ^h clear - - - - - | 1·0 | 0·0 | — | — | 36·4 | 30·2 | 0·08 | 30·4 |
| 17 | Generally clouded; slight rain from 4 ^h to 8 ^h - - - - - | — | — | 1·0 | 1·0 | 39·4 | 24·7 | 0·25 | 13·6 |
| 18 | Clouded all day; cir.-cum. and cir.-strat.; snow from 19 ^h to 20 ^h - - - - - | 1·0 | 1·0 | 0·8 | 1·0 | 42·4 | 16·4 | — | 13·6 |
| 19 | Clouded all day; cir.-cum. and haze; snow from 3 ^h to 18 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 22·7 | 13·9 | — | 7·8 |
| 20 | Snow from 0 ^h to 11 ^h - - - - - | 1·0 | 1·0 | 0·0 | 0·1 | 34·9 | 22·2 | — | 22·6 |
| 21 | Clouded, with cir.-cum. and cum.-strat. to 18 ^h - - - - - | 0·2 | 1·0 | 1·0 | 1·0 | 31·4 | 13·6 | — | 3·6 |
| 22 | Clouded from 0 ^h to 3 ^h ; cir.-cum. and cum.-strat.; snow from 18 ^h to 21 ^h - - - - - | 1·0 | 0·1 | 0·0 | 0·0 | 30·2 | 22·2 | — | — |
| 23 | Cloudless; clouded at 21 ^h - - - - - | 0·0 | 0·1 | — | — | 34·4 | 19·9 | — | 13·6 |
| 24 | Clear; clouded from 15 ^h to 17 ^h with cir.-cum. and haze - - - - - | — | — | 0·0 | 0·5 | 38·4 | 22·2 | — | 11·8 |
| 25 | Clear patches; overcast; cir.-cum. and haze - - - - - | 0·1 | 0·1 | 1·0 | 1·0 | 46·4 | 36·2 | — | 28·4 |
| 26 | Rain from 8 ^h to 17 ^h ; clouded; cir.-cum. and haze - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 50·8 | 30·2 | 0·12 | 22·4 |
| 27 | Clouded; cir.-strat. and haze; rain from 11 ^h to 20 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 50·8 | 31·2 | 0·26 | 31·4 |
| 28 | Rain from last observation to 5 ^h ; slight snow from 14 ^h to 16 ^h - - - - - | 1·0 | 1·0 | 1·0 | 0·4 | 40·9 | 30·7 | 0·36 | 31·4 |
| 29 | Clouded; cir.-cum., cir.-strat., and haze; constant snow from 12 ^h to 17 ^h ; clouded at 18 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 45·9 | 22·7 | — | 19·6 |
| 30 | Clouded from 0 ^h to 4 ^h ; clear; snow from 18 ^h to 23 ^h - - - - - | 0·7 | 0·1 | — | — | 34·4 | 19·7 | — | 19·7 |
| 31 | Snow from 0 ^h to 2 ^h ; generally clear to 18 ^h - - - - - | — | — | 0·3 | 0·0 | 27·9 | 10·9 | — | 7·8 |
| APRIL. | | | | | | | | | |
| 1 | Clear from 0 ^h to 4 ^h ; remainder of the day cloudy; lunar halo at 9 ^h - - - - - | 0·0 | 0·5 | 1·0 | 0·5 | 33·9 | 14·9 | — | 9·8 |
| 2 | Partially clouded from 0 ^h to 5 ^h ; clouded; cir.-strat. and cir.-cum. - - - - - | 0·3 | 1·0 | 1·0 | 0·5 | 40·4 | 31·2 | — | 23·4 |
| 3 | Partially clouded to 11 ^h ; clouded; cir., cir.-strat., and cir.-cum. - - - - - | 0·4 | 0·3 | 1·0 | 1·0 | 49·8 | 35·7 | — | 31·4 |
| 4 | Clouded all day; cir.-cum. and cir.-strat.; dropping rain occasionally; sheet lightning in N.W. at 10 ^h - - - - - | 1·0 | 1·0 | — | — | 69·0 | 43·7 | — | 35·1 |
| 5 | Clouded all day, except at 3 ^h and 12 ^h , then with cir.-strat. and cir.-cum. - - - - - | — | — | 1·0 | 1·0 | 64·5 | 41·7 | — | 28·4 |
| 6 | Clouded all day; cir. and haze; rain fell between 20 ^h and 22 ^h - - - - - | 1·0 | 0·2 | — | — | 47·4 | 34·7 | 0·18 | 26·4 |
| 7 | Clouded to 3 ^h with cir.-cum. and haze; afterwards mostly clear; sheet lightning in N. and N.W. at 12 ^h - - - - - | — | — | 0·0 | 1·0 | 44·4 | 37·2 | — | 36·6 |
| 8 | Clouded to 6 ^h ; cir.-cum. and cum.; rain at 22 ^h ; thunder in W.; sheet lightning alternately - - - - - | 0·8 | 0·8 | 0·1 | 0·0 | 55·3 | 34·7 | 0·16 | 30·4 |
| 9 | Quite clear, except haze on horizon - - - - - | 0·0 | 0·0 | 0·0 | 0·0 | 69·8 | 41·2 | — | 32·1 |
| 10 | Mostly clear all day - - - - - | 0·0 | 0·1 | 0·0 | 1·0 | 62·0 | 35·2 | — | 28·4 |
| 11 | Overcast to 8 ^h with cir.-strat. and haze; afterwards clear - - - - - | 0·8 | 0·5 | 0·0 | 0·0 | 68·0 | 38·7 | — | 32·1 |
| 12 | Clear all day - - - - - | 0·0 | 0·0 | 0·0 | 0·0 | 65·5 | 41·2 | — | 35·6 |
| 13 | Clear all day - - - - - | 0·0 | 0·0 | — | — | 70·3 | 43·2 | — | 36·6 |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Terr. Rad. |
|--------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------|----------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| APRIL. | | | | | | | | | |
| 14 | Forenoon clear; afterwards clouded; rain from 15 ^h to 17 ^h | — | — | 1.0 | 1.0 | 72.8 | 45.7 | In. 0.14 | 29.9 |
| 15 | Clouded all day; cir.-cum. and haze; dropping rain occasionally | 1.0 | 0.6 | 1.0 | 1.0 | 73.0 | 54.5 | 0.02 | 52.0 |
| 16 | Clouded; cir.-cum. and cir.-strat.; auroral light; rain from 14 ^h to 16 ^h | 1.0 | 1.0 | 1.0 | 0.9 | 62.0 | 44.2 | 0.09 | 42.0 |
| 17 | Clear; auroral light at 8 ^h ; frost | 0.1 | 0.0 | 0.0 | 0.0 | 61.5 | 37.7 | — | 33.6 |
| 18 | Quite clear; frost at 17 ^h | 0.0 | 0.0 | 0.0 | 0.0 | 50.5 | 30.7 | — | 23.4 |
| 19 | Clear, with little exception, all day | 0.0 | 0.1 | 0.0 | 0.0 | 49.3 | 28.2 | — | 20.6 |
| 20 | The same to 21 ^h , then clouded | 0.1 | 0.1 | — | — | 58.7 | 33.7 | — | 28.4 |
| 21 | Clouded, with cir.-cum., cir.-strat., and haze | — | — | 1.0 | 1.0 | 60.0 | 37.7 | — | 29.4 |
| 22 | Clouded, cir.-strat. and haze; rain at intervals | 1.0 | 1.0 | 1.0 | 1.0 | 62.2 | 49.7 | 0.12 | 47.0 |
| 23 | Clouded; thunder-storms and rain from 3 ^h to 4 ^h , at 10 ^h 10 ^m to 10 ^h 50 ^m ; 12 ^h and 15 ^h ; sheet lightning in N.W., N., and N.E. | 1.0 | 0.0 | 0.8 | 0.5 | 53.8 | 45.5 | 0.39 | 42.1 |
| 24 | Clouded from 8 ^h to 11 ^h ; cir.-cum. and cum.-strat.; clear from 12 ^h to 21 ^h | 0.5 | 0.1 | 0.0 | 0.0 | 68.0 | 48.5 | — | — |
| 25 | Clouded; cir., cir.-strat., and haze; solar halo at 1 ^h ; diam. about 35°; rain from 18 ^h to 23 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 74.6 | 38.7 | 0.32 | — |
| 26 | Rain from 0 ^h to 10 ^h ; clouded; cir.-cum. and haze | 0.1 | 0.1 | 0.7 | 0.7 | 60.5 | 45.2 | 0.11 | — |
| 27 | Partially clear to 2 ^h ; cir.-cum. and haze generally; afterwards clear | 0.2 | 0.0 | — | — | 49.4 | 34.2 | — | — |
| 28 | Mostly clear all day | — | — | 0.0 | 0.0 | 48.4 | 27.7 | — | — |
| 29 | Clear all day with little exception; lunar halo at 11 ^h , 12 ^h , and 15 ^h | 0.0 | 0.0 | 0.4 | 1.0 | 58.3 | 34.7 | — | — |
| 30 | Clouded; cir.-cum. and cir.-strat.; solar halo at 19 ^h and 20 ^h ; diam. about 45°; disappeared at 22 ^h | 0.8 | 0.7 | 1.0 | 1.0 | 65.5 | 35.2 | — | — |
| MAY. | | | | | | | | | |
| 1 | Clouded all day with cir.-cum. and haze; rain from 9 ^h to 12 ^h ; sheet lightning at 12 ^h | 1.0 | 1.0 | 1.0 | 0.0 | 66.5 | 49.7 | 0.32 | — |
| 2 | Clear from 0 ^h to 2 ^h ; clouded; heavy rain and thunder from 8 ^h to 12 ^h | 0.3 | 1.0 | 0.4 | 1.0 | 68.5 | 50.5 | 0.28 | — |
| 3 | Clouded, cir.-cum. and cum.-strat.; thunder at intervals; heavy thunder-storm at 9 ^h ; rain | 1.0 | 1.0 | 0.1 | 1.0 | 72.8 | 47.7 | 0.39 | — |
| 4 | Clouded all day; cum. and cir.-cum.; showers of rain | 1.0 | 1.0 | — | — | 70.6 | 45.5 | 0.05 | — |
| 5 | Morning clear; remainder of day clouded; cum. and cir.-cum.; rain from 20 ^h to 22 ^h | — | — | 0.9 | 1.0 | 58.8 | 45.7 | 0.20 | — |
| 6 | Rain from 4 ^h to 13 ^h | 0.9 | 0.8 | 0.9 | 0.8 | 65.0 | 46.2 | 0.33 | — |
| 7 | Clouded, cir.-cum. and haze; auroral light in N. at 10 ^h ; clouded at 22 ^h | 0.1 | 0.0 | 1.0 | 1.0 | 58.3 | 45.9 | — | — |
| 8 | Partially clouded till 5 ^h ; clear; auroral light in N. at 9 ^h | 0.4 | 0.0 | 0.0 | 0.0 | 72.3 | 48.2 | — | — |
| 9 | Generally clear; frost in the morning; solar halo at 19 ^h , diam. 30° | 0.3 | 0.0 | 0.0 | 1.0 | 69.0 | 42.7 | — | — |
| 10 | Rain, thunder, and lightning from 12 ^h to 19 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 64.5 | 32.7 | 1.19 | — |
| 11 | Clouded; cir.-cum., cum.-strat., and cir.-strat.; heavy thunder-storm at 6 ^h ; rain | 1.0 | 0.7 | — | — | 59.8 | 44.2 | 0.73 | — |
| 12 | Clouded; frosty morning; afternoon clear | — | — | 0.0 | 1.0 | 75.8 | 47.7 | — | — |
| 13 | Clouded all day; cir.-cum. and haze; slight rain from 5 ^h to 17 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 57.8 | 33.7 | 0.19 | — |
| 14 | Clouded to 2 ^h ; cir.-cum. and cum.-strat.; clear, and auroral light in N. from 9 ^h to 11 ^h | 0.5 | 0.0 | 0.1 | 0.0 | 51.8 | 39.7 | — | — |
| 15 | Mostly clear till 6 ^h ; densely clouded; cir.-cum. and cum.-strat.; rain from 13 ^h to 17 ^h | 0.3 | 1.0 | 1.0 | 1.0 | 64.5 | 38.7 | 0.24 | — |
| 16 | Clouded all day; cir.-strat. and haze; solar halo at 0 ^h ; diam. about 30°; slight rain from 6 ^h to 16 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 68.3 | 49.2 | 0.06 | — |
| 17 | Clouded all day; cir.-cum. and cir.-strat.; slight rain from 10 ^h to 15 ^h | 1.0 | 1.0 | 1.0 | 0.1 | 64.9 | 49.2 | 0.05 | — |
| 18 | Clouded from 0 ^h to 4 ^h ; cir.-cum. and cum.-strat.; slight showers of rain | 0.8 | 0.0 | — | — | 62.5 | 47.2 | 0.04 | — |
| 19 | Clear in the morning; remainder of day clouded; cir.-cum. and cir.-strat. | — | — | 1.0 | 1.0 | 61.0 | 37.2 | — | — |
| 20 | Generally clouded; cir.-cum. and cir.-strat.; frost at 17 ^h ; slight rain | 1.0 | 1.0 | 0.0 | 0.6 | 57.6 | 44.7 | — | — |
| 21 | Clear | 0.1 | 0.0 | 0.0 | 0.0 | 66.0 | 33.2 | — | — |
| 22 | Clear all day; auroral light in N. from 11 ^h to 4 ^h | 0.0 | 0.0 | 0.0 | 0.0 | 54.8 | 28.7 | — | — |
| 23 | Generally clear all day | 0.0 | 0.4 | 0.0 | 0.1 | 60.5 | 36.2 | — | — |
| 24 | Generally clear to 15 ^h , thence clouded with cir.-cum. and haze | 0.6 | 0.0 | 1.0 | 1.0 | 69.8 | 45.3 | — | — |
| 25 | Generally clouded; cir.-cum. and haze; forked and sheet lightning at 9 ^h and 10 ^h | 1.0 | 0.9 | — | — | 72.8 | 53.5 | — | — |
| 26 | Mostly clouded; cir.-cum. and haze; clear at 18 ^h , 19 ^h , and 21 ^h | — | — | 0.4 | 0.0 | 78.4 | 59.0 | — | — |
| 27 | Clouded; cir.-cum. and cir.-strat.; showers of rain accompanied by thunder and lightning from 6 ^h to 12 ^h | — | 0.8 | 0.6 | 0.3 | 73.8 | 54.5 | 0.13 | — |
| 28 | Clear from 9 ^h to 13 ^h ; thence clouded; cir.-cum., cir.-strat., and haze | 0.5 | 0.0 | 1.0 | 0.0 | 72.8 | 51.5 | — | — |
| 29 | Clear till 9 ^h ; clouded cir. and haze; rain from 16 ^h to 17 ^h | 0.0 | 0.5 | 1.0 | 1.0 | 73.0 | 46.3 | 0.95 | — |
| 30 | Clouded; cir.-cum. and haze; rain with sheet lightning and distant thunder | 1.0 | 1.0 | 1.0 | 1.0 | 67.5 | 51.0 | 0.55 | — |
| 31 | Clouded to 5 ^h ; remainder of day nearly clear | 0.5 | 0.0 | 0.4 | 0.9 | 68.2 | 51.5 | — | — |
| JUNE. | | | | | | | | | |
| 1 | Clouded all day; cir.-cum. and haze; rain, thunder, and lightning from 5 ^h to 9 ^h | 1.0 | 1.0 | — | — | 66.3 | 42.5 | 0.51 | — |
| 2 | Generally clouded; cir.-cum. and haze | — | — | 1.0 | 0.2 | 70.4 | 50.7 | — | — |
| 3 | Generally clear; except cir. and haze round horizon | 0.1 | 0.0 | 0.0 | 0.1 | 62.0 | 54.9 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Terr. Rad. |
|-------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| JUNE. | | | | | | | | | |
| 4 | Generally clear till 10 ^h , thence clouded, cir.-strat., cir.-cum., and haze - | 0·0 | 0·4 | 1·0 | 1·0 | 65·1 | 41·2 | In. — | c — |
| 5 | Clouded; cir.-cum., cum.-strat., and cir.-strat.; rain, thunder, and lightning from 4 ^h to 7 ^h ; rain from 12 ^h to 17 ^h - - - - - | 0·8 | 0·3 | 1·0 | 0·9 | 67·5 | 48·7 | 0·61 | — |
| 6 | Clouded; cir.-cum., cir.-strat., and haze; clear at 9 ^h , 11 ^h , 12 ^h , and 13 ^h ; rain - | 1·0 | 0·3 | 1·0 | 0·9 | 72·4 | 57·1 | 0·05 | — |
| 7 | Clouded to 2 ^h ; cir.-strat. and haze; clear; grass white with frost at 17 ^h - | 0·2 | 0·0 | 0·0 | 0·0 | 73·8 | 51·0 | — | — |
| 8 | Clear to 4 ^h ; thence clouded; cir.-strat., cir., and haze; rain - - - - | 0·0 | 1·0 | — | — | 73·8 | 33·2 | 0·05 | — |
| 9 | A clear day generally - - - - - | — | — | 0·3 | 0·2 | 65·5 | 49·2 | — | — |
| 10 | Generally clear - - - - - | 0·1 | 0·0 | 0·0 | 0·0 | 67·1 | 41·2 | — | — |
| 11 | Solar halo at 21 ^h , 22 ^h , and 23 ^h - - - - - | 0·0 | 0·2 | 0·0 | 0·7 | 59·6 | 34·5 | — | — |
| 12 | Clear from 9 ^h to 14 ^h ; clouded from 15 ^h to 17 ^h ; cir. and haze; solar halo at 1 ^h and 2 ^h - - - - - | 0·7 | 0·1 | 1·0 | 1·0 | 68·0 | 41·7 | — | — |
| 13 | Clouded to 8 ^h ; cir.-cum. and haze, thence clear - - - - - | 1·0 | 0·0 | 0·1 | 0·0 | 66·3 | 46·2 | — | — |
| 14 | Clear to 4 ^h ; clouded from 5 ^h to 10 ^h ; cir. and haze; clear at 14 ^h and 15 ^h ; solar halo at 21 ^h - - - - - | 0·0 | 1·0 | 0·0 | 1·0 | 70·8 | 44·2 | — | — |
| 15 | Clouded to 7 ^h ; cir. and haze; thence clear; solar halo at 1 ^h , diam. 30 ^o - | 1·0 | 0·0 | — | — | 74·3 | 50·2 | — | — |
| 16 | Clouded; cir.-cum., cir.-strat., and haze; rain from 16 ^h to 17 ^h - - - | — | — | 1·0 | 1·0 | 72·3 | 49·2 | 0·09 | — |
| 17 | Clouded; cir.-cum. and haze; rain at 0 ^h ; sheet lightning at 11 ^h and 12 ^h - | 1·0 | 1·0 | 0·5 | 0·8 | 72·0 | 57·5 | — | — |
| 18 | Clouded; cum.-strat., cum., and cir.-cum.; a few clear spaces, rain at 3 ^h , 22 ^h , and 23 ^h - - - - - | 0·3 | 0·3 | 1·0 | 1·0 | 76·8 | 60·0 | 1·03 | — |
| 19 | Rain; thence mostly clear; clouded at 23 ^h - - - - - | 0·9 | 0·0 | 0·2 | 0·0 | 83·3 | 62·0 | — | — |
| 20 | Clouded from 0 ^h to 7 ^h ; cum., cir.-cum., and haze; thence clear; auroral light in N. from 11 ^h to 14 ^h - - - - - | 1·0 | 0·0 | 0·2 | 0·8 | 78·8 | 58·5 | — | — |
| 21 | Generally clear, cir.-strat. and cir.-cum. on horizon - - - - - | 0·4 | 0·1 | 0·2 | 1·0 | 73·7 | 50·6 | — | — |
| 22 | Solar halo at 3 ^h , diam. 30 ^o ; clouded to 8 ^h ; cir.-cum., cir.-strat., and haze - | 1·0 | 0·0 | — | — | 71·6 | 52·5 | — | — |
| 23 | Generally clear; at 16 ^h and 17 ^h clouded with cir.-cum., cir.-strat., and haze - - - - - | — | — | 0·1 | 0·4 | 71·8 | 48·7 | — | — |
| 24 | Clouded; cir.-cum., cum.-strat., and haze; slight rain at 7 ^h - - - - | 0·9 | 1·0 | 1·0 | 1·0 | 70·8 | 52·0 | 0·03 | — |
| 25 | Clouded all day; cir.-cum., and haze; clearer from 5 ^h to 9 ^h - - - - | 1·0 | 0·8 | 1·0 | 1·0 | 77·3 | 61·0 | — | — |
| 26 | Densely clouded all day, cir.-cum., cum.-strat., and haze; drizzling rain - | 1·0 | 1·0 | 1·0 | 1·0 | 81·6 | 61·6 | 0·40 | — |
| 27 | Densely clouded; cir.-cum. and haze; rain from 0 ^h to 6 ^h , clear at 20 ^h - | 1·0 | 1·0 | 1·0 | 0·9 | 71·2 | 58·8 | 0·74 | — |
| 28 | Partially clear to 7 ^h ; thence clear to 19 ^h ; clouded - - - - - | 0·6 | 0·0 | 0·3 | 0·0 | 65·3 | 57·5 | — | — |
| 29 | Clear to 6 ^h ; thence clouded, cir.-cum., cum.-strat., and haze - - - | 0·1 | 1·0 | — | — | 72·3 | 46·2 | — | — |
| 30 | Clouded; cir.-cum. and haze; slight rain at 12 ^h , 14 ^h , and 15 ^h - - - | — | — | 1·0 | 0·7 | 75·3 | 53·5 | 0·03 | — |
| JULY. | | | | | | | | | |
| 1 | Cloudy to 1 ^h ; cum. and cir.-cum., thence clear; rain - - - - - | 0·2 | 0·0 | 0·0 | 0·1 | 79·8 | 63·0 | 0·09 | — |
| 2 | Rainbow at 7 ^h ; clouded, cir.-cum., cir.-strat., and haze - - - - - | 0·9 | 1·0 | 0·8 | 0·1 | 84·9 | 51·9 | — | — |
| 3 | Clear generally - - - - - | 0·2 | 0·0 | 0·0 | 0·0 | 79·6 | 56·0 | — | — |
| 4 | Clear day with the exception of light cir. from 12 ^h to 17 ^h - - - - - | 0·0 | 0·0 | 0·4 | 1·0 | 71·5 | 40·1 | — | — |
| 5 | Clouded all day; cir.-cum., cir.-strat., and haze; slight rain from 0 ^h to 5 ^h - | 1·0 | 1·0 | 1·0 | 0·1 | 71·0 | 42·7 | 0·03 | — |
| 6 | Generally clear; a few light clouds in horizon - - - - - | 0·0 | 0·0 | — | — | 76·4 | 58·7 | — | — |
| 7 | Clear - - - - - | — | — | 0·0 | 0·3 | 81·8 | 52·0 | — | — |
| 8 | Generally clear; faint auroral light at 11 ^h and 12 ^h - - - - - | 0·0 | 0·0 | 0·0 | 0·3 | 75·6 | 44·9 | — | — |
| 9 | Clouded; storm of rain, thunder, and lightning, from 10 ^h to 15 ^h - - | 1·0 | 0·5 | 0·9 | 0·6 | 77·5 | 53·9 | 0·09 | — |
| 10 | Cloudy; cir.-cum., cum., and haze; at intervals a few clear spots - - | 0·7 | 1·0 | 0·4 | 0·0 | 79·8 | 63·5 | — | — |
| 11 | Unclouded all day - - - - - | 0·0 | 0·0 | 0·0 | 0·7 | 79·8 | 59·5 | — | — |
| 12 | Clouded; cum., cir.-cum., and haze; lightning in S.S.W. and S.E., from 11 ^h to 15 ^h ; rain at 19 ^h - - - - - | 0·0 | 0·3 | 0·7 | 0·7 | 80·4 | 50·9 | 0·06 | — |
| 13 | Clouded; cir.-cum. and cir.-strat.; sheet lightning at 10 ^h and 11 ^h - - | 0·5 | 0·3 | — | — | 82·0 | 60·6 | — | — |
| 14 | Clouded; cir.-cum., cum.-strat., and cir.-strat. - - - - - | — | — | 0·8 | 0·9 | 79·3 | 57·9 | — | — |
| 15 | Clouded; cir. and haze; rain from 8 ^h to 17 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 86·6 | 58·1 | 0·59 | — |
| 16 | Clouded from 0 ^h to 5 ^h ; cir.-cum. and cum.-strat.; clear from 8 ^h to 13 ^h - | 1·0 | 0·0 | 0·5 | 0·0 | 71·8 | 59·0 | — | — |
| 17 | Clear - - - - - | 0·2 | 0·0 | 0·0 | 0·1 | 76·8 | 54·5 | — | — |
| 18 | Clouded; cir.-cum., cir.-strat., and haze; clear at 13 ^h , 14 ^h , and 15 ^h - | 0·4 | 1·0 | 0·2 | 1·0 | 78·0 | 49·1 | — | — |
| 19 | Clouded to 14 ^h ; thence clear - - - - - | 1·0 | 0·8 | 0·2 | 0·2 | 76·0 | 61·5 | — | — |
| 20 | Clear; at intervals a few cir.-cum. and cum.-strat. - - - - - | 0·6 | 0·0 | — | — | 77·8 | 55·5 | — | — |
| 21 | Clear - - - - - | — | — | 0·0 | 0·8 | 78·4 | 52·9 | — | — |
| 22 | Clouded; cir.-cum., cum.-strat., and haze; distant thunder in N.W. and N., passing to E.; heavy shower of rain at 7 ^h - - - - - | 0·8 | 0·9 | 1·0 | 0·2 | 77·8 | 52·5 | 0·32 | — |
| 23 | Clouded at 4 ^h , 5 ^h , 6 ^h , 15 ^h , 16 ^h , and 17 ^h ; cir.-cum., cum.-strat., and cir.-strat.; slight rain at 17 ^h , 18 ^h , and 21 ^h - - - - - | 0·9 | 0·9 | 1·0 | 1·0 | 84·8 | 63·0 | 0·14 | — |
| 24 | Clouded; cir.-cum., cir.-strat., and haze; rain from 9 ^h to 17 ^h - - - - | 0·7 | 1·0 | 1·0 | 1·0 | 78·7 | 60·8 | 0·79 | — |
| 25 | Clouded to 3 ^h ; cir.-cum., and cir.-strat.; thence clear - - - - - | 1·0 | 0·2 | 0·0 | 1·0 | 72·6 | 60·3 | — | — |
| 26 | Clouded to 1 ^h ; cir., cir.-strat., and haze; thence clear - - - - - | 0·3 | 0·0 | 0·0 | 0·0 | 78·4 | 54·1 | — | — |
| 27 | Clear - - - - - | 0·0 | 0·0 | — | — | 76·8 | 50·5 | — | — |
| 28 | Clear to 12 ^h ; partially clouded; cir.-cum. dispersed - - - - - | — | — | 0·5 | 0·0 | 76·0 | 49·0 | — | — |
| 29 | Mostly clear to 6 ^h ; clouded; cir.-cum.; rain at 20 ^h - - - - - | 0·2 | 0·8 | 1·0 | 1·0 | 78·8 | 54·5 | — | — |

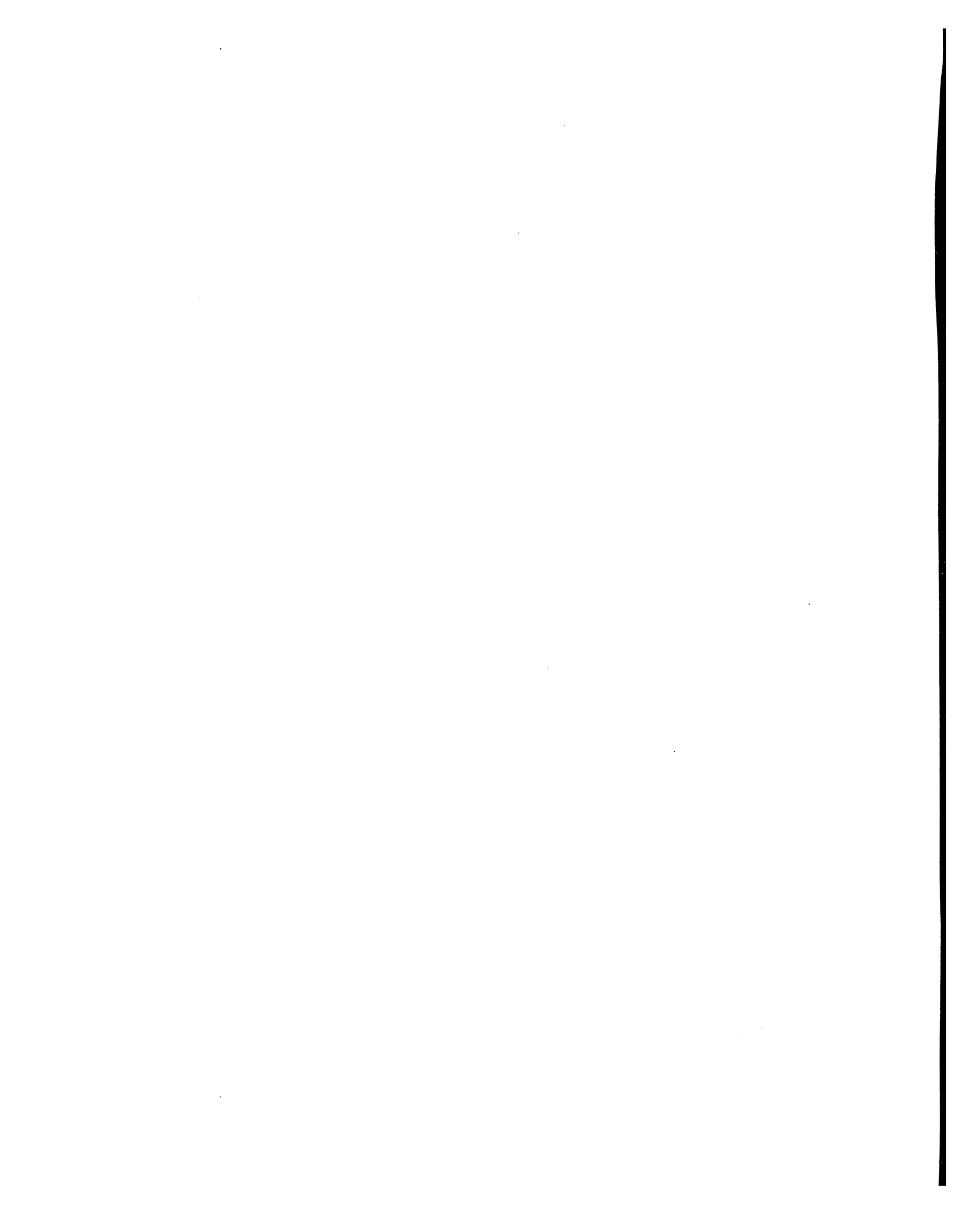
| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Terr. Rad. |
|------------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------|----------------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| JULY. | | | | | | | | | |
| 30 | Clouded; cir.-strat. and cir.-cum; rain 0 ^h to 6 ^h ; sheet lightning at 11 ^h , 12 ^h , 13 ^h , 14 ^h , and 15 ^h , in W. and S.W. | 1·0 | 1·0 | 0·8 | 0·5 | 82·6 | 62·0 | 0·58 | — |
| 31 | Clear and clouded alternately; thunder-storm and rain at 8 ^h ; sheet lightning in S. and S.W. from 11 ^h to 13 ^h | 0·9 | 1·0 | 0·4 | 0·0 | 80·0 | 66·7 | 0·14 | — |
| AUGUST. | | | | | | | | | |
| 1 | Generally clear; a few light cir.-cum. and cum.-strat. | 0·4 | 0·1 | 0·5 | 0·4 | 86·8 | 56·0 | — ^a | — |
| 2 | Clear from 6 ^h to 14 ^h ; lunar halo at 15 ^h diam. about 30° | 0·6 | 0·0 | 0·6 | 1·0 | 86·0 | 54·3 | — | — |
| 3 | Clouded; cir.-cum. and cir.-strat.; rain from 4 ^h to 9 ^h | 0·9 | 0·7 | — | — | 78·7 | 51·5 | — | — |
| 4 | Clear | — | — | 0·7 | 0·0 | 75·8 | 56·0 | — | — |
| 5 | Clouded; dense haze; rain from 9 ^h to 16 ^h | 1·0 | 1·0 | 1·0 | 0·3 | 73·6 | 55·9 | — | — |
| 6 | Clouded; cir.-cum. and cir.-strat.; heavy rain at 23 ^h | 0·6 | 0·0 | 0·0 | 0·0 | 75·0 | 60·0 | — | — |
| 7 | Clouded; cum., cir.-cum., and cum.-strat.; rain from 12 ^h to 17 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 75·4 | 49·4 | — | — |
| 8 | Clouded; cir.-cum., cir.-strat., and haze | 0·7 | 0·7 | 1·0 | 1·0 | 77·8 | 62·0 | — | — |
| 9 | Clouded; cir.-cum., cum.-strat., and cir.-strat.; heavy shower of rain at 6 ^h ; rainbow; auroral light in N. at night | 1·0 | 0·8 | 0·3 | 0·3 | 80·0 | 65·6 | — | — |
| 10 | Clear and clouded alternately | 0·6 | 0·0 | — | — | 79·3 | 58·0 | — | — |
| 11 | Generally clear | — | — | 0·0 | 0·0 | 74·8 | 48·2 | — | — |
| 12 | The same | 0·4 | 0·0 | 0·0 | 0·7 | 72·4 | 43·5 | — | — |
| 13 | Clouded; cir. and haze; rain from 14 ^h to 16 ^h ; solar halo at 23 ^h , diam. about 30° | 1·0 | 0·4 | 1·0 | 1·0 | 71·2 | 47·7 | 0·08 | — |
| 14 | Clear from 7 ^h to 15 ^h ; cir.-strat., cir.-cum., and haze | 0·4 | 0·0 | 0·0 | 0·8 | 70·3 | 58·5 | — | — |
| 15 | Clear at 4 ^h , and from 9 ^h to 15 ^h ; clouded; cir.-cum., cir.-strat., and haze | 0·4 | 0·0 | 0·0 | 0·9 | 74·4 | 58·3 | — | — |
| 16 | Clouded; lightning and distant thunder in N.N.W. and N.E. from 8 ^h to 12 ^h ; rain; clear from 13 ^h to 16 ^h | 0·6 | 0·7 | 0·0 | 0·2 | 77·8 | 58·9 | 0·17 | — |
| 17 | Clouded from 0 ^h to 8 ^h ; cir., cir.-strat., and haze | 1·0 | 0·1 | — | — | 81·8 | 61·8 | — | — |
| 18 | Clouded; cir., cir.-strat., and haze; rain from 9 ^h to 15 ^h | — | — | 1·0 | 1·0 | 78·3 | 53·5 | 0·61 | — |
| 19 | A few drops of rain at 5 ^h ; clouded with cir.-cum. and cum.-strat. | 0·8 | 0·0 | 0·7 | 1·0 | 74·8 | 61·8 | 0·18 | — |
| 20 | Clouded to 4 ^h ; cir.-cum., cum.-strat., and haze | 0·8 | 0·1 | 0·0 | 0·0 | 80·8 | 63·0 | — | — |
| 21 | Clear to 14 ^h ; thence cloudy; rain at 20 ^h , 22 ^h , and 23 ^h | 0·1 | 0·0 | 0·5 | 1·0 | 72·0 | 53·9 | 0·34 | — |
| 22 | Rain at 0 ^h ; again from 9 ^h to 12 ^h ; clouded | 0·7 | 1·0 | 0·1 | 1·0 | 67·5 | 57·2 | 0·28 | — |
| 23 | Clear from 7 ^h to 17 ^h ; clouded; cir.-cum. and cir.-strat. | 0·4 | 0·0 | 0·0 | 0·1 | 76·6 | 60·5 | — | — |
| 24 | Clouded from 0 ^h to 8 ^h , cum.-strat., cir.-cum., and cir.-strat.; rain at 5 ^h | 0·9 | 0·3 | — | — | 73·2 | 47·5 | 0·03 | — |
| 25 | Clouded to 12 ^h ; thence nearly clear | — | — | 0·4 | 1·0 | 71·8 | 53·0 | — | — |
| 26 | Clouded; cir.-cum., cum., and haze; rain at intervals; solar halo at 22 ^h , diam. about 40° | 1·0 | 1·0 | 1·0 | 0·9 | 68·5 | 45·7 | 0·03 | — |
| 27 | Clouded; cir.-cum., cir.-strat., and haze; showers; sheet lightning at 12 ^h | 0·7 | 0·1 | 0·9 | 1·0 | 67·1 | 54·7 | 0·22 | — |
| 28 | Clouded; cum., cir.-cum.-strat. and cir.-strat.; showery | 0·6 | 0·4 | 0·0 | 0·6 | 66·5 | 50·3 | 0·03 | — |
| 29 | Generally clouded to 7 ^h , detached cir.-cum., and cum.-strat.; auroral light at 9 ^h | 0·6 | 0·1 | 0·7 | 1·0 | 67·9 | 55·2 | — | — |
| 30 | Clouded; cir.-cum., and cum.-strat.; rain from 2 ^h to 14 ^h | 0·9 | 1·0 | 1·0 | 0·6 | 72·8 | 48·2 | 0·04 | — |
| 31 | Clouded; till 3 ^h , cir.-cum. and cum.-strat.; thence clear | 0·7 | 0·0 | — | — | 71·4 | 61·2 | — | — |
| SEPTEMBER. | | | | | | | | | |
| 1 | Densely clouded all day, with cir.-cum. and cir.-strat. | — | — | 1·0 | 1·0 | 77·8 | 54·7 | — | — |
| 2 | Clouded to 6 ^h ; cir.-cum. and cum.-strat.; thence clear | 0·8 | 0·0 | 0·0 | 0·0 | 74·6 | 65·4 | — | — |
| 3 | Generally clear | 0·2 | 0·0 | 0·0 | 0·0 | 80·8 | 55·5 | — | — |
| 4 | Clear to 13 ^h ; thence partially clouded with cir.-cum. | 0·0 | 0·0 | 0·4 | 0·0 | 75·8 | 49·5 | — | — |
| 5 | In general clear; lunar halo at 15 ^h , diam. about 45° | 0·3 | 0·0 | 0·0 | 0·0 | 72·0 | 50·5 | — | — |
| 6 | Clear; haze on horizon | 0·0 | 0·0 | 0·0 | 0·0 | 67·1 | 51·1 | — | — |
| 7 | Generally clear; slight haze on horizon; sheet lightning in N.W. at 9 ^h and 10 ^h | 0·3 | 0·0 | — | — | 71·3 | 51·2 | — | — |
| 8 | Clouded, with cir.-cum., cir.-strat., and haze | — | — | 0·7 | 1·0 | 70·6 | 50·8 | — | — |
| 9 | Clouded; cir.-cum. and haze; clear at 8 ^h ; rain at intervals | 0·9 | 0·9 | 1·0 | 1·0 | 73·8 | 60·0 | 0·07 | — |
| 10 | Clouded from 0 ^h to 7 ^h , with cir.-cum. and cum.-strat.; dense mist rising from the ground | 0·5 | 0·0 | 1·0 | 1·0 | 72·8 | 57·0 | — | — |
| 11 | Clouded; cum.-strat. and cir.-strat.; thunder in W., rain at 3 ^h | 1·0 | 0·7 | 0·7 | 0·9 | 74·4 | 58·5 | 0·04 | — |
| 12 | Clouded to 0 ^h , with cir.-cum. and cir.-strat.; thence clear | 0·1 | 0·7 | 0·0 | 0·0 | 72·6 | 57·2 | — | — |
| 13 | Clear all the day | 0·0 | 0·0 | 0·0 | 0·0 | 72·8 | 48·4 | — | — |
| 14 | Clear all day, with very slight exceptions | 0·4 | 0·0 | — | — | 71·6 | 49·4 | — | — |
| 15 | Clear all the day | — | — | 0·0 | 0·0 | 76·6 | 59·2 | — | — |
| 16 | The same | 0·0 | 0·0 | 0·0 | 0·0 | 77·0 | 54·8 | — | — |
| 17 | The same with slight exceptions | 0·0 | 0·0 | 0·4 | 0·1 | 80·8 | 54·5 | — | — |
| 18 | Clear all day | 0·0 | 0·0 | 0·0 | 0·0 | 79·4 | 49·9 | — | — |
| 19 | Nearly clear all day | 0·2 | 0·0 | 0·0 | 0·0 | 70·8 | 44·7 | — | — |
| 20 | Clear till 20 ^h ; clouded at 21 ^h | 0·2 | 0·0 | 0·2 | 0·6 | 78·8 | 58·3 | — | — |

^a Rain gauge out of order.

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Terri. Rad. |
|-------------------|---|-----------------------|-----|------|------|-------------|-------------|-------|-------------|
| | | 3h. | 9h. | 15h. | 21h. | | | | |
| SEPTEMBER. | | | | | | | | | |
| 21 | Clouded from 0 ^h to 3 ^h ; cir.-cum. and haze; thence clear | 0·8 | 0·0 | — | — | 81·8 | 61·0 | In. | ° |
| 22 | Partially clouded with cir.-cum. and cum.-strat. | — | — | 0·4 | 0·8 | 76·3 | 31·7 | — | — |
| 23 | Generally clouded; cir.-cum. and cum.-strat. to 18 ^h | 1·0 | 0·9 | 0·6 | 1·0 | 56·0 | 38·7 | — | — |
| 24 | Clouded from 0 ^h to 6 ^h , and from 13 ^h to 17 ^h ; cir.-cum., cum.-strat., and haze; thence clear | 1·0 | 0·0 | 0·7 | 1·0 | 56·6 | 43·2 | — | — |
| 25 | Clouded; cir.-cum., cir.-strat., and haze; slight rain from 0 ^h to 5 ^h | 1·0 | 0·8 | 1·0 | 0·2 | 60·3 | 36·9 | — | — |
| 26 | Partially clouded most of the day; cir.-cum. and cum.-strat.; clear from 14 ^h to 17 ^h | 0·8 | 0·4 | 0·1 | 0·3 | 56·0 | 38·2 | — | — |
| 27 | Partially clouded to 10 ^h ; thence clouded cir., cir.-strat., and haze; lunar halo at 14 ^h , diam. about 40° | 0·2 | 0·4 | 1·0 | 0·9 | 55·8 | 28·2 | — | — |
| 28 | Clouded with cir.-cum., cum.-strat., and cir.-strat.; rain from 9 ^h to 15 ^h | 1·0 | 1·0 | — | — | 49·5 | 33·5 | 0·12 | — |
| 29 | Clouded to 2 ^h ; thence generally clear | — | — | 0·0 | 0·7 | 51·3 | 41·7 | — | — |
| 30 | Clear | 0·1 | 0·0 | 0·0 | 0·3 | 57·6 | 39·3 | — | — |
| OCTOBER. | | | | | | | | | |
| 1 | Mostly clear | 0·0 | 0·2 | 0·0 | 1·0 | 63·0 | 33·1 | — | — |
| 2 | In general clouded; cir.-cum., cir., and haze; rain from 10 ^h to 14 ^h | 1·0 | 1·0 | 0·8 | 0·0 | 56·2 | 38·2 | 0·20 | — |
| 3 | Generally clear to 4 ^h ; thence mostly clouded; cir.-cum., cir.-strat., and haze; in N. horizon lightning at 8 ^h | 0·2 | 0·5 | 0·9 | 0·8 | 60·5 | 43·7 | — | — |
| 4 | Slight rain and distant thunder at 5 ^h ; clear from 7 ^h to 15 ^h ; thence clouded; cir.-cum., cir.-cum.-strat., and cir.-strat. | 0·7 | 0·0 | 0·4 | 1·0 | 60·3 | 43·1 | — | — |
| 5 | Mostly clouded; cir.-cum. and cum.-strat.; slight rain at 22 ^h and 23 ^h | 1·0 | 0·5 | — | — | 59·9 | 45·9 | — | — |
| 6 | Generally clear; clouded at 20 ^h | — | — | 0·1 | 1·0 | 54·8 | 39·7 | — | — |
| 7 | Clouded from 0 ^h to 2 ^h ; cir.-cum. and cum.-strat.; thence quite clear | 0·3 | 0·0 | 0·0 | 0·0 | 55·4 | 32·4 | — | — |
| 8 | Clear all day | 0·0 | 0·0 | 0·0 | 1·0 | 47·9 | 28·0 | — | — |
| 9 | Clouded till 6 ^h ; light cir. and haze; thence quite clear to 19 ^h , when it was cloudy | 1·0 | 0·0 | 0·0 | 1·0 | 57·4 | 45·2 | — | — |
| 10 | Cloudy at 0 ^h ; cir.-strat., cir., and haze; thence clear to 18 ^h , when it became cloudy | 0·0 | 0·0 | 0·0 | 0·1 | 71·6 | 44·7 | — | — |
| 11 | Clouded from 0 ^h to 4 ^h ; cir.-cum. dispersed; thence clear | 0·2 | 0·0 | 0·0 | 0·3 | 58·6 | 37·0 | — | — |
| 12 | Partially clouded all day, and cir.-cum. | 0·2 | 0·2 | — | — | 52·6 | 29·9 | — | — |
| 13 | Clouded from 12 ^h to 17 ^h ; thence partially clear | — | — | 1·0 | 1·0 | 52·0 | 32·1 | — | — |
| 14 | Densely clouded all day; constant rain till 7 ^h , when it ceased | 1·0 | 1·0 | 1·0 | 1·0 | 57·3 | 43·4 | 0·71 | — |
| 15 | Clouded till 5 ^h ; cum.-strat., cir.-cum., and haze; thence quite clear | 1·0 | 0·0 | 0·0 | 0·8 | 53·0 | 41·0 | — | — |
| 16 | Clouded all the day; cir.-cum. and cum.-strat.; slight rain from 20 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 53·6 | 36·1 | — | — |
| 17 | Slight rain from 0 ^h to 3 ^h ; clouded cir.-cum., cir.-strat., and haze | 1·0 | 1·0 | 1·0 | 1·0 | 50·6 | 40·3 | 0·07 | — |
| 18 | Generally clouded; drizzling rain from 0 ^h to 11 ^h | 1·0 | 1·0 | 0·5 | 0·6 | 46·1 | 39·5 | 0·27 | — |
| 19 | Mostly clouded till 1 ^h ; cir.-strat. and cir.-cum.; slight snow at 4 ^h , thence clear to 14 ^h , when it became cloudy | 0·7 | 0·0 | — | — | 55·3 | 39·7 | — | — |
| 20 | Clouded; cir. and haze; auroral light in N. at 12 ^h , 13 ^h , and 14 ^h | — | — | 0·6 | 1·0 | 45·2 | 28·4 | — | — |
| 21 | Generally clouded; cir., cir.-cum., and haze; lunar halo at 10 ^h , diam. about 25' | 1·0 | 0·6 | 1·0 | 1·0 | 43·9 | 26·7 | — | — |
| 22 | Clear | 0·2 | 0·0 | 0·0 | 0·0 | 48·3 | 33·9 | — | — |
| 23 | Generally clear; slight cir. and cir.-strat. at intervals | 0·5 | 0·0 | 0·4 | 0·2 | 53·9 | 34·7 | — | — |
| 24 | Clear, except slight cir. and cir.-strat. at intervals; lunar halo at 11 ^h , 12 ^h , and 13 ^h ; diam. about 30' | 0·0 | 0·0 | 0·5 | 1·0 | 54·8 | 34·7 | — | — |
| 25 | Clear from 7 ^h to 13 ^h ; thence clouded, cum.-strat., and cir.-cum. | 0·6 | 0·0 | 1·0 | 1·0 | 55·8 | 44·2 | — | — |
| 26 | Generally clouded; cir.-cum. and cir.-strat.; lunar halo at 9 ^h , and 10 ^h ; diam. about 30° | 1·0 | 0·5 | — | — | 60·3 | 33·9 | — | — |
| 27 | Clouded most of the day; cir.-cum. and haze; snow from 14 ^h to 17 ^h | — | — | 1·0 | 1·0 | 49·8 | 31·7 | — | — |
| 28 | Clouded all the day; cir.-cum. and haze; constant snow to 21 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 40·1 | 26·9 | — | — |
| 29 | Clouded; cir.-cum. and haze; snow from 0 ^h to 8 ^h , and from 10 ^h to 16 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 29·9 | 28·1 | — | — |
| 30 | Clouded till 8 ^h ; cir.-cum., cir.-strat., and haze; thence clear | 1·0 | 0·1 | 0·0 | 0·0 | 31·7 | 27·5 | — | — |
| 31 | Clear all the day | 0·1 | 0·0 | 0·0 | 0·7 | 36·4 | 15·9 | — | — |
| NOVEMBER. | | | | | | | | | |
| 1 | Clouded; cir., cir.-strat., and haze; rain from 6 ^h to 7 ^h | 1·0 | 1·0 | 1·0 | 0·0 | 43·5 | 24·1 | — | — |
| 2 | Clear from 0 ^h to 6 ^h ; thence clouded | 0·3 | 1·0 | — | — | 43·9 | 39·3 | — | — |
| 3 | In general clouded; rain | — | — | 1·0 | 1·0 | 55·3 | 36·2 | 0·77 | — |
| 4 | Clouded to 5 ^h ; cum.-strat., cir.-cum., and haze; mostly clear | 1·0 | 0·9 | 0·0 | 0·3 | 46·4 | 38·3 | — | — |
| 5 | Partially clouded all day; cir.-cum. and cum.-strat. floating about | 0·5 | 0·1 | 0·5 | 0·1 | 46·1 | 32·5 | — | — |
| 6 | Generally clear to 4 ^h ; clouded cir.-cum. and cum.-strat.; dispersed | 0·1 | 0·0 | 0·5 | 0·5 | 50·6 | 32·2 | — | — |
| 7 | Clear and clouded alternately; cir.-cum. and cum.-strat.; lightning at 9 ^h in N.W. horizon | 1·0 | 0·0 | 0·1 | 1·0 | 49·7 | 29·9 | — | — |
| 8 | Clouded to 9 ^h ; cum.-strat. and cir.-cum.; sleet between 2 ^h and 7 ^h | 1·0 | 1·0 | 0·0 | 1·0 | 56·0 | 28·5 | 0·04 | — |
| 9 | Clouded to 2 ^h ; cir.-cum., cum.-strat., and haze; thence mostly clear | 0·6 | 0·0 | — | — | 50·6 | 26·2 | — | — |

| Day. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. | Terr. Rad. |
|-----------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | | |
| NOVEMBER. | | | | | | | | | |
| 10 | Clouded all day; cir.-cum. and cir.-strat.; rain, thunder, and lightning | — | — | 1.0 | 1.0 | 44.7 | 29.9 | 0.24 | — |
| 11 | Clouded all day; cir.-cum. and haze; light rain at intervals | 1.0 | 1.0 | 1.0 | 1.0 | 46.1 | 36.7 | 0.12 | — |
| 12 | Clouded; rain at 2 ^h , 3 ^h , 5 ^h , and 9 ^h | 1.0 | 1.0 | 0.4 | 0.1 | 42.9 | 39.4 | 0.52 | — |
| 13 | Partially clouded, cir.-cum. and cum.-strat.; auroral light from 10 ^h to 14 ^h ; clear at 22 ^h | 0.9 | 0.1 | 0.0 | 0.0 | 47.1 | 34.1 | — | — |
| 14 | Mostly clouded; cir.-cum. and cum. | 0.8 | 1.0 | 0.5 | 0.8 | 38.7 | 28.9 | — | — |
| 15 | Clouded till 6 ^h ; cir.-cum. and haze; auroral light at 15 ^h | 1.0 | 0.0 | 0.3 | 1.0 | 40.7 | 28.5 | — | — |
| 16 | Clouded; cir.-cum., cum.-strat., and haze; solar halo at 2 ^h ; diameter 30° | 1.0 | 1.0 | — | — | 45.4 | 27.9 | — | — |
| 17 | Generally clouded; occasional showers during the day | — | — | 1.0 | 0.5 | 47.8 | 34.6 | 0.20 | — |
| 18 | Mostly clouded; cum.-strat. and cir.-cum.; clear at 20 ^h | 0.8 | 1.0 | 1.0 | 0.5 | 45.9 | 32.5 | — | — |
| 19 | Clear at 0 ^h , 2 ^h , 3 ^h , 11 ^h , and 12 ^h ; at other times partially clouded | 0.1 | 0.6 | 0.4 | 0.5 | 36.1 | 24.3 | — | — |
| 20 | Mostly clear; a few cir.-cum. and cum.-strat. occasionally | 0.2 | 0.3 | 0.0 | 0.8 | 41.6 | 26.2 | — | — |
| 21 | Generally clouded; cir.-cum., cir.-strat., and haze; lunar halo from 7 ^h to 11 ^h ; diameter about 45° | 0.4 | 1.0 | 1.0 | 1.0 | 44.6 | 27.2 | — | — |
| 22 | Clouded all the day; cir.-cum., cir.-strat., and haze | 0.9 | 1.0 | 1.0 | 1.0 | 45.2 | 28.7 | — | — |
| 23 | In general clouded; cir.-strat., cir.-cum., and haze | 0.9 | 0.8 | — | — | 44.3 | 37.3 | — | — |
| 24 | Clouded; clear from 13 ^h to 17 ^h ; a few flakes of snow | — | — | 0.0 | 0.2 | 45.4 | 23.1 | — | — |
| 25 | Clear till 10 ^h ; thence clouded; cir.-cum. and haze; lunar halo at 11 ^h ; diameter 40°; snow from 16 ^h to 17 ^h | 0.2 | 0.0 | 1.0 | 1.0 | 26.7 | 18.1 | — | — |
| 26 | Clouded; cir.-cum. and cum.-strat.; snow from 0 ^h to 6 ^h | 1.0 | 1.0 | 1.0 | 0.9 | 26.3 | 16.4 | — | — |
| 27 | Clouded; cir.-cum. and haze; solar halo at 1 ^h and 2 ^h , diameter 30°; snow from 13 ^h to 23 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 29.1 | 18.4 | — | — |
| 28 | Clouded all day; snow from 0 ^h to 2 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 24.7 | 12.1 | — | — |
| 29 | Clouded all day; cir.-cum. and cum.-strat.; rain at 19 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 24.7 | 18.9 | — | — |
| 30 | Clouded all day; dense haze; slight rain from 0 ^h to 11 ^h | 1.0 | 1.0 | — | — | 34.7 | 22.9 | — | — |
| DECEMBER. | | | | | | | | | |
| 1 | Mostly clear to 2 ^h ; thence clouded; cir.-cum. and haze | — | — | 0.8 | 0.0 | 38.9 | 32.7 | — | — |
| 2 | Clear at 5 ^h , 7 ^h , 9 ^h , and 13 ^h ; clouded; cum.-strat. and cir.-cum. | 0.8 | 1.0 | 1.0 | 0.2 | 34.1 | 22.5 | — | — |
| 3 | Clouded; cir.-cum. and haze; slight rain from 7 ^h to 13 ^h | 0.8 | 0.0 | 0.9 | 1.0 | 37.9 | 25.4 | — | — |
| 4 | Clouded; cir.-cum. and haze; slight rain from 1 ^h to 12 ^h and 22 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 36.6 | 25.9 | — | — |
| 5 | Clouded all day; cir.-cum., cir.-strat., and haze; rain from 0 ^h to 6 ^h , and from 10 ^h to 17 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 38.4 | 32.7 | — | — |
| 6 | Clouded; cum.-strat. and haze; squally, with occasional showers of snow | 1.0 | 1.0 | 1.0 | 0.6 | 36.4 | 31.7 | — | — |
| 7 | Clouded till 12 ^h ; cir.-cum. and cum.-strat.; thence quite clear | 1.0 | 1.0 | — | — | 43.3 | 33.7 | — | — |
| 8 | Clear till 10 ^h ; thence clouded, cir.-strat., cir.-cum., and haze | — | — | 0.0 | 0.2 | 48.5 | 15.7 | — | — |
| 9 | Clouded all day, with cir.-cum., cir.-strat., and haze | 0.0 | 0.2 | 0.6 | 1.0 | 29.3 | 19.7 | — | — |
| 10 | Clear from 12 ^h to 16 ^h ; thence generally clouded; cir.-cum., cum.-strat., and haze | 1.0 | 1.0 | 1.0 | 1.0 | 35.7 | 19.9 | — | — |
| 11 | Generally clouded; cir.-cum. and haze; rain at 19 ^h | 1.0 | 0.3 | 0.0 | 1.0 | 29.7 | 24.7 | — | — |
| 12 | Clouded all day; cir.-cum. and haze; rain from 0 ^h to 10 ^h | 0.5 | 1.0 | 1.0 | 1.0 | 34.4 | 17.9 | — | — |
| 13 | Generally clouded; cir.-cum., cir.-strat., and haze; auroral light in N. at 16 ^h | 1.0 | 1.0 | 1.0 | 0.7 | 39.1 | 32.3 | — | — |
| 14 | Clear from 12 ^h to 14 ^h ; remainder clouded; cir.-cum. and haze | 1.0 | 0.9 | — | — | 37.7 | 29.9 | — | — |
| 15 | Clouded till 16 ^h ; cir.-cum. and haze; snow from 21 ^h | — | — | 1.0 | 1.0 | 36.3 | 28.9 | — | — |
| 16 | Clouded; cir.-cum., cum.-strat., and haze; snow from 7 ^h to 9 ^h ; clear from 13 ^h to 17 ^h | 1.0 | 1.0 | 1.0 | 0.5 | 38.9 | 21.4 | — | — |
| 17 | Clouded; chiefly cir.-cum. and haze; snow at 20 ^h | 0.8 | 1.0 | 0.0 | 1.0 | 23.5 | 14.9 | — | — |
| 18 | Clouded to 11 ^h ; cir.-strat., cir.-cum., and haze; snow from 0 ^h to 3 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 25.1 | 1.6 | — | — |
| 19 | Clouded all day; cir.-cum. and haze | 1.0 | 1.0 | 0.3 | 0.8 | 26.1 | 2.3 | — | — |
| 20 | Clouded all day; dense haze; snow from 22 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 25.6 | 3.0 | — | — |
| 21 | Clouded all day; dense haze; snow from 0 ^h | 1.0 | 1.0 | — | — | 28.1 | 5.9 | — | — |
| 22 | Generally clouded; slight rain till 3 ^h ; snow from 13 ^h to 17 ^h | — | — | 1.0 | 1.0 | 33.5 | 22.9 | — | — |
| 23 | Clouded; cir.-cum. and haze; slight snow from 3 ^h to 5 ^h | 1.0 | 0.6 | 1.0 | 1.0 | 38.7 | 31.2 | — | — |
| 24 | Clouded all day; cir.-cum., cir.-strat., and haze | 1.0 | 1.0 | — | — | 30.9 | 21.3 | — | — |
| 25 | Generally clouded; cir.-cum. and haze | — | — | 1.0 | 0.9 | 36.1 | 25.7 | — | — |
| 26 | Generally clouded; cir., cir.-cum., and haze | 1.0 | 0.4 | 0.9 | 0.6 | 45.1 | 22.5 | — | — |
| 27 | Partially clear to 5 ^h ; thence quite clear | 1.0 | 0.0 | 0.0 | 0.8 | 50.6 | 22.9 | — | — |
| 28 | Mostly clouded; cir., cir.-strat., and cir.-cum. | 1.0 | 1.0 | — | — | 28.4 | 11.7 | — | — |
| 29 | Clouded all day; cir.-cum. and haze; halo round the moon from 13 ^h to 15 ^h ; diameter about 40° | — | — | 1.0 | 1.0 | 32.3 | 9.7 | — | — |
| 30 | Clouded all day; cir.-cum., cum.-strat., and haze; nearly clear from 7 ^h to 10 ^h | 1.0 | 0.1 | 1.0 | 1.0 | 34.9 | 19.5 | — | — |
| 31 | Generally clouded; cum.-strat. and cir.-cum.; clear spaces at intervals | 0.5 | 1.0 | 1.0 | 1.0 | 39.7 | 22.9 | — | — |

Rain Gauge out of order.



TORONTO, 1845.

MAGNETICAL OBSERVATIONS.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|-------|
| Angular Value of one Scale Division of the Declinometer = 0' 721. Increasing Numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JANUARY. | 1 | 119·0 | 121·0 | 124·2 | 124·5 | 123·4 | 121·0 | 117·0 | 115·0 | 114·8 | 115·6 | 116·0 | 114·4 |
| | 2 | 118·8 | 120·0 | 121·8 | 124·0 | 121·8 | 116·2 | 115·2 | 114·6 | 113·0 | 113·5 | 112·0 | 115·8 |
| | 3 | 116·5 | 121·0 | 123·0 | 122·3 | 120·8 | 118·2 | 114·0 | 112·2 | 111·8 | 112·7 | 115·0 | 116·1 |
| | 4 | 117·4 | 118·6 | 119·7 | 120·3 | 119·8 | 117·2 | 114·2 | 112·3 | 113·0 | 114·2 | 116·8 | 116·2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 117·8 | 118·2 | 118·2 | 119·2 | 119·0 | 118·7 | 117·1 | 117·5 | 118·1 | 117·0 | 116·1 | 116·6 |
| | 7 | 118·8 | 119·1 | 118·8 | 118·0 | 117·1 | 116·0 | 111·0 | 113·7 | 115·0 | 115·2 | 117·0 | 117·4 |
| | 8 | 118·8 | 120·0 | 118·6 | 117·8 | 116·0 | 114·4 | 115·0 | 115·6 | 117·0 | 118·2 | 117·6 | 117·6 |
| | 9 | 120·2 | 120·0 | 112·6 | 104·4 | 108·3 | 109·2 | 108·3 | 108·8 | 111·2 | 106·2 | 103·7 | 109·4 |
| | 10 | 119·0 | 119·4 | 119·3 | 115·9 | 116·1 | 114·4 | 114·0 | 113·3 | 111·0 | 116·3 | 116·0 | 116·4 |
| | 11 | 118·8 | 117·8 | 119·0 | 117·0 | 114·7 | 113·8 | 112·0 | 115·0 | 116·0 | 117·2 | 118·3 | 118·5 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 120·6 | 120·6 | 121·3 | 116·8 | 116·4 | 115·0 | 113·3 | 113·6 | 115·0 | 117·0 | 118·0 | 116·7 |
| | 14 | 120·0 | 122·2 | 122·0 | 120·4 | 117·4 | 113·0 | 110·0 | 109·6 | 113·1 | 116·7 | 118·0 | 119·5 |
| | 15 | 119·8 | 121·7 | 122·0 | 120·6 | 117·5 | 115·4 | 112·6 | 113·2 | 114·2 | 115·2 | 116·8 | 117·0 |
| | 16 | 120·2 | 120·4 | 122·1 | 122·1 | 116·6 | 114·0 | 112·9 | 112·5 | 113·2 | 115·1 | 117·0 | 118·0 |
| | 17 | 120·0 | 119·7 | 120·8 | 121·1 | 118·6 | 116·3 | 114·2 | 112·8 | 113·6 | 112·8 | 115·0 | 117·6 |
| | 18 | 119·9 | 121·2 | 122·9 | 121·3 | 119·0 | 116·8 | 115·0 | 114·0 | 115·4 | 117·5 | 117·0 | 117·5 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 118·0 | 113·0 | 108·5 | 107·0 | 119·0 | 118·0 | 108·4 | 113·0 | 111·3 | 110·6 | 114·5 | 117·1 |
| | 21 | 117·6 | 117·4 | 119·0 | 118·4 | 117·0 | 114·7 | 114·2 | 114·3 | 116·8 | 117·8 | 116·8 | 116·2 |
| | 22 | 116·5 | 119·2 | 120·4 | 117·7 | 115·1 | 114·4 | 114·3 | 114·7 | 114·8 | 116·2 | 116·8 | 116·0 |
| | 23 | 126·2 | 122·1 | 121·6 | 110·0 | 110·8 | 106·7 | 111·4 | 114·0 | 111·9 | 112·4 | 116·8 | 118·0 |
| | 24 | 119·4 | 119·2 | 121·2 | 119·2 | 117·7 | 113·0 | 104·1 | 113·7 | 107·7 | 113·2 | 115·0 | 127·2 |
| | 25 | 120·2 | 116·0 | 113·3 | 117·8 | 119·0 | 112·2 | 113·0 | 112·4 | 114·9 | 114·9 | 119·1 | 117·2 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 115·0 | 121·0 | 118·1 | 117·2 | 117·4 | 114·5 | 113·9 | 113·7 | 114·9 | 116·0 | 119·2 | 119·8 |
| | 28 | 118·6 | 120·0 | 122·2 | 121·2 | 116·8 | 108·5 | 102·8 | 107·7 | 109·5 | 105·8 | 111·0 | 114·0 |
| | 29 | 119·2 | 123·3 | 124·2 | 121·5 | 117·4 | 115·8 | 112·7 | 111·0 | 114·2 | 107·9 | 113·7 | 122·0 |
| | 30 | 119·2 | 120·8 | 122·7 | 121·0 | 118·1 | 119·2 | 110·3 | 111·0 | 110·0 | 117·0 | 115·0 | 118·3 |
| | 31 | 117·0 | 120·6 | 122·2 | 122·0 | 119·5 | 115·4 | 115·1 | 114·2 | 113·7 | 113·8 | 117·0 | 117·8 |
| Hourly Means | 118·98 | 119·76 | 119·99 | 118·45 | 117·42 | 114·90 | 112·44 | 113·09 | 113·52 | 114·30 | 115·75 | 117·34 | |
| FEBRUARY. | 1 | 120·4 | 120·0 | 120·2 | 121·8 | 116·7 | 114·0 | 112·4 | 115·5 | 113·4 | 115·6 | 115·9 | 117·8 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 118·8 | 120·0 | 120·4 | 120·1 | 118·9 | 117·4 | 115·2 | 114·5 | 115·8 | 117·3 | 118·2 | 117·0 |
| | 4 | 122·4 | 117·9 | 119·7 | 118·8 | 117·0 | 116·2 | 115·7 | 115·0 | 116·0 | 116·8 | 117·8 | 118·4 |
| | 5 | 120·0 | 121·0 | 122·4 | 117·4 | 115·8 | 115·7 | 107·2 | 108·4 | 113·0 | 114·7 | 116·6 | 117·2 |
| | 6 | 127·0 | 125·2 | 121·0 | 118·7 | 118·1 | 116·0 | 114·2 | 115·0 | 116·2 | 118·8 | 119·6 | 119·0 |
| | 7 | 121·0 | 121·4 | 122·0 | 120·8 | 118·3 | 112·9 | 112·9 | 113·8 | 115·0 | 118·0 | 118·0 | 117·5 |
| | 8 | 123·0 | 123·3 | 123·8 | 122·2 | 119·3 | 115·6 | 113·8 | 113·8 | 114·0 | 116·7 | 117·8 | 118·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 118·8 | 120·4 | 121·9 | 121·0 | 118·0 | 113·7 | 113·2 | 114·0 | 114·0 | 116·4 | 120·3 | 119·5 |
| | 11 | 118·9 | 119·7 | 121·2 | 119·4 | 119·0 | 116·5 | 114·0 | 114·0 | 114·2 | 114·8 | 116·2 | 117·4 |
| | 12 | 117·0 | 115·0 | 118·0 | 121·3 | 119·2 | 116·6 | 114·0 | 113·8 | 114·4 | 115·5 | 118·8 | 118·4 |
| | 13 | 118·6 | 121·8 | 123·2 | 123·1 | 121·0 | 118·2 | 115·8 | 114·8 | 114·0 | 114·8 | 116·1 | 116·7 |
| | 14 | 119·1 | 120·9 | 121·1 | 121·8 | 120·9 | 118·3 | 116·1 | 114·0 | 114·2 | 115·1 | 116·4 | 117·0 |
| | 15 | 118·2 | 119·0 | 120·1 | 121·1 | 119·3 | 117·8 | 114·0 | 112·9 | 114·1 | 116·2 | 117·0 | 117·4 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 118·0 | 119·8 | 120·4 | 120·0 | 117·2 | 113·2 | 109·0 | 109·0 | 110·0 | 115·2 | 116·2 | 116·8 |
| | 18 | 119·0 | 119·6 | 120·0 | 120·0 | 119·4 | 116·4 | 114·7 | 113·2 | 114·1 | 116·2 | 118·0 | 118·0 |
| | 19 | 117·2 | 118·0 | 122·0 | 119·4 | 118·2 | 115·5 | 116·2 | 109·9 | 110·3 ^a | 117·3 | 116·0 | 116·9 |
| | 20 | 122·2 | 119·7 | 119·6 | 119·6 | 116·7 | 116·7 ^a | 113·3 | 112·0 | 117·7 | 112·5 | 113·3 | 112·0 |
| | 21 | 114·0 | 119·2 | 123·0 | 121·8 | 121·0 | 117·1 | 111·0 | 108·0 | 111·1 | 110·2 | 118·0 | 116·0 |
| | 22 | 125·3 | 122·1 | 121·0 | 120·9 | 119·8 | 114·4 | 110·0 | 110·0 | 110·2 | 113·0 | 115·1 | 115·4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 121·5 | 124·2 | 120·8 | 122·0 | 119·0 | 117·0 | 111·2 | 110·6 | 112·0 | 111·2 | 112·0 | 110·6 |
| | 25 | 116·2 | 119·1 | 116·0 | 110·4 | 116·2 | 116·2 | 116·7 | 108·2 | 108·8 | 110·2 | 112·9 | 117·1 |
| | 26 | 119·5 | 108·1 | 103·9 | 115·1 | 119·2 | 116·3 | 112·6 | 112·0 | 110·8 | 113·0 | 117·0 | 113·9 |
| | 27 | 121·0 | 122·2 | 119·5 | 121·2 | 120·0 | 116·6 | 113·0 | 111·8 | 110·7 | 112·0 | 113·4 | 114·0 |
| | 28 | 119·9 | 115·9 | 115·2 | 121·9 | 120·3 | 116·2 | 112·8 | 110·0 | 109·0 | 111·2 | 108·9 | 113·3 |
| Hourly Means | 119·87 | 119·74 | 119·85 | 119·99 | 118·69 | 116·02 | 113·29 | 112·26 | 113·04 | 114·70 | 116·23 | 116·47 | |

^a Four minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'·721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 116·9 | 118·0 | 119·9 | 120·1 | 124·9 | 121·8 | 117·0 | 116·1 | 116·0 | 111·5 | 116·0 | 118·0 | 118·42 |
| 116·3 | 119·3 | 120·0 | 119·0 | 118·9 | 118·0 | 117·7 | 117·8 | 117·8 | 118·0 | 118·2 | 116·8 | 117·69 |
| 117·0 | 116·0 | 116·4 | 119·8 | 118·2 | 118·2 | 118·2 | 118·6 | 119·6 | 117·0 | 117·4 | 116·4 | 117·35 |
| 116·8 | 117·0 | 118·2 | 119·0 | 119·0 | 118·8 | — | — | — | — | — | — | 117·63 |
| — | — | — | — | — | — | 118·0 | 120·4 | 118·8 | 118·1 | 122·0 | 117·3 | 117·89 |
| 117·0 | 117·0 | 118·0 | 118·4 | 117·8 | 116·6 | 118·2 | 118·8 | 119·1 | 118·6 | 118·2 | 118·1 | 117·31 |
| 118·6 | 118·7 | 117·8 | 117·8 | 117·2 | 116·7 | 116·6 | 117·0 | 118·2 | 119·0 | 121·2 | 119·6 | 117·70 |
| 118·0 | 117·0 | 117·3 | 116·2 | 117·2 | 117·2 | 118·9 | 119·0 | 120·0 | 119·2 | 118·5 | 119·8 | 112·24 |
| 110·6 | 111·3 | 111·5 | 127·0 | 84·5 | 119·7 | 118·1 | 118·0 | 116·0 | 117·2 | 118·8 | 118·7 | 116·50 |
| 119·0 | 118·7 | 119·2 | 117·4 | 119·7 | 115·0 | 111·0 | 114·3 | 115·0 | 118·0 | 118·4 | 118·9 | 117·26 |
| 118·2 | 118·4 | 118·2 | 117·4 | 120·2 | 119·6 | — | — | — | — | — | — | 117·25 |
| — | — | — | — | — | — | 114·9 ^b | 115·4 | 118·3 | 118·7 | 118·7 | 118·2 | 117·30 |
| 117·4 | 118·2 | 118·4 | 118·1 | 117·7 | 118·5 | 117·0 | 117·2 | 117·0 | 119·0 | 114·1 | 117·0 | 117·70 |
| 119·8 | 121·5 | 119·5 | 120·3 | 118·6 | 118·0 | 114·9 | 116·8 | 117·0 | 116·0 | 116·3 | 114·6 | 117·84 |
| 119·3 | 121·3 | 120·4 | 118·9 | 120·1 | 118·0 | 117·9 | 114·4 | 116·2 | 116·8 | 117·0 | 118·5 | 119·52 |
| 117·9 | 120·0 | 120·6 | 118·0 | 118·0 | 117·6 | 119·4 | 127·0 | 117·8 | 118·9 | 120·0 | 119·8 | 115·24 |
| 118·0 | 120·2 | 118·0 | 122·5 | 125·0 | 123·2 | 118·0 | 111·5 | 111·9 | 119·3 | 121·3 | 116·7 | 117·55 |
| 118·2 | 119·6 | 119·1 | 125·2 | 118·7 | 119·0 | — | — | — | — | — | — | 117·93 |
| — | — | — | — | — | — | 126·1 | 125·2 | 122·2 | 123·0 | 120·4 | 114·3 | 118·01 |
| 117·3 | 117·5 | 118·1 | 118·0 | 117·7 | 118·0 | 116·1 | 117·0 | 117·0 | 112·9 | 119·1 | 118·6 | 117·71 |
| 121·8 | 117·1 | 119·5 | 117·6 | 120·8 | 118·5 | 117·2 | 117·0 | 117·8 | 119·2 | 118·0 | 117·2 | 116·87 |
| 121·7 | 118·1 | 118·7 | 117·4 | 118·0 | 116·1 | 117·1 | 121·3 | 118·6 | 121·4 | 124·5 | 121·4 | 117·17 |
| 114·0 | 117·2 | 120·4 | 150·4 | 124·8 | 119·8 | 116·6 | 115·6 | 114·8 | 111·7 | 122·0 | 123·1 | 117·24 |
| 117·3 | 117·2 | 122·2 | 117·3 | 115·8 | 117·2 | 117·0 | 120·2 | 125·3 | 120·8 | 125·0 | 119·2 | 117·95 |
| 117·8 | 120·3 | 118·3 | 118·7 | 118·0 | 118·1 | — | — | — | — | — | — | 117·71 |
| — | — | — | — | — | — | 105·0 | 121·6 | 119·2 | 120·0 | 119·7 | 118·2 | 117·84 |
| 118·8 | 118·0 | 117·8 | 116·0 | 117·2 | 117·6 | 117·0 | 116·7 | 117·3 | 118·0 | 118·4 | 118·6 | 119·52 |
| 122·2 | 119·1 | 129·4 | 117·4 | 116·6 | 117·4 | 118·6 | 123·8 | 127·3 | 114·3 | 130·9 | 118·7 | 115·24 |
| 123·3 | 119·0 | 118·2 | 125·4 | 115·9 | 119·6 | 118·6 | 116·2 | 117·3 | 116·1 | 119·9 | 119·0 | 117·55 |
| 118·4 | 118·6 | 118·6 | 118·2 | 118·4 | 119·0 | 118·7 | 117·7 | 119·9 | 120·2 | 119·8 | 115·0 | 117·93 |
| 117·7 | 118·8 | 121·3 | 118·0 | 118·2 | 117·9 | 119·0 | 116·3 | 118·0 | 119·5 | 119·0 | 120·4 | 118·01 |
| 118·12 | 118·26 | 119·07 | 120·33 | 117·67 | 118·34 | 117·14 | 118·18 | 118·27 | 117·87 | 119·73 | 118·23 | 117·71 |
| 117·8 | 117·9 | 117·9 | 123·1 | 117·1 | 117·8 | — | — | — | — | — | — | 116·87 |
| — | — | — | — | — | — | 116·2 | 117·0 | 117·6 | 117·2 | 120·0 | 119·4 | 117·61 |
| 116·8 | 117·0 | 120·2 | 118·0 | 118·4 | 118·0 | 118·0 | 118·8 | 118·4 | 119·7 | 120·2 | 118·0 | 117·80 |
| 117·6 | 117·6 | 117·0 | 119·2 | 117·0 | 116·5 | 117·1 | 117·3 | 118·0 | 118·6 | 119·0 | 120·0 | 117·61 |
| 116·7 | 117·7 | 116·2 | 117·1 | 117·7 | 116·9 | 118·8 | 119·0 | 119·9 | 125·8 | 118·0 | 128·2 | 118·49 |
| 119·0 | 118·7 | 118·3 | 117·8 | 117·7 | 119·0 | 118·9 | 115·3 | 117·2 | 117·0 | 118·6 | 121·7 | 118·58 |
| 118·8 | 119·0 | 119·0 | 118·2 | 120·3 | 115·2 | 113·8 | 117·0 | 117·5 | 118·0 | 119·4 | 117·2 | 117·75 |
| 119·0 | 118·0 | 119·3 | 126·7 | 123·4 | 117·7 | — | — | — | — | — | — | 117·71 |
| — | — | — | — | — | — | 120·6 | 113·0 | 116·8 | 118·4 | 119·2 | 113·2 | 118·61 |
| 117·7 | 116·1 | 118·2 | 124·2 | 120·5 | 117·8 | 116·0 | 116·4 | 116·8 | 116·1 | 117·3 | 119·0 | 117·80 |
| 117·4 | 118·6 | 118·8 | 118·3 | 118·0 | 117·8 | 117·8 | 117·5 | 117·0 | 117·0 | 118·8 | 120·3 | 117·61 |
| 118·3 | 118·8 | 126·8 | 124·0 | 120·0 | 120·0 | 118·5 | 117·8 | 119·0 | 119·0 | 119·6 | 120·0 | 118·49 |
| 117·7 | 118·7 | 122·8 | 120·0 ^c | 119·0 | 118·3 | 118·3 | 120·0 | 116·8 | 116·0 | 119·4 | 120·8 | 118·58 |
| 117·6 | 118·0 | 118·0 | 117·8 | 117·0 | 117·0 | 117·6 | 117·4 | 117·2 | 117·6 | 117·7 | 118·2 | 117·75 |
| 117·6 | 117·2 | 117·6 | 117·6 | 117·2 | 119·2 | — | — | — | — | — | — | 117·55 |
| — | — | — | — | — | — | 118·8 | 119·0 | 117·3 | 118·0 | 117·4 | 117·3 | 117·80 |
| 117·0 | 117·6 | 117·6 | 118·0 | 117·8 | 117·7 | 117·1 | 117·6 | 115·4 | 118·2 | 117·8 | 118·6 | 116·47 |
| 117·0 | 116·4 | 116·8 | 117·1 | 117·2 | 118·7 | 118·0 | 116·8 | 117·6 | 117·8 | 118·0 | 118·0 | 117·42 |
| 116·1 | 118·0 | 117·3 | 118·0 | 118·0 | 117·0 | 117·0 | 119·2 | 119·0 | 119·6 | 120·0 | 119·4 | 117·31 |
| 110·1 | 111·8 | 116·0 | 117·6 | 116·0 | 118·4 | 122·0 | 108·3 | 116·9 | 123·6 | 121·0 | 119·4 | 116·51 |
| 117·2 | 128·2 | 119·2 | 117·0 | 118·8 | 118·4 | 121·0 | 123·2 | 120·0 | 124·0 | 114·1 | 121·0 | 118·02 |
| 116·8 | 116·6 | 116·4 | 123·8 | 120·8 | 121·8 | — | — | — | — | — | — | 117·27 |
| — | — | — | — | — | — | 124·9 | 114·0 | 112·0 | 118·0 | 118·1 | 114·0 | 117·42 |
| 120·1 | 127·8 | 118·6 | 124·8 | 118·0 | 115·1 | 120·5 | 126·2 | 109·0 | 113·0 | 117·8 | 115·0 | 116·98 |
| 124·1 | 117·1 | 123·8 | 123·3 | 119·0 | 120·9 | 129·0 | 116·2 | 121·0 | 119·3 | 109·6 | 115·9 | 116·22 |
| 122·9 | 120·5 | 127·8 | 126·0 | 124·2 | 117·3 | 118·0 | 117·4 | 117·4 | 111·9 | 106·8 | 117·8 | 116·37 |
| 117·0 | 121·2 | 127·0 | 117·2 | 116·4 | 118·2 | 118·4 | 113·7 | 115·0 | 119·7 | 118·8 | 118·9 | 116·39 |
| 116·2 | 116·0 | 125·1 | 115·9 | 116·9 | 119·5 | 117·2 | 118·0 | 118·0 | 118·9 | 118·8 | 118·3 | 117·55 |
| 117·77 | 118·52 | 119·82 | 120·03 | 118·60 | 118·09 | 118·90 | 117·34 | 117·12 | 118·43 | 117·73 | 118·73 | 117·55 |

^b Thirteen minutes late.

^c Seven minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|------------------|--------------------|-------------------|----------------|
| Angular Value of One Scale Division of the Declinometer = 0' · 721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | Sc. Div. 120·0 | Sc. Div. 120·0 | Sc. Div. 122·1 | Sc. Div. 122·0 | Sc. Div. 120·6 | Sc. Div. 118·0 | Sc. Div. 113·2 | Sc. Div. 111·0 | Sc. Div. 111·6 | Sc. Div. 114·0 | Sc. Div. 115·7 | Sc. Div. 116·0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 119·0 | 119·4 | 120·4 | 121·5 | 119·8 | 118·1 | 112·9 | 110·7 | 109·2 | 111·1 | 113·8 | 115·0 |
| | 4 | 119·4 | 119·8 | 122·0 | 121·0 | 120·0 | 117·9 | 115·5 | 112·9 | 111·8 | 112·2 | 114·2 | 116·0 |
| | 5 | 119·0 | 120·4 | 121·9 | 123·9 | 121·0 | 116·7 | 113·5 | 112·0 | 112·0 | 113·0 | 115·2 | 115·3 |
| | 6 | 119·0 | 120·3 | 122·1 | 123·0 | 122·0 | 118·0 | 114·3 | 113·2 | 113·4 | 115·0 | 116·0 | 116·8 |
| | 7 | 120·0 | 122·0 | 122·6 | 125·2 | 122·0 | 119·0 | 114·2 | 109·0 | 106·8 | 105·2 | 107·0 | 114·3 |
| | 8 | 118·2 | 119·0 | 123·0 | 120·9 | 120·6 | 116·2 | 113·6 | 111·8 | 111·3 | 113·0 | 114·2 | 115·8 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 117·8 | 119·7 | 122·0 | 122·9 | 120·2 | 117·1 | 111·6 | 110·0 | 109·8 | 112·0 | 114·5 | 116·2 |
| | 11 | 118·7 | 121·9 | 122·5 | 120·2 | 121·1 | 115·5 | 113·3 | 112·1 | 113·9 | 112·5 ^b | 112·0 | 114·2 |
| | 12 | 119·8 | 121·6 | 124·0 | 125·0 | 122·4 | 119·0 | 116·0 | 113·4 | 112·0 | 112·6 | 114·0 | 115·6 |
| | 13 | 118·8 | 120·7 | 122·7 | 124·3 | 123·0 | 119·7 | 115·0 | 110·5 | 110·4 | 111·2 | 113·4 | 115·4 |
| | 14 | 122·0 | 122·4 | 124·2 | 122·7 | 122·8 | 116·2 | 114·1 | 108·1 | 109·2 | 111·2 | 111·2 | 115·0 |
| | 15 | 122·0 | 123·6 | 124·0 | 123·3 | 122·0 | 116·6 | 112·5 | 108·8 | 109·4 | 108·0 | 112·1 | 116·6 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 120·0 | 118·8 | 122·7 | 118·5 | 118·5 | 114·9 | 115·5 | 114·7 | 113·0 | 114·2 | 115·4 | 115·0 |
| | 18 | 119·9 | 122·0 | 123·2 | 122·0 | 117·0 | 111·1 | 110·0 | 111·4 | 111·2 | 113·4 | 114·0 | 116·4 |
| | 19 | 121·0 | 123·8 | 124·0 | 125·0 | 122·0 | 118·0 | 113·8 | 109·4 | 107·6 | 109·8 | 108·5 | 114·7 |
| | 20 | 117·0 | 126·9 | 126·0 | 124·8 | 120·3 | 116·8 | 98·3 | 107·8 | 111·0 | 114·0 | 115·0 | 116·0 |
| | 21 ^c | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 122·2 | 122·0 | 123·0 | 121·6 | 117·7 | 112·2 | 108·7 | 107·0 | 110·2 | 112·0 | 114·0 | 116·2 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 129·0 | 123·0 | 122·0 | 124·0 | 117·2 | 113·4 | 111·0 | 107·3 | 107·9 | 106·0 | 110·4 | 110·1 |
| | 25 | 120·0 | 121·2 | 122·4 | 124·1 | 120·3 | 112·4 | 113·1 | 113·8 | 112·2 | 112·8 | 113·2 | 116·1 |
| | 26 | 120·4 | 124·4 | 126·0 | 123·4 | 117·9 | 114·0 ^b | 111·2 | 109·2 | 109·0 | 107·8 | 112·2 | 115·2 |
| | 27 | 120·2 | 123·7 | 123·0 | 121·7 | 118·8 | 108·1 | 106·2 | 104·1 | 101·0 | 114·5 | 107·8 | 108·0 |
| | 28 | 119·0 | 121·0 | 120·0 | 121·0 | 120·2 | 117·1 | 111·5 | 109·0 | 108·4 | 107·7 | 106·0 | 113·2 |
| | 29 | 120·1 | 123·0 | 123·0 | 120·7 | 116·0 | 113·4 | 111·0 | 109·6 | 108·3 | 107·2 | 109·8 | 111·0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 120·3 | 120·0 | 121·4 | 120·2 | 118·6 | 115·1 | 112·8 | 112·4 | 112·8 | 113·0 | 113·2 | 114·0 |
| Hourly Means | 120·11 | 121·62 | 122·81 | 122·52 | 120·08 | 115·78 | 112·11 | 110·37 | 110·14 | 111·34 | 112·51 | 114·72 | |
| APRIL. | 1 | 119·8 | 119·0 | 120·8 | 117·2 | 115·7 | 113·8 | 112·0 | 111·7 | 112·5 | 112·9 | 114·5 | 114·7 |
| | 2 | 122·0 | 123·0 | 125·0 | 122·2 | 117·4 | 117·0 | 109·1 | 109·0 | 110·0 | 111·0 | 112·2 | 114·0 |
| | 3 | 124·2 | 127·2 | 126·9 | 123·0 | 120·4 | 112·1 | 109·2 | 105·7 | 106·4 | 108·3 | 113·6 | 115·4 |
| | 4 | 115·8 | 117·0 | 131·0 | 124·0 | 117·0 | 110·4 | 106·0 | 106·7 | 108·8 | 112·2 | 114·8 | 118·2 |
| | 5 | 122·4 | 124·6 | 127·0 | 126·8 | 120·0 | 114·7 | 108·9 | 107·4 | 109·6 | 112·2 | 116·0 | 118·6 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 122·0 | 124·8 | 128·4 | 127·1 | 123·0 | 118·0 | 114·2 | 111·0 | 110·0 | 110·6 | 112·0 | 115·0 |
| | 8 | 120·3 | 122·4 | 124·0 | 125·0 | 124·0 | 118·0 | 113·2 | 108·0 | 105·9 | 107·0 | 111·0 | 114·4 |
| | 9 | 120·3 | 123·3 | 126·9 | 128·0 | 124·3 | 119·6 | 112·0 | 106·0 | 105·2 | 105·4 | 109·0 | 113·0 |
| | 10 | 121·2 | 123·2 | 124·8 | 127·0 | 126·0 | 120·0 | 115·0 | 109·8 | 107·0 | 107·0 | 109·2 | 113·3 |
| | 11 | 121·0 | 123·2 | 127·0 | 127·0 | 124·0 | 119·3 | 112·7 | 105·2 | 106·8 | 107·9 | 111·1 | 115·2 |
| | 12 | 121·4 | 123·6 | 124·0 | 124·3 | 122·2 | 117·8 | 113·6 | 109·5 | 108·0 | 109·0 | 111·4 | 114·5 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 128·0 | 120·0 | 112·9 | 114·8 | 110·2 | 115·0 | 106·7 | 107·5 | 113·0 | 111·6 | 112·6 | 119·0 |
| | 15 | 117·0 | 119·9 | 115·0 | 117·2 | 116·5 | 115·4 | 110·2 | 110·4 | 108·2 | 109·0 | 112·0 | 115·0 |
| | 16 | 119·0 | 115·2 | 119·1 | 119·2 | 117·0 | 112·0 | 110·0 | 108·4 | 109·0 | 110·3 | 112·7 | 114·9 |
| | 17 | 119·4 | 119·4 | 120·4 | 118·8 | 116·1 | 115·2 | 114·9 | 110·6 | 109·2 | 111·2 | 112·8 | 114·0 |
| | 18 | 122·9 | 124·6 | 122·5 | 121·7 | 113·2 | 104·6 | 104·8 | 105·2 | 107·1 | 105·0 | 103·4 | 112·1 |
| | 19 | 123·0 | 124·2 | 125·1 | 125·3 | 121·3 | 119·0 | 106·2 | 103·7 | 105·3 | 105·6 | 103·4 | 113·0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 120·5 | 121·4 | 121·4 | 121·0 | 119·6 | 115·3 | 111·0 | 107·2 | 106·6 | 108·0 | 111·0 | 114·2 |
| | 22 | 121·0 | 122·5 | 122·2 | 121·2 | 118·0 ^a | 113·2 | 108·0 | 105·0 | 102·9 | 105·0 | 108·6 | 114·6 |
| | 23 | 121·8 | 123·0 | 124·0 | 124·6 | 121·9 | 115·1 | 107·4 | 102·7 | 101·1 | 103·0 | 105·6 | 112·2 |
| | 24 | 124·2 | 127·2 | 128·0 | 122·8 | 124·9 | 111·2 | 109·0 | 101·2 | 102·3 | 105·5 | 109·0 | 112·0 |
| | 25 | 112·3 | 110·7 | 112·9 | 116·0 | 113·9 | 111·7 | 107·1 | 106·1 | 104·1 | 107·3 | 111·0 | 114·6 |
| | 26 | 122·1 | 123·8 | 122·4 | 123·2 | 119·1 | 114·2 | 109·9 | 108·0 | 106·4 | 105·3 | 107·0 | 112·5 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 121·0 | 119·8 | 117·6 | 113·4 | 111·1 | 111·0 | 109·0 | 108·6 | 110·1 | 111·0 | 114·2 | 115·5 |
| | 29 | 123·0 | 123·9 | 123·6 | 120·4 | 117·7 | 115·4 | 112·5 | 111·4 | 112·2 | 112·4 | 114·7 | 116·3 |
| | 30 | 119·8 | 121·0 | 121·6 | 118·5 | 114·5 | 111·1 | 111·3 | 111·3 | 111·0 | 113·0 | 114·2 | 116·3 |
| Hourly Means | 120·98 | 121·84 | 122·48 | 121·91 | 118·81 | 114·62 | 110·15 | 107·58 | 107·64 | 108·72 | 111·04 | 114·72 | |

^a Twelve minutes late.

^b Four minutes late.

^c Good Friday.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|--------------------|---------------|
| Sc. Div. 116.5 | Sc. Div. 117.7 | Sc. Div. 117.2 | Sc. Div. 117.6 | Sc. Div. 117.6 | Sc. Div. 117.7 | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — |
| — | — | — | — | — | — | 115.0 | 119.8 | 119.5 | 117.6 | 119.3 | 117.4 | 117.38 |
| 116.8 | 116.6 | 116.3 | 116.6 | 116.4 | 118.0 | 117.3 | 119.2 | 120.3 | 120.0 | 119.4 | 119.2 | 116.96 |
| 116.3 | 117.0 | 117.0 | 117.0 | 117.4 | 119.0 | 117.0 | 117.6 | 118.0 | 118.1 | 118.4 | 118.3 | 117.24 |
| 117.0 | 117.4 | 116.7 | 116.7 | 118.0 | 117.1 | 117.2 | 117.5 | 117.8 | 118.0 | 118.2 | 118.9 | 117.27 |
| 116.2 | 117.0 | 117.4 | 117.3 | 117.1 | 117.2 | 117.2 | 117.5 | 117.8 | 118.0 | 118.2 | 119.2 | 117.63 |
| 116.8 | 117.5 | 117.1 | 117.6 | 117.5 | 117.3 | 117.5 | 118.0 | 118.0 | 118.3 | 120.3 | 120.0 | 116.80 |
| 116.4 | 116.8 | 117.0 | 116.8 | 118.0 | 117.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 120.4 ^a | 122.0 | 121.4 | 121.0 | 120.2 | 116.4 | 117.55 |
| 117.0 | 117.2 | 118.0 | 118.0 | 117.5 | 119.2 | 117.6 | 117.0 | 117.4 | 117.7 | 118.2 | 118.8 | 116.97 |
| 116.0 | 118.2 | 119.2 | 117.6 | 116.4 | 117.0 | 117.4 | 117.0 | 117.2 | 118.0 | 118.5 | 117.1 | 116.98 |
| 116.8 | 117.0 | 117.0 | 118.0 | 117.2 | 117.1 | 117.8 | 117.8 | 118.9 | 117.0 | 122.3 | 121.0 | 118.05 |
| 116.0 | 117.0 | 117.0 | 117.5 | 119.7 | 120.0 | 118.0 | 118.0 | 110.8 ^b | 121.5 | 133.5 | 124.5 | 118.27 |
| 113.8 | 116.8 | 116.1 | 122.8 | 124.8 | 120.6 | 120.0 | 122.4 | 118.0 | 119.2 | 113.4 | 119.9 | 117.79 |
| 116.9 | 117.0 | 116.6 | 118.6 | 118.0 | 120.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 120.4 | 114.9 | 120.2 | 119.4 | 118.8 | 115.8 | 117.32 |
| 120.2 | 121.4 | 118.2 | 116.9 | 116.8 | 117.8 | 117.8 | 118.0 | 118.8 | 117.4 | 119.9 | 118.5 | 117.62 |
| 115.4 | 116.6 | 117.0 | 117.0 | 119.2 | 117.3 | 119.3 | 117.1 | 117.8 | 117.0 | 120.0 | 120.0 | 116.89 |
| 116.5 | 125.2 | 127.8 | 132.4 | 124.4 | 121.1 | 112.8 | 122.0 | 120.2 | 123.0 | 121.0 | 114.9 | 119.12 |
| 116.0 | 115.8 | 116.1 | 130.6 | 127.2 | 117.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 114.0 | 115.9 | 121.4 | 118.0 | 117.54 |
| 117.1 | 117.0 | 117.8 | 117.0 | 116.5 | 115.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 117.0 | 118.9 | 124.1 | 119.0 | 116.8 | 123.0 | 116.93 |
| 115.2 | 124.0 | 117.0 | 115.9 | 125.0 | 123.1 | 121.7 | 118.1 | 120.0 | 118.3 | 119.0 | 119.2 | 117.41 |
| 118.9 | 124.7 | 118.1 | 129.0 | 120.9 | 120.9 | 121.2 | 122.2 | 119.5 | 119.0 | 119.0 | 114.3 | 118.72 |
| 118.0 | 120.0 | 124.2 | 129.2 | 119.0 | 123.0 | 124.2 | 118.4 | 117.0 | 118.4 | 116.6 | 117.5 | 118.18 |
| 114.6 | 117.2 | 121.0 | 119.8 | 118.2 | 117.6 | 119.0 | 116.5 | 117.3 | 117.8 | 117.1 | 117.7 | 115.45 |
| 114.2 | 116.0 | 116.9 | 118.0 | 118.2 | 121.6 | 121.0 | 116.4 | 119.0 | 115.2 | 117.0 | 123.8 | 116.31 |
| 116.0 | 114.9 | 116.3 | 117.3 | 117.7 | 119.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 117.2 | 118.0 | 118.0 | 118.2 | 118.8 | 120.0 | 116.02 |
| 114.8 | 115.2 | 115.2 | 117.0 | 117.2 | 117.2 | 116.2 | 117.0 | 117.6 | 119.0 | 118.4 | 118.8 | 116.56 |
| 116.38 | 118.05 | 117.93 | 119.69 | 119.04 | 118.74 | 118.34 | 118.39 | 118.34 | 118.48 | 119.35 | 118.89 | 117.32 |
| 115.0 | 116.7 | 117.0 | 116.0 | 121.2 | 121.4 | 119.0 | 118.4 | 120.2 | 120.4 | 120.0 | 120.0 | 117.08 |
| 115.0 | 115.2 | 115.8 | 115.8 | 116.0 | 116.9 | 117.8 | 119.0 | 119.3 | 123.4 | 121.5 | 120.2 | 116.99 |
| 116.4 | 116.8 | 117.0 | 116.8 | 118.0 | 120.0 | 123.8 | 119.2 | 119.0 | 118.4 | 118.9 | 118.8 | 117.31 |
| 119.5 | 117.9 | 117.1 | 117.0 | 117.1 | 117.0 | 117.2 | 118.0 | 118.2 | 119.4 | 119.8 | 120.2 | 116.26 |
| 118.0 | 117.0 | 118.2 | 118.0 | 125.0 | 117.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 119.4 | 120.0 | 121.0 | 119.2 | 118.0 | 114.0 ^d | 118.06 |
| 117.0 | 119.0 | 127.0 | 118.0 | 117.2 | 117.0 | 117.4 | 117.0 | 119.2 | 121.6 | 117.1 | 118.2 | 118.41 |
| 116.6 | 117.0 | 118.4 | 117.2 | 117.2 | 117.0 | 117.4 | 119.0 | 118.2 | 118.2 | 118.1 | 119.0 | 116.94 |
| 120.2 | 119.8 | 120.3 | 117.4 | 117.2 | 117.0 | 117.2 | 117.0 | 118.5 | 118.8 | 118.2 | 118.9 | 117.23 |
| 116.1 | 116.8 | 116.9 | 116.7 | 116.9 | 117.0 | 117.2 | 117.5 | 118.0 | 118.2 | 118.7 | 119.4 | 117.20 |
| 117.2 | 117.6 | 117.3 | 117.3 | 117.0 | 117.2 | 117.8 | 118.0 | 118.0 | 119.2 | 119.8 | 120.0 | 117.37 |
| 116.2 | 120.8 | 120.0 | 119.0 | 117.6 | 118.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 115.6 | 117.5 | 118.4 | 114.2 | 120.8 | 123.7 ^d | 117.55 |
| 120.0 | 119.4 | 119.0 | 117.2 | 116.3 | 120.0 | 111.4 | 119.9 | 116.6 | 116.1 | 118.8 | 119.6 | 116.07 |
| 116.3 | 117.2 | 118.4 | 117.1 | 118.0 | 118.8 | 120.0 | 117.9 | 114.1 | 118.7 | 118.4 | 118.8 | 115.81 |
| 116.0 | 117.3 | 119.8 | 117.5 | 116.7 | 116.9 | 116.6 | 115.0 | 114.6 | 117.2 | 118.0 | 119.2 | 115.48 |
| 115.8 | 116.7 | 117.8 | 118.0 | 117.0 | 117.0 | 116.2 | 117.0 | 117.5 | 118.0 | 119.0 | 120.9 | 116.37 |
| 114.1 | 115.6 | 122.7 | 116.2 | 124.0 | 123.7 | 120.0 | 118.7 | 119.4 | 119.8 | 121.8 | 121.0 | 116.00 |
| 110.0 | 113.0 | 113.8 | 116.2 | 115.5 | 115.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 115.3 | 119.8 | 111.1 | 114.0 | 118.0 | 119.0 | 114.85 |
| 119.8 | 119.0 | 115.6 | 115.0 | 117.0 | 117.7 | 117.8 | 116.2 | 114.2 | 116.2 | 116.7 | 117.4 | 115.82 |
| 117.1 | 116.1 | 115.7 | 115.9 | 117.2 | 122.0 | 117.1 | 116.8 | 117.0 | 115.8 | 119.0 | 117.2 | 115.38 |
| 116.0 | 117.1 | 116.2 | 117.0 | 119.0 | 117.3 | 117.4 | 120.6 | 116.2 | 119.0 | 119.2 | 121.0 | 115.77 |
| 114.2 | 116.2 | 115.0 | 115.2 | 115.7 | 118.4 | 119.2 | 121.8 | 135.7 | 123.4 | 118.4 | 121.0 | 117.14 |
| 116.2 | 115.0 | 115.0 | 119.0 | 116.8 | 118.6 | 116.4 | 112.9 | 116.0 | 116.0 | 118.0 | 117.4 | 113.54 |
| 114.0 | 114.5 | 115.6 | 120.8 | 116.7 | 115.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 118.0 | 114.9 | 116.0 | 117.7 | 117.6 | 118.0 | 115.54 |
| 116.7 | 119.2 | 116.8 | 115.8 | 114.4 | 115.0 | 115.0 | 118.0 | 117.2 | 114.8 | 113.7 | 120.0 | 114.97 |
| 116.4 | 115.7 | 115.1 | 115.7 | 115.8 | 115.8 | 116.3 | 116.2 | 116.4 | 117.0 | 118.0 | 119.6 | 116.73 |
| 117.2 | 109.3 | 111.2 | 126.0 | 140.0 | 121.2 | 126.4 | 117.1 | 116.1 | 119.4 | 115.8 | 119.5 | 117.62 |
| 116.42 | 116.77 | 117.41 | 117.38 | 118.48 | 118.04 | 117.80 | 117.82 | 117.93 | 118.23 | 118.51 | 119.31 | 116.44 |

^d Three minutes late.

^e Two minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|--------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | 1 | 122.8 | 122.8 | 122.0 | 119.3 | 114.0 | 114.0 | 112.9 | 112.8 | 114.2 | 115.8 | 117.7 | 118.0 |
| | 2 | 121.2 | 121.3 | 122.0 | 119.9 | 115.2 | 109.9 | 107.0 | 106.6 | 109.0 | 111.0 | 113.2 | 115.6 |
| | 3 | 123.0 | 123.2 | 122.0 | 117.5 | 112.1 | 106.0 | 105.1 | 104.8 | 106.1 | 109.4 | 112.4 | 115.0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 121.2 | 122.0 | 122.0 | 118.6 | 114.2 | 108.2 | 106.5 | 105.6 | 106.0 | 109.1 | 113.2 | 115.6 |
| | 6 | 121.8 | 123.0 | 122.6 | 118.7 | 112.0 | 112.1 | 105.4 | 104.1 | 105.9 | 109.6 | 114.0 | 117.2 |
| | 7 | 127.7 | 129.1 | 128.6 | 123.9 | 118.5 | 107.1 | 106.2 | 105.0 | 108.2 | 111.7 | 115.0 | 117.0 |
| | 8 | 122.8 | 125.1 | 125.9 | 122.5 | 117.0 | 112.8 | 110.3 | 112.0 | 108.0 | 108.2 | 112.0 | 114.8 |
| | 9 | 124.0 | 126.3 | 127.0 | 121.0 | 116.7 | 110.7 | 107.4 | 104.8 | 104.6 | 108.5 | 112.1 | 114.5 |
| | 10 | 122.0 | 123.0 | 122.4 | 121.0 | 116.8 | 110.2 | 107.2 | 106.8 | 106.8 | 109.0 | 111.0 | 112.4 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 123.6 | 121.8 | 122.6 | 119.2 | 113.0 | 111.9 | 111.8 | 109.5 | 109.9 | 110.2 | 112.4 | 114.5 |
| | 13 | 122.8 | 122.9 | 124.9 | 119.0 | 115.7 | 111.1 | 109.5 | 109.1 | 110.0 | 110.8 | 112.0 | 116.2 |
| | 14 | 123.5 | 126.0 | 126.9 | 125.8 | 116.8 | 108.9 | 105.0 | 106.0 | 109.0 | 111.6 | 111.7 | 114.8 |
| | 15 | 125.0 | 124.0 | 118.4 | 118.8 | 112.9 | 109.3 | 106.5 | 105.6 | 106.9 | 110.0 | 113.8 | 114.0 |
| | 16 | 125.2 | 124.0 | 128.8 | 122.5 | 116.1 | 119.0 | 102.5 | 107.5 | 112.0 | 113.4 | 115.8 | 117.8 |
| | 17 | 121.4 | 122.2 | 122.7 | 121.3 ^c | 118.7 | 110.0 | 107.0 | 105.8 | 107.0 | 108.3 | 109.5 | 111.0 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 117.7 | 119.9 | 118.8 | 122.2 | 118.8 | 113.8 | 111.0 | 111.2 | 111.8 | 113.0 | 115.2 | 117.5 |
| | 20 | 123.9 | 125.7 | 126.1 | 123.0 | 114.8 | 109.0 | 109.6 | 110.6 | 111.2 | 113.4 | 115.8 | 118.2 |
| | 21 | 123.0 | 123.0 | 123.3 | 119.8 | 112.0 | 107.6 | 105.2 | 104.7 | 108.2 | 111.0 | 113.7 | 116.0 |
| | 22 | 122.0 | 124.3 | 123.0 | 123.2 | 118.8 | 109.2 | 100.0 | 99.1 | 102.0 | 105.3 | 109.1 | 115.2 |
| | 23 | 123.2 | 124.7 | 125.7 | 123.3 | 118.1 | 112.3 | 108.2 | 106.7 | 108.2 | 110.9 | 114.2 | 117.0 |
| | 24 | 125.3 | 127.0 | 126.0 | 121.2 | 114.1 | 109.9 | 105.1 | 105.1 | 107.3 | 110.4 | 112.0 | 115.2 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 119.4 | 123.3 | 125.0 | 123.7 | 120.0 | 114.0 | 110.4 | 110.0 | 105.2 | 107.2 | 111.2 | 114.2 |
| | 27 | 122.3 | 126.0 | 125.2 | 124.0 | 120.4 | 114.6 | 109.0 | 106.4 | 106.8 | 110.3 | 112.4 | 114.8 |
| | 28 | 121.0 | 123.0 | 125.0 | 121.6 | 115.4 | 108.3 | 104.8 | 105.7 | 106.2 | 107.0 | 110.2 | 114.1 |
| | 29 | 122.2 | 124.5 | 122.9 | 119.0 | 116.1 | 114.0 | 111.0 | 111.0 | 112.7 | 113.7 | 114.2 | 115.2 |
| | 30 | 126.9 | 126.9 | 125.0 | 117.2 | 111.4 | 104.8 | 104.1 | 105.7 | 106.1 | 107.3 | 114.0 | 114.0 |
| | 31 | 124.0 | 131.0 | 134.0 | 124.8 | 116.0 | 109.8 | 107.4 | 107.7 | 110.2 | 113.6 | 117.0 | 121.4 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 122.92 | 124.30 | 124.40 | 121.19 | 115.76 | 110.69 | 107.26 | 107.03 | 108.13 | 110.36 | 113.14 | 115.59 | |
| JUNE. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 123.8 | 124.8 | 124.2 | 122.0 | 117.2 | 111.0 | 108.8 | 110.2 | 111.1 | 112.7 | 113.8 | 116.0 |
| | 3 | 122.3 | 124.0 | 124.1 | 122.1 | 118.7 | 112.2 | 108.4 | 107.8 | 106.9 | 109.0 | 112.9 | 115.2 |
| | 4 | 129.5 | 132.0 | 126.4 | 122.0 ^a | 109.2 | 105.0 | 104.2 | 102.7 | 105.7 | 108.0 | 111.9 | 115.0 |
| | 5 | 124.7 | 125.2 | 127.4 | 124.9 | 119.1 | 115.8 | 110.9 | 107.0 | 105.3 | 106.3 | 108.6 | 111.8 |
| | 6 | 123.8 | 126.0 | 125.0 | 123.8 | 117.0 | 107.8 ^b | 104.2 | 104.2 | 103.0 | 103.0 | 104.2 | 110.3 |
| | 7 | 125.0 | 127.0 | 127.2 | 124.6 | 121.0 | 116.0 | 109.0 | 104.8 | 103.6 | 104.8 | 107.6 | 110.4 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 124.8 | 127.2 | 129.0 | 125.2 | 118.2 | 112.8 | 109.2 | 106.9 | 104.0 | 105.0 | 107.0 | 111.0 |
| | 10 | 122.8 | 124.4 | 126.2 | 123.0 | 116.6 | 112.9 | 109.0 | 109.4 | 109.0 | 107.8 | 110.0 | 112.0 |
| | 11 | 125.6 | 127.0 | 127.9 | 124.2 ^a | 121.0 | 117.2 | 113.2 | 110.0 | 109.0 | 109.0 | 111.0 | 113.6 |
| | 12 | 120.7 | 122.2 | 123.2 | 122.0 | 119.8 | 111.3 | 107.7 | 103.2 | 102.0 | 105.0 | 109.2 | 113.8 |
| | 13 | 121.3 | 122.0 | 121.2 | 118.3 | 116.0 | 110.4 | 109.4 | 108.4 | 108.0 | 109.3 | 112.0 | 113.4 |
| | 14 | 122.0 | 124.2 | 123.2 | 120.8 | 117.8 | 111.8 | 108.1 | 107.9 | 107.8 | 109.4 | 111.2 | 112.4 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 124.2 | 124.0 | 122.6 | 120.5 | 115.7 | 112.5 | 108.4 | 108.5 | 109.2 | 110.8 | 113.7 | 116.8 |
| | 17 | 123.0 | 122.5 | 121.8 | 119.0 | 113.0 | 105.8 | 102.1 | 106.4 | 108.0 | 110.2 | 112.0 | 114.0 |
| | 18 | 121.2 | 123.0 | 121.0 | 118.0 | 113.0 | 109.2 | 107.0 | 104.7 | 104.2 | 107.0 | 109.8 | 112.8 |
| | 19 | 124.7 | 125.4 | 125.4 | 122.0 | 118.8 | 112.5 | 108.9 | 108.2 | 108.5 | 110.0 | 113.0 | 114.8 |
| | 20 | 123.6 | 123.0 | 122.0 | 121.5 | 116.2 | 109.4 | 103.8 | 101.8 | 103.9 | 108.0 | 110.0 | 113.9 |
| | 21 | 123.2 | 126.4 | 123.9 | 122.2 | 119.0 | 113.0 | 111.3 | 107.0 | 107.7 | 107.8 | 108.2 | 110.8 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 123.2 | 123.6 | 125.0 | 124.6 | 123.0 | 121.1 | 117.8 | 109.5 | 108.8 | 109.2 | 111.1 | 115.2 |
| | 24 | 120.4 | 122.2 | 120.9 | 121.8 | 120.4 | 117.0 | 112.3 | 111.0 | 114.0 | 110.8 | 111.7 | 114.0 |
| | 25 | 121.0 | 125.0 | 124.8 | 121.4 | 119.6 | 116.8 | 112.0 | 109.4 | 108.0 | 109.6 | 111.3 | 114.2 |
| | 26 | 122.6 | 122.4 | 124.4 | 122.2 | 115.7 | 112.0 | 105.8 | 103.3 | 104.0 | 106.6 | 110.8 | 114.7 |
| | 27 | 121.8 | 123.2 | 124.4 | 123.8 | 120.9 | 115.8 | 111.2 | 110.0 | 109.9 | 110.6 | 112.0 | 113.6 |
| | 28 | 115.6 | 121.8 | 123.4 | 119.9 | 116.5 | 109.7 | 108.3 | 107.5 | 110.0 | 113.3 | 114.4 | 115.4 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 125.7 | 125.8 | 124.9 | 123.0 | 120.6 | 114.7 | 112.0 | 108.4 | 108.7 | 107.7 | 113.7 | 117.0 |
| Hourly Means | 123.06 | 124.57 | 124.38 | 122.11 | 117.76 | 112.55 | 108.92 | 107.13 | 107.21 | 108.44 | 110.84 | 113.65 | |

^a Three minutes late.

^b Six minutes late.

^c Five minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 117.0 | 116.4 | 115.0 | 115.2 | 115.0 | 115.6 | 115.6 | 115.7 | 115.1 | 116.0 | 116.8 | 118.7 | 116.60 |
| 116.2 | 116.0 | 116.0 | 115.8 | 116.0 | 116.0 | 116.0 | 116.8 | 117.4 | 118.1 | 118.9 | 119.4 | 115.60 |
| 116.0 | 115.3 | 114.4 | 112.5 | 113.9 | 116.2 | — | — | — | — | — | — | 114.58 |
| — | — | — | — | — | — | 116.4 | 117.9 | 118.0 | 116.0 | 116.9 | 119.8 | 115.05 |
| 116.0 | 116.0 | 115.6 | 115.9 | 116.0 | 116.0 | 116.4 ⁿ | 116.2 | 117.0 | 117.0 | 118.2 | 118.8 | 115.68 |
| 117.7 | 117.2 | 115.7 | 115.2 | 116.0 | 116.6 | 119.6 | 116.9 | 117.0 | 115.6 | 120.2 | 122.2 | 117.01 |
| 118.2 | 117.0 | 116.2 | 115.9 | 116.0 | 116.4 | 116.8 | 118.2 | 118.5 | 118.1 | 119.0 | 120.0 | 116.41 |
| 116.0 | 115.8 | 116.5 | 115.7 | 115.9 | 119.8 | 120.0 | 117.0 | 117.0 | 111.0 | 118.3 | 119.5 | 115.91 |
| 116.0 | 116.2 | 117.0 | 116.7 | 115.3 | 116.3 | 116.8 | 117.0 | 116.0 | 118.0 | 119.0 | 120.0 | 116.06 |
| 114.1 | 115.2 | 116.0 | 115.8 | 115.3 | 116.0 | — | — | — | — | — | — | 115.84 |
| — | — | — | — | — | — | 118.0 ^b | 123.2 | 121.6 | 120.4 | 120.6 | 120.6 | 116.18 |
| 115.5 | 115.0 | 115.3 | 115.2 | 115.2 | 116.0 | 116.0 | 116.6 | 117.4 | 117.8 | 118.9 | 120.8 | 117.26 |
| 111.4 | 113.4 | 118.0 | 115.0 | 121.0 | 116.7 | 114.5 | 116.0 | 117.7 | 117.9 | 119.3 | 123.3 | 115.02 |
| 116.0 | 123.8 | 116.8 | 114.7 ^a | 113.0 | 114.2 | 115.8 | 125.0 | 122.0 | 124.0 | 120.9 | 122.0 | 117.12 |
| 115.2 | 116.0 | 115.4 | 115.1 | 116.2 | 114.5 | 113.1 | 116.0 | 119.0 | 120.2 | 118.9 | 115.8 | 114.40 |
| 118.3 | 117.4 | 116.8 | 116.0 | 116.0 | 116.0 | 116.8 | 116.2 | 116.4 | 118.2 | 118.0 | 120.2 | 116.35 |
| 110.6 | 111.6 | 114.0 | 110.0 | 118.0 | 118.6 | — | — | — | — | — | — | 117.25 |
| — | — | — | — | — | — | 115.4 | 115.8 | 116.4 | 114.8 | 116.4 | 119.0 | 114.94 |
| 119.6 | 117.2 | 116.0 | 116.8 | 118.4 | 116.0 | 116.0 | 115.4 | 114.0 | 113.2 | 117.3 | 121.7 | 114.85 |
| 119.8 | 117.5 | 120.9 | 117.3 | 116.0 | 117.3 | 114.9 | 117.2 | 116.3 | 117.1 | 118.6 | 119.8 | 116.58 |
| 116.7 | 115.2 | 115.1 | 115.2 | 112.2 | 109.8 | 117.4 | 117.0 | 114.2 | 119.5 | 119.8 | 119.0 | 116.01 |
| 115.9 | 115.3 | 116.0 | 116.0 | 120.5 | 121.1 | 113.0 | 115.2 | 116.6 | 117.2 | 118.0 | 120.4 | 115.88 |
| 119.3 | 117.6 | 116.0 | 114.8 | 114.4 | 114.0 | 116.2 | 115.2 | 113.0 | 121.4 | 121.8 | 121.8 | 116.11 |
| 116.0 | 116.2 | 121.0 | 120.4 | 115.1 | 119.4 | — | — | — | — | — | — | 114.75 |
| — | — | — | — | — | — | 116.0 | 116.0 | 116.3 | 116.0 | 116.0 | 117.2 | 116.98 |
| 117.2 | 117.8 | 117.1 | 116.2 | 115.9 | 115.6 | 115.7 | 115.8 | 115.2 | 115.9 | 116.2 | 119.0 | 115.34 |
| 115.8 | 115.8 | 116.0 | 115.6 | 115.6 | 115.9 | 115.2 | — | — | — | 117.0 | 119.2 | 118.25 |
| 115.8 | 116.0 | 115.2 | 115.0 | 114.8 | 115.0 | 115.8 | 116.2 | 116.0 | 116.2 | 116.0 | 119.8 | 118.00 |
| 114.2 | 117.2 | 117.2 | 117.8 | 113.4 | 115.2 | 115.0 | 116.8 | 118.0 | 119.6 | 121.0 | 125.6 | 118.25 |
| 113.0 | 115.7 | 110.8 | 115.2 | 113.4 | 126.4 | 116.3 | 118.6 | 97.6 | 122.0 | 128.8 | 127.0 | 116.00 |
| 123.2 | 119.0 | 118.8 | 120.0 | 121.0 | 120.0 | — | — | — | — | — | — | 117.00 |
| — | — | — | — | — | — | 117.0 | 118.0 | 113.0 | 116.6 | 116.5 | 118.0 | 116.00 |
| 116.32 | 116.40 | 116.25 | 115.74 | 115.91 | 116.69 | 116.14 | 117.15 | 116.03 | 117.61 | 118.79 | 120.32 | 116.00 |
| — | — | — | — | — | — | — | — | — | — | — | — | 116.39 |
| 118.1 | 118.4 | 116.1 | 116.1 | 116.4 | 117.0 | 116.0 | 115.0 | 115.0 | 114.6 | 115.7 | 119.3 | 116.55 |
| 111.0 | 116.3 | 115.7 | 115.0 | 115.0 | 120.0 | 116.7 | 118.2 | 117.0 | 117.2 | 119.8 | 125.8 | 115.46 |
| 117.0 | 120.0 | 118.2 | 120.6 | 119.0 | 115.8 | 114.0 | 115.4 | 116.2 | 112.2 | 108.1 | 122.9 | 115.90 |
| 115.0 | 115.7 | 116.0 | 115.0 | 113.8 | 117.1 | 115.2 | 115.9 | 115.0 | 116.3 | 118.7 | 121.0 | 114.14 |
| 112.5 | 112.8 | 113.6 | 114.6 | 114.4 | 114.7 | 115.0 | 116.3 | 116.7 | 117.3 | 118.0 | 121.2 | 115.97 |
| 113.0 | 114.3 | 114.0 | 115.4 | 116.2 | 114.0 | — | — | — | — | — | — | 115.35 |
| — | — | — | — | — | — | 118.5 | 120.0 | 120.0 | 118.2 | 117.8 | 121.0 | 115.97 |
| 113.2 | 113.0 | 112.8 | 114.0 | 114.0 | 116.8 | 116.2 | 115.8 | 116.8 | 117.0 | 117.0 | 121.4 | 116.69 |
| 112.6 | 114.1 | 113.6 | 114.2 | 114.5 | 114.0 | 120.3 | 120.1 | 117.4 | 114.6 | 123.7 | 121.0 | 114.67 |
| 115.0 | 115.4 | 116.2 | 119.0 | 114.3 | 114.6 | 114.4 | 115.0 | 116.0 | 117.0 | 116.9 | 118.0 | 114.74 |
| 115.0 | 115.4 | 117.4 | 116.2 | 115.0 | 114.3 | 114.4 | 115.7 | 115.6 | 116.1 | 117.0 | 120.0 | 115.30 |
| 114.8 | 115.0 | 114.7 | 113.8 | 114.0 | 114.6 | 114.8 | 115.2 | 115.8 | 115.8 | 116.8 | 118.8 | 115.55 |
| 114.6 | 116.0 | 114.6 | 115.0 | 114.8 | 115.8 | — | — | — | — | — | — | 114.54 |
| — | — | — | — | — | — | 116.1 | 115.8 | 117.2 | 116.8 | 117.0 | 117.0 | 114.37 |
| 118.0 | 116.0 | 116.3 | 113.6 | 113.4 | 113.0 | 113.2 | 116.2 | 114.8 | 114.0 | 117.2 | 120.6 | 116.40 |
| 114.6 | 116.4 | 114.5 | 114.2 | 113.7 | 116.0 | 114.4 | 115.2 | 116.0 | 117.0 | 119.0 | 120.2 | 114.70 |
| 114.4 | 115.4 | 115.0 | 114.8 | 114.2 | 115.0 | 115.1 | 115.3 | 114.9 | 117.0 | 119.0 | 123.0 | 115.16 |
| 115.0 | 115.3 | 114.1 | 118.0 | 114.9 | 119.4 | 116.0 | 108.8 | 119.0 | 117.0 | 120.7 | 123.2 | 117.34 |
| 114.0 | 115.0 | 113.9 | 116.5 | 113.8 | 116.4 | 115.4 | 116.2 | 118.0 | 118.8 | 118.7 | 118.9 | 115.83 |
| 113.0 | 115.3 | 115.0 | 115.0 | 115.0 | 114.7 | — | — | — | — | — | — | 115.60 |
| — | — | — | — | — | — | 114.2 | 114.0 | 115.4 | 114.0 | 116.8 | 120.9 | 114.30 |
| 117.0 | 117.0 | 116.0 | 115.7 | 119.0 | 120.2 | 117.4 | 114.4 | 114.0 | 115.8 | 118.6 | 119.0 | 116.12 |
| 116.4 | 115.8 | 115.4 | 114.8 | 114.0 | 114.2 | 114.2 | 115.0 | 113.2 | 116.1 | 116.7 | 117.7 | 116.42 |
| 117.0 | 116.0 | 115.0 ^a | 114.2 | 114.2 | 113.3 | 113.3 | 114.2 | 114.3 | 114.7 | 116.0 | 119.2 | 118.41 |
| 115.7 | 115.0 | 114.5 | 114.0 | 114.1 | 114.0 | 114.2 | 115.2 | 115.0 | 114.4 | 112.2 | 120.4 | 115.67 |
| 114.2 | 115.0 | 113.2 | 112.0 | 115.4 | 115.8 | 116.0 | 117.4 | 120.4 | 117.5 | 116.4 | 116.5 | 116.42 |
| 115.0 | 110.0 | 116.0 ^c | 127.7 | 119.2 | 117.0 | — | — | — | — | — | — | 118.41 |
| — | — | — | — | — | — | 113.2 | 121.0 | 118.8 | 115.6 | 122.1 | 122.6 | 115.67 |
| 120.0 | 118.2 | 123.8 | 126.8 | 127.0 | 119.1 | 121.4 | 120.6 | 117.0 | 110.8 | 116.0 | 119.0 | 115.67 |
| 115.28 | 115.47 | 115.42 | 116.25 | 115.57 | 115.87 | 115.62 | 116.07 | 116.38 | 115.83 | 117.44 | 120.34 | 115.67 |

| DECLINATION. | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|-------------------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| JULY. | 1 | 122.0 | 124.0 | 122.8 | 123.8 | 120.0 | 114.6 | 112.6 | 111.4 | 110.2 | 110.4 | 110.4 |
| | 2 | 121.0 | 125.0 | 125.0 | 123.8 | 121.6 | 117.8 | 108.2 | 106.0 | 105.0 | 105.3 | 107.8 |
| | 3 | 121.8 | 122.8 | 123.2 | 121.0 | 118.5 | 113.1 | 111.1 | 108.0 | 106.0 | 106.1 | 107.5 |
| | 4 | 121.1 | 123.7 | 127.0 | 126.2 | 124.8 | 118.7 | 113.0 | 107.0 | 103.0 | 102.0 | 106.0 |
| | 5 | 123.8 | 124.1 | 122.5 | 120.7 | 115.7 | 109.1 | 105.7 | 103.8 | 104.0 | 106.0 | 107.6 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 122.6 | 127.0 | 127.0 | 124.0 | 119.0 | 109.2 | 103.2 | 97.4 | 97.6 | 101.7 | 107.3 |
| | 8 | 124.0 | 127.4 | 129.0 | 126.4 | 121.5 | 111.6 | 106.0 | 106.2 | 102.3 | 104.1 | 106.8 |
| | 9 | 121.8 | 123.7 | 122.5 | 120.0 | 116.0 | 110.8 | 108.1 | 104.9 | 106.7 | 107.7 | 108.8 |
| | 10 | 116.8 | 124.0 | 125.0 | 127.0 | 124.1 | 119.6 | 117.0 | 113.4 | 112.1 | 111.7 | 112.2 |
| | 11 | 121.9 | 123.9 | 125.9 | 124.0 | 119.8 | 115.0 | 109.2 | 107.4 | 108.0 | 111.1 | 110.3 |
| | 12 | 123.2 | 124.8 | 124.8 | 121.0 | 121.0 | 115.2 | 114.0 | 111.4 | 108.2 | 108.4 | 109.2 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 121.7 | 125.0 | 126.0 | 124.6 | 121.0 | 115.8 | 113.0 | 106.6 | 105.1 | 104.3 | 106.7 |
| | 15 | 119.4 | 123.6 | 124.0 | 123.0 | 115.7 | 113.8 | 110.6 | 108.0 | 109.6 | 108.2 | 109.0 |
| | 16 | 123.0 | 125.0 | 125.4 | 123.7 | 119.0 | 111.8 | 105.2 | 104.2 | 104.5 | 106.3 | 109.7 |
| | 17 | 123.9 | 127.3 | 129.4 | 124.0 | 117.1 | 111.0 | 106.4 | 104.7 | 102.8 | 106.4 | 109.0 |
| | 18 | 123.4 | 126.1 | 126.0 | 125.0 | 120.0 | 111.8 | 105.8 | 104.1 | 106.2 | 104.4 | 108.4 |
| | 19 | 124.4 | 124.6 | 127.0 | 123.8 | 116.0 | 108.4 | 102.6 | 100.6 | 102.2 | 106.8 | 110.0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 121.8 | 120.9 | 123.4 | 124.0 | 123.0 | 116.0 | 109.0 | 105.3 | 106.2 | 106.8 | 108.2 |
| | 22 | 120.0 | 121.0 | 120.4 | 119.9 | 116.0 | 112.0 | 108.6 | 105.0 | 103.2 | 104.0 | 105.6 |
| | 23 | 122.9 | 126.2 | 126.2 | 126.1 | 117.2 | 111.0 | 105.7 | 103.0 | 102.4 | 105.4 | 108.6 |
| | 24 | 119.0 | 120.4 | 120.4 | 122.0 | 117.0 | 109.7 | 108.0 | 106.1 | 106.7 | 109.4 | 115.0 |
| | 25 | 120.0 | 120.0 | 124.2 | 121.2 | 117.7 | 115.0 | 111.1 | 105.0 | 107.7 | 111.2 | 114.0 |
| | 26 | 119.8 | 122.8 | 120.6 | 122.3 | 120.0 | 116.2 | 111.4 | 107.7 | 108.0 | 108.0 | 108.8 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 118.2 | 120.0 | 119.9 | 118.8 | 113.0 | 111.0 | 109.8 | 109.1 | 106.2 | 109.3 | 110.5 |
| | 29 | 118.8 | 121.0 | 120.9 | 118.3 | 115.5 | 110.7 | 108.7 | 108.0 | 107.8 | 110.0 | 110.2 |
| | 30 | 122.3 | 123.7 | 127.4 | 126.0 | 117.2 | 110.0 | 106.2 | 100.0 | 101.2 | 105.4 | 107.5 |
| | 31 | 120.2 | 121.8 | 121.2 | 119.0 | 116.2 | 114.0 | 110.9 | 108.4 | 108.8 | 109.6 | 110.5 |
| Hourly Means | 121.44 | 123.70 | 124.34 | 122.95 | 118.65 | 113.07 | 108.93 | 106.03 | 105.62 | 107.04 | 109.10 | |
| AUGUST. | 1 | 126.2 | 129.4 | 132.8 | 119.2 | 116.8 | 98.4 | 100.3 | 100.0 | 103.0 | 107.8 | |
| | 2 | 125.2 | 126.8 | 124.3 | 117.9 | 114.0 | 111.4 | 107.9 | 105.0 | 106.7 | 107.5 ^b | |
| | 3 | — | — | — | — | — | — | — | — | — | — | |
| | 4 | 103.0 | 118.0 | 119.2 | 119.2 | 109.2 | 111.0 | 107.3 | 108.8 | 108.0 | 109.0 | |
| | 5 | 118.7 | 126.3 | 124.5 | 120.4 | 114.2 | 105.8 | 104.7 | 105.8 | 107.8 | 109.0 | |
| | 6 | 120.0 | 124.8 | 122.8 | 118.7 | 113.0 | 108.2 | 106.9 | 105.3 | 107.3 | 108.9 | |
| | 7 | 125.2 | 125.4 | 124.4 | 120.4 | 117.0 | 109.6 | 106.1 | 106.2 | 106.9 | 109.0 | |
| | 8 | 123.2 | 123.9 | 125.1 | 122.0 | 117.8 | 114.2 | 109.3 | 107.9 | 108.6 ^b | 109.0 | |
| | 9 | 121.0 | 127.2 | 125.7 | 120.3 | 115.1 | 110.9 | 103.3 | 101.0 | 102.0 | 105.2 | |
| | 10 | — | — | — | — | — | — | — | — | — | — | |
| | 11 | 121.0 | 124.0 | 124.2 | 121.0 | 117.0 | 110.0 | 105.2 | 102.8 | 103.0 | 106.2 | |
| | 12 | 120.0 | 121.8 | 122.0 | 118.2 | 111.0 | 105.0 | 101.5 | 101.4 | 104.8 | 108.2 | |
| | 13 | 123.2 | 125.4 | 125.8 | 121.9 | 114.0 | 106.7 | 102.9 | 101.8 | 102.8 | 105.8 | |
| | 14 | 120.4 | 123.7 | 123.0 | 119.6 | 115.0 | 109.9 | 104.9 | 102.0 | 103.8 | 106.6 | |
| | 15 | 129.0 | 128.0 | 133.8 | 112.0 | 104.9 | 106.1 | 103.7 | 106.0 | 106.2 | 111.0 | |
| | 16 | 122.6 | 124.0 | 124.0 | 119.8 | 113.0 | 106.4 | 103.0 | 103.0 | 102.6 | 106.2 | |
| | 17 | — | — | — | — | — | — | — | — | — | — | |
| | 18 | 122.0 | 115.4 | 119.0 | 122.4 | 118.2 | 109.8 | 107.3 | 105.0 | 107.0 | 110.4 | |
| | 19 | 121.8 | 126.6 | 127.0 | 123.4 | 115.0 | 110.5 | 104.4 | 102.7 | 102.2 | 104.7 | |
| | 20 | 120.5 | 123.5 | 124.2 | 122.9 | 117.7 | 110.7 | 104.9 | 102.3 | 103.8 | 108.2 | |
| | 21 | 120.0 | 122.2 | 123.2 | 121.8 | 116.9 | 111.2 | 106.0 | 103.8 | 104.0 | 106.0 | |
| | 22 | 121.4 | 125.9 | 127.0 | 123.8 | 116.0 | 109.0 | 104.0 | 102.8 | 103.2 | 106.8 | |
| | 23 | 118.2 | 120.4 | 122.0 | 121.4 | 116.2 | 110.0 | 107.8 | 103.4 | 104.8 | 108.0 | |
| | 24 | — | — | — | — | — | — | — | — | — | — | |
| | 25 | 115.6 | 119.8 | 121.8 | 119.0 | 112.4 | 108.4 | 104.8 | 104.2 | 107.0 | 109.2 | |
| | 26 | 121.9 | 123.2 | 124.8 | 126.0 | 117.6 | 103.9 | 100.9 | 101.2 | 108.0 | 109.8 | |
| | 27 | 120.2 | 121.8 | 122.2 | 119.4 | 115.0 | 110.2 | 106.8 | 105.5 | 105.9 | 108.0 | |
| | 28 | 119.8 | 122.5 | 122.0 | 119.2 | 115.6 | 111.3 | 107.4 | 106.0 | 106.0 | 107.7 | |
| | 29 | 121.0 | 118.2 | 128.0 | 124.0 | 114.6 | 109.8 | 108.0 | 105.0 | 105.3 | 106.5 | |
| | 30 | 126.6 | 122.0 | 120.6 | 115.0 | 108.2 | 107.8 | 102.2 | 99.6 | 103.2 | 107.2 | |
| | 31 | — | — | — | — | — | — | — | — | — | — | |
| Hourly Means | 121.07 | 123.47 | 124.36 | 120.34 | 114.44 | 108.70 | 105.06 | 103.79 | 105.15 | 107.77 | | |

^a Seven minutes late.

^b Two minutes late.

DECLINATION.

Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 112.2 | Sc. Div. 112.5 ^a | Sc. Div. 113.8 | Sc. Div. 115.8 | Sc. Div. 121.3 | Sc. Div. 119.8 | Sc. Div. 115.0 | Sc. Div. 116.4 | Sc. Div. 119.0 | Sc. Div. 116.4 | Sc. Div. 118.5 | Sc. Div. 112.8 | Sc. Div. 116.11 |
| 113.9 | 114.3 | 115.0 | 114.0 | 115.0 | 115.3 | 119.0 | 124.0 | 116.2 | 113.0 | 115.4 | 118.4 | 115.42 |
| 113.0 | 115.2 | 114.0 | 113.7 | 115.5 | 115.0 | 114.7 | 114.4 | 114.5 | 115.7 | 115.6 | 119.8 | 114.58 |
| 112.6 | 115.2 | 114.0 | 114.2 | 114.7 | 119.2 | 116.6 | 114.8 | 113.1 | 114.8 | 117.0 | 119.6 | 115.35 |
| 115.2 | 115.9 | 115.6 | 118.4 | 122.8 | 120.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 114.2 | 113.0 | 113.4 | 114.0 | 105.9 | 124.8 | 114.02 |
| 115.5 | 128.1 | 113.4 | 114.0 | 112.9 | 113.2 | 113.8 | 114.8 | 115.9 | 111.6 | 116.0 | 118.7 | 114.00 |
| 115.0 | 116.0 | 115.0 | 113.9 | 116.2 | 121.5 | 120.0 | 121.0 | 116.2 | 117.0 | 118.0 | 119.0 | 116.09 |
| 114.9 | 115.5 | 115.0 | 118.0 | 121.2 | 114.2 | 114.0 | 113.8 | 114.2 | 115.8 | 115.4 | 116.2 | 115.62 |
| 114.4 | 115.2 | 114.7 | 115.2 | 121.4 | 120.2 | 117.1 | 116.4 | 115.0 | 114.2 | 116.2 | 118.9 | 117.30 |
| 114.8 | 116.0 | 114.2 | 114.0 | 114.4 | 116.5 | 125.2 | 118.1 | 119.0 | 119.2 | 118.6 | 121.0 | 116.70 |
| 113.8 | 114.7 | 114.0 | 114.3 | 115.0 | 118.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 114.3 | 115.0 | 115.0 | 115.5 | 116.0 | 117.6 | 115.68 |
| 112.4 | 114.8 | 113.9 | 113.6 | 114.2 | 113.9 | 115.3 | 117.0 | 115.7 | 115.4 | 116.2 | 116.8 | 114.96 |
| 113.1 | 114.5 | 114.0 | 114.8 | 114.8 | 113.7 | 114.0 | 114.6 | 115.2 | 113.3 | 114.5 | 120.5 | 114.75 |
| 116.0 | 114.4 | 115.8 | 113.4 | 113.6 | 114.0 | 113.8 | 114.8 | 115.0 | 114.7 | 116.7 | 118.8 | 114.66 |
| 115.0 | 113.8 | 113.0 | 112.2 | 113.2 | 113.1 | 115.2 | 115.8 | 115.9 | 116.8 | 117.2 | 119.1 | 114.80 |
| 115.0 | 117.0 | 116.4 | 114.4 | 115.0 | 114.2 | 114.8 | 116.2 | 115.5 | 121.0 | 118.6 | 123.0 | 115.62 |
| 115.9 | 116.8 | 116.2 | 117.4 | 123.8 | 119.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 115.4 | 115.0 | 117.0 | 114.3 | 117.0 | 119.6 | 115.35 |
| 113.3 | 114.0 | 114.0 | 116.0 | 115.0 | 114.6 | 114.7 | 115.4 | 116.0 | 115.2 | 114.5 | 117.6 | 114.83 |
| 112.0 | 115.0 | 115.2 | 114.6 | 114.2 | 114.4 | 114.0 | 118.2 | 120.0 | 117.3 | 118.8 | 124.5 | 114.28 |
| 115.8 | 117.4 | 115.8 | 116.0 | 121.8 | 119.7 | 124.2 | 120.0 | 114.6 | 114.3 | 114.8 | 116.0 | 115.73 |
| 116.4 | 117.0 | 121.6 | 129.0 | 124.2 | 129.1 | 125.0 | 136.8 | 136.8 | 127.8 | 132.1 | 120.8 | 120.05 |
| 111.1 | 113.0 | 114.2 | 113.2 | 116.6 | 119.1 | 116.5 | 121.0 | 117.0 | 115.0 | 114.6 | 116.2 | 115.31 |
| 115.0 | 114.8 | 114.4 | 119.2 | 116.0 | 115.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 122.8 | 116.7 | 114.0 | 112.8 | 114.9 | 116.2 | 115.32 |
| 113.0 | 114.2 | 112.2 | 114.4 | 114.3 | 116.8 | 114.8 | 115.0 | 113.9 | 114.0 | 114.0 | 117.9 | 113.85 |
| 113.5 | 114.2 | 114.0 | 114.0 | 114.2 | 114.2 | 115.5 | 114.3 | 115.8 | 115.2 | 116.5 | 122.8 | 114.40 |
| 112.0 | 113.0 | 113.0 | 113.2 | 116.8 | 113.9 | 114.1 | 110.9 | 115.2 | 109.8 | 111.3 | 116.5 | 113.18 |
| 113.8 | 114.2 | 113.7 | 114.0 | 114.0 | 114.3 | 114.8 | 115.8 | 116.8 | 117.0 | 118.5 | 121.1 | 115.03 |
| 114.02 | 115.43 | 114.67 | 115.37 | 116.74 | 116.76 | 116.60 | 117.01 | 116.51 | 115.60 | 116.40 | 118.67 | 115.26 |
| 117.3 | 115.0 | 120.0 | 136.0 | 124.2 | 132.0 | 125.8 | 120.8 | 119.6 | 116.2 | 111.4 | 122.0 | 117.55 |
| 114.0 | 116.0 | 125.3 | 116.4 | 124.2 | 127.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 114.0 | 116.9 | 97.6 | 118.8 | 107.4 | 101.0 | 114.62 |
| 114.6 | 115.8 | 116.0 | 116.0 | 132.2 | 123.8 | 110.2 | 113.2 | 115.0 | 111.9 | 112.9 | 115.5 | 114.14 |
| 115.3 | 114.4 | 113.6 | 113.0 | 120.8 | 119.3 | 110.0 | 108.9 | 114.7 | 116.0 | 116.0 | 119.4 | 114.34 |
| 116.3 | 114.2 | 114.8 | 117.3 | 117.8 | 116.7 | 117.0 | 122.0 | 125.0 | 119.8 | 101.0 | 119.8 | 114.99 |
| 116.0 | 128.0 | 116.1 | 140.0 | 116.2 | 117.0 | 113.2 | 115.0 | 114.4 | 110.2 | 114.8 | 119.7 | 116.44 |
| 114.8 | 114.0 | 118.0 | 117.1 | 121.2 | 115.4 | 114.5 | 114.8 | 116.1 | 116.8 | 109.2 | 113.0 | 115.41 |
| 113.8 | 118.8 | 114.2 | 121.0 | 118.4 | 114.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 114.0 | 111.5 | 109.0 | 114.2 | 116.2 | 117.8 | 114.03 |
| 114.6 | 114.2 ^c | 114.2 | 114.2 | 115.3 | 113.3 | 113.4 | 113.8 | 114.0 | 114.2 | 114.7 | 116.8 | 113.75 |
| 113.8 | 114.2 | 113.2 | 113.8 | 113.3 | 114.8 | 114.0 | 114.2 | 114.8 | 113.2 | 113.0 | 117.2 | 112.78 |
| 115.0 | 114.0 | 113.0 | 112.2 | 112.0 | 114.8 | 114.2 | 115.0 | 114.6 | 115.4 | 117.2 | 117.4 | 113.61 |
| 115.0 | 115.4 | 113.0 | 112.6 | 112.8 | 115.5 | 118.4 | 113.9 | 112.8 | 116.2 | 120.0 | 123.2 | 114.06 |
| 116.6 | 117.0 | 113.6 | 114.0 | 112.9 | 113.8 | 113.9 | 114.0 | 115.2 | 115.5 | 116.0 | 117.2 | 114.51 |
| 116.9 | 114.9 | 114.0 | 114.4 | 113.9 | 117.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 122.7 | 119.3 | 120.5 | 114.7 | 119.7 | 121.0 | 115.05 |
| 115.8 | 114.5 | 114.2 | 113.8 | 113.3 | 113.0 | 113.0 | 113.6 | 113.4 | 114.4 | 113.7 | 110.9 | 113.67 |
| 113.0 | 113.3 | 113.7 | 118.0 | 116.2 | 118.2 | 120.0 | 113.8 | 115.8 | 114.9 | 115.2 | 119.2 | 114.66 |
| 115.0 | 113.6 | 113.4 | 115.1 | 113.5 | 113.4 | 114.0 | 114.1 | 114.4 | 115.2 | 116.0 | 117.0 | 114.13 |
| 113.2 | 112.8 | 112.8 | 113.8 | 113.3 | 113.2 | 114.0 | 117.1 | 115.9 | 116.2 | 117.7 | 118.8 | 114.00 |
| 114.8 | 114.8 | 110.9 | 113.3 | 115.8 | 126.0 | 121.2 | 125.9 | 118.2 | 120.4 | 116.5 | 118.0 | 115.82 |
| 113.4 | 114.8 | 114.2 | 114.0 | 115.0 | 115.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 115.0 | 117.2 | 115.8 | 115.6 | 114.0 | 114.8 | 113.82 |
| 113.6 | 112.8 | 113.3 | 113.2 | 113.0 | 113.4 | 113.8 | 114.7 | 115.1 | 117.2 | 117.6 | 120.9 | 113.57 |
| 113.2 | 112.0 | 112.0 | 117.7 | 112.0 | 113.4 | 114.0 | 114.0 | 107.5 | 114.0 | 116.2 | 117.2 | 113.58 |
| 113.4 | 112.6 | 110.2 | 113.5 | 113.6 | 113.3 | 113.8 | 114.0 | 115.2 | 114.8 | 115.8 | 116.1 | 113.78 |
| 113.6 | 113.2 | 113.8 | 113.0 | 114.2 | 115.5 | 112.4 | 117.0 | 116.0 | 128.4 | 130.5 | 127.5 | 115.79 |
| 114.0 | 124.8 | 109.1 | 123.7 | 118.0 | 119.0 | 122.0 | 105.0 | 110.0 | 131.8 | 108.0 | 119.0 | 114.73 |
| 123.2 | 115.8 | 112.9 | 117.0 | 116.0 | 118.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 104.5 | 111.8 | 110.0 | 109.8 | 113.4 | 106.7 | 112.40 |
| 115.01 | 115.42 | 114.33 | 117.08 | 116.50 | 117.21 | 115.12 | 115.06 | 114.26 | 116.38 | 114.77 | 117.20 | 114.43 |

^c Seven minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|-------|
| Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| SEPTEMBER. | 1 | 119.9 | 121.8 | 124.3 | 120.4 | 109.9 | 102.8 | 100.2 | 101.0 | 103.0 | 108.0 | 112.6 | 119.0 |
| | 2 | 116.7 | 123.0 | 118.1 | 113.3 | 106.4 | 102.2 | 103.8 | 105.2 | 106.3 | 108.2 | 120.0 | 114.4 |
| | 3 | 112.8 | 120.0 | 118.2 | 109.6 | 100.4 | 98.9 | 100.1 | 103.4 | 103.3 | 106.0 | 111.1 | 114.0 |
| | 4 | 121.2 | 121.0 | 122.2 | 118.4 | 114.8 | 103.0 | 101.2 | 103.6 | 105.9 | 109.2 | 113.7 | 113.2 |
| | 5 | 120.0 | 122.8 | 122.0 | 117.7 | 111.2 | 105.3 | 103.3 | 103.8 | 104.7 | 109.7 | 112.9 | 116.0 |
| | 6 | 121.1 | 124.6 | 122.8 | 116.4 | 111.0 | 106.4 | 102.5 | 102.7 | 103.8 | 107.0 | 112.0 | 115.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 119.5 | 113.4 | 114.3 | 112.7 | 109.8 | 109.4 | 103.8 | 102.4 | 104.6 | 107.2 | 110.0 | 111.4 |
| | 9 | 118.3 | 115.0 | 117.0 | 118.6 | 115.4 | 112.0 | 108.2 | 105.6 | 106.0 | 109.6 | 111.2 | 114.0 |
| | 10 | 120.2 | 121.0 | 120.4 | 118.7 | 113.3 | 109.8 | 108.4 | 107.9 | 108.4 | 110.8 | 112.5 | 113.4 |
| | 11 | 120.8 | 115.3 | 117.9 | 115.0 | 108.0 | 107.4 | 107.4 | 107.8 | 109.3 | 110.5 | 113.7 | 115.4 |
| | 12 | 120.5 | 128.0 | 124.9 | 119.3 | 113.0 | 106.7 | 100.3 | 104.7 | 104.4 | 109.2 | 113.0 | 115.0 |
| | 13 | 121.3 | 121.0 | 117.0 | 116.8 | 112.0 | 109.0 | 104.5 | 107.0 | 108.0 | 105.4 | 111.0 | 113.2 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 117.0 | 118.6 | 116.5 | 114.0 | 109.0 | 103.4 | 103.0 | 103.6 | 105.8 | 109.6 | 112.0 | 113.6 |
| | 16 | 118.2 | 120.0 | 118.0 | 113.2 | 107.9 | 105.8 | 104.4 | 104.8 | 107.5 | 110.4 | 110.3 | 113.0 |
| | 17 | 119.2 | 118.6 | 117.4 | 116.2 | 113.2 | 108.0 | 104.7 | 104.4 | 104.8 | 108.0 | 110.8 | 110.4 |
| | 18 | 121.8 | 123.2 | 119.9 | 115.9 | 110.0 | 105.6 | 105.3 | 104.1 | 107.0 | 109.0 | 112.4 | 113.8 |
| | 19 | 124.8 | 122.3 | 122.0 | 115.0 | 109.0 | 105.0 | 105.0 | 103.8 | 106.3 | 107.0 | 111.0 | 112.2 |
| | 20 | 118.6 | 121.0 | 120.5 | 117.6 | 115.0 | 107.4 | 108.0 | 107.4 | 108.2 | 109.4 | 111.6 | 111.8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 116.2 | 118.8 | 118.6 | 117.0 | 114.2 | 109.4 | 106.4 | 107.0 | 111.2 | 111.0 | 112.2 | 112.2 |
| | 23 | 116.4 | 116.4 | 115.6 | 114.5 | 112.2 | 111.0 ^b | 110.1 | 109.5 | 110.0 | 111.6 | 111.2 | 111.0 |
| | 24 | 118.0 | 120.1 | 121.1 | 116.2 | 112.2 | 109.2 | 105.1 | 107.0 | 109.5 | 109.3 | 111.0 | 112.4 |
| | 25 | 117.2 | 114.5 | 84.2 | 99.3 | 105.2 | 111.2 | 91.6 | 100.1 | 107.8 | 109.6 | 109.4 | 113.8 |
| | 26 | 114.2 | 115.8 | 117.0 | 112.0 | 109.8 | 109.4 | 108.7 | 109.0 | 109.6 | 111.0 | 112.4 | 112.0 |
| | 27 | 115.0 | 106.2 | 115.2 | 116.3 | 113.0 | 104.4 | 102.1 | 104.6 | 103.2 | 103.9 | 107.9 | 122.0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 110.2 | 117.0 | 115.6 | 112.4 | 111.2 | 107.9 | 105.3 | 104.1 | 108.0 | 108.0 | 109.7 | 112.2 |
| | 30 | 114.4 | 116.5 | 115.2 | 114.3 | 112.0 | 108.5 | 105.8 | 105.3 | 107.0 | 109.0 | 111.9 | 113.0 |
| Hourly Means | 118.21 | 119.07 | 117.53 | 115.03 | 110.73 | 106.89 | 104.20 | 104.99 | 106.68 | 108.75 | 111.83 | 113.75 | |
| OCTOBER. | 1 | 106.8 | 113.0 | 116.7 | 117.7 | 115.0 | 107.5 | 105.0 | 103.2 | 104.8 | 109.2 | 110.4 | 114.0 |
| | 2 | 116.8 | 117.2 | 119.4 | 118.7 | 115.2 | 111.0 | 105.0 | 105.0 | 106.5 | 109.8 | 112.0 | 113.0 |
| | 3 | 117.0 | 115.2 | 116.0 | 116.4 | 115.7 | 111.2 | 104.5 | 106.2 | 107.0 | 109.4 | 111.7 | 112.5 |
| | 4 | 115.0 | 117.0 | 118.4 | 118.0 | 115.4 | 112.0 | 109.8 | 107.0 | 107.2 | 109.1 | 111.2 | 112.2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 118.2 | 118.4 | 119.1 | 115.5 | 110.4 | 108.1 | 105.2 | 105.0 | 106.0 | 108.0 | 110.0 | 112.0 |
| | 7 | 115.1 | 116.4 | 115.4 | 115.2 | 113.8 | 111.2 | 108.0 | 107.0 | 108.5 | 110.0 | 111.0 | 110.1 |
| | 8 | 115.0 | 115.0 | 115.8 | 115.7 | 115.6 | 114.0 | 110.2 | 109.2 | 109.4 | 110.0 | 110.4 | 110.4 |
| | 9 | 115.0 | 115.4 | 115.3 | 116.4 | 116.5 | 118.2 ^b | 110.0 | 108.8 | 108.5 | 107.4 | 106.9 | 105.2 |
| | 10 | 106.6 | 108.2 | 107.5 | 111.5 | 113.0 | 109.3 | 107.8 | 107.6 | 106.7 | 109.0 | 110.0 | 112.2 |
| | 11 | 113.8 | 108.4 | 115.0 | 114.3 | 113.0 | 111.9 | 109.5 | 109.8 | 110.8 ^c | 111.2 | 111.2 | 112.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 114.4 | 115.5 | 115.0 | 112.0 | 109.7 | 108.0 | 107.2 | 109.0 | 111.0 | 112.2 | 113.2 | 112.0 |
| | 14 | 116.0 | 115.2 | 117.0 | 116.2 | 112.8 | 108.2 | 108.0 | 107.2 | 109.4 | 112.2 | 113.4 | 113.0 |
| | 15 | 116.0 | 118.0 | 118.8 | 113.7 | 109.8 ^b | 101.2 | 101.0 | 103.8 | 107.0 | 109.8 | 110.8 | 112.0 |
| | 16 | 116.8 | 118.0 | 118.2 | 116.9 | 113.1 | 109.0 | 107.2 | 108.6 | 110.8 | 112.0 | 113.2 | 113.0 |
| | 17 | 118.0 | 120.5 | 121.0 | 113.0 | 107.0 | 106.7 | 106.0 | 106.0 | 108.8 | 111.0 | 111.0 | 112.2 |
| | 18 | 116.9 | 118.8 | 119.9 | 118.2 | 115.0 | 111.6 | 110.0 | 109.6 | 111.0 | 110.6 | 111.0 | 110.8 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 114.2 | 112.5 | 113.8 | 97.0 | 102.0 | 111.2 | 109.8 | 109.8 | 109.2 | 110.4 | 112.4 | 112.6 |
| | 21 | 119.4 | 107.0 | 110.2 | 112.0 | 110.3 | 110.9 | 111.0 | 110.1 | 110.2 | 110.0 | 104.9 | 110.5 |
| | 22 | 114.1 | 115.6 | 117.0 | 115.5 | 115.1 | 108.2 | 111.3 | 110.1 | 110.8 | 111.8 | 113.0 | 113.2 |
| | 23 | 115.0 | 116.0 | 116.1 | 116.0 | 114.0 | 112.0 | 111.6 | 111.7 | 111.0 | 111.1 | 111.7 | 112.0 |
| | 24 | 112.0 | 110.9 | 110.0 | 109.1 | 110.0 ^d | 108.8 | 108.3 | 113.0 | 110.0 | 110.4 | 110.0 | 112.2 |
| | 25 | 116.1 | 115.0 | 117.0 | 115.0 | 112.2 | 110.4 | 108.0 | 109.6 | 110.0 | 111.0 | 110.8 | 111.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 111.4 | 112.7 | 115.2 | 115.4 | 111.7 | 107.4 | 107.8 | 109.0 | 109.3 | 109.8 | 110.6 | 111.6 |
| | 28 | 115.8 | 116.6 | 118.7 | 119.8 | 116.3 | 113.0 | 111.4 | 111.0 | 111.5 | 112.0 | 112.0 | 112.0 |
| | 29 | 112.6 | 117.1 | 120.0 | 117.0 | 114.9 | 110.5 | 108.0 | 107.2 | 107.6 | 109.1 | 110.6 | 111.2 |
| | 30 | 116.2 | 118.3 | 118.0 | 117.8 | 117.7 | 112.0 | 108.2 | 107.0 | 109.0 | 109.8 | 117.4 | 112.2 |
| | 31 | 115.8 | 117.3 | 118.9 | 119.0 | 116.0 | 112.3 | 109.3 | 109.4 | 109.2 | 110.4 | 110.0 | 109.8 |
| Hourly Means | 114.81 | 115.16 | 116.42 | 114.93 | 113.01 | 110.21 | 108.11 | 108.18 | 108.93 | 110.25 | 110.77 | 111.66 | |

^a Ten minutes late.

^b Five minutes late.

DECLINATION.

Angular Value of one Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 119.2 | Sc. Div. 115.2 | Sc. Div. 116.8 | Sc. Div. 122.4 | Sc. Div. 124.0 | Sc. Div. 126.2 | Sc. Div. 125.6 | Sc. Div. 113.2 | — | — | — | — | Sc. Div. 115.27 |
| 117.5 | 120.8 | 114.0 | 121.0 | 113.2 | 110.8 | 110.0 | 110.0 | 112.7 | 114.3 | 116.3 | 112.0 | 112.92 |
| 114.8 | 114.9 | 113.0 | 113.2 | 113.6 | 110.0 | 107.8 | 114.0 | 117.4 | 118.0 | 113.1 | 121.0 | 111.19 |
| 115.7 | 121.0 | 112.5 | 116.0 ^a | 117.0 | 113.0 | 113.0 | 113.2 | 114.4 | 114.6 | 116.0 | 116.8 | 113.78 |
| 115.0 | 113.0 | 113.7 | 113.2 | 113.6 | 113.0 | 114.2 | 114.6 | 111.0 | 115.2 | 117.8 | 116.1 | 113.33 |
| 115.0 | 115.0 | 115.2 | 114.8 | 113.7 | 113.4 | — | — | — | — | — | — | 113.28 |
| — | — | — | — | — | — | 118.8 | 115.2 | 107.9 | 102.7 | 119.0 | 122.6 | 113.33 |
| 112.5 | 114.8 | 122.6 | 113.6 | 113.0 | 113.9 | 112.8 | 116.1 | 115.3 | 120.4 | 121.2 | 125.2 | 113.33 |
| 113.8 | 119.0 | 120.6 | 118.3 | 114.6 | 114.2 | 113.2 | 114.2 | 116.0 | 114.0 | 117.0 | 120.0 | 114.41 |
| 113.0 | 113.9 | 113.2 | 113.0 | 112.0 | 114.5 | 112.8 | 117.0 | 118.0 | 118.4 | 118.2 | 117.6 | 114.43 |
| 115.0 | 114.2 | 113.7 | 113.7 | 122.0 | 122.4 | 120.0 | 113.0 | 119.2 | 117.7 | 116.4 | 112.0 | 114.49 |
| 114.2 | 114.0 | 120.4 | 115.4 | 113.2 | 113.4 | 111.8 | 111.5 | 112.5 | 110.6 | 120.7 | 119.7 | 114.02 |
| 112.4 | 112.5 | 112.8 | 112.0 | 112.0 | 112.0 | — | — | — | — | — | — | 112.63 |
| — | — | — | — | — | — | 112.8 | 112.8 | 113.7 | 114.0 | 114.9 | 115.0 | 112.19 |
| 112.4 | 112.8 | 113.0 | 116.1 | 112.8 | 112.0 | 110.0 | 112.2 | 115.0 | 117.0 | 117.2 | 116.0 | 112.70 |
| 112.0 | 112.2 | 110.8 | 112.6 | 113.3 | 116.0 | 113.1 | 115.6 | 115.0 | 116.2 | 117.3 | 117.2 | 112.70 |
| 113.1 | 111.3 | 118.1 | 124.0 | 116.2 | 113.4 | 113.6 | 125.6 | 115.8 | 131.6 | 126.8 | 121.2 | 115.27 |
| 114.0 | 114.2 | 123.0 | 113.6 | 117.0 | 114.7 | 121.8 | 102.8 | 120.3 | 123.7 | 119.5 | 124.3 | 114.87 |
| 112.2 | 112.8 | 112.2 | 115.9 | 114.1 | 111.0 | 115.9 | 117.5 | 112.3 | 125.0 | 118.1 | 117.0 | 113.64 |
| 113.5 | 111.2 | 114.3 | 110.8 | 129.0 | 117.8 | — | — | — | — | — | — | 114.00 |
| — | — | — | — | — | — | 113.1 | 114.0 | 115.0 | 107.7 | 116.7 | 116.4 | 113.20 |
| 113.0 | 112.4 | 112.4 | 112.6 | 112.4 | 113.2 | 111.6 | 116.4 | 114.4 | 114.2 | 114.6 | 115.4 | 113.20 |
| 109.7 | 110.9 | 112.2 | 111.4 | 112.0 | 115.2 | 120.0 | 115.4 | 116.2 | 116.4 | 117.2 | 119.0 | 113.55 |
| 113.0 | 110.2 | 113.2 | 109.5 | 117.0 | 126.5 | 128.0 | 126.3 | 107.1 | 100.6 | 116.0 | 126.5 | 114.37 |
| 121.3 | 117.4 | 113.4 | 119.4 | 148.0 | 112.8 | 113.1 | 100.1 | 110.2 | 119.0 | 117.3 | 109.4 | 111.05 |
| 113.0 | 111.2 | 110.9 | 113.8 | 113.6 | 110.9 | 113.0 | 115.3 | 109.6 | 107.5 | 115.0 | 121.2 | 112.33 |
| 118.4 | 116.9 | 113.2 | 133.3 | 113.0 | 123.0 | — | — | — | — | — | — | 113.16 |
| — | — | — | — | — | — | 116.2 ^c | 113.2 | 113.0 | 114.4 | 115.4 | 112.0 | 112.61 |
| 114.2 | 116.0 | 116.9 | 123.0 | 118.4 | 113.2 | 113.2 | 111.0 | 113.9 | 116.0 | 113.5 | 111.8 | 112.33 |
| 114.2 | 114.7 | 112.4 | 112.7 | 116.0 | 111.9 | 114.1 | 113.0 | 113.8 | 114.0 | 114.2 | 112.1 | 112.33 |
| 114.31 | 114.33 | 114.79 | 115.97 | 116.72 | 114.94 | 114.98 | 113.97 | 113.99 | 115.33 | 117.18 | 117.50 | 113.39 |
| 115.2 | 114.2 | 118.0 | 114.3 | 116.4 | 114.1 | 112.6 | 114.0 | 118.0 | 111.8 | 115.0 | 115.0 | 112.58 |
| 113.2 | 113.0 | 112.5 | 112.4 | 113.0 | 112.1 | 112.3 | 113.0 | 113.0 | 112.0 | 113.8 | 105.0 | 112.29 |
| 114.1 | 113.0 | 127.2 | 114.8 | 115.0 | 114.7 | 114.3 | 114.0 | 113.2 | 113.3 | 114.0 | 114.8 | 113.55 |
| 112.2 | 112.9 | 113.2 | 113.0 | 112.2 | 113.0 | — | — | — | — | — | — | 113.25 |
| — | — | — | — | — | — | 113.4 | 115.5 | 112.2 | 117.0 | 116.4 | 114.7 | 112.61 |
| 112.6 | 112.4 | 113.2 | 113.4 | 113.0 | 115.6 | 112.6 | 115.1 | 114.5 | 114.8 | 114.8 | 114.8 | 112.17 |
| 109.9 | 116.2 | 112.0 | 112.2 ^b | 112.0 | 112.4 | 113.1 | 107.4 | 114.2 | 114.3 | 113.8 | 113.0 | 113.13 |
| 112.2 | 110.4 | 114.0 | 111.8 | 113.0 | 113.0 | 115.0 | 114.0 | 113.6 | 116.1 | 116.0 | 115.4 | 114.25 |
| 125.8 | 106.0 | 107.3 | 110.8 | 112.8 | 114.8 | 117.0 | 112.0 | 122.0 | 120.4 | 130.2 | 119.2 | 111.74 |
| 113.2 | 113.8 | 112.0 | 113.4 | 112.4 | 111.0 | 114.8 | 116.2 | 113.8 | 120.2 | 112.6 | 119.0 | 112.66 |
| 112.0 | 112.6 | 114.0 | 111.4 | 112.6 | 112.0 | — | — | — | — | — | — | 112.88 |
| — | — | — | — | — | — | 115.7 | 113.8 | 113.4 | 113.8 | 115.7 | 116.0 | 112.88 |
| 112.8 | 113.0 | 112.6 | 112.8 | 112.3 | 112.8 | 113.0 | 118.0 | 117.3 | 115.6 | 114.8 | 115.0 | 112.92 |
| 112.0 | 112.2 | 115.0 | 114.9 | 112.1 | 112.2 | 112.4 | 113.0 ^a | 113.2 | 114.0 | 114.8 | 115.8 | 111.84 |
| 113.2 | 113.0 | 113.0 | 112.8 | 111.8 | 112.2 | 114.8 | 111.2 | 114.0 | 114.4 | 116.0 | 115.8 | 115.23 |
| 112.0 | 112.8 | 112.0 | 112.2 | 115.8 | 114.7 ^d | 114.0 | 122.1 | 128.4 | 128.5 | 119.0 | 117.2 | 112.81 |
| 107.2 | 110.8 | 111.0 | 113.2 | 117.3 | 117.0 | 112.8 | 114.6 | 115.8 | 115.0 | 115.6 | 116.0 | 114.03 |
| 111.7 | 112.5 | 111.4 | 116.0 | 114.7 | 116.2 | — | — | — | — | — | — | 114.39 |
| — | — | — | — | — | — | 115.5 | 112.8 | 114.3 | 116.2 | 116.0 | 117.2 | 114.93 |
| 111.0 | 117.0 | 113.0 | 115.0 | 115.0 | 112.6 | 120.0 | 131.1 | 127.0 | 121.8 | 126.9 | 120.0 | 113.36 |
| 112.8 | 122.4 | 125.2 | 144.1 | 131.2 | 117.0 | 113.0 | 113.2 | 111.7 | 115.0 | 114.2 | 112.0 | 113.87 |
| 112.8 | 113.0 | 114.2 | 113.2 | 114.0 | 111.9 | 113.8 | 112.9 | 113.2 | 115.0 | 115.3 | 115.7 | 114.58 |
| 112.4 | 112.2 | 112.4 | 112.6 | 113.2 | 113.8 | 113.2 | 115.0 | 114.3 | 119.9 | 115.4 | 120.4 | 113.11 |
| 113.4 | 112.8 | 112.2 | 117.4 | 117.3 | 121.9 | 125.2 | 127.2 | 119.0 | 120.2 | 118.6 | 120.0 | 112.50 |
| 112.0 | 113.0 | 113.1 | 112.8 | 116.0 | 117.0 | — | — | — | — | — | — | 113.93 |
| — | — | — | — | — | — | 114.0 | 113.2 | 113.2 | 114.0 | 115.0 | 115.2 | 113.20 |
| 112.5 | 113.0 | 113.0 | 113.2 | 113.0 | 113.2 | 115.9 | 114.4 | 114.0 | 114.2 | 115.8 | 115.8 | 113.20 |
| 111.7 | 112.8 | 111.5 | 114.2 | 112.0 | 112.6 | 116.0 | 114.2 | 114.4 | 114.0 | 114.8 | 116.0 | 113.76 |
| 111.0 | 113.0 | 113.0 | 114.2 | 114.7 | 116.2 | 114.2 | 114.4 | 114.8 | 114.8 | 114.9 | 115.8 | 113.20 |
| 112.6 | 113.4 | 114.0 | 113.8 | 112.9 | 113.9 | 113.5 | 113.4 ^a | 113.2 | 114.0 | 114.7 | 114.2 | 113.20 |
| 108.8 | 110.2 | 114.0 | 120.9 | 114.0 | 111.7 | 112.2 | 111.0 | 113.2 | 110.0 | 122.9 | 124.0 | 113.29 |
| 112.60 | 113.02 | 113.85 | 114.84 | 114.43 | 114.06 | 114.60 | 115.06 | 115.51 | 115.94 | 116.56 | 116.04 | 113.29 |

113.68

113.75

112.69

113.40

113.28

ii.

^c Two minutes late.

^d Six minutes late.

| DECLINATION. | | | | | | | | | | | | | |
|---|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|-------------------|----------------|
| Angular Value of one Scale Division of the Declinometer = 0' .721. Increasing numbers denote decreasing Westerly Declination. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| NOVEMBER. | 1 | Sc. Div. 116.0 | Sc. Div. 116.4 | Sc. Div. 116.2 | Sc. Div. 116.8 | Sc. Div. 109.2 | Sc. Div. 106.2 | Sc. Div. 100.0 | Sc. Div. 104.0 | Sc. Div. 104.5 | Sc. Div. 105.2 | Sc. Div. 104.3 | Sc. Div. 105.7 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 115.6 | 118.0 | 120.4 | 117.0 | 116.7 | 112.8 | 109.3 | 108.5 | 108.0 | 109.2 | 110.4 | 114.8 |
| | 4 | 115.4 | 117.0 | 118.2 | 117.0 | 115.8 | 109.3 | 108.3 | 108.1 | 106.2 | 107.7 | 109.8 | 110.0 |
| | 5 | 117.0 | 118.0 | 117.8 | 107.8 | 99.8 | 96.6 | 97.8 | 99.0 | 100.0 | 106.0 | 110.0 | 113.5 |
| | 6 | 115.0 | 116.0 | 118.8 | 119.2 | 117.0 | 114.2 | 113.0 | 110.2 | 110.2 | 112.0 | 112.2 | 112.5 |
| | 7 | 118.0 | 115.2 | 115.0 | 112.2 | 109.9 | 108.4 | 106.2 | 104.5 | 106.9 | 107.3 | 108.8 | 111.2 |
| | 8 | 114.0 | 116.0 | 115.8 | 116.7 | 116.8 | 113.0 | 110.7 | 109.2 | 110.0 | 111.0 | 111.8 | 112.0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 116.5 | 117.6 | 116.3 | 115.8 | 112.5 | 109.8 | 108.6 | 107.2 | 108.8 ^a | 111.1 | 111.8 | 112.2 |
| | 11 | 114.6 | 115.1 | 116.3 | 114.3 | 111.9 | 107.5 | 106.9 | 108.0 | 109.2 | 111.0 | 113.2 | 113.0 |
| | 12 | 117.2 | 118.0 | 119.2 | 117.4 | 113.0 | 109.2 | 107.0 | 107.1 | 109.1 | 109.0 | 111.8 | 113.4 |
| | 13 | 116.2 | 117.0 | 118.2 | 117.6 | 115.0 | 111.4 | 108.8 | 109.0 ^b | 110.2 | 112.2 | 113.0 | 113.3 |
| | 14 | 115.0 | 116.2 | 118.0 | 116.1 | 112.2 | 108.0 | 106.0 | 106.4 | 109.0 | 110.0 | 112.5 | 113.8 |
| | 15 | 115.2 | 116.2 | 118.4 | 117.1 | 113.8 | 110.0 | 107.7 | 107.0 | 108.2 | 111.2 | 112.8 | 113.0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 109.8 | 122.5 | 119.2 | 119.0 | 119.2 | 107.4 | 106.4 | 106.5 | 104.0 | 103.4 | 112.0 | 112.8 |
| | 18 | 113.8 | 116.7 | 116.0 | 112.4 | 111.0 | 107.6 | 110.6 | 108.0 | 106.8 | 109.2 | 111.4 | 110.4 |
| | 19 | 112.2 | 114.4 | 119.0 | 116.2 | 112.3 | 111.2 | 109.2 | 109.3 | 108.9 | 110.8 | 111.1 | 112.0 |
| | 20 | 113.4 | 114.8 | 115.6 | 118.6 | 115.8 | 112.7 | 109.7 | 108.8 | 109.2 | 110.8 | 111.0 | 112.6 |
| | 21 | 112.2 | 114.8 | 116.2 | 117.0 | 114.0 | 113.1 | 110.7 | 109.0 | 110.0 | 111.3 | 111.9 | 113.2 |
| | 22 | 114.1 | 115.0 | 116.5 | 116.0 | 113.4 | 111.1 | 110.0 | 109.4 | 109.2 | 111.4 | 111.2 | 112.4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 115.0 | 116.1 | 117.0 | 117.2 | 116.0 | 110.2 | 109.7 | 108.8 | 110.2 | 112.0 | 112.2 | 112.8 |
| | 25 | 114.2 | 114.0 | 114.4 | 114.2 | 114.0 | 111.7 | 111.0 | 109.1 | 111.1 | 112.1 | 111.9 | 112.9 |
| | 26 | 114.0 | 114.6 | 115.4 | 114.0 | 112.2 | 111.0 | 109.3 | 109.4 | 110.4 | 112.0 | 113.0 | 111.8 |
| | 27 | 115.4 | 116.8 | 117.2 | 117.1 | 114.4 | 111.8 | 110.7 | 109.8 | 110.9 | 112.2 | 111.2 | 111.2 |
| | 28 | 104.4 | 115.5 | 119.6 | 119.0 | 115.2 | 111.8 | 110.0 | 110.2 | 112.0 | 111.4 | 114.8 | 116.2 |
| | 29 | 115.4 | 117.0 | 115.0 | 114.8 | 115.1 | 107.9 | 109.0 | 106.0 | 109.0 | 112.0 | 112.4 | 114.0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 114.38 | 116.36 | 117.19 | 116.02 | 113.45 | 109.76 | 108.26 | 107.70 | 108.48 | 110.06 | 111.46 | 112.43 |
| DECEMBER. | 1 | 115.8 | 116.0 ^d | 116.4 | 116.6 | 115.4 | 112.0 | 109.4 | 108.2 | 109.2 | 109.4 | 112.2 | 114.7 |
| | 2 | 117.6 | 117.9 | 115.6 | 115.2 | 114.2 | 113.2 | 111.1 | 110.1 | 111.5 | 113.0 | 114.0 | 115.0 |
| | 3 | 111.0 | 111.0 | 121.2 | 114.4 | 94.0 | 97.0 | 102.0 | 102.0 | 106.1 | 112.4 | 109.8 | 102.2 |
| | 4 | 114.9 | 115.0 | 114.2 | 115.5 | 114.8 | 113.0 | 109.3 | 109.0 | 109.4 | 111.0 | 112.0 | 113.4 |
| | 5 | 115.1 | 108.9 | 111.2 | 109.0 | 107.2 | 111.0 | 105.2 | 109.1 | 111.0 | 112.2 | 113.0 | 114.5 |
| | 6 | 117.0 | 116.0 | 117.2 | 117.4 | 115.8 | 114.7 | 112.4 | 111.2 | 111.4 | 111.6 | 113.0 | 114.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 116.6 | 117.9 | 117.0 | 117.3 | 115.6 | 114.1 | 112.1 | 111.0 | 111.2 | 112.0 | 113.7 | 114.7 |
| | 9 | 115.3 | 115.1 | 116.0 | 116.0 | 117.0 | 115.3 | 113.0 | 111.8 | 112.2 | 113.2 ^e | 115.0 | 114.0 |
| | 10 | 117.2 | 117.0 | 113.0 | 115.2 | 113.0 | 113.0 | 112.9 | 111.6 | 112.0 | 112.6 | 114.8 | 116.0 |
| | 11 | 116.9 | 117.0 | 117.0 | 116.4 | 115.2 | 114.0 | 111.4 | 111.4 | 112.0 | 113.8 | 114.6 | 115.0 |
| | 12 | 117.2 | 118.0 | 119.2 | 118.2 | 118.3 | 116.2 | 112.4 | 110.2 | 107.0 | 110.2 | 113.8 | 114.8 |
| | 13 | 108.2 | 114.9 | 111.2 | 112.3 | 112.6 | 107.7 | 107.8 | 106.0 | 107.0 | 108.0 | 107.8 | 110.3 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 102.8 | 115.1 | 114.0 | 114.9 | 118.0 | 116.1 | 111.0 | 105.7 | 105.7 | 105.0 | 113.0 | 115.2 |
| | 16 | 114.2 | 112.1 | 102.3 | 116.1 | 116.0 | 113.0 | 109.2 | 110.0 | 111.7 | 111.0 | 113.2 | 115.0 |
| | 17 | 116.0 | 115.7 | 117.1 | 115.8 | 116.2 | 113.0 | 112.2 | 112.0 | 109.8 | 113.2 | 114.5 | 115.2 |
| | 18 | 108.0 | 113.6 | 114.4 | 111.8 | 114.2 | 112.0 | 110.4 | 110.0 | 110.2 | 111.5 | 112.6 | 114.2 |
| | 19 | 116.1 | 116.7 | 117.2 | 119.0 | 119.0 | 116.0 | 114.6 | 112.8 | 112.0 | 112.1 | 113.7 | 115.0 |
| | 20 | 115.0 | 115.9 | 117.0 | 119.6 | 118.2 | 116.5 | 114.8 | 113.1 | 111.2 | 110.7 | 111.8 | 113.8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 115.2 | 116.0 | 118.8 | 119.4 | 119.0 | 116.0 | 113.0 | 112.2 | 111.0 | 111.7 | 115.0 | 114.1 |
| | 23 | 115.5 | 116.3 | 117.0 | 119.4 | 120.0 | 119.2 | 114.8 | 111.3 | 111.9 | 113.0 | 113.1 | 114.8 |
| | 24 | 113.2 | 114.0 | 118.2 | 118.6 | 117.6 | 117.0 | 113.6 | 110.3 | 110.5 | 111.7 | 114.2 | 115.0 |
| | 25 ^h | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 113.7 | 116.2 | 118.0 | 119.0 | 119.8 | 118.2 | 115.4 | 113.2 | 112.1 | 112.0 | 112.8 | 114.0 |
| | 27 | 116.6 | 118.2 | 117.2 | 116.3 | 114.2 | 114.4 | 114.0 | 112.0 | 111.2 | 111.8 | 113.0 | 114.0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 114.8 | 113.2 | 116.2 | 117.4 | 115.5 | 114.5 | 113.1 | 111.8 | 111.8 | 112.1 | 112.8 | 114.0 |
| | 30 | 114.4 | 106.1 | 104.9 | 110.2 | 107.0 | 112.2 | 111.2 | 106.2 | 110.0 | 112.2 | 112.5 | 113.8 |
| | 31 | 116.6 | 115.2 | 116.5 | 117.0 | 115.9 | 114.0 | 113.1 | 111.9 | 112.0 | 111.2 | 112.4 | 113.2 |
| Hourly Means | 114.42 | 114.96 | 115.31 | 116.08 | 114.76 | 113.59 | 111.52 | 110.16 | 110.43 | 111.48 | 113.01 | 113.84 | |

^a Four minutes late.

^b Five minutes late.

^c Twenty-two minutes late.

^d Three minutes late.

DECLINATION.

Angular Value of one Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| Sc. Div. 114.2 | Sc. Div. 118.0 | Sc. Div. 115.9 | Sc. Div. 116.7 | Sc. Div. 114.3 | Sc. Div. 116.3 | — | — | — | — | — | — | Sc. Div. 112.05 |
| — | — | — | — | — | — | 114.2 | 116.0 | 116.4 | 114.2 | 111.6 | 116.8 | 112.05 |
| 113.0 | 113.0 | 114.2 | 114.2 | 114.0 | 113.4 | 113.8 | 113.2 | 108.4 | 111.7 | 113.8 | 114.9 | 113.26 |
| 110.2 | 111.0 | 113.4 | 114.4 | 113.1 | 119.9 | 115.0 | 118.0 | 114.0 | 112.9 | 102.3 | 113.9 | 112.54 |
| 114.7 | 115.0 | 115.4 | 114.1 | 113.8 | 113.0 | 112.4 | 112.3 | 113.0 | 114.2 | 115.0 | 114.6 | 110.45 |
| 113.0 | 113.0 | 113.1 | 113.0 | 116.9 | 118.5 | 113.9 | 113.0 | 111.0 | 118.0 | 113.8 | 124.0 | 114.65 |
| 108.7 | 114.0 | 113.8 | 113.9 | 115.0 | 123.3 | 124.0 | 118.2 | 113.0 | 113.2 | 113.6 | 115.0 | 112.89 |
| 113.0 | 113.2 | 113.2 | 113.2 | 113.0 | 113.0 | — | — | — | — | — | — | 113.28 |
| — | — | — | — | — | — | 112.8 | 108.9 | 114.7 | 114.0 | 115.6 | 117.2 | 113.28 |
| 112.0 | 119.0 | 119.4 | 118.8 | 123.0 | 112.7 | 112.2 | 112.0 | 112.2 | 115.0 | 114.0 | 114.8 | 113.89 |
| 114.4 | 114.0 | 113.8 | 113.2 | 115.8 | 112.0 | 111.9 | 112.7 | 112.3 | 113.0 | 115.2 | 114.0 | 112.64 |
| 114.4 | 114.8 | 114.8 | 114.1 | 113.0 | 113.0 | 112.7 | 113.2 | 114.0 | 114.3 | 114.8 | 116.0 | 113.35 |
| 114.0 | 114.2 | 114.0 | 115.2 ^c | 119.0 | 113.2 | 112.9 | 113.0 | 113.6 | 114.4 | 114.6 | 115.0 | 113.96 |
| 114.1 | 114.6 | 113.3 | 113.4 | 113.0 | 113.0 | 113.4 | 113.0 | 113.4 | 113.8 | 114.0 | 114.8 | 112.79 |
| 113.4 | 112.2 | 114.0 | 113.8 | 113.4 | 114.0 | — | — | — | — | — | — | 113.86 |
| — | — | — | — | — | — | 114.0 | 114.7 | 115.2 | 115.2 | 108.2 | 134.0 | 113.86 |
| 115.8 | 114.8 | 114.2 | 113.7 | 113.0 | 112.0 | 111.0 | 106.0 | 108.0 | 111.0 | 111.1 | 115.3 | 112.00 |
| 114.2 | 115.9 | 115.2 | 129.0 | 116.7 | 112.2 | 113.2 | 114.5 | 105.5 | 107.4 | 107.0 | 106.6 | 112.14 |
| 112.9 | 114.8 | 114.4 | 119.9 | 113.7 | 115.0 | 113.9 | 111.0 | 113.2 | 114.0 | 115.2 | 113.8 | 113.27 |
| 113.7 | 113.9 | 114.0 | 114.2 | 114.6 | 115.0 | 113.2 | 113.6 | 112.4 | 113.2 | 114.0 | 112.7 | 113.23 |
| 113.0 | 115.0 | 114.7 | 114.8 | 113.6 | 113.2 | 114.2 | 113.0 | 112.4 | 113.0 | 113.2 | 113.0 | 113.19 |
| 113.6 | 114.1 | 115.6 | 114.2 | 113.0 | 113.2 | — | — | — | — | — | — | 113.14 |
| — | — | — | — | — | — | 114.0 | 113.0 | 113.2 | 113.0 | 113.7 | 115.1 | 113.14 |
| 114.0 | 114.2 | 114.3 | 114.5 | 124.5 | 113.5 | 113.4 | 113.0 | 114.0 | 113.7 | 113.7 | 113.4 | 113.89 |
| 112.6 | 113.7 | 113.2 | 113.0 | 113.0 | 113.9 | 113.0 | 112.7 | 112.7 | 114.0 | 115.2 | 113.4 | 112.92 |
| 112.8 | 114.6 | 113.7 | 114.0 | 114.0 | 114.0 | 115.2 | 114.4 | 114.7 | 115.0 | 115.2 | 115.3 | 113.36 |
| 111.4 | 117.0 | 113.3 | 112.0 | 114.9 | 113.4 | 115.6 | 123.8 | 117.8 | 120.4 | 107.2 | 110.0 | 113.98 |
| 116.6 | 116.3 | 117.0 | 124.0 | 118.8 | 116.1 | 114.2 | 109.7 | 113.9 | 115.9 | 110.1 | 116.2 | 114.54 |
| 115.8 | 116.9 | 117.8 | 118.0 | 116.8 | 112.5 | — | — | — | — | — | — | 113.95 |
| — | — | — | — | — | — | 115.2 | 115.2 | 114.0 | 113.8 | 115.7 | 115.4 | 113.95 |
| 113.42 | 114.69 | 114.63 | 115.57 | 115.36 | 114.36 | 113.97 | 113.52 | 112.92 | 113.93 | 112.71 | 115.41 | 113.17 |
| 116.0 | 117.2 | 117.8 | 118.1 | 115.2 | 115.4 | 116.0 | 115.0 | 115.4 | 118.4 | 118.6 | 120.2 | 114.94 |
| 115.2 | 115.8 | 116.0 | 116.0 | 116.2 | 120.0 | 119.2 | 118.8 | 108.2 | 120.6 | 116.4 | 98.0 | 114.53 |
| 106.0 | 105.2 | 104.0 | 97.7 | 116.9 | 120.1 | 120.4 | 118.3 | 117.0 | 116.0 | 116.8 | 115.2 | 109.86 |
| 114.6 | 115.5 | 115.0 | 114.1 | 114.2 | 117.2 | 116.0 | 113.1 | 113.2 | 107.0 | 109.6 | 120.0 | 113.38 |
| 115.3 | 115.2 | 115.0 | 114.2 | 115.8 | 113.0 | 115.0 | 116.0 | 116.0 | 113.4 | 116.0 | 114.4 | 112.78 |
| 114.4 | 115.0 | 116.0 | 123.4 | 115.5 | 116.0 | — | — | — | — | — | — | 115.11 |
| — | — | — | — | — | — | — | — | 114.2 | 115.3 | 116.0 | 115.0 | 115.0 |
| 115.3 | 115.1 | 115.6 | 116.0 | 115.8 | 115.0 | 116.1 | 116.0 | 115.0 | 114.2 | 114.8 | 115.2 | 114.89 |
| 114.2 | 119.7 | 116.0 | 115.8 | 115.8 | 115.2 | 115.2 | 116.0 | 115.0 | 116.3 | 116.0 | 119.0 | 115.34 |
| 115.8 | 116.1 | 115.6 | 115.2 | 115.8 | 115.4 | 115.3 | 115.1 | 115.1 | 115.4 | 115.6 | 116.5 | 114.80 |
| 115.2 | 116.0 | 117.0 | 113.7 | 115.2 | 115.0 | 115.0 ^f | 115.3 | 114.8 | 116.0 | 113.4 | 114.0 | 114.80 |
| 115.2 | 116.0 | 116.4 | 117.0 | 117.0 | 116.1 | 117.1 ^f | 115.2 | 116.0 | 115.3 | 120.0 | 119.0 | 115.66 |
| 114.8 | 117.2 | 120.0 | 121.2 | 118.0 | 118.4 | — | — | — | — | — | — | 113.19 |
| — | — | — | — | — | — | 117.8 | 114.7 | 115.0 | 118.2 | 115.4 | 112.0 | 113.19 |
| 115.0 | 120.1 | 117.0 | 122.4 ^g | 117.8 | 118.2 | 119.2 | 112.2 | 109.1 | 114.5 | 114.9 | 116.4 | 113.89 |
| 117.7 | 118.0 | 118.5 | 120.0 | 115.8 | 117.7 | 118.2 | 114.9 | 118.2 | 116.0 | 107.2 | 116.9 | 114.29 |
| 115.2 | 127.6 | 115.9 | 116.7 | 117.2 | 116.0 | 115.0 | 115.0 | 108.6 | 112.2 | 116.8 | 110.8 | 114.90 |
| 115.0 | 116.2 | 116.2 | 115.9 | 115.5 | 115.3 | 116.7 | 115.2 | 117.0 | 117.6 | 114.0 | 113.6 | 113.80 |
| 116.2 | 117.0 | 117.3 | 119.0 | 118.2 | 117.0 | 115.2 | 115.6 | 114.6 | 115.4 | 114.9 | 114.8 | 115.81 |
| 115.0 | 110.0 | 115.7 | 117.4 | 117.0 | 116.1 | — | — | — | — | — | — | 115.13 |
| — | — | — | — | — | — | 116.2 | 116.0 | 114.9 | 115.0 | 117.2 | 115.0 | 115.0 |
| 115.0 | 115.8 | 118.0 | 115.8 | 116.4 | 115.9 ^g | 115.2 | 115.0 | 114.8 | 115.0 | 116.0 | 115.6 | 115.41 |
| 115.6 | 116.7 | 116.2 | 116.3 | 115.8 | 115.8 | 115.8 | 114.8 | 115.0 | 115.7 | 115.9 | 115.4 | 115.64 |
| 116.0 | 116.0 | 116.3 | 116.8 | 115.3 | 115.7 | — | — | — | — | — | — | 115.01 |
| — | — | — | — | — | — | 115.0 | 115.5 | 114.2 | 116.0 | 114.0 | 115.5 | 115.01 |
| 113.0 | 115.4 | 115.6 | 116.0 | 116.2 | 115.8 | 115.0 | 117.1 | 115.0 | 117.8 | 117.2 | 116.0 | 115.60 |
| 114.9 | 117.0 | 119.0 | 115.3 | 115.0 | 115.1 | — | — | — | — | — | — | 114.65 |
| — | — | — | — | — | — | 113.8 | 113.6 | 113.8 | 113.9 | 114.1 | 113.2 | 114.65 |
| 114.5 | 114.5 | 114.8 | 114.8 | 115.2 | 128.2 | 123.1 | 116.2 | 117.7 | 119.0 | 115.2 | 109.3 | 115.41 |
| 114.0 | 114.0 | 117.0 | 119.2 | 118.0 | 117.2 | 116.4 | 114.7 | 115.4 | 114.8 | 117.4 | 117.2 | 113.17 |
| 115.2 | 115.0 | 116.2 | 116.8 | 118.9 | 116.0 | 114.0 | 114.0 | 112.4 | 114.2 | 110.2 | 115.1 | 114.46 |
| 114.78 | 116.05 | 116.08 | 116.34 | 116.30 | 116.80 | 116.48 | 115.33 | 114.45 | 115.51 | 115.14 | 114.74 | 114.48 |

^c Two minutes late.

^f Five minutes early.

^g Twenty-one minutes late.

^h Christmas-day.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = .000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JANUARY. | 1 | 572.8 | 575.4 | 573.8 | 559.5 | 557.5 | 552.5 | 558.0 | 558.0 | 565.8 | 572.4 | 574.0 | 573.1 |
| | 2 | 573.5 | 574.8 | 572.0 | 566.0 | 557.7 | 553.7 | 553.0 | 559.4 | 566.4 | 571.6 | 570.8 | 574.0 |
| | 3 | 579.6 | 580.3 | 580.8 | 570.6 | 562.0 | 559.6 | 561.6 | 564.2 | 567.3 | 573.3 | 576.5 | 577.0 |
| | 4 | 574.9 | 576.0 | 576.8 | 573.7 | 570.3 | 567.0 | 567.4 | 566.0 | 566.0 | 573.5 | 573.0 | 577.3 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 588.9 | 589.0 | 592.0 | 594.0 | 596.9 | 594.8 | 589.5 | 588.5 | 585.9 | 587.0 | 589.5 | 591.0 |
| | 7 | 595.0 | 596.0 | 597.0 | 600.0 | 600.1 | 599.8 | 597.5 | 592.0 | 587.8 | 591.8 | 590.0 | 587.7 |
| | 8 | 591.0 | 593.0 | 590.0 | 587.8 | 586.4 | 587.0 | 587.5 | 586.2 | 587.6 | 587.2 | 587.5 | 586.9 |
| | 9 | 586.6 | 586.6 | 579.6 | 596.1 | 587.4 | 571.4 | 587.3 | 581.6 | 577.2 | 576.5 | 568.6 | 590.8 |
| | 10 | 564.5 | 568.0 | 564.4 | 560.0 | 561.3 | 561.3 | 564.2 | 571.8 | 564.8 | 563.4 | 569.0 | 569.3 |
| | 11 | 570.2 | 569.3 | 568.5 | 566.0 | 561.8 | 560.0 | 566.0 | 567.5 | 573.4 | 575.0 | 575.5 | 578.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 583.5 | 583.4 | 577.4 | 570.0 | 573.5 | 574.7 | 578.2 | 579.8 | 585.0 | 587.8 | 589.4 | 587.2 |
| | 14 | 587.5 | 592.8 | 587.5 | 579.0 | 573.8 | 576.0 | 572.7 | 586.7 | 583.6 | 587.0 | 588.0 | 578.2 |
| | 15 | 589.8 | 589.7 | 584.9 | 574.5 | 565.6 | 564.2 | 567.2 | 572.0 | 576.0 | 582.8 | 586.3 | 581.0 |
| | 16 | 582.5 | 581.3 | 580.8 | 576.4 | 569.4 | 564.9 | 565.0 | 569.2 | 574.3 | 578.9 | 584.1 | 580.5 |
| | 17 | 582.6 | 582.6 | 579.4 | 576.0 | 569.9 | 567.8 | 572.2 | 574.5 | 574.3 | 579.0 | 585.8 | 587.5 |
| | 18 | 591.9 | 586.6 | 585.2 | 580.1 | 573.4 | 569.5 | 569.7 | 571.4 | 567.9 | 581.8 | 582.6 | 586.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 599.0 | 593.0 | 583.0 | 575.7 | 579.7 | 578.0 | 573.7 | 576.8 | 570.6 | 570.2 | 577.6 | 583.3 |
| | 21 | 584.2 | 585.7 | 582.8 | 584.8 | 582.9 | 576.8 | 578.7 | 575.6 | 571.6 | 576.3 | 576.4 | 575.6 |
| | 22 | 580.9 | 583.1 | 578.8 | 569.6 | 572.0 | 571.0 | 571.9 | 570.0 | 574.1 | 574.8 | 580.0 | 578.0 |
| | 23 | 581.1 | 577.6 | 568.0 | 563.6 | 578.4 | 572.3 | 573.7 | 574.0 | 575.0 | 568.7 | 570.0 | 569.6 |
| | 24 | 569.2 | 573.0 | 573.5 | 569.9 | 565.9 | 564.7 | 554.0 | 559.6 | 569.3 | 573.6 | 572.6 | 554.1 |
| | 25 | 570.5 | 556.0 | 572.0 | 570.7 | 561.9 | 565.8 | 562.7 | 569.2 | 577.8 | 571.7 | 581.3 | 579.9 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 570.9 | 580.5 | 573.3 | 573.7 | 575.0 | 578.1 | 579.8 | 581.8 | 582.5 | 581.7 | 566.3 | 575.1 |
| | 28 | 580.5 | 581.2 | 579.8 | 568.1 | 553.7 | 552.6 | 551.5 | 558.1 | 559.2 | 555.0 | 553.5 | 556.0 |
| | 29 | 577.7 | 572.8 | 569.5 | 566.9 | 563.3 | 562.2 | 558.9 | 553.5 | 570.1 | 561.0 | 566.8 | 563.5 |
| | 30 | 579.9 | 576.1 | 571.9 | 570.0 | 561.5 | 563.0 | 568.0 | 572.7 | 568.7 | 571.8 | 576.4 | 582.4 |
| | 31 | 583.0 | 583.0 | 581.0 | 575.8 | 572.0 | 569.5 | 574.5 | 575.5 | 579.4 | 585.6 | 585.9 | 590.4 |
| Hourly Means | 581.17 | 580.99 | 578.66 | 571.06 | 567.90 | 569.56 | 570.53 | 572.43 | 574.13 | 576.27 | 577.68 | 578.28 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| JANUARY. | 1 | 44.4 | 45.0 | 44.8 | 44.8 | 44.8 | 45.0 | 45.2 | 45.4 | 45.6 | 45.3 | 45.3 | 45.2 |
| | 2 | 45.8 | 45.4 | 45.0 | 44.7 | 44.6 | 44.8 | 45.4 | 45.7 | 45.7 | 46.0 | 46.0 | 45.6 |
| | 3 | 43.5 | 43.5 | 43.4 | 43.2 | 43.4 | 43.6 | 44.0 | 44.2 | 44.5 | 44.5 | 45.4 | 45.5 |
| | 4 | 44.6 | 44.2 | 44.0 | 43.5 | 43.8 | 44.0 | 44.0 | 44.3 | 44.3 | 44.3 | 44.6 | 44.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 36.7 | 36.4 | 36.0 | 35.8 | 35.5 | 35.7 | 35.6 | 35.6 | 35.6 | 36.0 | 36.5 | 36.8 |
| | 7 | 35.0 | 35.2 | 35.4 | 35.0 | 35.4 | 36.0 | 37.0 | 37.5 | 37.7 | 37.7 | 38.2 | 39.6 |
| | 8 | 39.5 | 39.5 | 39.5 | 38.7 | 39.6 | 39.7 | 40.6 | 41.0 | 41.2 | 41.8 | 42.2 | 41.8 |
| | 9 | 42.0 | 42.0 | 42.5 | 43.4 | 44.2 | 45.0 | 45.6 | 46.4 | 46.8 | 47.2 | 47.5 | 47.0 |
| | 10 | 43.9 | 43.4 | 43.2 | 43.1 | 43.5 | 44.2 | 44.7 | 45.4 | 46.3 | 46.5 | 46.5 | 46.0 |
| | 11 | 43.5 | 43.5 | 43.0 | 42.7 | 42.9 | 43.3 | 44.2 | 45.0 | 45.4 | 45.4 | 45.7 | 45.3 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 36.4 | 37.2 | 37.0 | 36.6 | 36.9 | 37.2 | 37.9 | 37.6 | 38.6 | 39.5 | 40.3 | 39.9 |
| | 14 | 38.5 | 38.5 | 38.1 | 38.0 | 37.9 | 38.5 | 38.5 | 37.3 | 37.2 | 38.4 | 39.2 | 39.7 |
| | 15 | 40.0 | 40.3 | 40.4 | 40.8 | 41.4 | 41.7 | 42.8 | 43.5 | 43.5 | 44.0 | 44.6 | 44.8 |
| | 16 | 45.0 | 45.0 | 44.4 | 44.2 | 44.5 | 44.7 | 45.0 | 45.2 | 44.8 | 44.8 | 44.8 | 44.5 |
| | 17 | 41.0 | 41.0 | 40.5 | 40.3 | 41.4 | 42.0 | 42.2 | 42.8 | 42.8 | 43.0 | 42.9 | 42.3 |
| | 18 | 40.0 | 40.2 | 40.2 | 41.0 | 41.6 | 42.4 | 42.5 | 43.0 | 43.1 | 43.1 | 42.7 | 42.4 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 36.0 | 36.1 | 36.1 | 36.0 | 36.4 | 36.4 | 37.6 | 38.6 | 39.0 | 39.6 | 40.0 | 39.9 |
| | 21 | 42.7 | 42.7 | 42.5 | 42.6 | 42.6 | 43.0 | 43.6 | 44.1 | 44.7 | 44.9 | 45.2 | 45.4 |
| | 22 | 45.6 | 45.6 | 45.2 | 45.2 | 45.3 | 45.7 | 45.9 | 46.2 | 47.0 | 47.2 | 47.8 | 48.4 |
| | 23 | 45.5 | 45.4 | 45.0 | 45.5 | 46.0 | 46.6 | 47.0 | 47.2 | 47.0 | 46.8 | 46.8 | 47.0 |
| | 24 | 47.5 | 47.4 | 47.5 | 47.2 | 47.5 | 48.0 | 48.0 | 48.7 | 48.8 | 49.0 | 48.8 | 49.0 |
| | 25 | 44.2 | 43.6 | 42.8 | 42.0 | 41.4 | 41.5 | 41.8 | 42.2 | 42.2 | 43.0 | 43.6 | 43.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 39.2 | 39.2 | 39.0 | 39.2 | 40.2 | 41.0 | 42.2 | 43.4 | 44.4 | 44.9 | 45.1 | 44.8 |
| | 28 | 45.6 | 46.6 | 46.5 | 46.2 | 46.6 | 47.3 | 48.0 | 48.2 | 48.8 | 49.2 | 49.2 | 49.4 |
| | 29 | 45.7 | 45.5 | 45.0 | 44.4 | 44.7 | 45.2 | 45.5 | 45.5 | 46.0 | 46.4 | 46.0 | 45.6 |
| | 30 | 40.3 | 40.3 | 39.8 | 40.0 | 40.4 | 40.5 | 41.0 | 41.8 | 42.3 | 43.4 | 43.6 | 44.0 |
| | 31 | 38.4 | 38.4 | 38.4 | 38.5 | 39.0 | 39.3 | 39.1 | 38.8 | 38.0 | 37.6 | 37.8 | 37.5 |
| Hourly Means | 41.87 | 41.89 | 41.67 | 41.57 | 41.91 | 42.31 | 42.77 | 43.13 | 43.38 | 43.69 | 43.94 | 43.89 | |

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 577.0 | Sc. Div. 572.2 | Sc. Div. 570.5 | Sc. Div. 571.2 | Sc. Div. 568.9 | Sc. Div. 575.0 | Sc. Div. 574.8 | Sc. Div. 574.5 | Sc. Div. 575.2 | Sc. Div. 571.0 | Sc. Div. 571.9 | Sc. Div. 573.0 | Sc. Div. 569.50 |
| 572.1 | 573.0 | 573.3 | 575.2 | 575.8 | 575.0 | 574.5 | 576.0 | 576.2 | 578.8 | 577.6 | 578.0 | 570.77 |
| 575.6 | 576.0 | 575.3 | 571.0 | 575.4 | 574.0 | 575.0 | 571.0 | 570.7 | 574.0 | 574.4 | 574.5 | 572.49 |
| 577.1 | 577.9 | 577.7 | 579.2 | 576.9 | 575.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 586.4 | 586.9 | 586.8 | 587.6 | 584.6 | 588.1 | 576.96 |
| 590.6 | 591.0 | 590.4 | 590.7 | 589.7 | 590.0 | 590.8 | 591.4 | 592.0 | 594.1 | 595.0 | 594.3 | 591.13 |
| 589.2 | 589.1 | 586.5 | 587.0 | 586.5 | 587.8 | 587.7 | 586.8 | 590.0 | 587.8 | 589.0 | 589.0 | 591.30 |
| 584.8 | 580.8 | 580.0 | 578.7 | 578.0 | 575.1 | 576.0 | 576.0 | 580.0 | 580.0 | 584.0 | 589.0 | 584.19 |
| 559.8 | 554.2 | 584.5 | 557.0 | 573.0 | 557.6 | 558.5 | 558.0 | 559.5 | 558.0 | 561.7 | 565.7 | 572.38 |
| 569.5 | 561.0 | 562.7 | 565.4 | 563.7 | 567.9 | 568.6 | 568.4 | 566.9 | 571.0 | 571.5 | 570.8 | 566.23 |
| 573.7 | 574.4 | 575.7 | 568.9 | 570.2 | 583.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 578.5 ^a | 581.5 | 582.1 | 585.4 | 585.0 | 582.0 | 573.86 |
| 587.3 | 588.1 | 586.7 | 585.6 | 584.9 | 586.0 | 582.9 | 583.0 | 585.0 | 584.7 | 584.8 | 581.0 | 582.91 |
| 580.0 | 583.4 | 584.6 | 584.0 | 586.2 | 582.6 | 583.0 | 583.8 | 586.9 | 580.5 | 585.5 | 582.6 | 583.16 |
| 580.1 | 581.0 | 581.0 | 581.0 | 580.3 | 578.8 | 576.8 | 577.3 | 575.8 | 578.0 | 581.9 | 581.7 | 578.65 |
| 579.0 | 577.0 | 577.3 | 579.6 | 578.8 | 580.5 | 579.5 | 587.7 | 573.3 | 579.9 | 580.4 | 582.3 | 577.61 |
| 587.0 | 585.5 | 582.0 | 580.0 | 595.1 | 580.3 | 579.6 | 579.5 | 586.3 | 585.4 | 584.9 | 588.3 | 581.06 |
| 584.1 | 583.5 | 582.6 | 583.7 | 586.0 | 582.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 563.5 | 562.6 | 569.5 | 580.0 | 574.9 | 584.0 | 578.46 |
| 583.0 | 584.1 | 585.0 | 583.3 | 581.0 | 577.8 | 583.1 | 576.9 | 580.0 | 582.0 | 581.8 | 581.7 | 580.85 |
| 567.1 | 571.2 | 571.0 | 569.0 | 572.0 | 570.2 | 572.0 | 573.7 | 574.0 | 574.6 | 576.0 | 580.5 | 575.95 |
| 553.1 | 580.2 | 580.9 | 573.8 | 575.5 | 571.0 | 571.9 | 582.8 | 576.2 | 574.7 | 568.9 | 578.1 | 574.64 |
| 565.7 | 572.0 | 575.7 | 563.3 | 555.0 | 570.8 | 571.0 | 573.8 | 563.8 | 562.9 | 572.4 | 572.0 | 570.43 |
| 555.8 | 560.4 | 562.0 | 557.6 | 572.0 | 567.7 | 569.1 | 564.2 | 571.2 | 567.8 | 565.8 | 562.8 | 565.66 |
| 573.4 | 576.2 | 580.7 | 583.9 | 580.9 | 583.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 566.5 | 579.5 | 580.5 | 578.6 | 580.8 | 572.4 | 574.00 |
| 578.0 | 579.0 | 579.0 | 576.5 | 579.3 | 580.0 | 578.0 | 577.6 | 578.4 | 578.0 | 578.8 | 578.6 | 577.50 |
| 555.5 | 564.0 | 556.8 | 570.7 | 566.8 | 566.0 | 563.5 | 569.6 | 547.0 | 555.9 | 556.9 | 572.5 | 562.27 |
| 562.8 | 571.9 | 572.4 | 577.6 | 574.4 | 574.4 | 576.0 | 572.7 | 576.4 | 577.1 | 577.7 | 579.5 | 569.96 |
| 580.0 | 579.2 | 581.5 | 580.5 | 581.0 | 580.8 | 579.3 | 582.0 | 577.0 | 577.0 | 579.0 | 574.0 | 575.57 |
| 588.3 | 586.2 | 581.0 | 589.5 | 589.0 | 591.9 | 592.2 | 591.0 | 591.8 | 590.0 | 596.5 | 596.6 | 584.98 |
| 575.17 | 576.76 | 577.66 | 576.44 | 577.64 | 577.28 | 576.23 | 577.34 | 576.76 | 577.59 | 578.59 | 579.74 | 576.39 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| 45.5 | 45.5 | 45.2 | 44.7 | 45.0 | 45.5 | 46.0 | 46.2 | 46.0 | 46.2 | 46.4 | 46.0 | 45.38 |
| 45.2 | 44.8 | 44.6 | 44.5 | 44.5 | 44.4 | 44.2 | 43.8 | 43.7 | 43.5 | 43.5 | 43.5 | 44.79 |
| 45.5 | 45.3 | 45.4 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 45.6 | 45.0 | 44.90 |
| 44.6 | 44.2 | 44.1 | 44.1 | 44.2 | 44.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.6 | 37.4 | 37.2 | 37.2 | 37.2 | 37.6 | 42.48 |
| 36.8 | 36.0 | 36.0 | 35.6 | 35.2 | 35.2 | 35.2 | 34.8 | 35.0 | 34.8 | 35.0 | 34.8 | 35.69 |
| 40.0 | 40.0 | 39.4 | 39.3 | 39.1 | 39.0 | 39.0 | 39.0 | 38.8 | 38.8 | 38.9 | 38.5 | 37.90 |
| 41.6 | 41.6 | 41.5 | 41.0 | 40.5 | 40.4 | 40.1 | 40.1 | 40.4 | 40.9 | 41.4 | 41.5 | 40.67 |
| 47.5 | 47.0 | 46.8 | 46.4 | 46.4 | 46.0 | 45.5 | 45.6 | 44.8 | 44.5 | 44.2 | 44.2 | 45.35 |
| 46.0 | 45.5 | 45.3 | 45.2 | 45.2 | 45.3 | 45.0 | 44.6 | 44.4 | 44.2 | 44.2 | 43.5 | 44.80 |
| 45.5 | 45.4 | 45.6 | 45.4 | 44.6 | 44.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 36.7 ^a | 35.5 | 35.7 | 35.7 | 36.0 | 36.4 | 42.38 |
| 39.4 | 39.2 | 39.0 | 38.7 | 38.7 | 38.7 | 38.9 | 39.3 | 39.0 | 38.8 | 38.8 | 38.5 | 38.42 |
| 39.5 | 39.9 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 39.8 | 40.0 | 40.0 | 40.0 | 39.13 |
| 45.0 | 45.0 | 45.0 | 45.4 | 45.6 | 46.0 | 46.0 | 46.0 | 45.7 | 45.3 | 45.2 | 45.1 | 43.88 |
| 44.4 | 44.3 | 44.0 | 44.0 | 43.7 | 43.0 | 42.7 | 42.5 | 42.2 | 42.0 | 41.6 | 41.4 | 43.86 |
| 41.6 | 41.6 | 41.2 | 40.8 | 40.2 | 39.7 | 39.9 | 39.4 | 39.0 | 39.0 | 39.2 | 39.8 | 40.98 |
| 41.6 | 40.6 | 40.0 | 39.0 | 38.8 | 38.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33.3 | 33.4 | 33.4 | 34.0 | 35.0 | 35.3 | 39.39 |
| 39.9 | 40.2 | 40.5 | 40.4 | 41.2 | 41.4 | 42.0 | 42.0 | 42.4 | 42.4 | 43.0 | 42.4 | 39.56 |
| 45.5 | 46.0 | 46.0 | 46.0 | 45.8 | 45.5 | 45.5 | 45.3 | 45.2 | 45.3 | 45.3 | 45.3 | 44.61 |
| 48.4 | 48.3 | 48.2 | 48.0 | 47.7 | 47.0 | 47.0 | 46.4 | 45.9 | 45.5 | 45.5 | 45.5 | 46.60 |
| 46.7 | 46.7 | 46.6 | 46.8 | 46.2 | 46.2 | 46.5 | 46.0 | 46.0 | 46.2 | 46.7 | 47.0 | 46.39 |
| 49.2 | 49.2 | 49.1 | 48.6 | 48.2 | 48.0 | 47.8 | 47.5 | 47.3 | 46.7 | 46.0 | 45.0 | 47.92 |
| 42.5 | 41.6 | 41.3 | 40.5 | 39.6 | 39.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.4 | 38.0 | 38.0 | 38.6 | 39.0 | 39.0 | 41.14 |
| 44.8 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.7 | 45.6 | 45.6 | 45.8 | 45.8 | 43.70 |
| 49.5 | 49.5 | 49.5 | 49.0 | 48.5 | 48.2 | 48.0 | 48.0 | 47.6 | 47.2 | 47.0 | 46.0 | 47.90 |
| 45.0 | 44.6 | 44.3 | 43.4 | 42.6 | 41.6 | 41.4 | 41.2 | 41.0 | 41.0 | 40.6 | 40.4 | 43.86 |
| 43.6 | 42.6 | 42.6 | 41.7 | 41.2 | 40.7 | 40.0 | 39.0 | 39.0 | 38.5 | 37.8 | 38.0 | 40.92 |
| 36.6 | 35.6 | 35.2 | 34.6 | 34.0 | 33.2 | 32.4 | 30.5 | 30.5 | 30.5 | 30.0 | 29.4 | 35.55 |
| 43.76 | 43.54 | 43.40 | 43.13 | 42.89 | 42.72 | 41.87 | 41.60 | 41.47 | 41.42 | 41.44 | 41.29 | 42.52 |

^a Thirteen minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|-------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Faht. = .000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| FEBRUARY. | 1 | 596.6 | 599.6 | 597.5 | 593.3 | 587.3 | 584.0 | 583.8 | 589.6 | 595.5 | 600.2 | 599.1 | 601.4 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 602.3 | 605.0 | 599.2 | 599.6 | 591.1 | 585.8 | 586.2 | 591.0 | 594.0 | 597.0 | 599.0 | 597.0 |
| | 4 | 595.3 | 595.4 | 598.3 | 594.0 | 594.0 | 592.7 | 593.0 | 592.0 | 588.2 | 591.4 | 591.0 | 590.8 |
| | 5 | 598.4 | 599.9 | 598.4 | 602.0 | 586.3 | 584.5 | 594.5 | 594.7 | 596.8 | 600.4 | 601.6 | 601.2 |
| | 6 | 602.1 | 598.6 | 592.5 | 593.6 | 591.6 | 588.0 | 587.5 | 590.1 | 593.9 | 597.6 | 598.3 | 595.9 |
| | 7 | 596.6 | 598.6 | 595.7 | 594.1 | 585.7 | 587.4 | 589.9 | 595.2 | 599.2 | 597.6 | 587.5 | 588.5 |
| | 8 | 591.0 | 587.9 | 584.2 | 578.8 | 579.0 | 578.5 | 578.3 | 578.5 | 583.1 | 584.8 | 589.7 | 588.0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 587.2 | 589.0 | 589.0 | 586.3 | 582.5 | 577.7 | 583.9 | 583.0 | 584.5 | 584.5 | 587.0 | 588.5 |
| | 11 | 584.0 | 583.1 | 580.8 | 577.0 | 576.0 | 574.5 | 572.0 | 570.5 | 572.8 | 580.5 | 580.5 | 583.2 |
| | 12 | 580.0 | 575.0 | 578.0 | 572.7 | 569.4 | 565.6 | 567.0 | 569.2 | 573.4 | 579.1 | 585.1 | 586.8 |
| | 13 | 592.4 | 597.0 | 591.4 | 591.0 | 591.2 | 587.0 | 584.8 | 585.6 | 587.6 | 590.9 | 594.2 | 594.0 |
| | 14 | 597.7 | 599.1 | 599.0 | 598.2 | 594.2 | 590.4 | 585.5 | 586.4 | 589.7 | 593.7 | 596.0 | 597.8 |
| | 15 | 590.2 | 588.8 | 586.8 | 583.9 | 579.0 | 571.8 | 571.7 | 572.7 | 579.0 | 579.6 | 582.0 | 584.0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 590.0 | 590.2 | 587.9 | 584.0 | 579.5 | 577.3 | 573.7 | 579.6 | 582.0 | 584.6 | 582.0 | 580.0 |
| | 18 | 581.5 | 581.0 | 579.5 | 577.9 | 575.4 | 571.8 | 567.6 | 570.9 | 574.3 | 578.2 | 579.1 | 578.5 |
| | 19 | 577.8 | 579.8 | 580.9 | 576.8 | 577.2 | 574.3 | 569.5 | 568.4 | 573.4 ^b | 579.1 | 580.5 | 580.0 |
| | 20 | 588.5 | 577.3 | 575.5 | 575.7 | 577.0 | 577.4 ^b | 574.9 | 574.3 | 574.4 | 580.8 | 570.6 | 571.0 |
| | 21 | 571.0 | 580.0 | 577.5 | 565.7 | 569.1 | 565.9 | 554.9 | 551.0 | 565.0 | 566.5 | 571.7 | 565.6 |
| | 22 | 573.7 | 565.0 | 564.6 | 556.7 | 549.2 | 537.4 | 551.9 | 560.3 | 571.9 | 568.6 | 564.8 | 569.1 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 578.4 | 563.0 | 567.5 | 567.8 | 559.7 | 560.0 | 556.5 | 559.0 | 554.1 | 559.1 | 552.9 | 557.5 |
| | 25 | 565.7 | 569.6 | 545.5 | 546.6 | 562.1 | 559.6 | 564.2 | 541.7 | 567.6 | 564.4 | 562.1 | 571.4 |
| | 26 | 570.5 | 542.4 | 559.6 | 560.3 | 538.9 | 556.0 | 550.7 | 555.6 | 556.9 | 565.9 | 559.9 | 567.2 |
| | 27 | 577.2 | 573.1 | 568.1 | 565.6 | 561.1 | 559.1 | 559.5 | 563.5 | 556.1 | 542.0 | 563.0 | 560.0 |
| | 28 | 577.7 | 565.8 | 569.5 | 573.0 | 567.9 | 556.6 | 554.8 | 562.0 | 564.5 | 573.6 | 571.2 | 578.0 |
| Hourly Means | 577.74 | 579.34 | 581.95 | 575.61 | 576.02 | 573.47 | 573.18 | 574.37 | 578.25 | 572.50 | 577.03 | 573.98 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|------|
| FEBRUARY. | 1 | 29.0 | 29.2 | 28.4 | 28.2 | 28.5 | 29.6 | 30.6 | 32.0 | 32.7 | 33.7 | 34.7 | 35.2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 31.2 | 32.0 | 32.4 | 32.0 | 32.7 | 33.4 | 34.0 | 34.2 | 34.2 | 35.0 | 35.4 | 35.9 |
| | 4 | 36.5 | 36.5 | 36.3 | 36.0 | 36.6 | 37.4 | 38.8 | 39.4 | 39.0 | 39.5 | 39.5 | 39.2 |
| | 5 | 31.8 | 31.4 | 30.7 | 29.7 | 30.5 | 31.0 | 31.5 | 32.0 | 32.5 | 32.1 | 31.6 | 31.6 |
| | 6 | 32.4 | 32.4 | 31.4 | 31.2 | 32.0 | 32.6 | 33.0 | 33.5 | 33.6 | 33.2 | 33.0 | 32.7 |
| | 7 | 34.2 | 34.0 | 34.2 | 34.6 | 35.2 | 35.6 | 36.2 | 37.0 | 38.0 | 39.4 | 40.3 | 41.0 |
| | 8 | 39.0 | 38.6 | 38.0 | 38.2 | 39.1 | 40.0 | 40.0 | 39.7 | 41.0 | 42.0 | 43.0 | 43.4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 40.0 | 40.2 | 40.2 | 40.4 | 41.4 | 42.3 | 42.8 | 43.5 | 43.5 | 43.5 | 44.0 | 43.8 |
| | 11 | 43.2 | 43.2 | 43.2 | 43.6 | 44.0 | 44.5 | 45.5 | 45.7 | 46.0 | 46.3 | 46.3 | 45.5 |
| | 12 | 45.5 | 45.5 | 45.0 | 44.8 | 45.0 | 44.6 | 44.3 | 44.2 | 43.6 | 43.6 | 43.4 | 43.0 |
| | 13 | 35.7 | 34.4 | 34.6 | 34.0 | 34.6 | 35.2 | 36.0 | 36.9 | 36.5 | 36.6 | 36.9 | 36.7 |
| | 14 | 33.6 | 33.5 | 33.0 | 33.0 | 33.7 | 34.2 | 34.8 | 35.0 | 36.2 | 37.4 | 38.2 | 38.5 |
| | 15 | 42.7 | 43.0 | 42.7 | 43.5 | 44.5 | 45.0 | 45.4 | 45.7 | 46.4 | 46.8 | 47.2 | 47.0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 42.5 | 42.6 | 42.6 | 43.0 | 43.6 | 44.2 | 45.0 | 45.7 | 46.0 | 46.7 | 46.7 | 47.0 |
| | 18 | 47.0 | 47.0 | 47.0 | 46.5 | 47.3 | 48.2 | 48.7 | 49.6 | 49.8 | 49.8 | 50.4 | 50.8 |
| | 19 | 47.4 | 47.2 | 47.0 | 47.0 | 47.6 | 48.2 | 48.8 | 49.6 | 50.0 ^b | 50.1 | 50.1 | 49.6 |
| | 20 | 48.5 | 48.2 | 48.2 | 48.2 | 48.7 | 49.7 ^b | 50.2 | 50.4 | 50.6 | 50.5 | 50.6 | 50.3 |
| | 21 | 49.5 | 49.1 | 49.1 | 49.0 | 49.8 | 50.2 | 50.6 | 51.4 | 51.7 | 52.4 | 52.7 | 53.0 |
| | 22 | 52.5 | 52.4 | 52.6 | 52.8 | 53.0 | 53.0 | 53.0 | 53.2 | 53.5 | 53.4 | 53.0 | 52.4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 45.5 | 45.5 | 45.9 | 45.6 | 47.2 | 47.5 | 48.0 | 48.0 | 48.4 | 49.2 | 49.6 | 50.5 |
| | 25 | 48.4 | 48.2 | 48.6 | 49.4 | 49.8 | 50.6 | 51.2 | 51.6 | 52.0 | 52.8 | 53.5 | 53.6 |
| | 26 | 50.2 | 50.0 | 49.6 | 49.5 | 49.5 | 50.0 | 50.2 | 50.2 | 49.8 | 50.0 | 49.8 | 49.6 |
| | 27 | 45.5 | 45.2 | 45.5 | 46.2 | 47.5 | 48.4 | 49.0 | 49.2 | 49.5 | 50.0 | 50.3 | 50.0 |
| | 28 | 44.5 | 43.8 | 43.5 | 43.5 | 44.3 | 44.6 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.4 |
| Hourly Means | 41.51 | 41.38 | 41.24 | 41.25 | 41.92 | 42.50 | 43.05 | 43.47 | 43.75 | 44.15 | 44.40 | 44.40 | |

^a Seven minutes late.

^b Four minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|--------|
| One Scale Division = '000087 parts of the H. F. | | | | | | Change in the magnetic moment of the Bar for 1° Fah°. = '000234. | | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. | |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 597·0 | 598·5 | 596·0 | 592·0 | 591·9 | 593·0 | — | 597·9 | 596·9 | 600·0 | 599·3 | 601·6 | 600·9 | 595·54 |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 594·1 | 592·0 | 591·0 | 588·6 | 590·2 | 590·7 | 591·8 | 592·3 | 591·2 | 591·6 | 591·0 | 592·5 | 593·51 | |
| 589·8 | 589·3 | 588·0 | 589·2 | 590·8 | 592·0 | 592·1 | 592·7 | 593·9 | 595·4 | 596·8 | 593·8 | 592·50 | |
| 598·7 | 589·1 | 586·7 | 591·8 | 593·6 | 591·0 | 589·3 | 588·5 | 592·2 | 590·0 | 579·1 | 599·0 | 593·65 | |
| 595·2 | 595·0 | 596·1 | 594·9 | 593·5 | 593·2 | 597·4 | 597·0 | 595·2 | 591·3 | 595·0 | 597·9 | 594·64 | |
| 594·0 | 589·9 | 591·0 | 589·0 | 583·4 | 586·8 | 588·5 | 589·6 | 587·6 | 588·7 | 589·7 | 581·9 | 590·67 | |
| 585·1 | 583·1 | 580·2 | 579·2 | 583·6 | 582·6 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 603·0 | 587·2 | 588·9 | 590·6 | 586·7 | 587·6 | — | 584·98 |
| 586·5 | 585·8 | 582·0 | 583·7 | 591·9 | 586·0 | 583·0 | 582·9 | 582·8 | 582·8 | 582·9 | 583·3 | 583·3 | 584·86 |
| 585·2 | 583·1 | 585·4 | 582·5 | 582·0 | 581·0 | 583·6 | 582·2 | 581·2 | 581·9 | 579·8 | 584·0 | 584·0 | 580·28 |
| 584·9 | 580·5 | 576·3 | 582·8 | 582·6 | 585·2 | 585·1 | 591·5 | 590·0 | 589·5 | 592·0 | 592·4 | 592·4 | 570·59 |
| 593·4 | 594·7 | 589·9 | 593·0 | 595·0 | 594·0 | 594·6 | 593·4 | 595·7 | 595·9 | 595·0 | 598·1 | 598·1 | 592·49 |
| 596·0 | 595·2 | 594·0 | 587·8 | 592·7 | 591·0 | 590·6 | 591·2 | 591·8 | 591·0 | 591·5 | 590·3 | 590·3 | 592·95 |
| 589·7 | 584·8 | 584·5 | 582·7 | 582·0 | 579·4 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 583·9 | 584·0 | 585·7 | 585·3 | 586·0 | 588·5 | 588·5 | 582·75 |
| 581·8 | 583·0 | 582·2 | 582·6 | 582·6 | 582·0 | 580·3 | 580·6 | 581·7 | 580·2 | 581·3 | 581·2 | 581·2 | 582·10 |
| 575·9 | 574·3 | 575·5 | 575·9 | 573·9 | 573·8 | 575·0 | 577·0 | 577·0 | 578·0 | 579·0 | 579·8 | 579·8 | 576·28 |
| 578·0 | 571·9 | 573·3 | 575·9 | 575·1 | 576·7 | 576·0 | 577·7 | 578·5 | 577·8 | 579·6 | 586·2 | 586·2 | 576·85 |
| 573·0 | 571·0 | 570·0 | 569·7 | 569·7 | 571·7 | 565·7 | 557·0 | 560·4 | 566·2 | 570·4 | 569·6 | 569·6 | 572·16 |
| 561·6 | 572·4 | 564·9 | 569·2 | 564·2 | 571·2 | 567·0 | 569·9 | 566·2 | 564·9 | 565·5 | 568·0 | 568·0 | 567·04 |
| 569·8 | 569·1 | 565·7 | 562·5 | 566·3 | 561·7 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 563·0 | 550·8 | 572·8 | 565·5 | 569·8 | 569·0 | 569·0 | 563·30 |
| 560·5 | 552·4 | 556·2 | 565·7 | 561·7 | 560·4 | 556·0 | 555·0 | 565·0 | 566·0 | 568·0 | 566·4 | 566·4 | 561·20 |
| 553·9 | 561·0 | 558·1 | 557·8 | 557·5 | 556·0 | 581·5 | 557·7 | 554·6 | 558·0 | 546·4 | 568·4 | 568·4 | 559·64 |
| 562·3 | 570·4 | 571·9 | 573·8 | 572·8 | 567·8 | 565·9 | 571·9 | 573·2 | 567·9 | 574·2 | 572·5 | 572·5 | 563·69 |
| 567·6 | 571·7 | 573·8 | 569·9 | 576·0 | 574·6 | 573·5 | 574·7 | 575·5 | 573·9 | 577·3 | 579·7 | 579·7 | 568·19 |
| 582·6 | 574·6 | 563·1 | 575·1 | 577·9 | 577·5 | 577·2 | 576·8 | 575·6 | 577·4 | 578·9 | 579·0 | 579·0 | 572·10 |
| 581·53 | 580·53 | 578·99 | 579·80 | 580·45 | 579·97 | 577·58 | 579·94 | 577·36 | 581·21 | 577·40 | 579·58 | 579·58 | 580·08 |

TEMPERATURE OF THE BIFILAR MAGNET.

| ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 35·0 | 35·0 | 34·6 | 35·0 | 35·4 | 35·0 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 29·3 | 30·0 | 30·0 | 30·0 | 30·2 | 30·2 | 30·2 | 31·73 |
| 36·0 | 36·4 | 36·4 | 36·1 | 35·9 | 36·0 | 35·7 | 35·4 | 35·2 | 35·4 | 36·2 | 36·2 | 36·2 | 34·72 |
| 39·2 | 39·4 | 38·8 | 37·2 | 36·6 | 36·2 | 35·6 | 34·0 | 33·6 | 33·5 | 33·1 | 32·2 | 32·2 | 36·84 |
| 32·0 | 32·0 | 31·8 | 31·0 | 30·8 | 31·0 | 31·0 | 30·8 | 30·9 | 30·9 | 31·5 | 32·0 | 32·0 | 31·34 |
| 32·7 | 33·0 | 33·0 | 33·0 | 32·9 | 33·1 | 33·5 | 34·0 | 34·5 | 34·6 | 34·6 | 34·0 | 34·0 | 33·08 |
| 41·0 | 40·5 | 40·3 | 40·5 | 41·5 | 41·5 | 41·7 | 41·3 | 41·5 | 41·0 | 40·0 | 39·2 | 39·2 | 38·74 |
| 43·0 | 43·0 | 42·5 | 41·5 | 41·2 | 40·8 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37·5 | 37·8 | 38·6 | 39·8 | 40·0 | 40·0 | 40·0 | 40·32 |
| 43·8 | 43·3 | 43·3 | 43·3 | 43·8 | 44·0 | 44·5 | 43·6 | 43·5 | 43·5 | 43·3 | 43·4 | 43·4 | 42·87 |
| 45·2 | 45·4 | 46·0 | 46·0 | 46·0 | 45·8 | 45·5 | 45·5 | 45·5 | 45·5 | 45·6 | 45·5 | 45·5 | 45·19 |
| 42·0 | 41·3 | 41·0 | 40·4 | 39·6 | 38·5 | 37·5 | 37·0 | 37·0 | 36·6 | 36·0 | 35·8 | 35·8 | 41·47 |
| 36·5 | 36·2 | 36·2 | 35·5 | 35·5 | 35·5 | 35·5 | 35·7 | 35·3 | 35·5 | 34·7 | 34·0 | 34·0 | 35·59 |
| 38·5 | 39·0 | 39·5 | 39·8 | 40·2 | 40·4 | 40·7 | 41·3 | 41·5 | 42·0 | 42·8 | 42·5 | 42·5 | 37·89 |
| 46·8 | 47·0 | 47·3 | 47·5 | 47·6 | 47·2 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 42·5 | 42·0 | 42·1 | 42·3 | 42·4 | 42·4 | 42·4 | 44·87 |
| 46·8 | 46·6 | 46·6 | 46·2 | 46·3 | 46·3 | 46·5 | 46·5 | 46·5 | 46·6 | 46·9 | 46·9 | 46·9 | 45·60 |
| 50·6 | 50·0 | 49·6 | 49·5 | 48·6 | 48·0 | 47·8 | 47·2 | 47·2 | 47·2 | 47·2 | 47·2 | 47·2 | 48·42 |
| 49·6 | 49·2 | 48·8 | 48·4 | 48·2 | 48·4 | 48·6 | 48·4 | 48·8 | 48·8 | 48·5 | 48·6 | 48·6 | 48·62 |
| 50·2 | 50·4 | 50·5 | 50·5 | 50·3 | 50·2 | 50·2 | 49·8 | 49·6 | 49·6 | 49·8 | 50·0 | 50·0 | 49·80 |
| 53·2 | 52·2 | 53·0 | 53·0 | 53·0 | 52·5 | 52·5 | 52·2 | 52·0 | 52·0 | 52·0 | 52·0 | 52·0 | 51·59 |
| 52·2 | 51·8 | 51·6 | 51·2 | 50·7 | 50·3 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45·9 | 45·8 | 45·5 | 45·7 | 45·8 | 45·5 | 45·5 | 50·70 |
| 50·4 | 50·1 | 49·9 | 49·5 | 49·1 | 48·9 | 48·5 | 48·4 | 48·4 | 48·4 | 48·4 | 48·4 | 48·4 | 48·30 |
| 53·5 | 53·3 | 53·1 | 53·0 | 52·9 | 52·5 | 52·2 | 52·2 | 52·0 | 51·7 | 51·4 | 50·6 | 50·6 | 51·59 |
| 49·4 | 49·0 | 48·5 | 48·6 | 48·8 | 48·3 | 48·0 | 47·4 | 47·0 | 46·6 | 46·5 | 45·6 | 45·6 | 48·84 |
| 49·0 | 48·3 | 47·8 | 46·8 | 46·0 | 45·6 | 45·5 | 45·0 | 45·0 | 45·0 | 44·6 | 44·4 | 44·4 | 47·05 |
| 45·2 | 44·8 | 44·6 | 44·0 | 44·0 | 44·1 | 44·0 | 44·0 | 43·9 | 44·2 | 44·6 | 44·6 | 44·6 | 44·55 |
| 44·24 | 44·05 | 43·95 | 43·65 | 43·54 | 43·34 | 42·51 | 42·30 | 42·30 | 42·35 | 42·34 | 42·13 | 42·13 | 42·90 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = .000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 578.8 | 578.0 | 574.6 | 569.6 | 562.6 | 559.8 | 558.0 | 562.9 | 567.5 | 572.1 | 578.7 | 575.9 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 577.5 | 576.5 | 573.8 | 571.3 | 568.5 | 567.8 | 565.8 | 570.2 | 576.1 | 574.5 | 579.4 | 580.0 |
| | 4 | 583.9 | 583.0 | 580.5 | 572.2 | 568.4 | 561.8 | 563.4 | 567.3 | 573.0 | 577.9 | 578.0 | 574.8 |
| | 5 | 577.6 | 578.1 | 573.9 | 570.0 | 565.1 | 562.5 | 562.0 | 565.0 | 571.0 | 578.1 | 577.9 | 577.7 |
| | 6 | 583.0 | 582.6 | 580.0 | 576.0 | 570.9 | 568.0 | 566.2 | 569.6 | 574.5 | 579.6 | 580.0 | 578.7 |
| | 7 | 580.1 | 577.0 | 573.0 | 572.8 | 569.5 | 565.8 | 563.9 | 561.6 | 568.0 | 579.0 | 582.2 | 570.7 |
| | 8 | 576.8 | 575.7 | 570.0 | 560.6 | 554.4 | 550.1 | 551.6 | 555.2 | 560.7 | 564.2 | 571.7 | 572.0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 579.8 | 578.2 | 572.6 | 565.7 | 566.3 | 562.8 | 565.0 | 564.6 | 565.3 | 574.3 | 575.0 | 578.8 |
| | 11 | 580.5 | 579.5 | 576.8 | 575.0 | 570.0 | 571.5 | 569.9 | 563.1 | 571.0 | 571.0 | 568.9 | 571.6 |
| | 12 | 581.0 | 579.8 | 574.4 | 570.3 | 565.5 | 562.0 | 558.0 | 561.8 | 566.4 | 569.7 | 573.8 | 579.6 |
| | 13 | 578.0 | 579.5 | 577.0 | 571.7 | 566.0 | 563.7 | 560.3 | 558.2 | 565.7 | 567.8 | 573.9 | 578.4 |
| | 14 | 575.7 | 571.0 | 569.5 | 570.8 | 568.4 | 563.5 | 562.1 | 555.8 | 562.0 | 565.9 | 563.9 | 575.9 |
| | 15 | 582.5 | 574.6 | 575.8 | 570.6 | 574.5 | 572.5 | 568.6 | 575.8 | 574.9 | 577.5 | 590.6 | 585.4 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 590.5 | 587.4 | 585.4 | 580.9 | 575.5 | 568.7 | 579.0 | 583.5 | 583.8 | 582.8 | 582.5 | 577.5 |
| | 18 | 589.1 | 584.5 | 581.0 | 570.0 | 565.7 | 561.9 | 573.0 | 587.5 | 582.5 | 589.4 | 577.4 | 572.2 |
| | 19 | 590.0 | 588.0 | 585.0 | 579.7 | 578.7 | 575.4 | 567.3 | 568.1 | 571.5 | 578.2 | 578.3 | 573.8 |
| | 20 | 597.6 | 595.5 | 589.1 | 580.1 | 577.2 | 553.7 | 545.0 | 572.8 | 579.3 | 580.2 | 577.5 | 576.0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 583.0 | 580.5 | 575.3 | 561.6 | 561.0 | 561.0 | 568.0 | 573.0 | 577.6 | 579.4 | 577.5 | 578.8 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 578.3 | 564.0 | 576.5 | 575.2 | 561.4 | 548.7 | 549.6 | 570.7 | 566.1 | 561.4 | 574.3 | 576.3 |
| | 25 | 568.7 | 571.0 | 567.6 | 561.9 | 559.2 | 550.3 | 558.8 | 569.0 | 571.7 | 573.0 | 575.3 | 573.0 |
| | 26 | 573.7 | 571.2 | 562.3 | 567.7 | 558.3 | 552.8 ^c | 548.3 | 548.6 | 557.2 | 567.0 | 573.0 | 575.0 |
| | 27 | 571.5 | 566.8 | 550.3 | 559.9 | 548.0 | 531.8 | 549.8 | 548.0 | 559.8 | 568.3 | 562.0 | 555.0 |
| | 28 | 568.0 | 563.0 | 556.2 | 557.5 | 550.5 | 546.7 | 549.5 | 551.8 | 552.6 | 561.4 | 555.5 | 563.7 |
| | 29 | 565.0 | 561.3 | 557.8 | 551.6 | 552.5 | 548.5 | 550.0 | 551.7 | 557.1 | 561.7 | 561.2 | 558.5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 563.6 | 564.0 | 560.7 | 558.8 | 550.5 | 552.3 | 557.1 | 559.2 | 563.0 | 565.8 | 568.6 | 567.0 |
| Hourly Means | 578.97 | 576.43 | 572.76 | 568.86 | 564.34 | 559.34 | 560.41 | 564.60 | 568.73 | 572.81 | 574.28 | 573.85 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|------|
| MARCH. | 1 | 44.5 | 44.5 | 44.3 | 45.6 | 46.5 | 47.4 | 47.1 | 47.6 | 48.0 | 48.8 | 49.8 | 50.5 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 46.2 | 46.2 | 46.0 | 45.4 | 45.2 | 45.5 | 45.6 | 45.6 | 45.6 | 46.4 | 46.5 | 46.5 |
| | 4 | 43.8 | 43.6 | 44.4 | 45.1 | 46.0 | 46.5 | 46.7 | 47.0 | 48.0 | 49.4 | 49.5 | 49.5 |
| | 5 | 46.1 | 45.7 | 45.5 | 45.1 | 45.5 | 45.7 | 46.5 | 46.9 | 47.0 | 48.2 | 49.0 | 48.8 |
| | 6 | 46.1 | 45.0 | 46.0 | 47.0 | 48.4 | 48.6 | 48.6 | 48.8 | 49.3 | 50.3 | 50.6 | 51.2 |
| | 7 | 47.0 | 47.0 | 47.2 | 48.4 | 49.3 | 49.8 | 50.4 | 50.8 | 51.0 | 51.0 | 50.6 | 50.6 |
| | 8 | 51.0 | 51.0 | 51.0 | 51.2 | 51.6 | 52.2 | 53.0 | 54.0 | 54.2 | 54.7 | 54.9 | 54.6 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 44.0 | 43.6 | 43.6 | 43.6 | 44.2 | 45.1 | 45.7 | 46.8 | 46.9 | 47.4 | 47.5 | 47.5 |
| | 11 | 45.0 | 44.7 | 45.6 | 46.1 | 46.9 | 47.7 | 48.2 | 49.0 | 49.0 | 49.9 | 50.5 | 50.5 |
| | 12 | 46.5 | 45.9 | 45.8 | 46.0 | 47.4 | 48.2 | 48.2 | 48.3 | 49.3 | 49.6 | 50.0 | 49.6 |
| | 13 | 47.2 | 46.6 | 46.6 | 47.5 | 48.2 | 48.8 | 49.3 | 50.2 | 50.8 | 51.6 | 52.4 | 52.6 |
| | 14 | 48.8 | 48.4 | 48.0 | 47.8 | 48.4 | 49.0 | 49.6 | 49.9 | 50.2 | 50.2 | 50.1 | 49.8 |
| | 15 | 41.0 | 40.4 | 39.6 | 39.4 | 39.2 | 39.2 | 39.4 | 39.5 | 39.5 | 39.5 | 39.8 | 39.5 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 38.5 | 38.8 | 39.5 | 40.4 | 41.2 | 41.6 | 42.7 | 43.0 | 43.5 | 43.6 | 43.8 | 43.8 |
| | 18 | 41.0 | 40.7 | 40.2 | 40.0 | 40.5 | 41.2 | 41.7 | 42.4 | 42.4 | 42.5 | 42.5 | 42.0 |
| | 19 | 39.0 | 38.8 | 39.2 | 39.4 | 39.4 | 39.6 | 40.0 | 40.4 | 40.6 | 40.6 | 41.0 | 40.9 |
| | 20 | 40.8 | 41.2 | 41.5 | 42.0 | 42.4 | 44.0 | 44.2 | 43.5 | 44.2 | 44.2 | 44.4 | 44.2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 41.4 | 41.5 | 42.5 | 43.7 | 44.5 | 45.5 | 45.5 | 46.0 | 46.0 | 46.4 | 47.5 | 49.0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 45.0 | 45.0 | 45.4 | 45.3 | 45.7 | 45.8 | 46.4 | 47.4 | 48.0 | 48.4 | 48.8 | 48.6 |
| | 25 | 47.2 | 46.8 | 46.8 | 47.8 | 48.6 | 49.4 | 49.5 | 50.0 | 50.6 | 51.4 | 51.5 | 51.7 |
| | 26 | 49.0 | 48.6 | 48.8 | 48.8 | 49.0 | 49.5 ^c | 49.9 | 50.0 | 50.4 | 50.9 | 51.6 | 52.0 |
| | 27 | 51.3 | 51.3 | 51.6 | 52.5 | 54.0 | 55.0 | 55.4 | 56.2 | 56.9 | 57.4 | 57.4 | 57.3 |
| | 28 | 53.0 | 52.6 | 52.6 | 53.0 | 53.5 | 54.0 | 54.5 | 55.0 | 55.5 | 55.2 | 55.6 | 56.8 |
| | 29 | 53.0 | 52.7 | 53.0 | 54.0 | 54.5 | 55.4 | 56.4 | 57.4 | 58.2 | 59.8 | 60.6 | 60.2 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 56.0 | 55.4 | 55.8 | 55.6 | 56.4 | 57.0 | 57.7 | 58.4 | 58.8 | 58.8 | 59.8 | 59.9 |
| Hourly Means | 46.10 | 45.84 | 46.02 | 46.43 | 47.06 | 47.67 | 48.09 | 48.56 | 48.96 | 49.45 | 49.83 | 49.50 | |

^a Twelve minutes late.

^b Good Friday.

^c Four minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 572·7 | Sc. Div. 571·3 | Sc. Div. 573·2 | Sc. Div. 572·0 | Sc. Div. 571·0 | Sc. Div. 571·8 | — | — | — | — | — | — | Sc. Div. 571·73 |
| — | — | — | — | — | — | 572·4 | 577·8 | 575·0 | 573·5 | 576·8 | 575·5 | 576·37 |
| 582·8 | 582·2 | 579·8 | 577·3 | 577·3 | 578·6 | 578·0 | 575·5 | 580·0 | 577·6 | 580·7 | 581·6 | 575·51 |
| 577·0 | 576·8 | 578·5 | 578·8 | 577·6 | 575·8 | 575·8 | 577·2 | 577·8 | 578·0 | 577·6 | 577·1 | 575·00 |
| 578·0 | 576·6 | 577·7 | 577·0 | 577·6 | 577·3 | 577·2 | 578·0 | 578·7 | 579·9 | 581·0 | 582·0 | 577·48 |
| 578·6 | 577·8 | 578·2 | 578·6 | 576·8 | 577·5 | 578·8 | 580·5 | 580·0 | 581·0 | 581·6 | 581·0 | 573·36 |
| 574·9 | 579·0 | 575·1 | 575·3 | 575·2 | 574·5 | 572·8 | 572·0 | 574·0 | 572·8 | 576·0 | 574·8 | — |
| 571·6 | 570·7 | 571·0 | 567·0 | 563·2 | 567·0 | — | — | — | — | — | — | 567·04 |
| — | — | — | — | — | — | 569·9 ⁿ | 568·5 | 568·0 | 573·6 | 575·5 | 580·0 | — |
| 575·8 | 576·3 | 576·2 | 575·0 | 575·4 | 575·6 | 576·8 | 577·2 | 577·8 | 578·0 | 578·2 | 580·5 | 573·80 |
| 570·8 | 569·9 | 571·6 | 575·4 | 575·7 | 575·8 | 576·4 | 578·5 | 578·0 | 578·2 | 579·0 | 577·9 | 574·00 |
| 579·2 | 578·4 | 577·0 | 578·3 | 578·8 | 578·2 | 578·0 | 574·9 | 575·5 | 573·3 | 575·3 | 575·0 | 573·51 |
| 574·6 | 576·1 | 575·8 | 573·4 | 568·5 | 567·0 | 574·9 | 577·0 | 568·9 | 560·8 | 564·7 | 576·6 | 570·77 |
| 561·8 | 568·6 | 571·0 | 567·3 | 572·9 | 569·9 | 575·0 | 573·6 | 573·8 | 574·6 | 568·5 | 581·7 | 569·30 |
| 587·0 | 588·6 | 586·5 | 581·8 | 582·0 | 586·9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 581·8 | 589·2 | 588·3 | 586·6 | 573·8 | 591·8 | 581·15 |
| 572·6 | 572·0 | 580·5 | 581·7 | 582·3 | 583·2 | 584·6 | 586·0 | 583·3 | 582·3 | 584·3 | 583·0 | 581·39 |
| 584·0 | 586·4 | 586·8 | 584·2 | 582·2 | 581·5 | 584·4 | 583·0 | 582·8 | 588·8 | 587·5 | 589·0 | 581·45 |
| 575·4 | 582·0 | 563·1 | 584·0 | 563·3 | 571·8 | 566·5 | 570·9 | 582·6 | 581·6 | 581·6 | 570·4 | 576·13 |
| 578·9 | 575·0 | 579·9 | 562·0 | 564·8 | 575·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 577·3 | 582·0 | 581·8 | 582·2 | 576·50 |
| 577·1 | 576·2 | 576·5 | 570·3 | 575·0 | 576·7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 582·8 | 578·5 | 571·8 | 574·0 | 574·4 | 579·5 | 574·56 |
| 559·8 | 539·1 | 547·4 | 557·7 | 553·8 | 554·2 | 565·6 | 562·5 | 564·0 | 568·0 | 570·0 | 570·4 | 563·13 |
| 572·0 | 564·0 | 563·0 | 567·5 | 566·0 | 565·0 | 568·0 | 568·6 | 569·6 | 567·6 | 566·8 | 567·2 | 566·87 |
| 560·0 | 562·0 | 575·0 | 576·5 | 566·5 | 565·4 | 573·8 | 569·0 | 570·0 | 568·8 | 568·4 | 571·0 | 565·90 |
| 557·6 | 557·7 | 559·7 | 565·9 | 560·0 | 560·0 | 561·2 | 561·8 | 565·1 | 566·5 | 567·2 | 568·0 | 559·25 |
| 563·2 | 562·3 | 561·2 | 562·9 | 563·0 | 562·4 | 558·1 | 559·0 | 562·8 | 561·0 | 561·0 | 560·0 | 558·89 |
| 550·4 | 554·8 | 558·4 | 559·9 | 558·2 | 557·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 560·0 | 560·0 | 560·0 | 560·0 | 563·0 | 561·6 | 557·51 |
| 566·0 | 560·2 | 560·0 | 559·0 | 560·0 | 557·0 | 556·5 | 560·7 | 560·0 | 555·6 | 560·8 | 560·6 | 560·29 |
| 572·07 | 571·36 | 572·15 | 572·35 | 570·68 | 571·40 | 572·89 | 573·33 | 573·80 | 573·76 | 574·22 | 575·94 | 571·22 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 50·3 | 51·1 | 50·0 | 49·8 | 49·4 | 49·0 | — | — | — | — | — | — | 47·36 |
| — | — | — | — | — | — | 45·6 | 45·6 | 45·2 | 45·2 | 45·6 | 46·3 | — |
| 46·4 | 46·2 | 46·2 | 45· | 45·0 | 44·8 | 45·0 | 45·0 | 45·0 | 45·0 | 44·8 | 44·4 | 45·58 |
| 48·8 | 48·6 | 48·6 | 48·6 | 48·5 | 48·5 | 48·5 | 47·6 | 47·6 | 47·8 | 48·0 | 47·6 | 47·42 |
| 48·6 | 48·6 | 49·0 | 49·0 | 49·2 | 48·8 | 48·4 | 47·5 | 47·0 | 47·0 | 46·8 | 46·2 | 47·34 |
| 51·0 | 50·4 | 49·6 | 48·8 | 48·0 | 47·6 | 47·5 | 47·5 | 47·2 | 47·3 | 47·3 | 47·0 | 48·30 |
| 50·5 | 50·6 | 50·6 | 50·5 | 51·1 | 51·3 | 51·2 | 50·9 | 50·6 | 50·6 | 50·6 | 50·6 | 50·09 |
| 54·0 | 53·5 | 53·5 | 53·5 | 53·0 | 52·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45·4 | 45·7 | 45·7 | 45·5 | 45·7 | 44·2 | 51·07 |
| 47·0 | 48·0 | 48·0 | 47·8 | 48·0 | 47·7 | 47·4 | 46·2 | 45·6 | 45·2 | 45·4 | 45·0 | 46·13 |
| 49·6 | 49·7 | 49·5 | 48·4 | 48·2 | 48·2 | 47·6 | 47·0 | 46·6 | 46·6 | 46·5 | 46·1 | 47·80 |
| 49·4 | 49·2 | 49·2 | 49·0 | 49·0 | 48·7 | 48·7 | 48·5 | 48·4 | 48·5 | 48·2 | 47·5 | 48·30 |
| 52·4 | 51·5 | 50·9 | 50·5 | 50·0 | 49·7 | 49·7 | 49·6 | 49·0 | 49·0 | 49·0 | 48·7 | 49·66 |
| 49·4 | 48·2 | 47·4 | 46·0 | 45·1 | 44·5 | 44·0 | 43·7 | 43·0 | 42·8 | 41·6 | 41·2 | 46·96 |
| 39·1 | 39·5 | 39·9 | 40·0 | 39·8 | 39·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37·4 | 37·4 | 37·6 | 37·8 | 38·8 | 38·8 | 39·21 |
| 43·5 | 43·2 | 42·9 | 42·4 | 42·0 | 42·2 | 42·2 | 42·2 | 41·8 | 41·4 | 41·4 | 41·0 | 41·94 |
| 41·5 | 41·0 | 40·6 | 39·9 | 39·7 | 39·5 | 39·5 | 39·4 | 39·2 | 39·4 | 39·4 | 39·0 | 40·63 |
| 41·0 | 40·8 | 40·9 | 40·9 | 41·0 | 42·0 | 42·0 | 42·0 | 41·8 | 41·6 | 41·2 | 41·4 | 40·65 |
| 43·7 | 43·4 | 43·4 | 44·0 | 44·0 | 43·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 40·8 | 40·8 | 41·4 | 41·4 | 42·87 |
| 49·0 | 47·8 | 46·8 | 46·7 | 46·6 | 46·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45·2 | 45·0 | 45·0 | 45·0 | 45·0 | 45·0 | 45·55 |
| 48·4 | 48·0 | 48·0 | 48·2 | 48·5 | 48·7 | 48·2 | 48·0 | 48·0 | 47·3 | 47·0 | 47·0 | 47·30 |
| 51·8 | 51·4 | 50·8 | 50·5 | 50·5 | 50·5 | 50·5 | 50·8 | 50·3 | 50·3 | 49·6 | 49·0 | 49·89 |
| 52·0 | 52·0 | 52·0 | 51·7 | 51·6 | 51·7 | 51·7 | 51·5 | 51·6 | 51·9 | 51·8 | 51·5 | 50·81 |
| 57·0 | 56·6 | 56·0 | 55·0 | 54·4 | 54·0 | 54·0 | 53·5 | 53·5 | 53·5 | 53·2 | 53·0 | 54·58 |
| 56·6 | 56·4 | 55·6 | 55·2 | 54·5 | 54·3 | 53·7 | 53·5 | 53·8 | 53·8 | 53·5 | 53·2 | 54·39 |
| 60·8 | 60·3 | 60·0 | 59·4 | 59·0 | 58·9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56·3 | 56·0 | 56·0 | 55·7 | 55·5 | 56·0 | 57·05 |
| 59·9 | 59·5 | 59·2 | 58·7 | 58·7 | 58·5 | 58·5 | 58·2 | 58·4 | 58·2 | 58·0 | 57·6 | 58·04 |
| 49·67 | 49·38 | 49·14 | 48·80 | 48·59 | 48·44 | 47·84 | 47·60 | 47·15 | 47·09 | 47·01 | 46·75 | 47·97 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = .000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| APRIL. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| | 1 | 561.2 | 558.0 | 553.8 | 556.8 | 560.2 | 562.5 | 566.9 | 566.8 | 572.5 | 564.7 | 571.1 | 571.2 |
| | 2 | 573.1 | 572.8 | 567.8 | 561.5 | 559.1 | 562.5 | 567.3 | 569.3 | 570.0 | 573.0 | 576.0 | 576.4 |
| | 3 | 578.0 | 577.0 | 571.9 | 567.0 | 562.0 | 568.5 | 567.5 | 572.7 | 573.6 | 565.7 | 573.0 | 570.2 |
| | 4 | 576.0 | 572.5 | 573.5 | 560.0 | 554.6 | 555.6 | 559.7 | 566.0 | 569.2 | 577.6 | 577.4 | 576.3 |
| | 5 | 580.0 | 575.7 | 571.6 | 566.2 | 558.8 | 557.3 | 559.5 | 564.0 | 570.0 | 574.0 | 576.9 | 579.0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 585.9 | 585.3 | 581.3 | 572.0 | 567.2 | 565.6 | 564.5 | 572.4 | 577.8 | 580.7 | 586.1 | 589.0 |
| | 8 | 587.4 | 587.0 | 583.1 | 574.9 | 566.4 | 564.0 | 565.0 | 569.5 | 579.0 | 587.0 | 594.5 | 590.0 |
| | 9 | 590.0 | 589.0 | 586.7 | 579.0 | 566.4 | 557.8 | 557.4 | 564.4 | 570.4 | 580.4 | 585.8 | 589.0 |
| | 10 | 585.0 | 585.5 | 582.0 | 575.6 | 563.7 | 557.2 | 552.8 | 558.6 | 565.9 | 571.5 | 579.0 | 581.2 |
| | 11 | 577.8 | 582.6 | 580.6 | 577.9 | 568.6 | 563.4 | 563.6 | 561.7 | 570.4 | 575.8 | 581.8 | 578.5 |
| | 12 | 584.5 | 587.5 | 578.8 | 567.0 | 558.1 | 556.0 | 559.6 | 564.4 | 567.1 | 568.0 | 572.8 | 574.0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 556.5 | 544.0 | 547.3 | 542.4 | 537.8 | 551.6 | 537.4 | 526.8 | 549.3 | 556.9 | 557.0 | 559.5 |
| | 15 | 555.1 | 555.6 | 556.0 | 550.0 | 548.5 | 546.5 | 548.3 | 552.5 | 556.3 | 547.2 | 559.6 | 557.4 |
| | 16 | 558.5 | 555.0 | 555.0 | 549.8 | 546.0 | 543.6 | 550.2 | 554.2 | 560.0 | 559.2 | 561.6 | 561.7 |
| | 17 | 563.0 | 561.8 | 560.0 | 550.9 | 545.6 | 548.6 | 551.4 | 556.6 | 561.9 | 565.5 | 565.4 | 565.2 |
| | 18 | 568.9 | 565.2 | 561.2 | 551.2 | 545.1 | 555.5 | 561.2 | 569.8 | 570.0 | 565.2 | 564.0 | 559.0 |
| | 19 | 564.7 | 563.3 | 559.2 | 559.9 | 550.6 | 540.8 | 543.5 | 552.9 | 570.5 | 550.0 | 567.5 | 556.5 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 562.6 | 562.0 | 557.0 | 549.5 | 544.0 | 546.0 | 555.5 | 558.0 | 562.0 | 555.6 | 563.3 | 568.3 |
| | 22 | 566.5 | 565.9 | 556.5 | 542.6 | 540.0 ^b | 542.6 | 550.5 | 555.0 | 558.7 | 560.4 | 563.6 | 561.8 |
| | 23 | 565.0 | 562.4 | 561.5 | 551.5 | 537.0 | 531.5 | 534.1 | 546.5 | 558.5 | 573.4 | 555.0 | 559.8 |
| | 24 | 559.4 | 559.8 | 558.9 | 555.5 | 536.3 | 536.8 | 533.6 | 537.4 | 548.6 | 549.5 | 553.0 | 552.0 |
| | 25 | 537.2 | 546.8 | 551.2 | 542.8 | 533.7 | 529.7 | 530.5 | 543.0 | 548.5 | 554.0 | 561.0 | 556.7 |
| | 26 | 562.7 | 560.8 | 552.3 | 549.0 | 540.5 | 538.9 | 543.0 | 551.3 | 560.8 | 564.6 | 567.8 | 564.4 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 548.0 | 534.5 | 533.0 | 530.5 | 522.6 | 535.0 | 542.7 | 541.5 | 551.8 | 556.0 | 560.9 | 557.3 |
| | 29 | 561.7 | 557.0 | 549.8 | 539.6 | 535.0 | 533.4 | 538.2 | 542.2 | 548.2 | 550.7 | 553.8 | 552.2 |
| | 30 | 557.4 | 558.2 | 548.9 | 540.7 | 540.6 | 537.7 | 544.8 | 551.0 | 561.8 | 562.5 | 564.8 | 550.8 |
| Hourly Means | 567.93 | 566.35 | 563.04 | 556.30 | 549.58 | 549.64 | 551.87 | 556.48 | 563.58 | 564.97 | 568.95 | 567.59 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| APRIL. | 1 | 57.4 | 56.8 | 56.2 | 55.2 | 54.5 | 54.0 | 53.7 | 53.2 | 53.2 | 53.2 | 52.7 | 52.7 |
| | 2 | 49.0 | 49.0 | 49.5 | 50.5 | 51.5 | 52.0 | 52.4 | 52.5 | 52.5 | 52.7 | 53.0 | 53.2 |
| | 3 | 46.5 | 46.5 | 47.0 | 47.7 | 48.5 | 49.0 | 49.5 | 49.7 | 50.0 | 50.4 | 50.4 | 50.6 |
| | 4 | 48.6 | 49.1 | 49.5 | 50.0 | 50.0 | 50.2 | 50.4 | 51.0 | 51.0 | 51.0 | 51.2 | 51.0 |
| | 5 | 46.4 | 46.6 | 46.2 | 46.0 | 46.4 | 46.8 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 46.4 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 40.8 | 40.4 | 40.4 | 40.6 | 41.0 | 41.7 | 42.7 | 44.0 | 44.5 | 45.5 | 45.9 | 46.2 |
| | 8 | 39.3 | 39.2 | 39.2 | 38.7 | 38.5 | 39.5 | 40.0 | 40.5 | 41.0 | 42.0 | 43.5 | 43.8 |
| | 9 | 41.0 | 40.4 | 40.8 | 42.5 | 43.5 | 44.5 | 45.0 | 45.7 | 46.4 | 47.2 | 47.6 | 47.4 |
| | 10 | 48.0 | 48.0 | 48.5 | 49.6 | 50.0 | 50.7 | 51.1 | 51.5 | 51.4 | 51.4 | 51.6 | 51.5 |
| | 11 | 49.0 | 48.6 | 48.0 | 47.4 | 47.8 | 48.4 | 49.0 | 49.5 | 50.0 | 51.0 | 51.7 | 52.5 |
| | 12 | 47.2 | 47.5 | 48.3 | 49.5 | 50.4 | 51.2 | 52.0 | 52.3 | 52.7 | 53.2 | 53.8 | 54.0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 51.7 | 52.3 | 53.0 | 53.7 | 54.6 | 55.7 | 56.0 | 56.2 | 56.6 | 57.5 | 58.4 | 58.8 |
| | 15 | 52.7 | 53.0 | 53.7 | 55.0 | 56.0 | 56.9 | 57.4 | 57.6 | 58.0 | 59.0 | 59.5 | 60.2 |
| | 16 | 55.0 | 54.5 | 54.0 | 54.0 | 54.4 | 54.6 | 55.0 | 55.0 | 54.6 | 54.4 | 54.4 | 54.2 |
| | 17 | 53.5 | 53.5 | 53.4 | 53.2 | 53.2 | 53.4 | 53.6 | 53.7 | 53.7 | 53.7 | 53.7 | 53.6 |
| | 18 | 53.2 | 53.4 | 53.2 | 53.2 | 53.7 | 54.2 | 54.5 | 55.0 | 55.0 | 55.2 | 55.5 | 55.5 |
| | 19 | 55.0 | 55.0 | 54.8 | 54.8 | 55.2 | 55.5 | 55.8 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 53.5 | 53.5 | 53.5 | 53.6 | 54.0 | 54.3 | 54.5 | 54.8 | 54.8 | 55.2 | 55.6 | 56.2 |
| | 22 | 52.7 | 53.5 | 54.5 | 55.5 | 56.4 | 57.0 | 57.5 | 57.7 | 57.6 | 58.2 | 58.8 | 59.3 |
| | 23 | 56.6 | 56.8 | 57.3 | 58.4 | 59.4 | 60.5 | 61.4 | 62.0 | 62.5 | 63.2 | 63.4 | 63.2 |
| | 24 | 62.6 | 62.5 | 62.2 | 62.5 | 63.0 | 64.2 | 64.8 | 65.6 | 66.2 | 66.6 | 66.3 | 66.0 |
| | 25 | 59.2 | 58.5 | 58.0 | 57.5 | 57.5 | 57.5 | 57.5 | 58.0 | 58.0 | 58.0 | 58.0 | 58.4 |
| | 26 | 56.5 | 56.5 | 56.5 | 57.0 | 57.5 | 58.0 | 58.5 | 58.7 | 59.0 | 59.8 | 60.5 | 61.2 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 57.0 | 57.0 | 57.4 | 57.6 | 57.8 | 58.8 | 59.4 | 60.5 | 61.4 | 62.2 | 63.0 | 63.3 |
| | 29 | 58.8 | 59.0 | 59.6 | 60.4 | 61.2 | 61.5 | 61.5 | 61.7 | 61.9 | 62.5 | 63.0 | 63.2 |
| | 30 | 58.2 | 57.8 | 57.8 | 58.3 | 59.2 | 59.7 | 60.0 | 60.4 | 61.5 | 62.1 | 62.4 | 62.7 |
| | Hourly Means | 51.90 | 51.88 | 52.02 | 52.40 | 52.89 | 53.45 | 53.85 | 54.22 | 54.48 | 54.93 | 55.28 | 55.43 |

^b Two minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 568.5 | Sc. Div. 568.5 | Sc. Div. 568.1 | Sc. Div. 566.7 | Sc. Div. 567.0 | Sc. Div. 565.8 | Sc. Div. 566.0 | Sc. Div. 569.4 | Sc. Div. 568.8 | Sc. Div. 571.0 | Sc. Div. 573.9 | Sc. Div. 574.1 | Sc. Div. 566.40 |
| 570.6 | 571.6 | 573.8 | 573.8 | 575.9 | 577.8 | 576.2 | 577.0 | 581.2 | 578.9 | 581.0 | 576.0 | 572.61 |
| 571.5 | 571.2 | 574.6 | 574.7 | 573.0 | 564.2 | 572.5 | 567.9 | 567.0 | 574.2 | 579.8 | 577.9 | 571.48 |
| 567.0 | 569.3 | 572.5 | 573.6 | 576.2 | 572.2 | 575.0 | 575.0 | 574.5 | 578.0 | 578.0 | 577.5 | 571.13 |
| 579.0 | 577.0 | 579.9 | 578.0 | 572.0 | 577.0 | — | 580.0 | 577.5 | 577.8 | 579.7 | 582.9 | 574.25 |
| — | — | — | — | — | — | 580.0 | 584.5 | 585.0 | 587.7 | 583.8 | 588.0 | 580.90 |
| 586.0 | 582.0 | 574.0 | 585.6 | 583.5 | 588.0 | 584.5 | 585.0 | 587.0 | 587.6 | 588.4 | 589.0 | 583.20 |
| 587.6 | 587.6 | 587.4 | 586.0 | 585.8 | 585.8 | 587.9 | 587.0 | 587.6 | 588.4 | 589.0 | 588.8 | 583.67 |
| 581.6 | 580.6 | 583.2 | 584.6 | 582.1 | 584.0 | 583.0 | 585.0 | 582.5 | 582.0 | 583.2 | 584.0 | 579.67 |
| 578.0 | 576.8 | 577.0 | 577.0 | 577.0 | 577.0 | 577.8 | 578.0 | 579.0 | 579.0 | 579.0 | 579.6 | 574.72 |
| 575.9 | 576.0 | 575.2 | 575.0 | 576.0 | 576.8 | 578.9 | 580.0 | 581.4 | 580.6 | 580.0 | 582.8 | 575.89 |
| 574.4 | 570.2 | 569.1 | 572.0 | 572.4 | 573.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 555.5 | 551.1 | 549.8 | 555.0 | 550.7 | 545.1 | 565.67 |
| 558.3 | 551.9 | 552.7 | 548.5 | 552.4 | 553.0 | 552.9 | 557.4 | 554.0 | 557.0 | 558.5 | 559.0 | 550.92 |
| 560.3 | 553.0 | 551.1 | 553.5 | 555.1 | 554.2 | 554.2 | 553.9 | 558.8 | 557.0 | 556.6 | 556.2 | 554.04 |
| 565.0 | 563.4 | 560.3 | 562.0 | 561.0 | 562.0 | 563.3 | 562.0 | 562.8 | 566.0 | 563.0 | 562.8 | 558.64 |
| 563.5 | 567.0 | 567.0 | 565.0 | 565.0 | 564.0 | 565.0 | 570.0 | 568.2 | 570.8 | 570.4 | 563.8 | 562.40 |
| 565.0 | 562.0 | 549.5 | 554.0 | 561.5 | 558.0 | 559.9 | 562.8 | 559.4 | 551.0 | 564.6 | 565.5 | 560.40 |
| 562.0 | 553.5 | 560.2 | 559.6 | 559.6 | 562.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 563.8 | 560.0 | 560.1 | 566.6 | 564.5 | 564.0 | 558.97 |
| 560.2 | 561.4 | 564.6 | 563.0 | 569.5 | 564.6 | 562.5 | 563.0 | 561.9 | 562.0 | 563.0 | 564.0 | 560.15 |
| 563.0 | 561.0 | 558.0 | 559.0 | 561.0 | 558.1 | 562.5 | 563.0 | 564.5 | 565.0 | 565.0 | 566.4 | 558.78 |
| 561.1 | 554.3 | 555.0 | 555.0 | 549.0 | 552.1 | 553.0 | 552.7 | 551.8 | 558.6 | 556.8 | 560.8 | 554.04 |
| 546.8 | 549.5 | 548.0 | 547.9 | 548.2 | 548.6 | 549.7 | 540.3 | 531.1 | 546.7 | 551.8 | 550.3 | 547.49 |
| 557.7 | 557.8 | 557.5 | 555.8 | 556.6 | 554.9 | 556.4 | 561.5 | 558.0 | 557.9 | 561.0 | 561.0 | 551.30 |
| 561.1 | 559.4 | 560.6 | 555.3 | 561.3 | 559.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 539.4 | 542.2 | 543.5 | 549.0 | 537.3 | 548.0 | 553.03 |
| 551.0 | 538.4 | 543.8 | 545.0 | 542.5 | 543.0 | 546.0 | 545.0 | 547.0 | 549.0 | 555.0 | 559.8 | 544.97 |
| 550.0 | 551.2 | 552.0 | 552.0 | 552.0 | 552.0 | 553.0 | 552.7 | 554.8 | 555.9 | 554.8 | 555.0 | 549.97 |
| 559.5 | 556.0 | 517.4 | 517.0 | 513.8 | 532.3 | 529.8 | 541.3 | 552.9 | 554.6 | 550.0 | 553.0 | 545.70 |
| 566.41 | 564.22 | 562.79 | 563.06 | 563.44 | 563.85 | 563.41 | 563.87 | 564.08 | 566.07 | 566.84 | 567.28 | 562.57 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 52.5 | 52.2 | 52.2 | 51.8 | 51.5 | 51.5 | 50.4 | 49.8 | 49.6 | 49.4 | 49.4 | 49.0 | 52.61 |
| 53.0 | 52.6 | 52.2 | 51.4 | 51.4 | 51.2 | 51.0 | 50.0 | 49.0 | 48.6 | 48.0 | 47.0 | 50.97 |
| 49.8 | 49.5 | 49.2 | 49.0 | 48.5 | 47.8 | 47.8 | 47.4 | 47.0 | 47.8 | 48.7 | 49.0 | 48.64 |
| 50.2 | 49.5 | 49.2 | 48.5 | 48.5 | 48.4 | 48.4 | 48.0 | 48.0 | 47.5 | 47.0 | 47.0 | 49.30 |
| 46.4 | 46.0 | 45.8 | 45.5 | 45.0 | 44.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 43.2 | 43.4 | 42.8 | 42.8 | 42.6 | 42.0 | 45.41 |
| 46.0 | 44.9 | 44.5 | 44.3 | 43.0 | 42.8 | 42.6 | 42.4 | 42.0 | 41.8 | 41.4 | 40.0 | 42.89 |
| 43.8 | 44.2 | 44.3 | 43.6 | 43.2 | 42.6 | 42.2 | 41.2 | 41.2 | 41.0 | 41.2 | 41.0 | 41.45 |
| 47.0 | 47.0 | 46.8 | 46.2 | 46.0 | 46.4 | 46.6 | 46.5 | 47.0 | 47.2 | 47.5 | 47.7 | 45.58 |
| 51.0 | 50.3 | 50.0 | 49.8 | 49.5 | 49.7 | 49.6 | 49.4 | 49.4 | 49.4 | 49.4 | 49.0 | 49.99 |
| 52.5 | 52.2 | 51.4 | 50.5 | 50.0 | 50.0 | 49.6 | 49.0 | 49.2 | 49.0 | 48.4 | 48.2 | 49.70 |
| 53.8 | 53.2 | 53.2 | 53.2 | 53.2 | 53.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.6 | 53.5 | 53.2 | 53.0 | 53.0 | 52.2 | 52.09 |
| 59.7 | 59.4 | 59.0 | 58.0 | 57.6 | 56.8 | 56.4 | 55.5 | 55.0 | 54.5 | 54.0 | 53.4 | 55.99 |
| 60.8 | 60.4 | 59.8 | 59.0 | 58.6 | 58.2 | 57.6 | 57.2 | 56.7 | 56.3 | 56.2 | 55.2 | 57.29 |
| 54.0 | 53.6 | 53.6 | 53.7 | 53.8 | 53.9 | 53.9 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 54.09 |
| 53.6 | 53.5 | 53.5 | 53.5 | 53.5 | 53.3 | 52.8 | 52.7 | 52.8 | 53.2 | 53.6 | 53.6 | 53.41 |
| 55.3 | 55.0 | 54.8 | 54.8 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 54.65 |
| 56.0 | 56.0 | 56.3 | 56.4 | 56.4 | 56.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.0 | 52.1 | 52.7 | 53.1 | 53.5 | 53.5 | 55.02 |
| 55.8 | 55.4 | 55.4 | 55.2 | 54.8 | 54.0 | 54.2 | 53.6 | 53.2 | 53.2 | 53.2 | 52.5 | 54.33 |
| 59.3 | 58.5 | 58.2 | 57.7 | 57.7 | 57.9 | 57.9 | 57.5 | 57.5 | 57.2 | 57.0 | 57.0 | 57.17 |
| 63.0 | 63.0 | 62.7 | 63.0 | 63.0 | 63.0 | 62.5 | 62.4 | 62.4 | 62.5 | 62.6 | 62.2 | 61.54 |
| 65.5 | 65.0 | 65.0 | 64.8 | 64.3 | 64.3 | 64.0 | 63.2 | 62.6 | 62.4 | 61.4 | 60.0 | 63.96 |
| 58.5 | 58.0 | 57.6 | 57.3 | 57.2 | 57.2 | 57.2 | 57.0 | 56.7 | 56.6 | 56.6 | 56.5 | 57.60 |
| 61.6 | 61.6 | 61.6 | 60.8 | 61.0 | 61.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 59.0 | 59.0 | 58.4 | 58.2 | 57.8 | 57.0 | 59.03 |
| 63.2 | 63.0 | 62.9 | 62.5 | 62.0 | 61.6 | 61.4 | 60.6 | 60.2 | 60.0 | 59.3 | 59.1 | 60.47 |
| 62.8 | 62.0 | 61.5 | 61.5 | 61.0 | 60.5 | 60.0 | 59.7 | 59.5 | 59.5 | 59.2 | 58.6 | 60.84 |
| 62.4 | 62.4 | 62.0 | 62.2 | 62.0 | 61.8 | 61.6 | 61.0 | 61.2 | 61.4 | 61.6 | 61.1 | 60.87 |
| 55.29 | 54.94 | 54.72 | 54.39 | 54.14 | 53.96 | 53.48 | 53.10 | 52.92 | 52.85 | 52.73 | 52.32 | 53.65 |

* Three minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = '000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | 1 | 554.8 | 556.0 | 549.3 | 545.3 | 544.7 | 548.0 | 548.0 | 550.0 | 551.9 | 549.0 | 546.5 | 549.8 |
| | 2 | 552.0 | 552.4 | 547.7 | 541.0 | 540.0 | 540.2 | 552.6 | 557.8 | 557.4 | 552.7 | 559.5 | 556.6 |
| | 3 | 561.5 | 560.0 | 552.5 | 545.7 | 545.8 | 549.6 | 553.6 | 554.2 | 558.3 | 558.0 | 564.4 | 562.4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 564.8 | 564.7 | 561.7 | 553.7 | 552.0 | 552.8 | 560.5 | 567.2 | 570.2 | 566.9 | 571.4 | 572.0 |
| | 6 | 568.2 | 566.8 | 562.4 | 556.6 | 551.8 | 552.5 | 563.7 | 576.3 | 573.0 | 580.6 | 571.5 | 569.0 |
| | 7 | 570.2 | 569.0 | 563.1 | 551.6 | 544.0 | 556.3 | 563.4 | 564.0 | 575.0 | 576.5 | 583.0 | 572.8 |
| | 8 | 576.5 | 572.7 | 564.1 | 556.0 | 557.5 | 553.6 | 553.5 | 553.4 | 564.0 | 568.0 | 573.5 | 574.0 |
| | 9 | 577.0 | 578.0 | 570.0 | 561.8 | 555.7 | 554.6 | 559.6 | 561.6 | 570.4 | 574.4 | 574.2 | 566.9 |
| | 10 | 568.6 | 564.6 | 557.0 | 550.8 | 550.0 | 548.2 | 550.2 | 558.2 | 563.6 | 564.5 | 562.0 | 561.8 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 550.6 | 550.3 | 543.8 | 542.4 | 546.5 | 546.9 | 548.9 | 549.0 | 551.3 | 553.8 | 549.2 | 547.0 |
| | 13 | 549.3 | 542.9 | 537.5 | 537.0 | 539.6 | 539.5 | 541.5 | 550.0 | 553.0 | 552.0 | 548.0 | 547.0 |
| | 14 | 547.5 | 549.0 | 542.5 | 531.5 | 535.0 | 537.0 | 535.0 | 539.5 | 546.5 | 547.8 | 559.4 | 566.8 |
| | 15 | 546.5 | 539.0 | 543.0 | 552.7 | 542.9 | 547.0 | 552.9 | 556.1 | 556.9 | 555.0 | 563.2 | 547.4 |
| | 16 | 563.3 | 563.0 | 567.6 | 561.8 | 557.0 | 558.6 | 543.7 | 562.3 | 563.5 | 568.8 | 566.3 | 567.0 |
| | 17 | 569.8 | 573.2 | 570.2 | 564.7 | 565.2 | 571.6 | 572.9 | 569.6 | 569.0 | 568.0 | 569.6 | 578.0 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 556.8 | 552.0 | 550.3 | 548.5 | 537.7 | 542.6 | 545.9 | 554.0 | 557.0 | 549.0 | 550.5 | 553.6 |
| | 20 | 562.1 | 556.4 | 551.6 | 551.0 | 550.0 | 553.0 | 556.0 | 556.7 | 562.8 | 568.0 | 571.5 | 561.6 |
| | 21 | 561.8 | 559.0 | 548.0 | 537.0 | 535.7 | 543.9 | 546.6 | 558.1 | 558.2 | 565.2 | 563.7 | 569.2 |
| | 22 | 564.6 | 565.5 | 560.0 | 547.4 | 533.6 | 533.2 | 545.8 | 554.9 | 566.6 | 580.5 | 565.1 | 567.9 |
| | 23 | 568.7 | 567.0 | 561.8 | 555.0 | 552.4 | 551.9 | 551.9 | 552.5 | 557.7 | 564.2 | 574.9 | 564.0 |
| | 24 | 561.9 | 561.9 | 564.4 | 560.0 | 553.0 | 553.3 | 558.8 | 566.0 | 563.0 | 566.5 | 565.0 | 564.0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 573.0 | 570.8 | 566.9 | 559.6 | 553.6 | 553.4 | 555.3 | 557.0 | 562.7 | 567.8 | 573.0 | 566.6 |
| | 27 | 567.0 | 565.0 | 560.0 | 550.8 | 543.9 | 543.5 | 546.6 | 556.8 | 562.7 | 563.6 | 561.2 | 556.1 |
| | 28 | 563.5 | 559.4 | 557.0 | 549.2 | 544.8 | 549.0 | 548.1 | 553.6 | 558.9 | 563.3 | 561.8 | 559.1 |
| | 29 | 562.8 | 566.7 | 562.6 | 558.0 | 562.8 | 565.2 | 569.8 | 578.1 | 582.0 | 580.2 | 576.9 | 575.0 |
| | 30 | 580.5 | 577.2 | 571.3 | 562.1 | 558.5 | 561.0 | 568.0 | 580.0 | 590.0 | 580.0 | 583.6 | 575.5 |
| | 31 | 564.5 | 566.0 | 577.0 | 567.4 | 557.9 | 540.3 | 544.7 | 548.0 | 559.0 | 557.5 | 560.0 | 569.9 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 563.25 | 561.80 | 557.90 | 551.80 | 548.58 | 549.88 | 553.24 | 558.70 | 563.13 | 564.52 | 565.51 | 563.74 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| MAY. | 1 | 61.0 | 61.4 | 62.3 | 62.9 | 63.5 | 63.8 | 64.5 | 65.0 | 65.4 | 66.4 | 67.4 | 67.5 |
| | 2 | 60.2 | 60.0 | 60.0 | 60.0 | 59.7 | 59.5 | 59.4 | 59.5 | 60.0 | 60.8 | 61.8 | 62.6 |
| | 3 | 57.5 | 58.3 | 58.8 | 59.4 | 59.5 | 59.7 | 60.5 | 61.0 | 61.8 | 62.0 | 62.2 | 61.8 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 54.0 | 54.5 | 55.0 | 55.2 | 55.4 | 55.5 | 55.8 | 56.0 | 56.0 | 56.4 | 57.0 | 57.2 |
| | 6 | 53.0 | 53.6 | 54.4 | 55.0 | 56.0 | 56.0 | 56.5 | 57.0 | 57.5 | 57.9 | 58.9 | 60.0 |
| | 7 | 54.2 | 53.7 | 53.6 | 53.0 | 53.2 | 53.6 | 54.0 | 54.5 | 55.0 | 56.0 | 57.0 | 57.2 |
| | 8 | 51.0 | 51.8 | 52.8 | 53.5 | 54.0 | 53.7 | 53.0 | 53.2 | 54.0 | 55.0 | 55.5 | 55.5 |
| | 9 | 53.5 | 54.5 | 55.5 | 57.0 | 57.7 | 58.2 | 58.4 | 58.4 | 58.6 | 59.0 | 60.0 | 60.8 |
| | 10 | 55.7 | 56.2 | 57.0 | 58.0 | 58.6 | 59.4 | 59.8 | 60.2 | 60.6 | 61.3 | 62.0 | 62.4 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 63.4 | 64.2 | 65.2 | 66.3 | 67.5 | 68.5 | 69.0 | 70.0 | 71.2 | 72.0 | 71.6 | 72.0 |
| | 13 | 66.5 | 66.2 | 66.5 | 67.4 | 68.2 | 69.4 | 70.2 | 71.0 | 72.3 | 72.5 | 72.5 | 72.5 |
| | 14 | 66.3 | 66.3 | 66.5 | 66.5 | 66.5 | 66.9 | 66.9 | 67.2 | 67.4 | 67.2 | 67.2 | 67.6 |
| | 15 | 61.5 | 60.0 | 59.0 | 57.8 | 57.2 | 57.0 | 57.2 | 57.4 | 58.0 | 58.4 | 58.6 | 58.8 |
| | 16 | 53.7 | 54.5 | 54.7 | 55.4 | 56.2 | 56.2 | 56.4 | 56.7 | 56.9 | 57.2 | 57.4 | 56.8 |
| | 17 | 53.6 | 54.2 | 55.2 | 56.5 | 57.2 | 58.1 | 58.6 | 58.9 | 59.3 | 60.3 | 60.6 | 61.5 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 60.0 | 61.0 | 61.9 | 62.3 | 63.0 | 63.8 | 64.0 | 64.5 | 64.5 | 64.5 | 64.0 | 64.2 |
| | 20 | 59.4 | 59.8 | 60.0 | 60.0 | 60.5 | 61.2 | 61.5 | 61.8 | 61.8 | 62.0 | 62.5 | 62.8 |
| | 21 | 56.0 | 56.0 | 56.8 | 57.3 | 57.7 | 58.5 | 58.5 | 58.8 | 59.2 | 60.3 | 61.6 | 62.6 |
| | 22 | 55.5 | 55.3 | 55.2 | 55.4 | 55.8 | 56.4 | 56.6 | 56.7 | 56.5 | 56.7 | 56.8 | 56.8 |
| | 23 | 53.4 | 54.6 | 55.2 | 56.0 | 56.8 | 57.3 | 58.0 | 58.0 | 58.8 | 59.5 | 60.1 | 61.0 |
| | 24 | 54.5 | 55.0 | 55.5 | 55.5 | 56.0 | 56.2 | 56.5 | 57.2 | 57.7 | 58.5 | 58.5 | 58.3 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 54.6 | 54.7 | 55.5 | 56.5 | 58.2 | 59.0 | 60.2 | 60.4 | 62.0 | 62.2 | 64.4 | 64.6 |
| | 27 | 60.5 | 60.5 | 60.5 | 61.0 | 62.4 | 63.2 | 63.8 | 64.6 | 65.5 | 66.2 | 66.6 | 68.0 |
| | 28 | 62.6 | 62.6 | 62.4 | 62.4 | 62.6 | 63.5 | 63.6 | 63.8 | 64.0 | 64.2 | 65.2 | 65.5 |
| | 29 | 55.2 | 54.6 | 54.2 | 54.0 | 54.0 | 54.6 | 55.0 | 55.4 | 55.4 | 55.7 | 56.4 | 56.7 |
| | 30 | 50.6 | 51.5 | 52.6 | 53.8 | 54.5 | 55.0 | 55.0 | 55.0 | 55.4 | 56.0 | 57.0 | 58.0 |
| | 31 | 54.5 | 55.0 | 56.0 | 56.6 | 57.6 | 58.2 | 58.7 | 59.6 | 60.5 | 61.5 | 62.5 | 63.2 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 57.11 | 57.41 | 57.86 | 58.32 | 58.87 | 59.35 | 59.69 | 60.07 | 60.57 | 61.10 | 61.68 | 62.07 | |

° Five minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 544.7 | 542.9 | 543.0 | 543.8 | 544.2 | 544.9 | 544.2 | 546.9 | 549.0 | 548.8 | 549.3 | 551.8 | 547.78 |
| 553.2 | 553.6 | 555.0 | 552.2 | 555.0 | 556.0 | 554.0 | 555.0 | 558.0 | 561.0 | 562.0 | 562.4 | 553.64 |
| 562.7 | 565.1 | 572.4 | 563.4 | 568.2 | 556.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 558.9 | 562.0 | 560.5 | 562.5 | 563.0 | 563.8 | 559.35 |
| 566.1 | 568.0 | 561.2 | 562.0 | 563.1 | 562.1 | 562.5 ^a | 561.6 | 565.0 | 564.6 | 565.6 | 566.2 | 563.58 |
| 564.0 | 564.0 | 561.0 | 562.0 | 561.8 | 561.2 | 558.4 | 560.7 | 565.6 | 567.0 | 565.3 | 569.0 | 564.68 |
| 566.5 | 565.8 | 566.0 | 566.4 | 566.2 | 568.8 | 569.0 | 570.5 | 570.0 | 571.9 | 573.0 | 572.8 | 567.33 |
| 572.2 | 574.9 | 575.6 | 572.6 | 572.5 | 575.4 | 575.3 | 573.3 | 572.0 | 571.2 | 576.7 | 575.5 | 568.92 |
| 567.0 | 564.5 | 563.2 | 561.7 | 563.0 | 562.8 | 564.0 | 565.0 | 567.5 | 568.0 | 569.0 | 570.8 | 566.28 |
| 562.0 | 562.2 | 562.8 | 561.3 | 562.3 | 562.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 546.6 ^b | 548.8 | 550.4 | 552.8 | 553.7 | 553.6 | 557.42 |
| 545.0 | 544.0 | 544.0 | 544.9 | 547.0 | 547.4 | 547.9 | 549.2 | 548.0 | 546.2 | 550.0 | 550.4 | 547.65 |
| 533.4 | 542.6 | 543.3 | 540.8 | 530.3 | 544.1 | 551.0 | 545.1 | 542.6 | 545.2 | 547.4 | 547.8 | 543.79 |
| 552.3 | 539.6 | 547.4 | 548.0 ^a | 544.6 | 545.5 | 548.3 | 550.5 | 547.0 | 546.7 | 554.5 | 551.0 | 546.37 |
| 559.0 | 558.6 | 556.8 | 555.5 | 557.0 | 561.0 | 562.0 | 568.0 | 571.0 | 572.0 | 563.0 | 567.6 | 556.42 |
| 564.0 | 566.0 | 565.8 | 564.0 | 565.5 | 563.0 | 564.0 | 561.8 | 562.4 | 561.0 | 564.3 | 566.6 | 562.97 |
| 569.0 | 572.0 | 560.5 | 548.4 | 576.5 | 576.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 551.1 | 552.9 | 549.7 | 553.2 | 557.2 | 552.0 | 565.04 |
| 553.0 | 555.9 | 550.0 | 545.9 | 548.8 | 551.2 | 550.5 | 550.9 | 552.6 | 556.0 | 558.0 | 561.0 | 551.32 |
| 553.2 | 553.9 | 543.2 | 546.9 | 551.1 | 563.1 | 530.8 | 551.6 | 556.0 | 557.4 | 558.7 | 554.8 | 555.89 |
| 565.0 | 559.0 | 553.1 | 553.6 | 554.2 | 560.7 | 563.2 | 560.1 | 566.5 | 566.5 | 567.3 | 569.5 | 557.71 |
| 568.0 | 568.0 | 565.9 | 565.0 | 558.0 | 558.0 | 556.0 | 556.4 | 561.4 | 562.8 | 563.0 | 563.8 | 559.64 |
| 567.0 | 564.5 | 561.6 | 561.0 | 560.4 | 560.7 | 561.8 | 563.2 | 562.2 | 552.2 | 556.1 | 554.3 | 560.29 |
| 564.6 | 564.0 | 562.8 | 550.1 | 558.3 | 568.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 568.8 | 568.2 | 569.1 | 570.0 | 569.9 | 570.0 | 563.43 |
| 560.0 | 558.6 | 557.2 | 557.8 | 556.9 | 556.7 | 558.0 | 558.6 | 559.8 | 561.2 | 562.8 | 565.0 | 561.35 |
| 554.2 | 553.0 | 553.4 | 554.0 | 555.0 | 556.2 | 556.8 | — | — | — | 560.0 | 562.6 | 556.30 |
| 559.0 | 554.2 | 554.9 | 557.0 | 558.0 | 559.5 | 560.0 | 558.8 | 564.4 | 563.8 | 564.6 | 547.2 | 557.05 |
| 574.0 | 574.0 | 569.0 | 559.0 | 565.7 | 567.0 | 565.6 | 568.3 | 565.4 | 559.4 | 567.6 | 573.4 | 568.69 |
| 559.2 | 559.8 | 557.1 | 553.2 | 556.5 | 564.5 | 561.9 | 560.0 | 565.6 | 559.8 | 562.8 | 564.5 | 567.19 |
| 560.4 | 559.9 | 553.8 | 554.8 | 547.8 | 552.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 554.7 | 557.9 | 558.3 | 555.8 | 558.0 | 558.0 | 557.65 |
| 559.95 | 559.58 | 557.78 | 555.75 | 557.33 | 559.46 | 557.97 | 558.67 | 560.00 | 559.88 | 561.59 | 561.66 | 558.82 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 67.7 | 66.8 | 66.2 | 65.6 | 65.0 | 64.2 | 63.6 | 62.9 | 62.3 | 61.8 | 61.4 | 60.8 | 64.14 |
| 62.8 | 62.8 | 62.4 | 61.1 | 60.8 | 60.0 | 59.5 | 59.0 | 58.5 | 58.4 | 58.0 | 58.0 | 60.20 |
| 62.0 | 61.7 | 61.4 | 61.0 | 61.0 | 60.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.7 | 56.0 | 55.5 | 55.0 | 54.5 | 54.4 | 59.26 |
| 57.6 | 57.2 | 56.5 | 56.0 | 55.6 | 55.2 | 54.6 | 54.4 | 54.0 | 53.7 | 53.5 | 52.6 | 55.37 |
| 59.7 | 58.7 | 58.0 | 57.7 | 57.0 | 57.0 | 56.0 | 55.8 | 55.2 | 54.8 | 54.8 | 54.5 | 56.46 |
| 58.0 | 57.2 | 56.0 | 55.0 | 54.4 | 54.0 | 53.4 | 52.6 | 52.0 | 51.6 | 51.4 | 51.0 | 54.23 |
| 55.0 | 54.6 | 54.4 | 54.4 | 54.5 | 54.0 | 54.2 | 53.7 | 53.5 | 53.5 | 53.4 | 53.0 | 53.80 |
| 61.2 | 60.8 | 59.8 | 59.2 | 58.6 | 57.8 | 57.5 | 56.7 | 56.5 | 56.5 | 56.0 | 55.7 | 57.83 |
| 62.5 | 62.5 | 62.0 | 61.5 | 61.0 | 60.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 64.8 | 64.8 | 64.6 | 64.6 | 64.7 | 63.5 | 61.17 |
| 72.0 | 71.5 | 71.0 | 70.8 | 70.6 | 70.2 | 70.0 | 69.2 | 68.5 | 68.0 | 67.6 | 67.0 | 69.05 |
| 72.0 | 72.0 | 70.8 | 70.2 | 69.6 | 69.2 | 68.8 | 68.2 | 67.8 | 67.2 | 67.0 | 66.5 | 69.35 |
| 68.0 | 68.0 | 67.6 | 67.2 | 67.0 | 66.6 | 66.2 | 65.5 | 65.0 | 63.9 | 63.0 | 62.0 | 66.35 |
| 59.0 | 58.7 | 58.0 | 57.0 | 56.4 | 56.0 | 55.5 | 55.0 | 54.5 | 54.2 | 54.0 | 53.8 | 57.21 |
| 56.8 | 56.8 | 56.8 | 56.8 | 56.5 | 56.4 | 56.4 | 56.2 | 56.4 | 56.4 | 55.2 | 53.6 | 56.10 |
| 62.0 | 62.0 | 61.2 | 61.2 | 60.5 | 60.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 61.0 | 61.2 | 61.2 | 60.6 | 60.2 | 59.4 | 59.36 |
| 64.0 | 64.0 | 64.0 | 64.6 | 64.0 | 63.1 | 62.2 | 61.2 | 60.7 | 60.6 | 59.6 | 59.4 | 62.69 |
| 62.6 | 62.6 | 61.6 | 60.6 | 60.0 | 59.4 | 58.7 | 58.2 | 57.5 | 56.8 | 56.4 | 56.0 | 60.15 |
| 63.2 | 63.0 | 62.6 | 61.9 | 61.0 | 60.0 | 59.2 | 58.2 | 57.5 | 56.7 | 56.5 | 56.0 | 59.13 |
| 56.5 | 56.5 | 56.5 | 56.0 | 56.0 | 55.5 | 55.5 | 55.5 | 55.2 | 55.2 | 54.6 | 53.2 | 55.83 |
| 61.5 | 61.2 | 60.5 | 60.3 | 59.8 | 58.8 | 57.7 | 56.6 | 55.6 | 55.0 | 55.0 | 54.2 | 57.70 |
| 58.0 | 57.8 | 57.2 | 56.6 | 55.6 | 55.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 54.7 | 56.22 |
| 66.0 | 65.8 | 65.4 | 65.0 | 64.5 | 64.0 | 63.5 | 62.7 | 62.3 | 61.8 | 61.4 | 61.0 | 61.49 |
| 68.3 | 68.0 | 66.5 | 66.0 | 65.5 | 65.2 | 64.7 | — | — | — | 62.5 | 62.4 | 64.38 |
| 65.5 | 65.0 | 64.0 | 62.0 | 61.2 | 60.4 | 59.5 | 58.7 | 57.5 | 57.4 | 57.6 | 55.8 | 61.96 |
| 57.2 | 54.8 | 54.5 | 54.8 | 54.4 | 53.8 | 52.9 | 52.2 | 51.5 | 51.2 | 51.2 | 50.2 | 54.16 |
| 58.6 | 58.0 | 57.5 | 57.2 | 57.0 | 56.8 | 56.5 | 56.4 | 56.0 | 55.9 | 55.2 | 54.0 | 55.56 |
| 63.0 | 63.0 | 62.4 | 61.7 | 61.0 | 60.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 61.3 | 60.6 | 60.4 | 60.0 | 59.5 | 59.5 | 59.87 |
| 62.25 | 61.89 | 61.29 | 60.79 | 60.31 | 59.79 | 59.44 | 58.71 | 58.26 | 57.89 | 57.75 | 57.12 | 59.57 |

^a Three minutes late.

^b 5 x minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|--------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|--------|
| One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JUNE. | 2 | 561·0 | 558·0 | 554·0 | 547·0 | 542·8 | 550·0 | 552·6 | 554·3 | 555·9 | 557·1 | 556·2 | 557·4 |
| | 3 | 558·0 | 556·5 | 554·0 | 545·6 | 535·8 | 534·6 | 539·0 | 544·2 | 552·0 | 551·5 | 557·3 | 558·0 |
| | 4 | 566·6 | 556·1 | 551·5 | 523·2 ^a | 531·5 | 535·5 | 536·2 | 530·0 | 538·2 | 542·0 | 539·0 | 547·5 |
| | 5 | 551·3 | 551·0 | 552·9 | 547·7 | 541·9 | 538·0 | 538·0 | 540·0 | 549·0 | 550·9 | 557·0 | 550·8 |
| | 6 | 558·5 | 557·5 | 546·5 | 539·0 | 535·9 | 540·5 ^b | 544·5 | 550·0 | 551·8 | 552·2 | 560·0 | 564·6 |
| | 7 | 568·0 | 567·0 | 566·0 | 559·0 | 552·8 | 553·0 | 555·3 | 559·2 | 563·0 | 571·3 | 571·2 | 564·0 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 550·0 | 545·8 | 543·8 | 534·6 | 533·8 | 539·2 | 540·8 | 549·7 | 545·5 | 546·2 | 539·0 | 547·9 |
| | 10 | 554·6 | 554·8 | 550·6 | 548·0 | 542·7 | 542·8 | 542·4 | 542·1 | 542·0 | 542·5 | 554·0 | 552·0 |
| | 11 | 547·2 | 545·5 | 546·1 | 543·0 ^b | 531·9 | 537·6 | 542·7 | 541·0 | 545·0 | 548·0 | 551·0 | 550·0 |
| | 12 | 550·5 | 555·0 | 555·0 | 543·8 | 533·9 | 531·0 | 536·0 | 545·0 | 553·7 | 559·0 | 563·8 | 559·6 |
| | 13 | 553·0 | 551·4 | 546·5 | 545·0 | 545·8 | 548·0 | 552·8 | 553·0 | 552·7 | 554·0 | 555·2 | 557·1 |
| | 14 | 555·0 | 552·5 | 548·5 | 541·9 | 538·0 | 538·2 | 542·5 | 555·2 | 564·8 | 569·4 | 566·2 | 557·4 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 573·6 | 574·5 | 569·0 | 562·2 | 558·6 | 559·2 | 558·8 | 564·0 | 574·0 | 575·9 | 579·0 | 570·2 |
| | 17 | 570·8 | 570·0 | 565·8 | 564·0 | 564·0 | 562·5 | 569·3 | 576·6 | 577·0 | 580·0 | 573·0 | 570·0 |
| | 18 | 570·5 | 569·4 | 565·0 | 558·0 | 549·0 | 547·7 | 553·0 | 556·8 | 565·0 | 569·8 | 567·9 | 565·1 |
| | 19 | 567·3 | 573·0 | 569·2 | 562·4 | 557·0 | 553·8 | 555·0 | 563·4 | 573·0 | 570·6 | 572·0 | 568·0 |
| | 20 | 564·8 | 558·0 | 553·0 | 551·2 | 545·2 | 544·8 | 554·2 | 563·6 | 568·6 | 574·4 | 570·0 | 568·5 |
| | 21 | 557·8 | 555·9 | 556·0 | 548·2 | 543·0 | 543·6 | 545·7 | 543·0 | 551·0 | 553·5 | 552·0 | 557·5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 562·8 | 566·6 | 564·0 | 553·8 | 547·8 | 554·0 | 553·4 | 553·0 | 560·8 | 563·0 | 562·5 | 564·0 |
| | 24 | 557·0 | 559·0 | 556·8 | 551·0 | 546·0 | 544·0 | 545·0 | 551·7 | 571·7 | 560·0 | 556·0 | 548·8 |
| | 25 | 555·4 | 554·0 | 553·0 | 545·0 | 542·4 | 544·0 | 541·8 | 547·6 | 553·8 | 557·6 | 553·0 | 559·0 |
| | 26 | 562·3 | 557·9 | 548·6 | 542·0 | 541·2 | 542·0 | 545·8 | 553·0 | 563·0 | 568·0 | 569·0 | 564·0 |
| | 27 | 564·6 | 564·4 | 558·8 | 554·8 | 551·5 | 552·0 | 553·0 | 556·7 | 564·0 | 570·7 | 569·0 | 568·0 |
| | 28 | 550·2 | 557·2 | 551·2 | 546·9 | 547·8 | 551·0 | 552·8 | 552·5 | 559·3 | 563·0 | 563·0 | 560·0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 564·0 | 560·0 | 556·9 | 553·5 | 548·5 | 547·6 | 556·7 | 561·8 | 576·1 | 568·3 | 571·6 | 571·8 |
| | Hourly Means | 559·79 | 558·84 | 555·31 | 548·43 | 544·35 | 545·38 | 548·29 | 552·38 | 558·84 | 560·76 | 561·12 | 560·05 |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| JUNE. | 2 | 59·0 | 59·0 | 59·0 | 59·5 | 60·6 | 62·0 | 63·0 | 63·8 | 64·2 | 65·8 | 67·2 | 67·7 |
| | 3 | 64·5 | 64·5 | 64·5 | 65·0 | 65·2 | 65·8 | 65·8 | 67·5 | 68·0 | 69·0 | 69·5 | 69·8 |
| | 4 | 65·4 | 66·4 | 67·0 | 67·6 | 68·0 | 69·0 | 69·5 | 71·0 | 71·4 | 71·9 | 71·9 | 72·0 |
| | 5 | 67·2 | 67·3 | 67·2 | 67·0 | 67·0 | 67·4 | 67·2 | 67·4 | 67·4 | 68·0 | 68·5 | 68·5 |
| | 6 | 63·0 | 63·0 | 63·0 | 63·2 | 63·4 | 63·4 | 63·6 | 63·8 | 63·6 | 63·4 | 63·4 | 63·2 |
| | 7 | 59·5 | 59·6 | 59·6 | 59·5 | 59·8 | 60·0 | 60·4 | 60·8 | 61·5 | 62·4 | 62·8 | 63·2 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 68·2 | 68·6 | 69·4 | 70·2 | 70·8 | 71·0 | 71·4 | 72·0 | 72·7 | 74·2 | 74·2 | 75·9 |
| | 10 | 69·2 | 69·8 | 70·4 | 71·0 | 71·5 | 72·0 | 72·8 | 73·4 | 74·4 | 74·5 | 74·5 | 74·5 |
| | 11 | 69·0 | 68·6 | 68·7 | 69·0 | 69·4 | 69·5 | 70·0 | 70·5 | 71·0 | 71·7 | 72·3 | 72·6 |
| | 12 | 67·6 | 67·6 | 67·6 | 67·3 | 67·5 | 67·8 | 68·4 | 68·6 | 69·2 | 69·4 | 69·6 | 71·0 |
| | 13 | 69·0 | 69·2 | 69·5 | 70·0 | 70·2 | 70·0 | 70·4 | 70·6 | 71·8 | 72·2 | 73·2 | 73·0 |
| | 14 | 68·2 | 66·5 | 67·0 | 67·6 | 68·0 | 67·7 | 68·1 | 68·2 | 68·4 | 68·6 | 69·0 | 69·2 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 60·0 | 60·0 | 60·5 | 61·0 | 61·4 | 61·6 | 62·0 | 62·0 | 62·0 | 62·0 | 62·0 | 61·6 |
| | 17 | 58·2 | 58·7 | 59·0 | 59·5 | 59·5 | 59·5 | 59·7 | 60·0 | 60·5 | 61·8 | 62·8 | 63·4 |
| | 18 | 59·4 | 59·5 | 60·0 | 61·0 | 62·0 | 62·8 | 63·5 | 63·7 | 64·5 | 65·3 | 66·0 | 66·2 |
| | 19 | 62·6 | 63·0 | 63·5 | 65·2 | 65·0 | 65·5 | 66·0 | 66·5 | 66·8 | 67·7 | 68·0 | 69·0 |
| | 20 | 63·8 | 63·8 | 63·4 | 64·2 | 65·4 | 66·2 | 67·4 | 67·7 | 68·4 | 69·0 | 69·8 | 69·6 |
| | 21 | 66·6 | 66·4 | 66·8 | 67·3 | 68·2 | 69·0 | 69·6 | 70·2 | 70·4 | 71·0 | 71·5 | 72·0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 64·7 | 65·2 | 66·0 | 66·5 | 67·4 | 68·4 | 68·9 | 70·0 | 70·5 | 71·5 | 72·3 | 72·0 |
| | 24 | 69·0 | 69·4 | 70·2 | 71·0 | 72·0 | 72·5 | 73·0 | 74·0 | 74·2 | 74·5 | 75·0 | 75·4 |
| | 25 | 69·8 | 69·4 | 69·4 | 69·8 | 70·4 | 71·0 | 71·0 | 71·1 | 71·0 | 71·2 | 71·6 | 72·0 |
| | 26 | 65·2 | 65·4 | 66·0 | 66·7 | 67·0 | 67·5 | 67·9 | 68·0 | 68·5 | 68·8 | 69·4 | 70·5 |
| | 27 | 65·0 | 65·2 | 66·2 | 67·0 | 68·0 | 68·5 | 68·8 | 69·3 | 69·5 | 70·5 | 71·2 | 72·4 |
| | 28 | 67·0 | 66·6 | 66·5 | 66·5 | 66·5 | 66·2 | 66·5 | 66·7 | 67·0 | 66·7 | 67·0 | 67·0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 64·5 | 64·7 | 65·4 | 65·5 | 65·7 | 65·7 | 65·8 | 66·0 | 66·2 | 66·0 | 66·4 | 66·5 |
| | Hourly Means | 65·02 | 65·10 | 65·43 | 65·92 | 66·40 | 66·80 | 67·23 | 67·71 | 68·12 | 68·68 | 69·16 | 69·53 |

^a Three minutes late.

^b Six minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 557.0 | Sc. Div. 552.4 | Sc. Div. 548.6 | Sc. Div. 550.4 | Sc. Div. 548.5 | Sc. Div. 548.7 | Sc. Div. 550.0 | Sc. Div. 550.0 | Sc. Div. 552.0 | Sc. Div. 552.0 | Sc. Div. 553.0 | Sc. Div. 554.0 | Sc. Div. 552.62 |
| 555.1 | 550.5 | 549.2 | 550.0 | 549.5 | 551.5 | 543.0 | 537.8 | 540.6 | 542.8 | 560.0 | 559.6 | 549.00 |
| 545.0 | 538.0 | 539.5 | 537.0 | 544.8 | 547.0 | 547.8 | 548.0 | 549.4 | 546.6 | 545.6 | 549.3 | 543.14 |
| 554.0 | 555.6 | 552.5 | 553.2 | 552.8 | 551.0 | 552.8 | 554.9 | 551.0 | 551.4 | 552.5 | 554.5 | 550.20 |
| 571.2 | 571.2 | 567.4 | 567.8 | 566.7 | 566.6 | 564.8 | 562.8 | 563.0 | 563.8 | 565.0 | 567.5 | 558.28 |
| 563.0 | 561.0 | 564.0 | 565.2 | 557.3 | 560.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 538.0 | 537.0 | 537.0 | 541.0 | 543.0 | 550.0 | 556.93 |
| 548.0 | 543.0 | 545.8 | 549.0 | 548.0 | 550.0 | 552.0 | 551.8 | 551.8 | 552.4 | 551.6 | 553.6 | 546.39 |
| 545.0 | 543.5 | 545.0 | 543.0 | 545.0 | 547.0 | 549.8 | 548.8 | 549.2 | 542.4 | 542.9 | 545.1 | 546.47 |
| 547.7 | 545.7 | 549.0 | 541.3 | 543.3 | 545.8 | 546.4 | 547.5 | 548.0 | 549.6 | 547.5 | 547.0 | 545.33 |
| 555.8 | 553.0 | 541.3 | 545.0 | 545.2 | 546.5 | 546.2 | 548.0 | 549.0 | 549.8 | 550.8 | 551.0 | 548.66 |
| 552.0 | 550.7 | 548.1 | 547.4 | 548.0 | 548.0 | 548.0 | 550.0 | 551.0 | 551.0 | 551.0 | 554.8 | 550.60 |
| 556.0 | 553.1 | 547.6 | 550.0 | 550.0 | 552.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 563.0 | 564.0 | 563.5 | 562.0 | 564.0 | 563.9 | 554.95 |
| 568.0 | 566.0 | 569.0 | 565.8 | 567.9 | 569.4 | 565.2 | 564.0 | 565.4 | 560.1 | 562.4 | 565.8 | 567.00 |
| 570.6 | 563.9 | 567.0 | 561.8 | 565.4 | 561.5 | 561.6 | 562.3 | 562.8 | 564.2 | 565.0 | 567.2 | 567.36 |
| 565.3 | 563.9 | 565.0 | 563.6 | 565.0 | 566.7 | 560.0 | 564.1 | 562.0 | 566.0 | 566.0 | 568.0 | 563.03 |
| 563.6 | 565.6 | 560.0 | 561.0 | 555.9 | 552.0 | 551.6 | 551.0 | 560.0 | 557.0 | 556.0 | 563.0 | 561.81 |
| 559.4 | 557.0 | 561.0 | 556.8 | 557.0 | 555.0 | 553.0 | 553.7 | 553.0 | 555.0 | 554.7 | 557.0 | 557.87 |
| 553.0 | 551.0 | 555.2 | 556.0 | 553.6 | 552.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 556.4 | 556.8 | 559.1 | 562.4 | 558.8 | 560.0 | 553.40 |
| 555.5 | 552.4 | 545.5 | 547.8 | 545.8 | 539.8 | 544.8 | 550.2 | 549.7 | 549.8 | 551.3 | 556.0 | 553.93 |
| 549.4 | 542.0 | 542.8 ^a | 545.9 | 546.1 | 546.2 | 547.3 | 547.0 | 548.4 | 548.0 | 548.6 | 553.5 | 550.51 |
| 554.2 | 553.1 | 548.0 | 550.1 | 550.6 | 549.4 | 550.0 | 549.0 | 550.5 | 553.0 | 553.0 | 559.3 | 551.12 |
| 557.0 | 556.8 | 556.5 | 557.0 | 557.0 | 556.0 | 555.0 | 554.0 | 555.3 | 560.0 | 560.0 | 561.2 | 555.94 |
| 556.0 | 558.0 | 555.0 | 558.6 | 562.0 | 554.7 | 564.4 | 560.8 | 558.8 | 555.2 | 561.6 | 555.2 | 559.49 |
| 563.6 | 556.8 | 554.0 ^b | 541.7 | 552.0 | 552.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 547.0 | 547.0 | 548.2 | 550.2 | 554.5 | 558.0 | 553.35 |
| 559.7 | 548.0 | 553.7 | 536.2 | 528.0 | 547.3 | 548.0 | 554.6 | 556.3 | 557.2 | 561.0 | 562.8 | 556.23 |
| 557.00 | 554.09 | 553.23 | 552.06 | 552.22 | 552.66 | 552.24 | 552.60 | 553.40 | 553.72 | 555.19 | 557.49 | 554.14 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 68.0 | 68.2 | 68.0 | 67.5 | 67.2 | 66.6 | 66.4 | 65.7 | 65.5 | 65.0 | 65.0 | 64.5 | 64.52 |
| 70.0 | 70.0 | 70.0 | 69.5 | 69.0 | 68.5 | 68.0 | 67.7 | 67.6 | 67.2 | 66.6 | 65.8 | 67.46 |
| 72.0 | 71.7 | 71.2 | 70.4 | 70.3 | 70.3 | 69.6 | 68.8 | 68.0 | 68.2 | 68.0 | 67.3 | 69.45 |
| 68.5 | 68.2 | 67.8 | 67.2 | 66.6 | 66.0 | 66.0 | 65.4 | 65.0 | 64.5 | 64.0 | 63.5 | 66.78 |
| 63.2 | 63.0 | 62.8 | 62.4 | 62.1 | 61.8 | 61.5 | 61.0 | 60.5 | 60.4 | 60.1 | 59.5 | 62.43 |
| 63.2 | 63.0 | 62.6 | 62.4 | 62.4 | 62.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 69.0 | 69.0 | 68.6 | 68.5 | 68.2 | 68.0 | 63.17 |
| 75.7 | 75.3 | 74.6 | 74.0 | 73.2 | 72.8 | 72.2 | 72.0 | 71.6 | 71.4 | 70.8 | 69.4 | 72.15 |
| 74.5 | 73.7 | 73.2 | 72.8 | 72.7 | 72.5 | 72.2 | 71.6 | 71.2 | 70.8 | 70.2 | 69.2 | 72.19 |
| 72.8 | 72.6 | 72.0 | 71.6 | 71.0 | 70.4 | 70.0 | 69.0 | 69.0 | 68.8 | 68.8 | 68.2 | 70.27 |
| 72.4 | 72.8 | 72.6 | 72.0 | 71.5 | 71.2 | 70.7 | 70.5 | 70.3 | 69.9 | 69.4 | 68.8 | 69.74 |
| 72.7 | 72.3 | 71.4 | 71.0 | 70.5 | 70.4 | 70.0 | 69.5 | 69.0 | 68.7 | 68.0 | 68.2 | 70.45 |
| 70.0 | 70.2 | 69.4 | 68.5 | 67.0 | 66.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.7 | 60.7 | 60.7 | 60.5 | 60.1 | 60.0 | 66.28 |
| 61.3 | 61.0 | 61.0 | 60.7 | 60.4 | 60.4 | 60.4 | 59.6 | 59.2 | 59.0 | 58.6 | 57.8 | 60.65 |
| 63.4 | 63.6 | 63.2 | 63.4 | 63.0 | 62.6 | 62.2 | 61.5 | 60.8 | 60.0 | 59.7 | 59.2 | 61.05 |
| 66.2 | 66.0 | 65.4 | 65.2 | 65.0 | 64.7 | 64.5 | 64.2 | 63.5 | 63.2 | 62.7 | 62.3 | 63.62 |
| 69.5 | 69.5 | 69.0 | 68.5 | 68.0 | 67.5 | 67.0 | 66.6 | 65.2 | 64.5 | 64.0 | 64.2 | 66.35 |
| 69.0 | 68.8 | 68.8 | 68.6 | 68.6 | 68.0 | 67.7 | 67.7 | 67.7 | 67.5 | 67.2 | 67.0 | 67.30 |
| 72.0 | 72.0 | 70.5 | 70.0 | 69.4 | 68.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.0 | 65.8 | 65.8 | 65.4 | 65.6 | 64.3 | 68.52 |
| 73.0 | 73.0 | 73.0 | 73.0 | 72.8 | 72.4 | 71.8 | 71.0 | 70.8 | 70.5 | 70.0 | 69.6 | 70.18 |
| 76.0 | 76.0 | 75.2 | 74.5 | 74.2 | 73.6 | 73.2 | 72.5 | 72.0 | 71.4 | 70.7 | 70.0 | 72.90 |
| 72.4 | 72.0 | 71.6 | 70.9 | 70.4 | 69.8 | 68.8 | 67.8 | 67.0 | 66.5 | 66.0 | 65.2 | 69.84 |
| 71.0 | 71.0 | 70.5 | 70.2 | 69.5 | 69.0 | 68.3 | 68.6 | 68.6 | 68.3 | 67.8 | 65.4 | 68.30 |
| 72.5 | 72.5 | 72.3 | 71.7 | 71.3 | 70.6 | 70.0 | 69.2 | 68.8 | 68.4 | 68.2 | 67.3 | 69.35 |
| 67.0 | 67.0 | 67.0 | 66.6 | 66.6 | 66.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.2 | 65.8 | 65.5 | 65.2 | 65.0 | 64.2 | 66.36 |
| 66.5 | 66.3 | 65.9 | 65.6 | 65.3 | 65.0 | 64.5 | 63.9 | 63.5 | 63.0 | 63.0 | 62.5 | 65.14 |
| 69.71 | 69.59 | 69.16 | 68.73 | 68.32 | 67.92 | 67.48 | 67.00 | 66.62 | 66.27 | 65.91 | 65.26 | 67.38 |

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fall. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 560.0 | 557.7 ⁿ | 560.0 | 560.8 | 557.2 | 555.2 | 562.0 | 562.0 | 565.0 | 561.0 | 558.0 | 555.2 | 562.82 |
| 558.8 | 556.0 | 562.0 | 559.0 | 561.0 | 560.0 | 555.0 | 550.0 | 553.8 | 560.0 | 559.7 | 560.0 | 559.64 |
| 559.0 | 565.9 | 557.0 | 559.6 | 559.8 | 561.0 | 562.0 | 562.6 | 563.2 | 563.0 | 563.7 | 560.0 | 559.51 |
| 565.8 | 559.7 | 561.0 | 561.1 | 559.3 | 557.3 | 560.0 | 559.9 | 562.1 | 565.0 | 566.9 | 570.7 | 559.83 |
| 564.4 | 558.6 | 552.6 | 547.9 | 544.5 | 541.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 555.6 | 556.0 | 553.2 | 550.9 | 555.0 | 550.0 | 556.38 |
| 545.6 | 536.0 | 540.5 | 561.5 | 542.0 | 542.2 | 544.2 | 544.0 | 543.5 | 547.0 | 543.0 | 545.7 | 542.73 |
| 543.2 | 536.0 | 540.8 | 542.0 | 544.0 | 542.0 | 519.5 | 536.9 | 540.0 | 535.6 | 542.8 | 547.6 | 541.19 |
| 550.0 | 542.5 | 543.5 | 537.0 | 541.6 | 544.0 | 547.8 | 547.8 | 552.5 | 550.6 | 551.2 | 547.9 | 543.95 |
| 553.7 | 547.0 | 547.3 | 543.6 | 542.2 | 544.4 | 545.6 | 547.4 | 547.0 | 548.1 | 550.0 | 552.8 | 548.35 |
| 547.8 | 550.3 | 540.6 | 543.0 | 544.5 | 545.5 | 540.3 | 541.5 | 542.9 | 543.9 | 545.0 | 546.0 | 545.60 |
| 534.0 | 532.6 | 532.0 | 533.2 | 532.7 | 531.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 532.0 | 536.0 | 535.0 | 534.0 | 537.0 | 535.0 | 539.27 |
| 531.0 | 532.0 | 533.0 | 532.0 | 533.0 | 533.0 | 534.0 | 534.6 | 535.3 | 533.0 | 533.6 | 536.9 | 534.66 |
| 536.0 | 536.5 | 535.0 | 536.8 | 532.4 | 535.6 | 535.0 | 533.4 | 524.5 | 530.9 | 540.4 | 542.2 | 534.21 |
| 539.4 | 541.6 | 537.0 | 537.8 | 535.6 | 536.3 | 536.0 | 540.5 | 538.0 | 536.5 | 538.0 | 541.0 | 537.34 |
| 535.0 | 539.8 | 538.6 | 539.3 | 540.9 | 543.1 | 538.6 | 540.0 | 540.8 | 541.4 | 543.0 | 547.0 | 537.89 |
| 556.5 | 545.4 | 543.1 | 542.0 | 542.0 | 547.0 | 548.4 | 549.0 | 553.0 | 553.5 | 550.0 | 556.0 | 546.13 |
| 551.0 | 552.0 | 554.0 | 550.0 | 548.0 | 546.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 550.0 | 551.6 | 545.7 | 546.0 | 546.0 | 550.6 | 547.63 |
| 540.0 | 540.0 | 541.0 | 539.8 | 540.0 | 543.0 | 542.6 | 540.6 | 539.8 | 538.6 | 541.7 | 544.3 | 542.52 |
| 546.7 | 545.8 | 546.2 | 548.0 | 547.8 | 548.0 | 548.6 | 568.3 | 560.3 | 559.0 | 551.5 | 566.8 | 548.35 |
| 549.7 | 552.0 | 555.0 | 560.0 | 543.1 | 547.2 | 544.3 | 550.6 | 557.0 | 556.0 | 558.0 | 562.0 | 554.15 |
| 554.4 | 555.2 | 537.6 | 530.0 | 522.8 | 520.3 | 523.0 | 509.3 | 503.0 | 519.0 | 527.0 | 542.0 | 540.61 |
| 548.5 | 550.0 | 545.8 | 545.5 | 543.0 | 543.0 | 546.0 | 550.0 | 547.0 | 548.4 | 550.0 | 554.2 | 548.59 |
| 551.0 | 546.0 | 547.0 | 545.0 | 547.0 | 546.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 544.6 | 546.8 | 550.7 | 553.6 | 553.0 | 554.2 | 549.41 |
| 552.8 | 552.0 | 550.6 | 550.2 | 551.8 | 551.2 | 551.5 | 553.0 | 554.9 | 555.0 | 554.0 | 552.6 | 550.06 |
| 556.8 | 558.8 | 557.2 | 558.0 | 556.0 | 552.0 | 555.0 | 557.6 | 557.0 | 559.8 | 561.2 | 564.0 | 555.43 |
| 568.0 | 566.6 | 564.2 | 567.0 | 559.9 | 562.0 | 563.5 | 568.5 | 565.0 | 561.8 | 564.0 | 566.7 | 561.50 |
| 568.8 | 569.0 | 568.0 | 567.5 | 567.0 | 569.0 | 569.0 | 570.0 | 569.0 | 569.5 | 569.2 | 576.2 | 567.13 |
| 550.66 | 549.07 | 547.80 | 548.06 | 545.89 | 546.22 | 546.45 | 548.44 | 548.12 | 548.94 | 550.11 | 552.87 | 548.70 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 63.5 | 63.2 | 63.2 | 63.2 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 | 62.6 | 62.6 | 62.3 | 63.31 |
| 65.6 | 65.2 | 65.2 | 65.0 | 64.7 | 64.4 | 64.1 | 63.8 | 63.6 | 63.6 | 63.0 | 62.2 | 64.38 |
| 66.5 | 66.5 | 66.0 | 65.3 | 65.1 | 64.6 | 64.2 | 63.7 | 63.4 | 63.2 | 62.6 | 62.2 | 64.11 |
| 66.5 | 67.0 | 66.7 | 66.5 | 66.0 | 65.6 | 65.0 | 64.5 | 64.0 | 63.5 | 63.1 | 62.6 | 64.47 |
| 70.0 | 70.0 | 69.6 | 69.2 | 68.6 | 68.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71.0 | 71.0 | 70.5 | 70.4 | 70.0 | 69.5 | 67.81 |
| 78.0 | 78.0 | 77.2 | 77.0 | 76.5 | 76.0 | 75.7 | 74.7 | 74.0 | 73.5 | 73.3 | 72.2 | 74.72 |
| 79.0 | 78.5 | 78.0 | 77.0 | 76.4 | 75.5 | 75.0 | 74.6 | 74.2 | 74.0 | 73.0 | 72.2 | 75.30 |
| 75.5 | 75.5 | 75.0 | 74.2 | 73.6 | 73.0 | 72.0 | 71.4 | 70.6 | 70.4 | 69.6 | 68.3 | 72.86 |
| 75.2 | 75.2 | 74.3 | 73.8 | 73.2 | 72.6 | 72.2 | 71.5 | 71.0 | 70.6 | 70.0 | 69.5 | 72.10 |
| 79.6 | 79.4 | 78.8 | 78.2 | 77.7 | 77.0 | 76.8 | 76.4 | 76.0 | 75.4 | 74.9 | 74.4 | 75.50 |
| 85.5 | 85.5 | 84.7 | 83.8 | 83.5 | 83.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 83.2 | 82.9 | 82.5 | 82.1 | 82.0 | 81.6 | 80.87 |
| 85.4 | 85.4 | 85.0 | 84.5 | 83.5 | 82.5 | 82.0 | 81.7 | 81.5 | 80.8 | 80.0 | 79.5 | 82.70 |
| 84.0 | 83.5 | 82.6 | 82.0 | 81.3 | 80.7 | 80.0 | 79.4 | 78.8 | 78.4 | 77.6 | 76.5 | 80.59 |
| 84.5 | 84.0 | 83.6 | 83.6 | 82.8 | 82.4 | 81.6 | 81.2 | 81.0 | 80.7 | 80.3 | 79.5 | 81.27 |
| 82.2 | 82.2 | 81.4 | 80.5 | 78.5 | 77.5 | 76.4 | 77.0 | 76.6 | 76.6 | 76.5 | 75.5 | 79.43 |
| 77.5 | 77.7 | 77.2 | 76.0 | 75.4 | 74.9 | 74.5 | 73.7 | 73.2 | 72.5 | 72.0 | 71.5 | 75.27 |
| 75.0 | 74.6 | 74.4 | 74.0 | 73.5 | 73.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 75.8 | 75.8 | 75.6 | 75.4 | 75.4 | 75.0 | 73.77 |
| 82.0 | 81.5 | 80.5 | 80.2 | 80.0 | 79.4 | 79.0 | 77.6 | 76.8 | 76.5 | 76.2 | 75.0 | 78.62 |
| 76.7 | 76.3 | 75.6 | 75.4 | 75.0 | 74.6 | 74.2 | 73.8 | 73.4 | 73.0 | 72.6 | 72.0 | 75.35 |
| 72.3 | 73.0 | 71.5 | 71.2 | 70.8 | 71.0 | 70.5 | 70.5 | 70.2 | 70.0 | 69.5 | 69.2 | 71.49 |
| 71.2 | 71.4 | 71.0 | 70.5 | 70.4 | 70.2 | 70.0 | 69.5 | 69.0 | 68.5 | 68.2 | 67.6 | 69.34 |
| 72.5 | 72.5 | 72.0 | 72.0 | 72.0 | 71.5 | 71.0 | 70.0 | 70.0 | 69.7 | 69.6 | 68.5 | 70.57 |
| 74.6 | 74.6 | 74.0 | 73.6 | 73.5 | 73.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70.6 | 70.5 | 70.4 | 70.0 | 69.6 | 69.5 | 71.65 |
| 73.0 | 72.8 | 72.0 | 71.6 | 71.0 | 70.4 | 70.2 | 69.6 | 69.5 | 69.0 | 69.0 | 68.4 | 70.83 |
| 68.8 | 63.8 | 69.0 | 69.0 | 69.0 | 69.0 | 68.8 | 68.4 | 68.4 | 68.2 | 68.1 | 67.5 | 68.30 |
| 67.0 | 66.7 | 66.3 | 66.0 | 65.6 | 65.5 | 65.2 | 64.7 | 64.5 | 64.0 | 63.6 | 63.4 | 66.21 |
| 66.7 | 66.7 | 66.5 | 66.5 | 66.3 | 66.0 | 65.7 | 65.5 | 65.2 | 65.0 | 64.8 | 64.5 | 65.34 |
| 74.75 | 74.66 | 74.12 | 73.70 | 73.22 | 72.81 | 72.51 | 72.09 | 71.74 | 71.39 | 71.00 | 70.37 | 72.45 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|-------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| AUGUST. | 1 | 577.5 | 562.7 | 543.1 | 569.2 | 561.0 | 552.0 | 562.5 | 567.0 | 575.2 | 576.0 | 577.0 | 566.0 |
| | 2 | 563.8 | 559.9 | 560.0 | 547.4 | 552.4 | 550.0 | 555.0 | 558.5 | 563.0 | 560.5 ^a | 577.0 | 556.8 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 558.1 | 560.9 | 553.0 | 545.0 | 545.0 | 546.5 | 547.0 | 553.0 | 553.7 | 552.4 | 555.5 | 552.5 |
| | 5 | 531.3 | 548.0 | 542.0 | 545.8 | 552.7 | 543.5 | 550.0 | 553.8 | 552.6 | 554.7 | 550.6 | 551.0 |
| | 6 | 551.8 | 550.8 | 545.5 | 546.2 | 543.8 | 545.4 | 548.7 | 554.5 | 560.3 | 558.3 | 556.7 | 548.0 |
| | 7 | 556.2 | 548.9 | 534.6 | 538.0 | 540.5 | 538.6 | 541.0 | 546.1 | 550.0 | 552.2 | 546.4 | 546.3 |
| | 8 | 548.5 | 543.0 | 546.0 | 544.0 | 537.8 | 536.1 | 537.8 | 537.0 | 546.0 ^a | 550.0 | 563.0 | 544.8 |
| | 9 | 555.9 | 557.9 | 551.2 | 538.9 | 533.5 | 535.5 | 537.3 | 543.6 | 545.0 | 545.8 | 547.0 | 552.6 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 550.0 | 543.8 | 538.0 | 535.2 | 529.6 | 535.0 | 536.3 | 540.8 | 544.6 | 549.2 | 553.8 | 553.2 |
| | 12 | 557.9 | 558.0 | 555.4 | 547.4 | 542.0 | 547.2 | 556.6 | 560.7 | 565.6 | 568.4 | 565.0 | 561.0 |
| | 13 | 560.0 | 558.1 | 550.2 | 544.0 | 542.5 | 547.3 | 554.5 | 558.0 | 563.0 | 567.0 | 570.8 | 564.0 |
| | 14 | 564.8 | 562.7 | 558.0 | 552.0 | 554.5 | 556.8 | 562.2 | 566.5 | 571.5 | 575.0 | 571.5 | 570.0 |
| | 15 | 563.2 | 564.0 | 552.0 | 560.5 | 539.5 | 550.0 | 546.0 | 546.2 | 550.8 | 557.2 | 566.0 | 561.2 |
| | 16 | 561.0 | 556.7 | 550.0 | 550.8 | 551.0 | 555.0 | 553.2 | 556.8 | 552.4 | 556.8 | 559.3 | 557.0 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 546.0 | 542.2 | 551.4 | 547.8 | 542.8 | 539.2 | 541.8 | 549.4 | 557.4 | 563.0 | 560.3 | 554.1 |
| | 19 | 560.0 | 560.8 | 554.8 | 538.4 | 535.7 | 545.0 | 547.7 | 545.5 | 555.0 | 558.0 | 561.0 | 560.0 |
| | 20 | 558.0 | 553.6 | 549.8 | 545.8 | 540.4 | 540.6 | 546.2 | 553.3 | 562.5 | 570.5 | 564.0 | 558.6 |
| | 21 | 555.9 | 556.7 | 552.2 | 545.3 | 540.0 | 535.0 | 538.0 | 547.0 | 555.4 | 558.4 | 556.8 | 554.2 |
| | 22 | 557.0 | 553.5 | 544.0 | 534.7 | 535.0 | 535.2 | 544.4 | 552.8 | 555.8 | 560.0 | 559.2 | 556.0 |
| | 23 | 552.6 | 549.2 | 550.2 | 551.2 | 548.8 | 548.4 | 553.2 | 556.2 | 561.3 | 562.4 | 551.3 | 545.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 556.3 | 559.9 | 558.0 | 548.8 | 547.3 | 551.9 | 557.5 | 558.8 | 557.5 | 558.0 | 557.0 | 559.6 |
| | 26 | 565.4 | 559.5 | 550.9 | 541.8 | 523.8 | 526.6 | 545.8 | 545.3 | 553.0 | 555.7 | 553.0 | 554.2 |
| | 27 | 556.0 | 554.4 | 547.5 | 540.0 | 537.0 | 537.0 | 541.0 | 551.0 | 559.0 | 566.4 | 563.0 | 568.6 |
| | 28 | 567.5 | 565.0 | 557.5 | 549.2 | 548.3 | 548.0 | 550.1 | 557.8 | 568.1 | 556.8 | 566.2 | 561.2 |
| | 29 | 573.0 | 553.2 | 570.0 | 570.0 | 566.9 | 555.3 | 553.5 | 555.7 | 558.1 | 576.3 | 580.0 | 555.7 |
| | 30 | 558.0 | 545.2 | 538.8 | 533.9 | 529.5 | 535.6 | 543.2 | 538.7 | 557.4 | 560.9 | 561.2 | 562.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 558.68 | 554.95 | 550.16 | 546.59 | 543.13 | 543.72 | 548.10 | 552.08 | 557.47 | 560.38 | 561.25 | 556.71 | |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| AUGUST. | 1 | 64.2 | 64.4 | 65.0 | 65.7 | 66.8 | 67.3 | 68.0 | 68.2 | 68.7 | 69.0 | 68.6 | 68.6 |
| | 2 | 64.2 | 65.0 | 65.5 | 66.4 | 66.4 | 67.0 | 67.4 | 67.7 | 68.0 | 68.4 | 69.0 | 69.0 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 66.8 | 67.0 | 67.4 | 68.2 | 69.5 | 70.2 | 71.0 | 72.0 | 73.0 | 74.4 | 74.5 | 74.6 |
| | 5 | 69.5 | 69.5 | 70.4 | 71.0 | 71.5 | 72.6 | 73.5 | 74.2 | 74.8 | 75.5 | 76.4 | 76.6 |
| | 6 | 71.8 | 71.6 | 71.8 | 72.8 | 73.7 | 74.6 | 75.5 | 76.5 | 77.2 | 77.5 | 77.5 | 77.5 |
| | 7 | 71.3 | 71.6 | 72.3 | 73.0 | 74.5 | 75.4 | 76.4 | 77.2 | 77.1 | 79.0 | 79.3 | 79.6 |
| | 8 | 74.4 | 74.2 | 74.0 | 74.0 | 74.0 | 74.0 | 74.6 | 75.3 | 75.9 | 76.0 | 76.5 | 76.5 |
| | 9 | 73.6 | 73.5 | 74.4 | 75.2 | 75.9 | 76.9 | 77.5 | 78.0 | 78.5 | 78.2 | 79.0 | 79.8 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 74.0 | 74.0 | 74.0 | 73.7 | 73.5 | 74.0 | 74.6 | 75.6 | 75.6 | 75.5 | 75.6 | 76.0 |
| | 12 | 70.7 | 70.7 | 71.0 | 71.8 | 72.5 | 73.5 | 73.8 | 73.7 | 74.4 | 74.8 | 75.4 | 75.8 |
| | 13 | 68.2 | 68.2 | 68.5 | 68.7 | 68.7 | 69.0 | 69.4 | 69.4 | 70.0 | 70.5 | 70.9 | 71.0 |
| | 14 | 68.5 | 68.8 | 69.5 | 70.2 | 70.4 | 70.6 | 71.0 | 71.4 | 71.8 | 72.0 | 72.5 | 72.6 |
| | 15 | 67.5 | 67.8 | 68.2 | 69.5 | 70.4 | 71.5 | 72.0 | 72.3 | 72.6 | 73.2 | 73.5 | 74.0 |
| | 16 | 69.0 | 69.0 | 69.5 | 70.4 | 71.7 | 73.0 | 73.4 | 74.0 | 74.8 | 75.2 | 75.5 | 76.0 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 73.6 | 73.6 | 73.6 | 73.8 | 74.0 | 74.5 | 74.8 | 75.5 | 76.0 | 76.6 | 77.5 | 78.0 |
| | 19 | 73.2 | 73.0 | 73.0 | 73.2 | 73.2 | 73.5 | 73.7 | 74.0 | 75.0 | 74.6 | 75.0 | 75.2 |
| | 20 | 72.0 | 72.0 | 72.0 | 73.0 | 73.8 | 74.7 | 75.5 | 76.2 | 77.2 | 78.0 | 78.1 | 78.4 |
| | 21 | 74.0 | 74.4 | 75.4 | 76.5 | 76.8 | 77.4 | 78.0 | 78.4 | 79.0 | 79.2 | 79.5 | 79.8 |
| | 22 | 73.6 | 74.0 | 74.5 | 75.5 | 76.2 | 77.0 | 77.5 | 77.6 | 78.2 | 78.6 | 79.2 | 79.4 |
| | 23 | 73.3 | 73.2 | 73.8 | 74.8 | 75.8 | 76.8 | 77.6 | 78.0 | 78.6 | 79.0 | 79.8 | 79.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 70.2 | 70.8 | 72.4 | 73.5 | 74.2 | 74.8 | 75.0 | 75.2 | 75.7 | 76.0 | 76.5 | 77.0 |
| | 26 | 72.8 | 73.2 | 74.0 | 75.1 | 76.0 | 76.5 | 76.6 | 76.6 | 77.0 | 77.0 | 77.0 | 77.0 |
| | 27 | 72.5 | 72.0 | 71.6 | 71.4 | 71.0 | 71.0 | 70.8 | 71.0 | 71.5 | 71.3 | 71.3 | 71.2 |
| | 28 | 67.6 | 67.7 | 68.7 | 69.3 | 70.3 | 70.5 | 70.8 | 71.1 | 71.3 | 71.4 | 71.4 | 71.5 |
| | 29 | 68.0 | 68.0 | 68.5 | 69.2 | 70.2 | 71.0 | 71.8 | 71.5 | 72.5 | 73.5 | 73.8 | 74.5 |
| | 30 | 73.2 | 73.2 | 73.0 | 73.0 | 73.1 | 73.7 | 74.2 | 75.2 | 75.2 | 76.0 | 76.3 | 76.0 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 70.68 | 70.78 | 71.23 | 71.88 | 72.47 | 73.12 | 73.63 | 74.07 | 74.60 | 75.02 | 75.37 | 75.59 | |

* Two minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 552.0 | 549.0 | 544.5 | 532.7 | 532.0 | 526.8 | 532.0 | 532.6 | 536.0 | 538.0 | 541.6 | 565.4 | 552.99 |
| 558.0 | 556.6 | 562.0 | 550.8 | 544.8 | 540.1 | — | — | — | — | — | — | 555.54 |
| — | — | — | — | — | — | 558.2 | 558.8 | 565.4 | 549.4 | 542.6 | 542.0 | 551.57 |
| 555.9 | 550.8 | 546.8 | 552.2 | 548.6 | 542.8 | 546.0 | 557.6 | 555.0 | 554.1 | 551.2 | 554.0 | 548.54 |
| 552.0 | 550.6 | 547.6 | 547.2 | 543.9 | 543.8 | 543.8 | 546.0 | 548.0 | 544.0 | 548.0 | 552.0 | 549.73 |
| 552.8 | 548.0 | 549.0 | 547.5 | 547.0 | 549.0 | 546.0 | 551.7 | 549.2 | 543.6 | 547.6 | 552.2 | 543.18 |
| 550.0 | 544.0 | 540.0 | 531.0 | 538.0 | 539.8 | 541.5 | 543.0 | 540.0 | 537.2 | 545.0 | 548.0 | 546.37 |
| 550.0 | 550.8 | 550.0 | 544.6 | 543.0 | 545.8 | 548.0 | 549.0 | 549.0 | 553.0 | 546.8 | 549.0 | — |
| 540.2 | 533.3 | 541.2 | 543.0 | 544.0 | 544.9 | — | — | — | — | — | — | 545.35 |
| — | — | — | — | — | — | 549.8 | 548.5 | 551.0 | 550.6 | 547.8 | 550.0 | 548.03 |
| 551.9 | 552.0 ^b | 550.5 | 551.2 | 552.0 | 552.6 | 554.0 | 554.0 | 556.0 | 556.0 | 556.5 | 556.5 | 557.96 |
| 558.0 | 557.0 | 557.0 | 558.7 | 561.3 | 557.0 | 557.0 | 558.8 | 557.8 | 563.9 | 554.8 | 564.6 | 559.62 |
| 563.2 | 562.0 | 561.5 | 562.6 | 562.0 | 562.3 | 563.2 | 563.0 | 563.2 | 562.5 | 561.8 | 564.1 | 564.63 |
| 570.0 | 570.5 | 572.0 | 566.5 | 567.3 | 573.3 | 560.4 | 564.6 | 561.6 | 559.5 | 559.1 | 560.9 | 556.54 |
| 558.2 | 563.2 | 555.8 | 555.0 | 556.2 | 558.0 | 557.6 | 558.8 | 559.0 | 558.8 | 558.7 | 561.0 | — |
| 558.0 | 555.1 | 554.2 | 555.8 | 554.0 | 554.0 | — | — | — | — | — | — | 553.19 |
| — | — | — | — | — | — | 546.0 | 541.7 | 546.0 | 547.5 | 551.0 | 553.2 | 549.87 |
| 550.0 | 545.8 | 547.8 | 547.0 | 547.0 | 548.0 | 550.0 | 552.1 | 550.6 | 552.2 | 553.2 | 557.8 | 553.11 |
| 558.0 | 556.5 | 557.5 | 557.0 | 552.2 | 549.5 | 550.0 | 548.6 | 555.2 | 556.2 | 556.8 | 555.3 | 554.66 |
| 555.3 | 553.3 | 555.2 | 557.8 | 558.2 | 558.0 | 558.2 | 554.4 | 555.1 | 555.2 | 553.7 | 554.2 | 553.33 |
| 552.6 | 553.2 | 558.6 | 558.0 | 557.0 | 558.7 | 555.0 | 556.7 | 557.0 | 558.0 | 559.2 | 561.0 | 548.86 |
| 555.7 | 552.1 | 544.0 | 545.0 | 553.0 | 549.0 | 550.2 | 541.0 | 546.5 | 546.5 | 549.0 | 553.0 | — |
| 551.8 | 547.8 | 539.0 | 547.0 | 549.0 | 549.0 | — | — | — | — | — | — | 551.34 |
| — | — | — | — | — | — | 549.0 | 553.2 | 553.2 | 553.0 | 554.4 | 555.2 | 558.73 |
| 562.0 | 553.5 | 555.0 | 556.0 | 559.2 | 561.0 | 563.2 | 562.0 | 562.4 | 565.6 | 568.8 | 570.2 | 550.27 |
| 553.2 | 552.0 | 556.0 | 553.2 | 551.8 | 552.4 | 551.2 | 552.0 | 550.0 | 552.0 | 552.0 | 555.7 | 557.77 |
| 563.8 | 558.4 | 560.8 | 561.7 | 563.0 | 562.8 | 563.2 | 563.4 | 565.0 | 564.5 | 567.0 | 572.0 | 559.72 |
| 560.6 | 558.0 | 557.3 | 563.8 | 565.0 | 567.1 | 569.8 | 568.5 | 560.0 | 536.0 | 560.5 | 571.0 | 550.32 |
| 533.5 | 539.0 | 529.5 | 538.5 | 537.5 | 550.0 | 535.2 | 539.0 | 523.2 | 509.6 | 546.0 | 559.0 | — |
| 556.0 | 548.2 | 552.0 | 553.0 | 557.2 | 556.0 | — | — | — | — | — | — | 551.65 |
| — | — | — | — | — | — | 552.8 | 561.6 | 557.8 | 560.0 | 564.4 | 556.1 | — |
| 554.72 | 552.33 | 551.72 | 551.42 | 551.70 | 551.99 | 552.05 | 553.10 | 552.81 | 551.03 | 553.75 | 557.44 | 552.80 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 68.4 | 68.4 | 68.4 | 68.3 | 68.4 | 68.0 | 67.4 | 66.8 | 65.6 | 65.8 | 65.0 | 64.3 | 67.05 |
| 69.2 | 69.2 | 69.0 | 68.6 | 68.2 | 68.0 | — | — | — | — | — | — | 67.61 |
| — | — | — | — | — | — | 68.2 | 68.2 | 68.0 | 67.6 | 67.5 | 67.0 | 71.59 |
| 74.4 | 74.6 | 74.6 | 74.0 | 73.2 | 72.6 | 72.3 | 71.8 | 71.0 | 70.9 | 70.3 | 69.8 | 73.65 |
| 76.7 | 76.5 | 76.2 | 75.8 | 75.2 | 74.8 | 74.2 | 73.5 | 73.0 | 72.4 | 72.0 | 71.8 | 75.04 |
| 77.5 | 77.5 | 77.1 | 76.7 | 76.4 | 75.5 | 75.0 | 74.3 | 74.0 | 73.4 | 73.2 | 72.4 | 76.25 |
| 79.5 | 79.0 | 78.2 | 78.0 | 77.5 | 77.2 | 77.0 | 76.4 | 75.6 | 75.4 | 75.0 | 74.5 | 75.17 |
| 76.5 | 76.5 | 76.4 | 76.2 | 75.8 | 75.5 | 75.4 | 74.8 | 74.7 | 74.5 | 74.3 | 74.0 | — |
| 80.0 | 79.8 | 79.4 | 79.0 | 78.6 | 78.4 | — | — | — | — | — | — | 76.83 |
| — | — | — | — | — | — | 74.9 | 74.9 | 74.9 | 74.8 | 74.6 | 74.2 | 73.97 |
| 76.4 | 75.2 | 74.2 | 74.0 | 73.8 | 73.5 | 73.0 | 72.5 | 72.0 | 72.0 | 71.5 | 71.0 | 73.01 |
| 75.8 | 75.1 | 74.5 | 74.0 | 73.5 | 73.0 | 72.5 | 71.8 | 71.8 | 71.6 | 71.0 | 69.6 | 69.75 |
| 71.0 | 71.0 | 71.0 | 70.7 | 70.5 | 70.4 | 70.3 | 70.0 | 69.6 | 69.5 | 69.0 | 68.6 | 70.38 |
| 72.6 | 72.4 | 72.2 | 71.6 | 70.5 | 69.5 | 69.0 | 68.7 | 68.7 | 68.5 | 68.2 | 68.0 | 71.32 |
| 74.0 | 73.6 | 73.2 | 72.7 | 72.4 | 71.8 | 71.3 | 70.8 | 70.5 | 70.0 | 69.8 | 69.0 | — |
| 76.4 | 76.0 | 74.5 | 75.0 | 74.8 | 74.4 | — | — | — | — | — | — | 73.65 |
| — | — | — | — | — | — | 74.5 | 74.5 | 74.3 | 74.0 | 74.0 | 73.8 | 75.72 |
| 78.0 | 78.0 | 77.5 | 77.2 | 76.9 | 76.5 | 76.0 | 75.8 | 75.4 | 75.4 | 75.0 | 74.2 | 73.85 |
| 75.2 | 75.2 | 74.5 | 74.5 | 74.3 | 74.2 | 74.0 | 73.5 | 73.0 | 72.6 | 72.5 | 72.2 | 75.66 |
| 78.4 | 77.8 | 77.7 | 77.4 | 76.8 | 76.4 | 76.2 | 75.5 | 75.2 | 75.0 | 74.6 | 74.0 | 77.34 |
| 80.0 | 80.0 | 79.2 | 78.5 | 78.0 | 77.6 | 76.9 | 76.4 | 76.1 | 75.5 | 75.0 | 74.5 | 76.60 |
| 79.4 | 79.0 | 78.2 | 77.7 | 77.4 | 76.9 | 76.4 | 75.5 | 75.0 | 74.5 | 74.0 | 73.2 | — |
| 79.8 | 79.2 | 79.0 | 78.5 | 78.0 | 77.5 | — | — | — | — | — | — | 76.64 |
| — | — | — | — | — | — | 75.4 | 75.2 | 74.8 | 74.3 | 73.8 | 73.4 | 74.95 |
| 77.0 | 76.7 | 76.7 | 76.5 | 76.5 | 76.3 | 76.0 | 75.4 | 75.0 | 74.2 | 74.0 | 73.2 | 75.30 |
| 77.0 | 76.7 | 76.5 | 76.0 | 75.4 | 75.0 | 74.6 | 74.2 | 73.8 | 73.4 | 73.2 | 72.6 | 70.75 |
| 71.2 | 71.2 | 71.2 | 71.0 | 71.0 | 70.6 | 70.5 | 69.6 | 69.5 | 69.0 | 68.5 | 68.0 | 69.88 |
| 71.5 | 71.2 | 70.8 | 70.4 | 69.8 | 69.4 | 69.3 | 69.0 | 68.8 | 68.5 | 68.5 | 68.3 | 72.64 |
| 74.8 | 74.9 | 75.0 | 74.6 | 74.6 | 74.6 | 74.0 | 73.8 | 73.8 | 73.8 | 73.6 | 73.3 | — |
| 76.0 | 75.0 | 74.2 | 73.6 | 73.5 | 73.2 | — | — | — | — | — | — | 73.03 |
| — | — | — | — | — | — | 70.4 | 70.0 | 69.4 | 69.0 | 68.4 | 68.0 | — |
| 75.64 | 75.37 | 74.98 | 74.63 | 74.27 | 73.88 | 73.26 | 72.80 | 72.44 | 72.15 | 71.79 | 71.27 | 73.37 |

^b Seven minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| One Scale Division = $\cdot 000087$ parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah $^{\circ}$ = $\cdot 000234$. | | | | | | | | | | | | |
| Mean Göttingen Time. } SEPTEMBER. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 1 | 559.6 | 560.2 | 554.9 | 544.1 | 532.0 | 536.8 | 551.8 | 564.0 | 563.0 | 570.0 | 559.4 | |
| 2 | 560.0 | 559.0 | 547.4 | 530.5 | 537.0 | 533.2 | 559.3 | 555.2 | 567.2 | 557.2 | 567.4 | 563.8 |
| 3 | 555.2 | 556.6 | 543.6 | 523.2 | 529.5 | 544.5 | 556.8 | 565.8 | 562.5 | 558.4 | 558.5 | 561.7 |
| 4 | 556.2 | 557.0 | 550.2 | 534.3 | 527.6 | 539.0 | 551.8 | 556.8 | 559.0 | 562.3 | 567.9 | 559.8 |
| 5 | 564.8 | 558.5 | 549.0 | 541.2 | 538.4 | 541.6 | 548.1 | 560.5 | 563.8 | 564.2 | 568.2 | 569.0 |
| 6 | 567.2 | 563.8 | 549.8 | 542.8 | 550.8 | 551.3 | 553.0 | 558.5 | 571.0 | 575.0 | 577.0 | 577.4 |
| 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| 8 | 566.9 | 562.5 | 565.0 | 561.0 | 549.0 | 555.0 | 559.0 | 566.2 | 573.2 | 577.4 | 579.0 | 577.8 |
| 9 | 571.5 | 570.0 | 570.0 | 564.8 | 562.0 | 561.1 | 568.2 | 567.8 | 573.1 | 576.4 | 580.9 | 576.3 |
| 10 | 578.6 | 576.0 | 570.2 | 562.6 | 565.3 | 569.0 | 564.5 | 567.7 | 573.2 | 575.0 | 579.0 | 577.8 |
| 11 | 580.3 | 581.7 | 575.8 | 563.0 | 559.6 | 564.2 | 568.0 | 571.0 | 577.5 | 576.4 | 583.7 | 573.5 |
| 12 | 584.5 | 583.0 | 573.0 | 564.0 | 562.2 | 558.2 | 565.4 | 571.5 | 576.0 | 581.1 | 576.0 | 582.2 |
| 13 | 583.9 | 575.6 | 576.6 | 570.0 | 567.0 | 566.0 | 565.5 | 573.4 | 587.4 | 566.6 | 580.5 | 582.9 |
| 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| 15 | 576.0 | 573.0 | 564.0 | 560.4 | 557.2 | 562.0 | 571.4 | 575.2 | 578.3 | 577.2 | 578.8 | 578.6 |
| 16 | 585.0 | 584.0 | 576.0 | 566.8 | 569.0 | 575.4 | 578.4 | 581.2 | 586.0 | 587.4 | 578.0 | 576.0 |
| 17 | 586.2 | 575.6 | 578.6 | 573.6 | 571.9 | 573.2 | 577.4 | 582.8 | 586.0 | 581.4 | 605.6 | 581.5 |
| 18 | 576.0 | 572.1 | 562.1 | 561.0 | 556.0 | 561.1 | 561.4 | 567.6 | 572.0 | 574.0 | 572.0 | 570.4 |
| 19 | 580.4 | 573.0 | 565.9 | 553.0 | 554.0 | 560.0 | 566.0 | 570.2 | 571.4 | 570.0 | 566.0 | 565.8 |
| 20 | 576.0 | 573.5 | 569.0 | 566.0 | 558.6 | 562.0 | 566.2 | 572.4 | 575.8 | 578.4 | 573.5 | 573.6 |
| 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| 22 | 588.0 | 590.3 | 587.6 | 583.0 | 579.2 | 578.2 | 580.0 | 584.0 | 589.1 | 593.8 | 592.3 | 593.0 |
| 23 | 593.0 | 590.0 | 587.8 | 584.5 | 582.9 | 587.0 ^b | 590.3 | 593.0 | 592.5 | 594.0 | 593.8 | 593.0 |
| 24 | 592.0 | 582.1 | 581.3 | 583.0 | 580.1 | 585.0 | 587.7 | 589.0 | 599.5 | 603.0 | 599.2 | 592.8 |
| 25 | 586.0 | 556.5 | 545.5 | 589.7 | 575.7 | 558.3 | 544.3 | 577.1 | 585.1 | 580.5 | 572.0 | 561.4 |
| 26 | 588.0 | 586.5 | 583.0 | 574.5 | 570.5 | 578.5 | 579.2 | 583.8 | 583.3 | 579.7 | 580.2 | 582.3 |
| 27 | 583.0 | 587.2 | 585.0 | 582.2 | 569.4 | 552.8 | 559.0 | 558.2 | 569.0 | 557.9 | 569.2 | 570.0 |
| 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| 29 | 583.4 | 582.0 | 576.4 | 569.5 | 568.2 | 565.7 | 569.5 | 573.3 | 575.6 | 569.0 | 570.0 | 564.0 |
| 30 | 576.0 | 570.2 | 567.0 | 561.3 | 558.0 | 559.5 | 563.2 | 568.0 | 571.0 | 576.0 | 576.5 | 575.0 |
| Hourly Means | 576.83 | 573.07 | 567.49 | 561.92 | 558.89 | 560.72 | 565.59 | 571.32 | 576.25 | 575.20 | 577.51 | 574.58 |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SEPTEMBER. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 67.6 | 67.4 | 68.0 | 68.0 | 68.5 | 68.7 | 69.2 | 70.0 | 70.4 | 70.4 | 70.4 | 70.0 |
| 2 | 68.5 | 68.8 | 69.5 | 70.5 | 70.5 | 70.6 | 71.2 | 71.5 | 72.0 | 72.2 | 72.4 | 72.4 |
| 3 | 68.5 | 68.8 | 69.6 | 70.4 | 71.2 | 71.8 | 72.2 | 72.8 | 73.6 | 73.6 | 73.8 | 74.5 |
| 4 | 70.5 | 70.5 | 70.8 | 69.8 | 70.0 | 70.6 | 71.4 | 72.3 | 73.0 | 73.6 | 73.8 | 74.0 |
| 5 | 67.6 | 67.3 | 67.6 | 68.0 | 68.6 | 69.3 | 69.5 | 70.0 | 70.0 | 70.0 | 70.2 | 70.0 |
| 6 | 65.0 | 65.4 | 65.3 | 65.1 | 65.4 | 65.5 | 65.7 | 66.0 | 66.5 | 66.7 | 67.0 | 67.0 |
| 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| 8 | 62.6 | 62.7 | 63.5 | 64.5 | 64.9 | 65.0 | 65.0 | 64.8 | 64.6 | 65.0 | 65.0 | 65.0 |
| 9 | 61.4 | 61.0 | 60.8 | 61.6 | 62.7 | 63.4 | 64.0 | 65.0 | 65.6 | 66.0 | 66.2 | 66.3 |
| 10 | 61.8 | 62.0 | 62.5 | 63.4 | 64.4 | 64.8 | 64.8 | 64.8 | 64.8 | 65.2 | 65.5 | 65.6 |
| 11 | 60.2 | 60.6 | 61.0 | 62.3 | 62.7 | 63.0 | 63.2 | 63.4 | 63.5 | 63.6 | 63.6 | 63.5 |
| 12 | 58.0 | 58.5 | 59.5 | 60.5 | 61.1 | 61.5 | 61.9 | 62.5 | 62.5 | 62.6 | 63.0 | 63.2 |
| 13 | 58.8 | 58.8 | 58.8 | 59.0 | 59.0 | 59.0 | 59.6 | 59.7 | 59.7 | 59.8 | 60.0 | 60.2 |
| 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| 15 | 61.0 | 61.5 | 62.0 | 62.5 | 63.5 | 63.8 | 64.0 | 64.6 | 65.0 | 65.2 | 65.6 | 66.0 |
| 16 | 59.5 | 59.5 | 60.3 | 61.2 | 61.6 | 62.2 | 62.0 | 61.8 | 62.0 | 62.4 | 63.0 | 63.0 |
| 17 | 58.0 | 57.4 | 57.2 | 57.5 | 58.0 | 58.7 | 59.5 | 60.0 | 61.0 | 62.0 | 62.5 | 63.0 |
| 18 | 62.4 | 62.4 | 62.5 | 62.6 | 63.5 | 64.8 | 66.2 | 67.5 | 68.0 | 68.8 | 69.2 | 69.2 |
| 19 | 62.0 | 62.0 | 62.5 | 63.7 | 64.0 | 64.5 | 64.5 | 64.5 | 64.8 | 65.0 | 65.0 | 65.8 |
| 20 | 62.5 | 62.0 | 62.0 | 62.0 | 62.0 | 61.8 | 62.0 | 62.3 | 62.4 | 62.4 | 62.4 | 62.3 |
| 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| 22 | 53.5 | 53.5 | 54.0 | 54.6 | 55.2 | 55.8 | 56.2 | 56.5 | 56.8 | 57.2 | 57.7 | 57.8 |
| 23 | 56.5 | 56.2 | 56.0 | 55.9 | 55.8 | 55.9 | 56.0 | 56.0 | 56.0 | 56.0 | 56.1 | 56.4 |
| 24 | 56.0 | 56.0 | 56.5 | 56.5 | 56.6 | 56.9 | 57.2 | 57.5 | 57.5 | 57.6 | 58.0 | 58.0 |
| 25 | 56.2 | 56.4 | 56.8 | 56.8 | 57.0 | 57.8 | 58.5 | 58.8 | 59.3 | 60.0 | 60.2 | 60.2 |
| 26 | 57.4 | 57.0 | 56.8 | 56.8 | 56.8 | 56.8 | 57.0 | 57.4 | 57.8 | 58.7 | 60.0 | 60.5 |
| 27 | 57.4 | 57.4 | 57.6 | 57.6 | 57.8 | 58.6 | 59.4 | 60.4 | 61.0 | 61.7 | 62.2 | 62.0 |
| 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| 29 | 61.2 | 61.4 | 62.4 | 63.4 | 64.3 | 65.3 | 66.0 | 66.5 | 67.0 | 67.5 | 67.8 | 67.5 |
| 30 | 65.5 | 65.3 | 65.3 | 65.0 | 64.9 | 64.8 | 65.0 | 65.2 | 65.8 | 66.0 | 66.0 | 66.0 |
| Hourly Means | 61.52 | 61.53 | 61.88 | 62.28 | 62.69 | 63.11 | 63.51 | 63.92 | 64.25 | 64.58 | 64.87 | 64.98 |

^a Two minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = .000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 562.0 | Sc. Div. 556.0 | Sc. Div. 559.7 | Sc. Div. 559.2 | Sc. Div. 558.5 | Sc. Div. 536.8 | Sc. Div. 532.4 | Sc. Div. 538.3 | — | — | — | — | Sc. Div. 553.13 |
| 537.5 | 546.6 | 551.8 | 551.4 | 553.0 | 557.0 | 556.4 | 567.5 | 562.2 | 561.0 | 562.0 | 554.0 | 554.07 |
| 559.3 | 555.7 | 554.9 | 556.9 | 555.7 | 558.3 | 552.0 | 550.2 | 554.0 | 556.0 | 542.5 | 545.2 | 552.37 |
| 558.0 | 547.0 | 558.3 | 555.0 ^a | 549.0 | 561.0 | 560.0 | 563.2 | 560.0 | 561.0 | 564.8 | 563.8 | 555.13 |
| 561.0 | 561.0 | 564.0 | 564.2 | 566.0 | 564.2 | 566.4 | 568.6 | 570.0 | 565.1 | 564.1 | 565.0 | 560.29 |
| 575.2 | 570.2 | 571.0 | 568.8 | 570.4 | 569.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 557.3 | 567.1 | 562.0 | 561.9 | 568.4 | 570.4 | 564.59 |
| 576.3 | 576.6 | 567.0 | 573.4 | 573.0 | 578.1 | 579.6 | 579.0 | 578.5 | 578.5 | 573.5 | 576.0 | 570.90 |
| 578.7 | 566.1 | 568.2 | 575.0 | 576.8 | 576.2 | 573.5 | 572.0 | 570.0 | 577.5 | 575.5 | 578.0 | 572.07 |
| 578.0 | 579.2 | 575.5 | 577.5 | 577.0 | 580.0 | 580.7 | 572.6 | 578.2 | 576.0 | 576.2 | 578.2 | 574.50 |
| 575.0 | 576.5 | 578.0 | 576.0 | 561.5 | 564.0 | 560.2 | 574.9 | 575.1 | 577.6 | 582.9 | 581.8 | 573.26 |
| 576.8 | 573.4 | 570.3 | 578.1 | 578.3 | 576.8 | 574.4 | 573.9 | 565.4 | 590.0 | 584.0 | 586.0 | 575.27 |
| 582.9 | 581.2 | 581.0 | 579.6 | 589.0 | 578.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 576.0 | 576.0 | 577.0 | 577.2 | 578.0 | 575.0 | 576.97 |
| 578.4 | 579.6 | 578.6 | 576.8 | 577.0 | 581.0 | 580.0 | 578.0 | 576.0 | 582.0 | 580.0 | 584.5 | 575.17 |
| 582.0 | 579.0 | 576.8 | 577.0 | 575.5 | 586.0 | 578.0 | 581.4 | 581.0 | 583.3 | 582.0 | 587.4 | 579.69 |
| 558.5 | 559.5 | 548.0 | 560.0 | 574.2 | 574.0 | 571.2 | 573.4 | 556.0 | 550.4 | 577.4 | 575.4 | 572.99 |
| 572.6 | 568.0 | 574.2 | 565.6 | 553.2 | 576.6 | 554.8 | 550.1 | 570.4 | 564.3 | 572.0 | 573.9 | 566.72 |
| 572.0 | 573.3 | 575.0 | 576.4 | 574.0 | 573.9 | 570.9 | 561.7 | 558.5 | 570.0 | 575.0 | 577.0 | 568.89 |
| 576.0 | 573.0 | 576.0 | 572.0 | 573.0 | 567.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 585.0 | 588.5 | 585.0 | 589.0 | 591.0 | 590.0 | 575.47 |
| 592.2 | 592.0 | 592.0 | 591.1 | 591.0 | 590.9 | 592.5 | 592.2 | 590.0 | 592.8 | 593.2 | 593.6 | 589.25 |
| 603.0 | 604.0 | 607.0 | 598.0 | 598.2 | 593.0 | 578.8 | 586.4 | 590.2 | 592.2 | 591.8 | 594.0 | 592.43 |
| 590.2 | 581.2 | 571.0 | 551.4 | 549.7 | 540.2 | 537.7 | 529.6 | 567.9 | 507.4 | 574.4 | 580.0 | 573.14 |
| 569.5 | 569.4 | 578.0 | 583.1 | 587.2 | 581.2 | 578.0 | 565.0 | 584.5 | 583.1 | 582.2 | 580.0 | 573.89 |
| 580.1 | 577.6 | 573.7 | 578.0 | 574.4 | 580.4 | 581.0 | 579.0 | 582.0 | 577.5 | 580.5 | 586.0 | 579.99 |
| 568.8 | 568.3 | 565.2 | 571.1 | 584.0 | 556.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 574.0 ^c | 571.5 | 577.0 | 574.8 | 578.2 | 577.3 | 571.21 |
| 558.7 | 561.0 | 554.0 | 557.0 | 561.2 | 568.5 | 567.7 | 561.2 | 572.0 | 570.0 | 569.6 | 576.8 | 568.51 |
| 575.0 | 577.2 | 572.6 | 571.4 | 573.2 | 571.0 | 573.4 | 573.0 | 573.0 | 577.2 | 575.2 | 579.2 | 571.38 |
| 572.99 | 571.33 | 570.84 | 570.92 | 571.31 | 570.83 | 568.92 | 569.01 | 572.64 | 571.83 | 575.78 | 577.14 | 570.93 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 69.8 | 69.5 | 69.7 | 69.4 | 69.3 | 69.2 | 69.2 | 69.2 | — | — | — | — | 69.19 |
| 72.2 | 71.8 | 71.6 | 71.4 | 71.0 | 70.9 | 70.5 | 70.0 | 69.7 | 69.5 | 69.0 | 68.6 | 70.68 |
| 74.9 | 74.2 | 74.0 | 73.5 | 73.0 | 72.7 | 72.5 | 72.0 | 71.5 | 71.2 | 70.7 | 70.7 | 72.15 |
| 74.0 | 73.0 | 72.5 | 72.2 | 71.9 | 71.4 | 71.4 | 70.4 | 69.5 | 68.7 | 68.4 | 68.0 | 71.32 |
| 70.0 | 69.5 | 69.1 | 69.0 | 68.5 | 68.0 | 67.8 | 67.3 | 66.8 | 66.4 | 66.0 | 65.8 | 68.43 |
| 67.0 | 66.8 | 66.8 | 67.0 | 67.0 | 67.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65.2 | 65.0 | 64.6 | 64.2 | 63.8 | 63.5 | 65.77 |
| 65.0 | 64.8 | 64.4 | 64.0 | 63.6 | 63.2 | 62.8 | 62.5 | 62.3 | 62.2 | 62.2 | 62.0 | 63.82 |
| 66.3 | 66.0 | 65.8 | 65.8 | 65.0 | 64.8 | 64.5 | 63.9 | 63.5 | 63.0 | 62.5 | 62.0 | 64.05 |
| 65.5 | 65.0 | 64.6 | 64.1 | 63.9 | 63.0 | 62.8 | 62.0 | 62.0 | 61.6 | 61.2 | 60.6 | 63.58 |
| 63.6 | 63.5 | 63.0 | 62.7 | 62.2 | 62.0 | 61.8 | 61.0 | 60.0 | 59.5 | 59.2 | 58.5 | 61.98 |
| 63.2 | 62.4 | 62.0 | 61.4 | 61.0 | 60.4 | 60.0 | 60.0 | 59.3 | 59.0 | 59.0 | 59.0 | 60.90 |
| 60.4 | 61.0 | 61.4 | 62.0 | 61.4 | 61.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 62.6 | 62.6 | 62.4 | 62.3 | 62.0 | 61.5 | 60.57 |
| 65.6 | 65.3 | 64.8 | 64.0 | 63.8 | 63.2 | 63.0 | 62.6 | 62.0 | 62.0 | 61.5 | 60.0 | 63.44 |
| 63.0 | 63.0 | 62.5 | 62.4 | 62.0 | 61.0 | 60.5 | 60.0 | 59.5 | 59.2 | 59.0 | 58.4 | 61.21 |
| 63.0 | 63.1 | 63.0 | 62.8 | 62.8 | 62.6 | 62.6 | 62.6 | 62.4 | 62.4 | 62.5 | 62.4 | 61.13 |
| 69.4 | 68.0 | 67.0 | 66.8 | 65.6 | 65.2 | 64.6 | 64.0 | 63.5 | 63.2 | 63.0 | 62.8 | 65.42 |
| 65.5 | 65.0 | 64.6 | 64.5 | 64.0 | 64.0 | 63.6 | 63.2 | 63.2 | 63.2 | 63.0 | 62.6 | 63.95 |
| 62.1 | 62.0 | 61.9 | 61.4 | 61.0 | 60.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.0 | 55.5 | 55.0 | 54.5 | 54.2 | 53.7 | 60.18 |
| 57.5 | 57.2 | 57.0 | 57.0 | 56.8 | 56.8 | 56.8 | 56.8 | 56.6 | 56.6 | 56.6 | 56.4 | 56.29 |
| 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.2 | 56.2 | 56.2 | 56.3 | 56.2 | 56.22 |
| 58.0 | 58.0 | 58.2 | 58.2 | 58.4 | 58.3 | 58.1 | 58.0 | 57.6 | 57.4 | 57.0 | 56.6 | 57.42 |
| 60.0 | 59.8 | 59.8 | 59.4 | 59.4 | 59.0 | 58.8 | 58.4 | 58.4 | 58.0 | 57.8 | 57.5 | 58.51 |
| 60.5 | 60.5 | 60.3 | 60.0 | 59.8 | 59.6 | 59.5 | 59.0 | 58.9 | 58.4 | 57.9 | 57.9 | 58.55 |
| 61.5 | 61.0 | 60.8 | 60.5 | 60.2 | 60.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.6 | 60.7 | 60.7 | 60.5 | 61.0 | 61.2 | 60.08 |
| 67.4 | 67.0 | 66.9 | 66.6 | 66.2 | 66.0 | 66.0 | 66.0 | 65.8 | 65.5 | 66.0 | 65.5 | 65.63 |
| 65.6 | 65.3 | 65.3 | 64.6 | 64.5 | 64.4 | 64.4 | 64.0 | 63.8 | 63.6 | 63.4 | 63.0 | 64.87 |
| 64.90 | 64.58 | 64.37 | 64.12 | 63.80 | 63.53 | 63.16 | 62.80 | 62.21 | 61.93 | 61.73 | 61.38 | 63.24 |

^b Five minutes late.

^c Six minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|--------|-------|
| One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = .000234. | | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | | |
| OCTOBER. | 1 | 569.9 | 576.0 | 573.8 | 567.0 | 558.0 | 561.1 | 564.8 | 563.4 | 567.2 | 577.4 | 575.4 | 577.2 | |
| | 2 | 585.5 | 583.0 | 581.0 | 576.2 | 569.0 | 563.2 | 564.8 | 573.2 | 578.1 | 582.8 | 583.0 | 582.5 | |
| | 3 | 585.7 | 580.2 | 582.6 | 577.1 | 570.6 | 556.9 | 563.2 | 567.7 | 571.9 | 581.8 | 585.7 | 584.0 | |
| | 4 | 582.6 | 580.4 | 581.0 | 577.0 | 572.7 | 570.7 | 572.6 | 575.7 | 578.8 | 583.5 | 584.0 | 584.5 | |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 599.5 | 597.0 | 593.1 | 587.2 | 586.0 | 587.0 | 584.0 | 586.0 | 586.8 | 587.0 | 593.0 | 593.0 | 592.2 |
| | 7 | 567.8 | 597.0 | 596.0 | 594.0 | 595.0 | 592.0 | 594.0 | 596.0 | 596.0 | 596.0 | 596.0 | 587.8 | 589.4 |
| | 8 | 591.0 | 588.0 | 586.0 | 582.9 | 582.4 | 580.0 | 584.2 | 583.3 | 579.2 | 582.0 | 586.4 | 582.0 | 582.0 |
| | 9 | 588.0 | 584.4 | 587.0 | 588.2 | 584.0 | 578.4 ^b | 574.9 | 579.7 | 586.5 | 597.1 | 580.8 | 580.8 | 580.0 |
| | 10 | 570.8 | 565.4 | 573.0 | 574.9 | 569.2 | 559.1 | 562.5 | 571.0 | 573.5 | 571.0 | 567.0 | 574.5 | 574.5 |
| | 11 | 576.0 | 580.9 | 579.0 | 577.0 | 568.0 | 564.9 | 570.8 | 573.0 | 573.0 ^c | 571.5 | 572.0 | 574.2 | 574.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 589.0 | 592.1 | 590.2 | 589.0 | 588.9 | 591.0 | 592.0 | 593.2 | 593.7 | 590.4 | 589.6 | 589.1 | 589.1 |
| | 14 | 591.0 | 588.0 | 585.0 | 583.2 | 580.0 | 579.4 | 583.0 | 586.8 | 591.6 | 591.0 | 592.6 | 589.0 | 589.0 |
| | 15 | 597.0 | 593.2 | 587.2 | 583.4 | 578.0 ^b | 586.8 | 591.0 | 594.5 | 603.4 | 597.0 | 597.8 | 597.0 | 597.0 |
| | 16 | 601.0 | 598.4 | 593.5 | 588.0 | 589.3 | 592.0 | 596.0 | 598.2 | 598.0 | 602.0 | 601.0 | 600.0 | 600.0 |
| | 17 | 601.1 | 598.4 | 596.0 | 590.1 | 595.0 | 597.8 | 598.0 | 598.5 | 599.5 | 600.0 | 597.0 | 592.2 | 592.2 |
| | 18 | 597.8 | 598.0 | 597.6 | 594.0 | 590.0 | 589.0 | 595.0 | 597.0 | 596.2 | 598.4 | 596.0 | 590.2 | 590.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 613.0 | 603.9 | 584.5 | 579.2 | 603.2 | 594.2 | 592.6 | 587.0 | 588.8 | 592.6 | 593.8 | 591.5 | 591.5 |
| | 21 | 596.2 | 602.7 | 604.0 | 597.0 | 596.2 | 593.7 | 595.1 | 595.5 | 597.3 | 613.1 | 583.5 | 593.1 | 593.1 |
| | 22 | 606.2 | 605.6 | 603.3 | 600.8 | 600.9 | 596.8 | 598.1 | 605.1 | 607.3 | 608.8 | 605.0 | 603.0 | 603.0 |
| | 23 | 602.5 | 601.9 | 600.0 | 597.0 | 593.0 | 590.2 | 590.4 | 590.0 | 592.1 | 594.8 | 596.2 | 595.4 | 595.4 |
| | 24 | 599.0 | 597.8 | 601.4 | 597.0 | 594.0 ^d | 592.2 | 591.0 | 590.6 | 589.2 | 586.0 | 582.3 | 583.8 | 583.8 |
| | 25 | 594.0 | 591.0 | 591.0 | 589.2 | 587.0 | 588.2 | 592.0 | 588.6 | 586.2 | 588.4 | 584.8 | 585.0 | 585.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 598.0 | 594.4 | 593.2 | 590.2 | 590.4 | 588.4 | 592.8 | 588.5 | 586.0 | 588.7 | 588.0 | 587.8 | 587.8 |
| | 28 | 595.4 | 592.2 | 590.4 | 589.6 | 589.5 | 586.0 | 587.9 | 589.2 | 588.0 | 588.2 | 590.4 | 588.0 | 588.0 |
| | 29 | 589.8 | 590.2 | 586.9 | 581.5 | 578.0 | 580.9 | 582.0 | 579.7 | 586.0 | 588.0 | 590.5 | 591.2 | 591.2 |
| | 30 | 590.0 | 586.2 | 579.8 | 582.0 | 578.0 | 574.0 | 574.2 | 577.0 | 582.2 | 587.0 | 590.0 | 589.2 | 589.2 |
| | 31 | 594.0 | 587.5 | 583.5 | 582.2 | 577.0 | 577.8 | 578.6 | 583.9 | 589.2 | 590.0 | 597.8 | 583.0 | 583.0 |
| Hourly Means | 592.66 | 590.88 | 588.88 | 585.74 | 583.83 | 581.91 | 583.91 | 585.64 | 587.62 | 590.17 | 588.57 | 587.74 | 587.74 | |

| TEMPERATURE OF THE BIPOLAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| OCTOBER. | 1 | 62.7 | 62.4 | 62.2 | 62.9 | 63.3 | 63.8 | 64.0 | 64.0 | 64.0 | 64.0 | 64.4 | 64.4 |
| | 2 | 59.0 | 58.7 | 59.2 | 60.2 | 60.8 | 61.0 | 61.4 | 61.6 | 62.2 | 62.4 | 62.4 | 62.2 |
| | 3 | 62.0 | 61.8 | 61.6 | 61.2 | 61.2 | 61.4 | 61.8 | 62.0 | 62.2 | 62.6 | 63.0 | 62.8 |
| | 4 | 61.2 | 60.6 | 60.6 | 61.0 | 61.5 | 61.8 | 62.2 | 62.2 | 62.6 | 63.0 | 63.3 | 63.5 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 52.0 | 52.0 | 52.7 | 53.2 | 54.4 | 55.4 | 55.8 | 56.3 | 56.5 | 56.9 | 57.0 | 56.8 |
| | 7 | 52.5 | 52.4 | 52.6 | 53.7 | 54.7 | 55.5 | 56.2 | 57.2 | 57.5 | 58.0 | 58.4 | 58.5 |
| | 8 | 57.5 | 57.5 | 57.5 | 57.9 | 58.5 | 59.2 | 60.4 | 60.8 | 61.0 | 61.2 | 61.2 | 61.3 |
| | 9 | 62.0 | 62.0 | 62.0 | 62.2 | 62.8 | 63.8 | 64.0 | 65.0 | 65.2 | 65.6 | 66.2 | 66.5 |
| | 10 | 62.4 | 62.2 | 62.4 | 63.0 | 64.0 | 64.5 | 64.7 | 65.0 | 65.0 | 65.0 | 65.0 | 64.6 |
| | 11 | 64.2 | 64.0 | 63.8 | 63.5 | 63.5 | 63.5 | 63.5 | 63.7 | 64.0 | 64.0 | 64.0 | 64.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 53.8 | 53.8 | 54.4 | 55.5 | 56.0 | 56.6 | 56.9 | 56.9 | 56.9 | 57.3 | 57.5 | 57.5 |
| | 14 | 57.4 | 57.4 | 57.0 | 57.0 | 57.0 | 56.8 | 57.0 | 57.3 | 57.4 | 58.0 | 58.4 | 58.0 |
| | 15 | 53.0 | 52.8 | 52.8 | 53.6 | 54.0 | 53.8 | 53.7 | 54.0 | 54.0 | 54.0 | 54.0 | 54.4 |
| | 16 | 49.6 | 49.4 | 50.0 | 50.6 | 51.5 | 51.8 | 52.4 | 52.5 | 53.4 | 54.0 | 54.5 | 54.5 |
| | 17 | 50.0 | 49.7 | 50.0 | 51.0 | 52.7 | 53.5 | 54.2 | 55.0 | 55.2 | 56.5 | 57.0 | 57.2 |
| | 18 | 53.6 | 53.4 | 53.5 | 54.0 | 55.0 | 56.7 | 57.4 | 57.7 | 58.2 | 58.8 | 59.2 | 59.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 54.5 | 54.0 | 53.8 | 53.8 | 53.6 | 53.6 | 53.8 | 54.2 | 54.2 | 54.2 | 53.8 | 53.0 |
| | 21 | 48.5 | 48.0 | 47.8 | 47.5 | 47.5 | 47.8 | 48.4 | 49.0 | 48.8 | 48.7 | 48.7 | 48.6 |
| | 22 | 45.6 | 45.4 | 45.6 | 46.3 | 47.3 | 48.2 | 47.5 | 48.8 | 49.0 | 49.4 | 50.5 | 51.0 |
| | 23 | 50.2 | 49.6 | 50.0 | 50.5 | 51.4 | 51.8 | 52.4 | 53.0 | 53.4 | 54.1 | 54.7 | 54.7 |
| | 24 | 57.0 | 56.5 | 56.0 | 56.7 | 57.3 | 58.0 | 58.4 | 58.4 | 59.0 | 59.0 | 59.8 | 59.8 |
| | 25 | 55.1 | 55.0 | 55.0 | 55.6 | 56.5 | 57.5 | 58.4 | 58.8 | 59.0 | 59.2 | 59.0 | 58.8 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 55.0 | 54.6 | 54.3 | 54.7 | 55.6 | 56.4 | 57.5 | 58.7 | 59.5 | 60.8 | 61.0 | 61.2 |
| | 28 | 57.4 | 57.4 | 57.4 | 57.4 | 58.7 | 59.7 | 60.3 | 61.0 | 61.5 | 62.2 | 63.0 | 63.0 |
| | 29 | 57.8 | 57.2 | 57.5 | 58.0 | 58.8 | 59.4 | 59.6 | 60.4 | 61.0 | 61.5 | 62.0 | 62.0 |
| | 30 | 62.5 | 62.2 | 62.5 | 62.5 | 62.5 | 62.9 | 63.3 | 63.3 | 63.2 | 63.2 | 63.0 | 62.2 |
| | 31 | 60.4 | 60.0 | 60.0 | 59.6 | 59.8 | 60.3 | 60.4 | 60.5 | 60.6 | 61.0 | 60.6 | 61.0 |
| Hourly Means | 56.18 | 55.93 | 56.01 | 56.41 | 57.03 | 57.58 | 57.99 | 58.42 | 58.69 | 59.06 | 59.30 | 59.28 | 59.28 |

^a Ten minutes late.

^b Five minutes late.

^c Two minutes late.

HORIZONTAL FORCE.

One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = .000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 574.6 | Sc. Div. 569.4 | Sc. Div. 560.0 | Sc. Div. 567.8 | Sc. Div. 563.7 | Sc. Div. 564.6 | Sc. Div. 568.9 | Sc. Div. 577.7 | Sc. Div. 580.0 | Sc. Div. 584.2 | Sc. Div. 581.0 | Sc. Div. 584.0 | Sc. Div. 571.13 |
| 583.7 | 582.3 | 581.4 | 583.4 | 582.7 | 582.0 | 583.0 | 582.0 | 583.0 | 582.0 | 584.0 | 585.4 | 579.88 |
| 571.0 | 577.2 | 569.1 | 577.0 | 578.0 | 579.0 | 577.5 | 583.2 | 583.0 | 580.8 | 584.5 | 584.6 | 577.18 |
| 583.0 | 582.0 | 582.0 | 582.6 | 581.2 | 581.7 | — | — | — | — | — | — | 583.60 |
| — | — | — | — | — | — | 592.5 | 588.0 | 597.5 | 596.2 | 599.8 | 596.3 | — |
| 588.0 | 586.5 | 587.2 | 586.6 | 587.8 | 583.1 | 588.8 | 591.0 | 593.7 | 594.0 | 596.9 | 598.0 | 590.02 |
| 588.2 | 578.1 | 585.8 | 585.0 ^a | 586.0 | 587.0 | 587.0 | 587.0 | 587.0 | 588.1 | 589.1 | 590.0 | 590.39 |
| 583.4 | 583.9 | 586.8 | 584.5 | 584.7 | 582.8 | 582.0 | 584.0 | 587.0 | 586.0 | 587.0 | 587.4 | 584.45 |
| 563.0 | 560.0 | 557.2 | 549.0 | 562.0 | 562.0 | 564.0 | 576.7 | 568.2 | 567.6 | 570.0 | 572.5 | 574.22 |
| 571.8 | 572.0 | 575.0 | 574.2 | 576.4 | 572.0 | 576.5 | 571.2 | 573.2 | 567.0 | 571.0 | 579.1 | 571.30 |
| 578.0 | 576.2 | 572.2 | 570.8 | 572.2 | 570.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 584.0 | 588.1 | 587.0 | 589.3 | 590.1 | 591.4 | 577.10 |
| 591.8 | 593.0 | 592.2 | 591.1 | 591.8 | 590.0 | 588.0 | 586.9 | 588.7 | 590.0 | 592.0 | 592.0 | 590.65 |
| 587.0 | 588.6 | 591.5 | 594.0 | 593.2 | 593.8 | 594.0 | 594.0 ^a | 594.1 | 595.0 | 596.7 | 598.2 | 590.03 |
| 596.0 | 597.0 | 597.0 | 594.0 | 594.6 | 595.2 | 595.0 | 598.0 | 597.0 | 597.7 | 601.4 | 603.3 | 594.69 |
| 599.0 | 597.7 | 598.0 | 594.4 | 596.0 | 596.2 ^d | 591.4 | 576.8 | 584.2 | 589.2 | 597.9 | 599.2 | 594.88 |
| 592.0 | 588.4 | 590.0 | 590.7 | 586.1 | 589.4 | 589.8 | 591.0 | 591.0 | 591.2 | 593.6 | 597.0 | 593.91 |
| 594.4 | 593.1 | 583.0 | 583.0 | 584.1 | 586.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 592.9 | 593.3 | 593.0 | 594.8 | 606.6 | 602.5 | 593.58 |
| 591.7 | 587.4 | 583.6 | 585.5 | 575.5 | 572.5 | 564.2 | 551.5 | 576.7 | 591.0 | 594.0 | 594.4 | 587.18 |
| 584.4 | 598.4 | 581.6 | 582.5 | 583.5 | 589.5 | 596.0 | 599.2 | 598.4 | 599.2 | 598.7 | 604.2 | 595.13 |
| 599.0 | 600.0 | 599.0 | 595.3 | 601.3 | 596.8 | 597.0 | 599.6 | 601.4 | 601.8 | 603.7 | 601.4 | 601.55 |
| 596.0 | 598.2 | 596.4 | 595.4 | 594.0 | 595.4 | 595.7 | 595.5 | 597.5 | 593.1 | 593.5 | 596.6 | 595.45 |
| 583.4 | 585.4 | 580.8 | 573.0 | 570.9 | 569.0 | 564.2 | 572.0 | 580.7 | 587.4 | 587.5 | 590.0 | 585.36 |
| 583.4 | 582.1 | 583.0 | 581.8 | 580.5 | 580.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 593.0 | 594.0 | 594.5 | 595.5 | 596.0 | 598.2 | 588.64 |
| 589.8 | 590.0 | 590.0 | 590.0 | 589.5 | 588.0 | 586.0 | 588.2 | 587.4 | 588.0 | 592.2 | 594.0 | 589.98 |
| 582.0 | 580.0 | 582.0 | 584.2 | 582.8 | 584.0 | 586.0 | 589.2 | 589.8 | 591.4 | 592.0 | 591.4 | 587.90 |
| 591.2 | 590.4 | 586.4 | 586.6 | 586.6 | 583.8 | 585.8 | 588.1 | 589.1 | 589.6 | 591.7 | 591.4 | 586.89 |
| 589.1 | 590.2 | 590.8 | 589.3 | 584.0 | 584.5 | 588.8 | 588.8 ^a | 588.7 | 591.0 | 591.0 | 591.5 | 585.72 |
| 577.6 | 574.0 | 575.6 | 576.0 | 584.4 | 585.1 | 586.0 | 591.0 | 591.0 | 590.0 | 584.0 | 584.2 | 584.31 |
| 585.65 | 585.24 | 583.61 | 583.25 | 583.46 | 583.12 | 585.11 | 586.15 | 588.25 | 589.30 | 591.33 | 592.53 | 586.86 |

TEMPERATURE OF THE BIPOLAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 63.6 | 63.2 | 63.0 | 62.4 | 61.8 | 61.4 | 60.8 | 60.3 | 60.0 | 59.5 | 59.3 | 59.0 | 62.33 |
| 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.0 | 62.0 | 62.0 | 62.0 | 62.0 | 61.52 |
| 62.6 | 62.5 | 62.5 | 62.5 | 62.4 | 62.0 | 61.8 | 61.8 | 61.8 | 61.6 | 61.6 | 61.2 | 62.00 |
| 63.2 | 63.2 | 63.0 | 62.8 | 62.8 | 62.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.8 | 53.6 | 53.6 | 53.4 | 53.2 | 53.0 | 60.08 |
| 56.5 | 56.8 | 57.0 | 56.8 | 55.4 | 55.0 | 54.8 | 54.5 | 53.6 | 53.5 | 53.2 | 53.0 | 54.96 |
| 58.0 | 58.0 | 58.2 | 58.2 | 58.2 | 58.4 | 58.4 | 58.5 | 58.3 | 58.0 | 57.8 | 57.5 | 56.86 |
| 61.4 | 61.5 | 61.6 | 61.0 | 61.0 | 61.1 | 61.3 | 61.2 | 61.7 | 62.0 | 62.0 | 62.0 | 60.49 |
| 66.4 | 66.0 | 65.6 | 65.2 | 64.6 | 64.1 | 64.1 | 63.0 | 62.8 | 62.8 | 62.4 | 62.4 | 64.03 |
| 64.5 | 64.5 | 64.5 | 64.3 | 64.2 | 64.2 | 64.2 | 64.2 | 64.4 | 64.5 | 64.5 | 64.5 | 64.18 |
| 63.5 | 63.5 | 63.5 | 63.4 | 63.2 | 62.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 54.5 | 54.5 | 54.2 | 54.0 | 54.0 | 53.8 | 61.27 |
| 57.2 | 56.8 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.5 | 56.9 | 57.1 | 57.4 | 57.4 | 56.47 |
| 57.3 | 57.0 | 56.6 | 56.2 | 56.0 | 55.5 | 55.4 | 55.0 | 54.5 | 54.0 | 53.6 | 53.2 | 56.37 |
| 53.5 | 53.2 | 52.8 | 52.5 | 52.0 | 51.5 | 51.2 | 51.0 | 50.4 | 50.4 | 50.0 | 49.8 | 52.60 |
| 54.0 | 53.6 | 53.3 | 53.4 | 53.0 | 52.2 | 51.8 | 51.4 | 50.0 | 50.3 | 50.2 | 50.0 | 51.98 |
| 57.0 | 56.5 | 56.5 | 56.2 | 56.0 | 55.6 | 55.0 | 54.5 | 54.2 | 54.0 | 53.8 | 53.5 | 54.37 |
| 58.5 | 58.6 | 58.6 | 58.2 | 58.0 | 57.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.5 | 56.5 | 56.5 | 55.4 | 55.4 | 54.9 | 56.72 |
| 52.7 | 52.1 | 51.7 | 51.4 | 51.0 | 51.0 | 50.6 | 50.0 | 49.5 | 49.4 | 49.0 | 48.7 | 52.23 |
| 48.0 | 48.0 | 48.0 | 48.1 | 48.0 | 47.5 | 47.5 | 47.3 | 47.3 | 47.0 | 46.8 | 46.0 | 47.87 |
| 52.0 | 52.4 | 52.3 | 52.0 | 51.7 | 51.6 | 51.2 | 51.0 | 51.2 | 51.3 | 51.2 | 50.5 | 49.71 |
| 55.2 | 55.5 | 55.8 | 55.8 | 55.6 | 55.5 | 55.5 | 55.5 | 56.2 | 56.2 | 56.5 | 56.6 | 53.99 |
| 59.5 | 59.0 | 58.5 | 58.0 | 57.8 | 57.5 | 57.0 | 56.2 | 56.4 | 56.4 | 56.3 | 55.5 | 57.67 |
| 59.0 | 59.0 | 59.0 | 59.0 | 59.5 | 59.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.5 | 55.5 | 55.5 | 55.5 | 55.0 | 55.0 | 57.30 |
| 61.0 | 60.8 | 60.5 | 60.0 | 60.0 | 60.0 | 59.5 | 59.0 | 59.0 | 58.2 | 58.0 | 57.5 | 58.45 |
| 62.5 | 62.4 | 62.0 | 61.5 | 61.0 | 61.0 | 60.4 | 60.0 | 59.5 | 59.2 | 59.0 | 58.3 | 60.24 |
| 62.0 | 61.8 | 61.4 | 61.2 | 61.0 | 61.0 | 61.0 | 61.3 | 61.7 | 62.3 | 62.5 | 62.5 | 60.62 |
| 61.8 | 61.4 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 60.8 | 60.8 | 60.8 | 60.9 | 60.4 | 61.88 |
| 61.2 | 61.2 | 61.4 | 61.2 | 61.5 | 61.8 | 62.0 | 62.2 | 62.1 | 62.0 | 62.0 | 62.0 | 61.03 |
| 59.05 | 58.91 | 58.78 | 58.56 | 58.35 | 58.18 | 57.17 | 56.94 | 56.82 | 56.70 | 56.58 | 56.30 | 57.68 |

^a Six minutes late.

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|-------------------|-------------------|--------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = '000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| NOVEMBER. | 1 | 584·2 | 585 0 | 584·2 | 576·2 | 571·3 | 560·4 | 568·8 | 575·8 | 576·3 | 574·9 | 572·9 | 574·0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 601·2 | 602 0 | 598·7 | 587·0 | 589·5 | 588·0 | 588·3 | 591·1 | 596·1 | 599·3 | 598·2 | 600·8 |
| | 4 | 603·2 | 602 0 | 592·0 | 591·2 | 589·7 | 585·2 | 588·7 | 590·0 | 596·0 | 593·5 | 592·0 | 594·4 |
| | 5 | 604·0 | 604 3 | 595·1 | 563·2 | 573·0 | 573·0 | 585·5 | 588·2 | 591·0 | 590·0 | 586·2 | 596·5 |
| | 6 | 600·2 | 597·5 | 595·0 | 592·0 | 588·4 | 587·0 | 587·4 | 590·2 | 594·0 | 595·2 | 600·8 | 599·2 |
| | 7 | 596·4 | 600·0 | 599·6 | 597·2 | 596·4 | 589·5 | 586·8 | 589·4 | 592·0 | 591·4 | 591·0 | 589·0 |
| | 8 | 599·4 | 598·2 | 595·6 | 591·0 | 591·0 | 587·8 | 586·0 | 587·7 | 593·0 | 598·0 | 600·9 | 604·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 619·8 | 618·3 | 612·9 | 611·2 | 607·6 | 605·9 | 605·1 | 605·0 | 606·0 ^a | 608·2 | 609·0 | 602·4 |
| | 11 | 606·0 | 603·5 | 597·6 | 591·0 | 590·0 | 591·6 | 589·0 | 597·0 | 599·2 | 601·0 | 600·4 | 606·2 |
| | 12 | 609·0 | 606·0 | 600·0 | 595·0 | 594·0 | 594·2 | 593·0 | 597·3 | 600·9 | 608·8 | 603·6 | 607·0 |
| | 13 | 602·6 | 603·0 | 598·4 | 592·6 | 590·2 | 589·2 | 593·5 | 598·0 ^b | 602·0 | 604·9 | 605·5 | 605·2 |
| | 14 | 601·8 | 598·7 | 592·8 | 585·7 | 583·6 | 585·7 | 590·0 | 595·2 | 600·0 | 603·6 | 606·0 | 605·0 |
| | 15 | 602·0 | 599·3 | 593·9 | 590·2 | 586·0 | 585·2 | 588·8 | 596·2 | 602·4 | 607·0 | 607·0 | 600·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 597·5 | 609·0 | 602·1 | 604·0 | 590·2 | 585·2 | 588·4 | 576·6 | 578·0 | 582·7 | 596·0 | 596·2 |
| | 18 | 595·0 | 594·5 | 593·5 | 584·0 | 579·2 | 576·2 | 580·5 | 578·0 | 588·1 | 595·4 | 589·7 | 580·5 |
| | 19 | 609·0 | 598·1 | 586·4 | 578·9 | 580·0 | 576·2 | 581·1 | 586·4 | 593·8 | 597·2 | 598·6 | 595·4 |
| | 20 | 603·9 | 601·8 | 596·6 | 596·3 | 595·7 | 593·7 | 596·2 | 598·0 | 600·2 | 605·6 | 603·0 | 602·5 |
| | 21 | 603·2 | 609·3 | 605·8 | 603·9 | 599·1 | 602·1 | 604·0 | 606·0 | 606·9 | 604·3 | 609·7 | 607·6 |
| | 22 | 609·0 | 610·1 | 603·0 | 603·0 | 604·5 | 603·5 | 605·2 | 608·0 | 606·2 | 608·0 | 606·4 | 614·3 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 619·2 | 621·2 | 617·0 | 617·4 | 611·0 | 614·2 | 612·7 | 614·2 | 613·0 | 616·9 | 622·2 | 618·5 |
| | 25 | 624·0 | 625·4 | 622·8 | 620·1 | 618·0 | 617·5 | 620·2 | 619·7 | 624·2 | 621·2 | 618·7 | 621·0 |
| | 26 | 619·0 | 618·7 | 616·2 | 611·3 | 609·0 | 606·2 | 609·0 | 610·7 | 617·0 | 608·3 | 618·0 | 619·0 |
| | 27 | 621·1 | 618·7 | 614·0 | 610·0 | 607·3 | 608·1 | 611·7 | 617·0 | 621·0 | 624·0 | 624·0 | 622·7 |
| | 28 | 598·0 | 623·1 | 617·0 | 615·8 | 612·0 | 610·1 | 608·4 | 607·4 | 607·2 | 606·0 | 623·9 | 624·0 |
| | 29 | 621·0 | 617·2 | 614·6 | 611·6 | 611·8 | 595·0 | 605 0 | 614·5 | 619·5 | 618·4 | 619·6 | 613·4 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 605·63 | 606·60 | 601·79 | 596·79 | 594·74 | 592·43 | 594·93 | 597·50 | 600·96 | 602·55 | 604·13 | 603·95 |

| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
|------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NOVEMBER. | 1 | 61·4 | 60·8 | 60·0 | 60·2 | 60·4 | 60·6 | 60·4 | 60·5 | 60·8 | 61·4 | 62·0 | 61·8 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 49·2 | 49·4 | 49·4 | 49·2 | 49·3 | 50·0 | 50·9 | 51·0 | 52·0 | 52·4 | 52·6 | 52·5 |
| | 4 | 52·6 | 52·5 | 52·2 | 52·4 | 53·2 | 53·5 | 53·8 | 54·0 | 54·4 | 54·6 | 55·0 | 54·8 |
| | 5 | 52·5 | 52·5 | 53·0 | 53·0 | 53·2 | 53·6 | 54·3 | 54·3 | 54·0 | 54·0 | 54·0 | 54·4 |
| | 6 | 53·7 | 53·4 | 53·0 | 53·0 | 53·0 | 53·0 | 53·0 | 53·6 | 53·8 | 54·4 | 54·8 | 55·0 |
| | 7 | 53·7 | 53·5 | 53·2 | 53·4 | 53·2 | 53·5 | 53·8 | 54·0 | 54·2 | 54·3 | 54·3 | 54·2 |
| | 8 | 53·7 | 53·4 | 52·6 | 51·8 | 51·5 | 51·3 | 51·0 | 50·8 | 50·5 | 50·2 | 50·2 | 50·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 44·0 | 44·5 | 44·5 | 44·7 | 45·5 | 46·3 | 47·0 | 48·4 | 49·0 | 50·0 | 50·5 | 51·0 |
| | 11 | 51·0 | 51·0 | 50·6 | 50·3 | 50·3 | 50·5 | 51·0 | 51·5 | 52·0 | 52·5 | 52·5 | 52·2 |
| | 12 | 51·0 | 50·9 | 50·5 | 50·5 | 51·0 | 52·0 | 52·4 | 53·0 | 53·0 | 53·0 | 53·0 | 52·6 |
| | 13 | 52·6 | 52·3 | 52·0 | 52·2 | 52·8 | 53·6 | 53·8 | 54·3 | 54·6 | 55·4 | 55·7 | 55·4 |
| | 14 | 53·0 | 52·6 | 52·4 | 52·2 | 52·5 | 53·5 | 54·2 | 54·6 | 54·9 | 54·9 | 55·0 | 55·4 |
| | 15 | 52·7 | 52·5 | 52·5 | 52·5 | 53·8 | 54·6 | 54·4 | 54·5 | 54·0 | 54·2 | 54·5 | 54·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 52·5 | 52·5 | 52·5 | 52·5 | 52·3 | 52·5 | 53·0 | 53·0 | 53·4 | 53·6 | 54·0 | 54·0 |
| | 18 | 56·5 | 56·5 | 56·5 | 56·0 | 56·2 | 56·2 | 56·6 | 56·0 | 56·2 | 56·6 | 56·9 | 56·8 |
| | 19 | 55·6 | 55·0 | 54·5 | 52·2 | 52·2 | 52·6 | 52·6 | 52·8 | 52·4 | 52·0 | 50·4 | 51·0 |
| | 20 | 51·8 | 52·0 | 52·0 | 51·5 | 52·0 | 52·7 | 53·8 | 53·8 | 54·0 | 54·4 | 53·5 | 53·5 |
| | 21 | 51·0 | 50·5 | 50·0 | 49·7 | 49·0 | 48·8 | 48·8 | 48·1 | 47·9 | 46·0 | 46·4 | 46·0 |
| | 22 | 46·0 | 46·0 | 46·0 | 45·5 | 45·5 | 44·6 | 44·5 | 45·4 | 45·0 | 46·0 | 45·0 | 45·4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 39·5 | 39·5 | 39·5 | 40·0 | 40·0 | 40·0 | 40·3 | 39·2 | 39·4 | 38·8 | 38·8 | 38·6 |
| | 25 | 41·2 | 41·2 | 41·2 | 40·2 | 40·6 | 41·5 | 42·4 | 42·0 | 42·7 | 42·6 | 42·6 | 43·0 |
| | 26 | 44·6 | 44·6 | 44·0 | 44·0 | 44·0 | 43·4 | 43·0 | 42·5 | 42·1 | 42·0 | 42·4 | 41·5 |
| | 27 | 43·6 | 43·0 | 42·4 | 41·8 | 41·8 | 41·2 | 41·4 | 41·5 | 41·5 | 41·6 | 42·0 | 41·6 |
| | 28 | 37·8 | 38·2 | 37·8 | 38·0 | 38·8 | 39·4 | 39·5 | 39·7 | 40·2 | 40·6 | 41·4 | 42·0 |
| | 29 | 41·6 | 41·6 | 40·8 | 40·6 | 41·0 | 41·5 | 41·8 | 42·5 | 42·6 | 42·4 | 42·0 | 41·0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 49·71 | 49·60 | 49·32 | 49·10 | 49·32 | 49·62 | 49·91 | 50·04 | 50·18 | 50·32 | 50·38 | 50·31 |

^a Four minutes late.

^b Five minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 579·0 | Sc. Div. 583·1 | Sc. Div. 583·5 | Sc. Div. 583·0 | Sc. Div. 584·8 | Sc. Div. 585·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 593·2 | 590·4 | 590·4 | 598·7 | 602·2 | 601·0 | 582·44 |
| 601·0 | 598·2 | 598·0 | 598·2 | 598·6 | 584·2 | 593·0 | 597·8 | 596·7 | 600·0 | 600·9 | 602·1 | 596·20 |
| 587·6 | 588·0 | 590·2 | 592·8 | 588·2 | 589·6 | 591·2 | 585·0 | 591·4 | 593·5 | 590·2 | 603·4 | 592·04 |
| 597·2 | 597·4 | 596·3 | 598·0 | 595·0 | 594·2 | 595·8 | 598·8 | 598·0 | 600·8 | 600·2 | 599·5 | 592·55 |
| 600·0 | 598·3 | 599·0 | 594·4 | 590·4 | 584·6 | 594·3 | 597·2 | 592·0 | 598·5 | 599·0 | 596·3 | 594·62 |
| 587·0 | 592·7 | 594·0 | 594·0 | 598·0 | 585·0 | 581·5 | 587·4 | 596·0 | 597·2 | 598·0 | 600·0 | 592·90 |
| 604·0 | 604·0 | 605·0 | 603·2 | 602·0 | 600·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 615·8 | 613·8 | 612·2 | 612·2 | 614·3 | 618·7 | 601·58 |
| 601·8 | 607·0 | 606·2 | 590·0 | 586·2 | 599·2 | 605·0 | 600·5 | 600·7 | 603·8 | 604·8 | 607·0 | 605·15 |
| 606·7 | 605·5 | 605·0 | 603·4 | 607·2 | 607·0 | 604·0 | 604·0 | 604·0 | 603·6 | 607·0 | 606·0 | 601·50 |
| 607·1 | 605·4 | 604·5 | 604·1 | 604·8 | 604·9 | 605·4 | 605·0 | 605·0 | 605·0 | 605·0 | 602·8 | 602·83 |
| 603·4 | 603·0 | 602·8 | 599·0 | 599·0 | 599·0 | 600·8 | 601·4 | 602·0 | 601·4 | 603·0 | 602·6 | 600·10 |
| 606·4 | 602·7 | 602·0 | 602·4 | 600·0 | 600·2 | 601·8 | 600·4 | 600·9 | 601·1 | 602·8 | 602·8 | 598·82 |
| 597·4 | 597·0 | 603·3 | 603·0 | 603·8 | 603·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 600·5 | 600·0 | 602·2 | 603·0 | 598·1 | 599·0 | 598·69 |
| 587·4 | 589·2 | 592·8 | 593·0 | 591·0 | 590·7 | 590·1 | 588·5 | 590·0 | 591·0 | 592·2 | 592·0 | 591·41 |
| 587·5 | 592·8 | 587·3 | 591·0 | 586·0 | 591·0 | 590·7 | 589·0 | 589·5 | 588·2 | 587·5 | 590·8 | 587·75 |
| 600·0 | 601·8 | 593·0 | 585·0 | 596·0 | 594·0 | 596·0 | 603·3 | 600·3 | 600·0 | 598·2 | 600·2 | 593·33 |
| 601·8 | 601·0 | 600·0 | 599·8 | 600·0 | 602·2 | 603·3 | 600·8 | 600·0 | 601·6 | 603·5 | 604·8 | 600·51 |
| 605·2 | 610·0 | 609·4 | 605·8 | 608·0 | 607·8 | 608·9 | 607·0 | 606·4 | 606·8 | 609·7 | 607·2 | 606·42 |
| 613·7 | 611·9 | 607·2 | 611·0 | 612·0 | 609·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 610·5 | 611·1 | 610·5 | 617·0 | 619·0 | 619·5 | 609·73 |
| 621·6 | 622·0 | 621·9 | 617·2 | 619·0 | 612·1 | 618·2 | 620·0 | 620·0 | 621·0 | 622·2 | 618·4 | 617·96 |
| 621·0 | 620·8 | 620·0 | 619·0 | 618·2 | 618·0 | 617·0 | 616·2 | 614·4 | 615·2 | 617·0 | 617·4 | 619·46 |
| 621·0 | 624·0 | 625·0 | 626·2 | 627·0 | 622·2 | 618·6 | 616·2 | 617·8 | 620·1 | 620·4 | 620·2 | 617·55 |
| 624·0 | 633·0 | 627·2 | 619·2 | 617·8 | 614·4 | 613·2 | 615·5 | 612·5 | 611·0 | 603·9 | 611·3 | 616·78 |
| 624·0 | 621·1 | 619·1 | 605·0 | 615·3 | 611·0 | 611·7 | 611·0 | 618·9 | 612·5 | 613·0 | 620·2 | 613·99 |
| 609·0 | 615·0 | 617·6 | 621·8 | 620·0 | 618·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 622·0 | 623·0 | 624·0 | 626·0 | 626·0 | 623·2 | 616·98 |
| 603·79 | 605·00 | 604·41 | 602·38 | 602·73 | 601·09 | 603·30 | 603·33 | 603·82 | 605·18 | 605·52 | 606·66 | 602·05 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 61·2 | 60·9 | 60·4 | 60·3 | 60·0 | 59·5 | — | — | — | — | — | — | 57·94 |
| — | — | — | — | — | — | 50·2 | 50·0 | 50·0 | 49·6 | 49·0 | 49·2 | — |
| 52·9 | 53·0 | 53·0 | 52·5 | 53·0 | 53·0 | 52·6 | 52·5 | 52·5 | 52·5 | 52·6 | 52·3 | 51·68 |
| 54·5 | 54·5 | 54·5 | 54·5 | 54·5 | 54·4 | 54·4 | 54·2 | 54·0 | 54·0 | 53·7 | 53·0 | 53·88 |
| 54·4 | 53·6 | 53·6 | 53·2 | 53·0 | 53·0 | 53·0 | 52·8 | 52·7 | 53·5 | 54·2 | 53·9 | 53·49 |
| 55·0 | 54·9 | 54·9 | 54·5 | 54·2 | 54·4 | 54·4 | 54·4 | 54·4 | 54·4 | 54·4 | 54·0 | 54·07 |
| 54·5 | 54·4 | 54·0 | 54·0 | 54·0 | 53·9 | 53·9 | 53·9 | 53·9 | 53·8 | 53·6 | 53·6 | 53·87 |
| 50·0 | 50·0 | 50·0 | 50·0 | 49·8 | 49·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41·6 | 42·0 | 42·4 | 42·8 | 43·2 | 43·6 | 48·83 |
| 51·0 | 51·0 | 51·0 | 50·8 | 50·8 | 50·4 | 50·4 | 50·0 | 50·4 | 51·0 | 51·0 | 50·5 | 48·90 |
| 52·0 | 52·0 | 51·6 | 51·4 | 51·0 | 51·3 | 51·3 | 51·2 | 50·9 | 51·3 | 51·5 | 51·0 | 51·33 |
| 52·6 | 52·3 | 52·2 | 51·9 | 52·3 | 52·4 | 52·2 | 52·5 | 53·0 | 53·2 | 53·0 | 52·8 | 52·22 |
| 54·8 | 54·7 | 54·4 | 54·0 | 54·0 | 54·5 | 54·5 | 54·5 | 54·3 | 54·3 | 54·0 | 53·6 | 54·01 |
| 55·5 | 55·5 | 55·6 | 55·6 | 55·5 | 55·5 | 55·4 | 54·6 | 53·8 | 53·2 | 53·0 | 52·8 | 54·22 |
| 54·0 | 53·6 | 53·4 | 53·0 | 53·0 | 53·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52·5 | 52·4 | 52·4 | 52·3 | 52·4 | 52·5 | 53·28 |
| 53·8 | 53·8 | 54·2 | 54·8 | 55·0 | 55·3 | 55·5 | 55·5 | 55·4 | 56·4 | 57·0 | 56·5 | 54·12 |
| 57·1 | 57·2 | 57·5 | 57·5 | 57·5 | 57·5 | 57·5 | 57·0 | 57·0 | 56·7 | 56·7 | 56·2 | 56·77 |
| 51·5 | 51·5 | 52·0 | 52·4 | 52·0 | 52·0 | 51·6 | 51·3 | 51·6 | 51·6 | 51·6 | 51·6 | 52·25 |
| 53·5 | 53·5 | 53·0 | 52·6 | 52·2 | 52·0 | 52·0 | 51·8 | 51·6 | 51·4 | 51·2 | 51·2 | 52·54 |
| 46·0 | 47·0 | 47·0 | 47·0 | 47·2 | 47·0 | 47·0 | 47·0 | 46·5 | 46·0 | 46·8 | 47·0 | 47·65 |
| 45·4 | 45·4 | 46·0 | 46·5 | 47·0 | 47·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39·8 | 39·5 | 39·5 | 39·5 | 39·8 | 39·5 | 44·17 |
| 39·7 | 40·2 | 40·5 | 40·4 | 40·8 | 41·0 | 41·0 | 41·0 | 41·5 | 41·0 | 41·0 | 41·5 | 40·13 |
| 44·0 | 44·0 | 44·8 | 45·0 | 45·0 | 45·0 | 45·3 | 45·3 | 45·0 | 45·0 | 45·0 | 44·6 | 43·30 |
| 42·3 | 44·0 | 44·5 | 44·5 | 44·5 | 44·5 | 44·3 | 44·2 | 44·2 | 44·4 | 44·5 | 44·0 | 43·67 |
| 41·6 | 41·6 | 41·5 | 40·6 | 40·2 | 39·5 | 39·0 | 38·6 | 38·7 | 39·0 | 38·8 | 38·4 | 40·87 |
| 42·8 | 43·0 | 43·0 | 42·7 | 42·6 | 42·4 | 42·4 | 42·3 | 42·0 | 42·0 | 42·0 | 41·7 | 40·93 |
| 41·2 | 41·3 | 41·5 | 42·0 | 43·0 | 42·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 36·0 | 36·4 | 37·0 | 37·3 | 37·5 | 37·3 | 40·52 |
| 50·45 | 50·52 | 50·56 | 50·47 | 50·48 | 50·44 | 49·11 | 49·00 | 48·99 | 49·05 | 49·10 | 48·89 | 49·79 |

| HORIZONTAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------------|-------|
| One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = '000234. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| DECEMBER. | 1 | 624·0 | 623·2 ^a | 622·0 | 616·8 | 612·6 | 609·5 | 612·0 | 612·7 | 622·0 | 628·2 | 628·2 | 627·4 |
| | 2 | 623·6 | 628·8 | 629·8 | 625·3 | 622·0 | 616·0 | 615·9 | 618·5 | 622·6 | 623·0 | 622·0 | 625·0 |
| | 3 | 611·7 | 623·8 | 623·2 | 620·0 | 567·5 | 555·2 | 575·1 | 579·0 | 610·5 | 618·0 | 614·0 | 624·0 |
| | 4 | 609·1 | 607·0 | 606·0 | 606·2 | 605·0 | 603·0 | 602·0 | 610·0 | 611·4 | 614·0 | 622·2 | 610·4 |
| | 5 | 609·5 | 607·0 | 615·0 | 606·2 | 602·5 | 599·4 | 599·8 | 603·0 | 604·8 | 605·4 | 607·9 | 608·2 |
| | 6 | 613·2 | 612·0 | 614·3 | 612·8 | 610·0 | 607·2 | 602·5 | 603·5 | 604·2 | 609·2 | 612·0 | 610·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 625·2 | 626·8 | 622·7 | 625·0 | 620·0 | 615·0 | 611·0 | 609·0 | 615·5 | 618·0 | 620·5 | 621·0 |
| | 9 | 613·7 | 614·8 | 613·2 | 612·2 | 609·1 | 607·0 | 606·1 | 607·0 | 610·0 | 610·0 ^b | 612·7 | 614·8 |
| | 10 | 620·0 | 620·0 | 619·0 | 621·0 | 623·5 | 617·0 | 619·5 | 617·2 | 616·2 | 620·4 | 622·0 | 624·8 |
| | 11 | 623·5 | 624·0 | 627·0 | 624·7 | 620·0 | 621·2 | 623·0 | 624·2 | 624·2 | 628·4 | 627·7 | 628·5 |
| | 12 | 631·0 | 631·2 | 630·8 | 627·4 | 625·8 | 621·7 | 619·0 | 618·5 | 620·0 | 629·5 | 632·0 | 630·0 |
| | 13 | 628·8 | 638·3 | 631·1 | 624·5 | 606·2 | 622·1 | 612·0 | 603·0 | 611·0 | 614·0 | 597·6 | 599·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 624·5 | 620·0 | 618·6 | 605·6 | 606·0 | 601·5 | 593·0 | 583·2 | 603·0 | 588·0 | 613·5 | 614·2 |
| | 16 | 615·6 | 614·6 | 614·7 | 610·0 | 607·5 | 601·0 | 599·5 | 599·7 | 600·4 | 609·6 | 605·5 | 609·6 |
| | 17 | 611·0 | 609·9 | 610·0 | 611·6 | 596·0 | 601·2 | 600·4 | 605·5 | 604·6 | 608·1 | 614·4 | 613·6 |
| | 18 | 608·8 | 607·8 | 610·0 | 603·0 | 601·0 | 598·0 | 594·2 | 599·4 | 596·0 | 604·0 | 606·6 | 606·0 |
| | 19 | 616·0 | 617·7 | 614·3 | 613·5 | 613·2 | 611·8 | 610·6 | 613·2 | 617·2 | 623·7 | 625·7 | 626·2 |
| | 20 | 633·6 | 634·4 | 636·0 | 632·5 | 626·5 | 623·0 | 618·5 | 619·5 | 622·5 | 624·0 | 624·0 | 626·2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 640·0 | 641·0 | 640·0 | 635·0 | 631·0 | 625·0 | 620·0 | 630·2 | 629·2 | 630·0 | 634·2 | 634·2 |
| | 23 | 634·0 | 635·0 | 635·0 | 636·5 | 633·0 | 629·4 | 624·4 | 625·3 | 624·7 | 628·2 | 631·7 | 632·2 |
| | 24 | 616·0 | 616·4 | 622·2 | 626·2 | 622·4 | 621·6 | 620·0 | 618·2 | 622·0 | 618·7 | 621·7 | 622·5 |
| | 25 ^r | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 636·0 | 637·5 | 636·0 | 630·4 | 636·0 | 630·4 | 628·2 | 625·9 | 628·0 | 634·0 | 633·4 | 632·0 |
| | 27 | 626·6 | 630·0 | 626·7 | 621·4 | 627·5 | 628·7 | 621·4 | 618·5 | 622·8 | 625·0 | 627·8 | 629·0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 623·2 | 624·6 | 625·0 | 618·8 | 615·7 | 612·0 | 609·8 | 610·7 | 611·8 | 615·8 | 618·5 | 618·5 |
| | 30 | 606·2 | 607·4 | 605·6 | 617·0 | 612·5 | 603·0 | 594·4 | 590·0 | 598·0 | 611·0 | 609·0 | 606·0 |
| | 31 | 617·3 | 616·0 | 617·4 | 621·0 | 620·0 | 621·6 | 615·1 | 614·0 | 617·2 | 612·6 | 616·2 | 615·6 |
| Hourly Means | 620·85 | 621·89 | 621·75 | 619·41 | 614·33 | 611·63 | 609·52 | 609·96 | 614·22 | 617·34 | 619·27 | 619·57 | |
| TEMPERATURE OF THE BIFILAR MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| DECEMBER. | 1 | 37·8 | 38·0 | 37·8 | 38·0 | 37·8 | 37·0 | 36·7 | 36·4 | 36·0 | 36·4 | 37·0 | 37·2 |
| | 2 | 35·6 | 35·4 | 36·0 | 35·9 | 37·2 | 37·5 | 36·5 | 37·2 | 37·9 | 39·4 | 38·8 | 38·5 |
| | 3 | 36·0 | 36·0 | 35·4 | 35·0 | 35·0 | 35·5 | 36·0 | 36·5 | 37·0 | 37·5 | 37·5 | 37·3 |
| | 4 | 41·0 | 41·2 | 40·5 | 40·0 | 40·0 | 40·5 | 41·5 | 42·5 | 43·0 | 44·0 | 44·5 | 45·0 |
| | 5 | 44·4 | 44·4 | 44·0 | 43·7 | 43·6 | 43·4 | 43·6 | 43·6 | 43·5 | 43·5 | 43·5 | 43·5 |
| | 6 | 44·2 | 44·6 | 44·0 | 43·5 | 43·5 | 43·8 | 44·2 | 44·0 | 44·0 | 44·3 | 44·3 | 44·0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 36·5 | 37·0 | 37·6 | 38·0 | 38·3 | 39·5 | 40·0 | 40·5 | 41·0 | 41·5 | 42·0 | 43·0 |
| | 9 | 44·5 | 44·5 | 44·0 | 44·0 | 44·1 | 44·4 | 44·4 | 45·0 | 45·3 | 45·5 | 45·5 | 45·4 |
| | 10 | 41·6 | 41·5 | 41·0 | 41·3 | 41·5 | 41·9 | 41·9 | 41·5 | 41·0 | 40·8 | 41·0 | 39·8 |
| | 11 | 37·0 | 36·5 | 36·0 | 35·7 | 35·4 | 35·8 | 35·8 | 36·0 | 36·2 | 36·4 | 36·8 | 37·0 |
| | 12 | 35·0 | 34·6 | 34·2 | 33·4 | 33·8 | 34·0 | 34·0 | 34·5 | 35·0 | 36·0 | 36·7 | 37·0 |
| | 13 | 38·0 | 38·0 | 37·6 | 37·7 | 38·8 | 39·8 | 40·8 | 41·5 | 42·0 | 43·0 | 43·4 | 43·5 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 44·2 | 44·6 | 43·8 | 43·7 | 44·8 | 45·3 | 45·6 | 45·5 | 45·5 | 45·0 | 45·0 | 45·0 |
| | 16 | 42·4 | 43·5 | 42·4 | 42·4 | 43·0 | 43·9 | 44·8 | 45·3 | 46·0 | 46·5 | 46·8 | 46·8 |
| | 17 | 45·5 | 46·0 | 45·5 | 45·4 | 45·5 | 45·5 | 45·8 | 46·2 | 46·4 | 46·8 | 47·0 | 48·3 |
| | 18 | 49·2 | 49·0 | 48·5 | 48·5 | 48·5 | 49·5 | 49·4 | 49·5 | 49·6 | 50·0 | 49·6 | 49·2 |
| | 19 | 39·2 | 39·0 | 38·8 | 38·2 | 37·3 | 37·3 | 37·4 | 37·6 | 37·2 | 37·0 | 36·0 | 35·5 |
| | 20 | 34·2 | 34·7 | 34·8 | 34·7 | 34·6 | 35·4 | 35·6 | 36·5 | 36·6 | 37·5 | 37·5 | 36·6 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 31·0 | 32·0 | 32·0 | 32·5 | 33·0 | 33·5 | 34·5 | 35·5 | 36·5 | 37·2 | 37·2 | 37·4 |
| | 23 | 36·5 | 36·5 | 36·3 | 36·4 | 37·2 | 37·6 | 38·3 | 38·4 | 40·0 | 40·0 | 40·2 | 40·0 |
| | 24 | 42·2 | 42·0 | 40·5 | 40·5 | 40·2 | 40·2 | 40·6 | 41·4 | 41·8 | 42·7 | 43·2 | 43·0 |
| | 25 ^r | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 33·5 | 33·5 | 34·0 | 34·7 | 35·5 | 35·8 | 36·4 | 37·0 | 37·8 | 38·5 | 39·4 | 39·5 |
| | 27 | 36·4 | 36·0 | 35·7 | 34·8 | 35·4 | 36·2 | 37·0 | 38·0 | 37·6 | 38·2 | 38·5 | 38·9 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 43·2 | 43·4 | 43·4 | 43·2 | 43·4 | 43·8 | 44·6 | 45·0 | 45·0 | 45·9 | 46·4 | 46·2 |
| | 30 | 44·8 | 44·6 | 44·4 | 44·0 | 44·0 | 44·5 | 45·2 | 45·5 | 45·0 | 45·0 | 45·0 | 44·5 |
| | 31 | 40·4 | 39·5 | 38·7 | 38·2 | 38·8 | 39·5 | 40·5 | 40·6 | 40·7 | 40·7 | 40·6 | 40·6 |
| Hourly Means | 39·78 | 39·85 | 39·50 | 39·36 | 39·62 | 40·04 | 40·43 | 40·82 | 41·06 | 41·51 | 41·67 | 41·64 | |

^a Three minutes late.

^b Two minutes late.

^c Five minutes late.

HORIZONTAL FORCE.

One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah'. = '000234.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 623·0 | 622·0 | 623·0 | 622·0 | 620·0 | 620·0 | 621·0 | 623·2 | 623·4 | 622·0 | 622·5 | 622·2 | 620·95 |
| 625·5 | 623·0 | 622·0 | 624·0 | 624·5 | 628·2 | 624·4 | 620·0 | 620·0 | 613·2 | 615·0 | 611·1 | 621·81 |
| 618·2 | 617·4 | 628·0 | 595·4 | 593·3 | 597·0 | 601·6 | 598·6 | 596·0 | 602·8 | 608·0 | 610·0 | 603·68 |
| 610·0 | 606·4 | 605·6 | 602·2 | 602·7 | 601·4 | 600·8 | 603·0 | 603·0 | 599·0 | 605·1 | 610·0 | 606·48 |
| 608·4 | 608·0 | 606·0 | 601·6 | 618·0 | 606·0 | 608·5 | 608·0 | 608·0 | 607·5 | 610·0 | 611·2 | 607·08 |
| 608·0 | 607·7 | 608·9 | 610·2 | 610·0 | 609·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 624·0 | 622·2 | 621·4 | 621·5 | 611·54 |
| 621·3 | 620·0 | 618·0 | 617·0 | 615·0 | 613·0 | 611·8 | 612·8 | 613·0 | 614·4 | 615·0 | 614·0 | 617·29 |
| 615·3 | 616·0 | 614·2 | 614·2 | 613·0 | 614·2 | 615·1 | 614·0 | 617·7 | 618·1 | 617·5 | 622·0 | 613·41 |
| 621·4 | 623·0 | 622·1 | 622·0 | 620·4 | 619·6 | 621·0 | 621·5 | 621·0 | 624·0 | 623·4 | 624·0 | 621·00 |
| 628·0 | 627·0 | 627·2 | 628·0 | 626·0 | 626·8 | 627·0 ^c | 626·0 | 629·0 | 627·0 | 628·0 | 624·2 | 625·86 |
| 630·0 | 629·0 | 624·1 | 627·0 | 626·0 | 624·0 | 624·0 ^d | 625·2 | 624·4 | 625·4 | 630·2 | 624·4 | 626·27 |
| 604·0 | 606·0 | 609·2 | 609·4 | 609·8 | 611·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 610·0 | 613·8 | 616·2 | 616·6 | 618·0 | 616·0 | 613·67 |
| 614·4 | 606·4 | 608·2 | 598·4 ⁿ | 592·5 | 600·0 | 617·8 | 611·4 | 615·4 | 615·0 | 616·0 | 611·7 | 607·43 |
| 608·8 | 607·8 | 606·8 | 604·8 | 617·0 | 611·0 | 602·7 | 607·0 | 610·0 | 610·0 | 604·0 | 613·0 | 607·94 |
| 610·0 | 606·0 | 610·0 | 608·9 | 607·8 | 605·4 | 608·0 | 606·5 | 602·0 | 609·5 | 609·2 | 605·6 | 607·30 |
| 606·0 | 607·0 | 608·2 | 607·5 | 604·0 | 605·0 | 607·0 | 607·2 | 604·5 | 605·5 | 607·8 | 613·1 | 604·90 |
| 627·2 | 625·5 | 624·0 | 629·2 | 623·2 | 625·0 | 626·4 | 629·5 | 629·3 | 630·0 | 631·9 | 631·0 | 621·93 |
| 618·5 | 624·2 | 627·2 | 628·9 | 628·0 | 628·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 634·0 | 637·4 | 635·6 | 636·4 | 636·5 | 639·1 | 628·95 |
| 633·4 | 630·2 | 626·7 | 631·0 | 628·8 | 629·0 ^c | 628·2 | 630·0 | 630·0 | 630·0 | 631·8 | 633·0 | 631·33 |
| 632·9 | 631·0 | 625·5 | 623·3 | 622·2 | 622·8 | 622·4 | 625·0 | 625·0 | 624·0 | 625·0 | 621·8 | 627·93 |
| 625·0 | 624·8 | 623·7 | 621·0 | 619·0 | 620·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 630·1 | 632·0 | 633·5 | 632·0 | 633·9 | 636·2 | 624·13 |
| 630·3 | 631·0 | 630·0 | 631·0 | 630·0 | 629·2 | 624·4 | 630·2 | 628·0 | 629·0 | 628·0 | 627·4 | 630·68 |
| 630·0 | 626·0 | 625·0 | 628·0 | 626·0 | 624·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 624·5 | 625·0 | 625·0 | 625·0 | 625·0 | 624·2 | 625·55 |
| 618·0 | 617·0 | 617·5 | 617·0 | 618·0 | 604·0 | 606·0 | 607·2 | 607·4 | 608·0 | 606·7 | 599·8 | 613·80 |
| 604·0 | 605·0 | 604·0 | 606·2 | 608·0 | 608·3 | 608·4 | 612·0 | 613·4 | 609·8 | 615·0 | 617·0 | 607·13 |
| 613·4 | 617·2 | 616·4 | 615·0 | 616·4 | 620·0 | 619·8 | 619·3 | 614·2 | 621·3 | 619·0 | 625·9 | 617·58 |
| 618·65 | 617·87 | 617·75 | 615·93 | 616·14 | 615·49 | 617·00 | 617·83 | 618·04 | 618·37 | 619·38 | 619·59 | 617·16 |

TEMPERATURE OF THE BIFILAR MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 37·4 | 37·0 | 36·9 | 37·0 | 37·1 | 37·5 | 37·5 | 37·7 | 37·7 | 37·4 | 37·2 | 36·2 | 37·20 |
| 39·0 | 39·0 | 39·0 | 39·0 | 39·0 | 39·0 | 38·5 | 36·8 | 36·2 | 36·2 | 36·2 | 36·7 | 37·52 |
| 37·2 | 37·2 | 37·5 | 38·2 | 37·6 | 37·6 | 37·8 | 38·3 | 38·5 | 39·2 | 39·7 | 40·5 | 37·25 |
| 44·6 | 44·8 | 45·0 | 44·6 | 44·3 | 44·3 | 44·3 | 44·0 | 44·0 | 44·6 | 45·2 | 44·5 | 43·25 |
| 43·2 | 43·0 | 43·0 | 43·0 | 42·8 | 43·5 | 43·8 | 42·9 | 43·0 | 43·5 | 43·5 | 44·2 | 43·50 |
| 44·0 | 43·4 | 43·4 | 43·6 | 44·0 | 44·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 37·0 | 36·6 | 36·4 | 36·4 | 42·60 |
| 43·2 | 43·5 | 43·5 | 43·8 | 43·8 | 44·8 | 45·4 | 45·2 | 45·2 | 45·0 | 44·8 | 44·8 | 42·00 |
| 45·4 | 45·0 | 45·0 | 44·2 | 43·6 | 43·8 | 43·6 | 43·2 | 42·9 | 42·6 | 42·5 | 42·4 | 44·20 |
| 39·2 | 39·2 | 38·8 | 39·0 | 38·5 | 38·0 | 37·5 | 37·5 | 37·4 | 37·7 | 37·5 | 37·0 | 39·67 |
| 37·0 | 36·6 | 36·7 | 36·3 | 36·1 | 36·0 | 35·7 | 35·0 | 35·5 | 35·7 | 35·6 | 35·5 | 36·10 |
| 37·0 | 37·0 | 37·2 | 37·0 | 37·1 | 37·1 | 37·3 | 37·5 | 37·5 | 37·5 | 37·5 | 37·7 | 36·10 |
| 44·0 | 44·0 | 43·5 | 43·5 | 43·5 | 43·4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41·8 | 42·0 | 42·4 | 42·8 | 43·4 | 44·0 | 41·77 |
| 44·8 | 44·7 | 44·2 | 43·6 | 42·8 | 42·8 | 42·6 | 42·2 | 42·2 | 42·4 | 42·4 | 41·8 | 43·94 |
| 46·4 | 46·4 | 46·4 | 46·1 | 46·4 | 46·6 | 46·5 | 45·0 | 45·4 | 45·2 | 45·6 | 45·2 | 45·21 |
| 48·4 | 48·4 | 48·8 | 49·2 | 49·8 | 50·0 | 50·0 | 50·0 | 50·5 | 50·2 | 50·2 | 49·6 | 47·87 |
| 49·0 | 49·0 | 48·8 | 48·5 | 48·0 | 47·5 | 47·0 | 45·3 | 43·5 | 42·0 | 41·2 | 40·0 | 47·51 |
| 35·5 | 36·0 | 36·0 | 36·0 | 36·0 | 34·7 | 34·0 | 33·6 | 33·5 | 33·8 | 34·4 | 33·7 | 36·15 |
| 36·6 | 36·2 | 36·0 | 35·6 | 35·4 | 35·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 28·4 | 28·6 | 28·8 | 29·0 | 29·6 | 30·0 | 34·09 |
| 36·8 | 36·4 | 36·8 | 37·0 | 36·8 | 36·5 | 36·4 | 36·0 | 35·5 | 35·3 | 35·6 | 36·0 | 35·31 |
| 40·7 | 41·4 | 42·0 | 42·2 | 42·4 | 42·2 | 42·2 | 42·0 | 42·0 | 42·0 | 42·4 | 42·2 | 40·05 |
| 43·0 | 43·2 | 43·0 | 43·1 | 43·4 | 43·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33·5 | 33·4 | 33·7 | 33·8 | 33·8 | 33·6 | 39·97 |
| 39·4 | 38·8 | 37·2 | 36·5 | 36·7 | 36·2 | 36·8 | 37·2 | 37·5 | 37·5 | 37·0 | 36·8 | 36·80 |
| 38·5 | 39·0 | 39·6 | 39·9 | 40·0 | 40·5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40·6 | 41·0 | 41·5 | 41·9 | 42·5 | 42·7 | 38·77 |
| 46·2 | 45·5 | 45·5 | 46·0 | 46·6 | 46·6 | 46·6 | 46·6 | 46·7 | 46·5 | 46·0 | 45·0 | 45·30 |
| 44·5 | 44·5 | 44·0 | 43·7 | 43·7 | 43·8 | 43·5 | 43·0 | 42·8 | 42·4 | 41·8 | 41·0 | 43·97 |
| 49·6 | 40·7 | 40·5 | 40·5 | 40·5 | 40·0 | 39·8 | 39·7 | 39·5 | 40·0 | 40·2 | 40·4 | 40·05 |
| 41·60 | 41·53 | 41·47 | 41·43 | 41·38 | 41·35 | 40·44 | 40·15 | 40·02 | 40·03 | 40·09 | 39·95 | 40·61 |

^d Five minutes early.

^c Twenty-one minutes late.

^l Christmas-day.

VERTICAL FORCE.

One Scale Division = $\cdot 000063$ parts of the V. F. Change in the magnetic moment of the Bar for 1° Fahr. = $\cdot 00007$.

| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| JANUARY. | 1 | 102.3 | 101.2 | 101.2 | 100.0 | 100.0 | 99.9 | 99.9 | 99.5 | 100.0 | 100.0 | 99.8 | 99.7 |
| | 2 | 98.2 | 98.2 | 98.2 | 99.2 | 99.3 | 98.8 | 99.4 | 100.0 | 99.4 | 99.4 | 98.6 | 98.9 |
| | 3 | 99.7 | 98.6 | 99.8 | 99.2 | 99.4 | 100.1 | 99.6 | 99.6 | 99.6 | 99.6 | 97.6 | 97.6 |
| | 4 | 97.0 | 96.9 | 99.1 | 98.4 | 98.0 | 98.2 | 98.9 | 96.5 | 96.5 | 96.4 | 96.4 | 98.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 108.4 | 108.5 | 108.8 | 108.8 | 108.8 | 108.5 | 107.4 | 107.9 | 107.9 | 108.2 | 108.5 | 108.6 |
| | 7 | 111.3 | 110.7 | 109.7 | 108.5 | 108.5 | 108.2 | 107.5 | 106.2 | 106.8 | 106.0 | 105.4 | 104.0 |
| | 8 | 103.3 | 103.3 | 103.8 | 103.7 | 103.8 | 103.7 | 103.2 | 102.2 | 102.2 | 101.2 | 99.7 | 100.7 |
| | 9 | 99.3 | 99.5 | 96.6 | 93.2 | 92.4 | 91.6 | 93.3 | 94.8 | 95.1 | 96.9 | 102.9 | 172.0 |
| | 10 | 100.1 | 100.5 | 100.9 | 100.1 | 100.7 | 100.5 | 100.5 | 100.5 | 98.6 | 96.4 | 97.0 | 95.8 |
| | 11 | 99.0 | 99.9 | 99.1 | 99.4 | 100.5 | 100.5 | 99.5 | 97.9 | 97.9 | 96.2 | 96.2 | 94.4 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 109.0 | 109.0 | 108.2 | 108.2 | 107.6 | 107.6 | 107.6 | 107.9 | 107.9 | 107.3 | 105.6 | 105.1 |
| | 14 | 106.7 | 106.4 | 106.4 | 104.6 | 105.1 | 105.5 | 105.9 | 108.4 | 109.6 | 109.0 | 106.8 | 104.4 |
| | 15 | 100.9 | 103.4 | 103.5 | 102.2 | 98.8 | 101.7 | 100.2 | 99.4 | 99.4 | 99.1 | 98.4 | 96.0 |
| | 16 | 95.5 | 97.1 | 96.4 | 95.7 | 95.7 | 95.4 | 95.6 | 96.7 | 98.0 | 98.0 | 97.6 | 96.5 |
| | 17 | 100.4 | 100.4 | 99.4 | 101.7 | 101.7 | 100.6 | 100.6 | 100.2 | 100.2 | 100.2 | 100.2 | 100.3 |
| | 18 | 100.6 | 100.6 | 103.6 | 100.9 | 99.1 | 98.9 | 100.1 | 100.1 | 101.4 | 101.4 | 97.9 | 98.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 101.8 | 104.7 | 104.7 | 108.9 | 108.0 | 106.7 | 106.7 | 106.5 | 107.1 | 108.8 | 107.4 | 106.2 |
| | 21 | 97.1 | 97.5 | 99.0 | 99.2 | 99.1 | 98.2 | 97.2 | 97.5 | 97.0 | 97.3 | 96.3 | 95.7 |
| | 22 | 93.9 | 93.8 | 93.8 | 93.3 | 92.0 | 91.4 | 90.4 | 90.4 | 90.4 | 90.4 | 91.3 | 90.9 |
| | 23 | 87.0 | 90.3 | 89.9 | 86.9 | 88.3 | 87.0 | 87.3 | 88.4 | 89.9 | 89.6 | 93.1 | 93.4 |
| | 24 | 88.6 | 88.6 | 90.1 | 87.8 | 86.7 | 85.5 | 84.8 | 89.5 | 89.5 | 90.1 | 88.9 | 90.8 |
| | 25 | 91.9 | 91.0 | 91.4 | 87.5 | 94.9 | 97.5 | 98.8 | 98.6 | 99.2 | 99.2 | 99.2 | 99.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 104.9 | 104.3 | 100.3 | 101.1 | 99.2 | 97.7 | 97.2 | 95.1 | 96.8 | 95.4 | 94.2 | 95.4 |
| | 28 | 97.1 | 88.6 | 89.0 | 90.0 | 90.0 | 89.9 | 89.9 | 94.0 | 94.0 | 95.2 | 98.3 | 99.1 |
| | 29 | 92.3 | 93.1 | 92.3 | 90.4 | 89.3 | 89.3 | 89.3 | 91.3 | 92.2 | 93.3 | 93.9 | 96.7 |
| | 30 | 100.6 | 100.2 | 100.5 | 101.7 | 100.0 | 101.4 | 102.6 | 98.5 | 100.0 | 100.2 | 97.3 | 96.7 |
| | 31 | 98.2 | 101.8 | 101.2 | 102.5 | 105.0 | 103.1 | 103.1 | 103.1 | 106.4 | 107.8 | 106.2 | 106.2 |
| Hourly Means | 99.45 | 99.56 | 99.51 | 99.00 | 98.96 | 98.79 | 98.76 | 98.91 | 99.37 | 99.36 | 99.06 | 101.49 | |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| JANUARY. | 1 | 44.8 | 44.6 | 44.6 | 44.8 | 44.8 | 45.0 | 45.2 | 45.8 | 45.7 | 45.6 | 45.2 |
| | 2 | 45.8 | 45.5 | 45.5 | 45.3 | 45.1 | 45.2 | 46.2 | 45.8 | 45.7 | 45.8 | 45.6 |
| | 3 | 44.0 | 44.0 | 44.2 | 43.7 | 43.7 | 43.8 | 43.8 | 44.0 | 44.4 | 44.8 | 45.6 |
| | 4 | 45.0 | 44.7 | 44.8 | 44.6 | 44.6 | 44.6 | 44.8 | 44.8 | 44.9 | 44.9 | 45.4 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 37.5 | 37.3 | 37.3 | 36.9 | 36.9 | 36.3 | 36.5 | 36.5 | 36.5 | 36.5 | 37.0 |
| | 7 | 35.3 | 35.5 | 35.7 | 35.9 | 36.0 | 36.2 | 37.0 | 37.5 | 38.0 | 38.0 | 37.6 |
| | 8 | 39.4 | 39.6 | 39.6 | 39.1 | 39.3 | 40.0 | 40.4 | 40.8 | 40.8 | 41.0 | 41.4 |
| | 9 | 41.8 | 41.6 | 42.0 | 42.8 | 43.8 | 44.7 | 45.0 | 45.9 | 46.3 | 46.6 | 46.8 |
| | 10 | 44.6 | 44.0 | 43.8 | 43.8 | 44.0 | 44.5 | 44.8 | 45.0 | 45.6 | 46.0 | 46.0 |
| | 11 | 44.3 | 44.1 | 43.8 | 43.4 | 43.4 | 43.4 | 43.8 | 45.0 | 45.3 | 45.3 | 45.8 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 37.3 | 37.4 | 37.3 | 37.3 | 37.5 | 37.8 | 38.1 | 38.4 | 38.8 | 39.6 | 38.6 |
| | 14 | 39.0 | 39.0 | 39.0 | 38.7 | 38.7 | 38.3 | 38.3 | 38.2 | 38.0 | 38.8 | 39.0 |
| | 15 | 40.0 | 40.0 | 40.2 | 40.4 | 41.2 | 41.4 | 41.8 | 43.0 | 43.2 | 43.5 | 44.0 |
| | 16 | 44.6 | 44.6 | 44.6 | 44.4 | 44.5 | 44.6 | 44.8 | 45.2 | 45.0 | 44.4 | 44.8 |
| | 17 | 41.4 | 41.3 | 40.9 | 40.4 | 41.0 | 41.5 | 41.6 | 42.2 | 42.4 | 42.6 | 42.5 |
| | 18 | 39.8 | 39.9 | 41.0 | 40.6 | 41.4 | 42.0 | 42.2 | 42.7 | 42.6 | 42.5 | 42.4 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 35.8 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 37.0 | 37.6 | 38.5 | 39.0 | 39.2 |
| | 21 | 42.5 | 42.6 | 42.3 | 42.2 | 42.2 | 42.5 | 43.0 | 43.7 | 44.4 | 44.6 | 44.8 |
| | 22 | 45.4 | 45.6 | 45.2 | 45.2 | 45.3 | 45.7 | 46.0 | 46.0 | 46.4 | 46.8 | 47.2 |
| | 23 | 46.6 | 46.6 | 45.8 | 46.5 | 46.8 | 46.8 | 47.4 | 47.8 | 47.6 | 47.2 | 47.1 |
| | 24 | 47.4 | 47.2 | 47.2 | 47.2 | 47.2 | 47.8 | 47.8 | 48.4 | 49.0 | 49.0 | 48.8 |
| | 25 | 44.8 | 44.4 | 43.7 | 43.1 | 42.4 | 42.3 | 42.4 | 42.4 | 42.4 | 42.8 | 43.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 39.3 | 39.1 | 39.2 | 39.2 | 40.0 | 40.8 | 41.4 | 42.6 | 43.6 | 44.3 | 44.5 |
| | 28 | 45.5 | 46.3 | 46.4 | 46.4 | 46.6 | 47.2 | 47.6 | 47.4 | 48.3 | 48.6 | 48.7 |
| | 29 | 46.4 | 46.3 | 45.8 | 45.3 | 45.5 | 46.0 | 45.8 | 46.0 | 46.4 | 46.4 | 46.0 |
| | 30 | 40.6 | 40.6 | 40.1 | 40.6 | 40.7 | 40.8 | 41.0 | 42.0 | 42.0 | 43.2 | 43.6 |
| | 31 | 39.2 | 39.2 | 39.2 | 39.3 | 39.2 | 39.6 | 39.7 | 38.9 | 38.6 | 38.2 | 38.2 |
| Hourly Means | 42.15 | 42.11 | 42.05 | 41.97 | 42.14 | 42.40 | 42.72 | 43.10 | 43.35 | 43.56 | 43.67 | |

VERTICAL FORCE.

One Scale Division = '000063 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 99·7 | 99·8 | 100·1 | 100·1 | 100·4 | 97·9 | 97·9 | 97·7 | 97·7 | 96·1 | 96·1 | 97·5 | 99·35 |
| 98·7 | 98·9 | 98·9 | 98·9 | 98·9 | 98·6 | 98·6 | 98·6 | 98·6 | 98·6 | 98·6 | 99·6 | 98·88 |
| 96·4 | 96·4 | 95·6 | 95·6 | 95·6 | 96·0 | 96·0 | 96·0 | 96·5 | 96·8 | 95·8 | 96·1 | 97·63 |
| 98·0 | 98·0 | — | 98·2 | 97·8 | 98·2 | — | 99·1 | 98·8 | 107·1 | 107·1 | 107·1 | 99·36 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 108·9 | 109·1 | 109·4 | 109·4 | 110·6 | 110·6 | 110·7 | 112·1 | 111·3 | 111·3 | 111·3 | 111·3 | 109·43 |
| 103·8 | 103·7 | 103·8 | 104·4 | 104·4 | 104·4 | 104·9 | 105·3 | 103·3 | 103·3 | 103·3 | 103·3 | 105·86 |
| 100·7 | 100·7 | 102·1 | 102·1 | 102·1 | 103·5 | 103·5 | 101·9 | 101·9 | 102·3 | 99·8 | 97·4 | 102·03 |
| 122·6 | 126·2 | 123·7 | 120·4 | 122·1 | 109·7 | 105·3 | 104·5 | 101·2 | 99·0 | 100·0 | 99·5 | 106·74 |
| 95·8 | 97·3 | 97·3 | 100·5 | 101·4 | 99·5 | 96·6 | 96·9 | 98·1 | 98·1 | 98·1 | 97·8 | 99·71 |
| 94·3 | 93·8 | 95·1 | 97·0 | 97·5 | 95·7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 105·6 ^a | 108·3 | 110·0 | 110·0 | 108·8 | 108·8 | 100·23 |
| 105·7 | 106·1 | 106·3 | 106·3 | 106·3 | 106·2 | 106·4 | 106·4 | 106·4 | 106·4 | 105·4 | 103·6 | 106·77 |
| 107·4 | 107·1 | 106·1 | 107·1 | 107·1 | 104·5 | 103·6 | 103·6 | 103·4 | 103·4 | 100·5 | 99·7 | 105·51 |
| 96·0 | 97·3 | 96·3 | 96·3 | 95·8 | 94·4 | 94·4 | 94·4 | 95·1 | 95·4 | 95·2 | 95·7 | 97·89 |
| 97·0 | 97·0 | 97·9 | 98·0 | 99·5 | 99·5 | 97·8 | 96·7 | 97·7 | 98·8 | 98·8 | 100·4 | 97·36 |
| 100·3 | 101·0 | 101·3 | 101·4 | 99·7 | 100·4 | 102·7 | 98·5 | 101·5 | 103·0 | 103·6 | 102·9 | 100·93 |
| 100·9 | 101·9 | 102·9 | 102·9 | 103·3 | 104·8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 113·8 | 113·8 | 108·4 | 111·1 | 110·5 | 101·8 | 103·28 |
| 105·3 | 105·1 | 104·4 | 104·4 | 103·3 | 103·3 | 97·5 | 99·8 | 99·8 | 98·8 | 97·3 | 97·9 | 103·93 |
| 93·2 | 95·8 | 95·8 | 95·7 | 95·4 | 95·4 | 95·4 | 95·3 | 95·2 | 95·4 | 95·2 | 94·8 | 96·40 |
| 86·6 | 87·8 | 87·0 | 86·2 | 87·2 | 87·7 | 87·1 | 89·5 | 89·8 | 89·8 | 88·0 | 83·9 | 89·69 |
| 94·4 | 95·0 | 94·9 | 92·9 | 88·1 | 93·2 | 93·1 | 93·0 | 83·7 | 81·9 | 90·9 | 90·9 | 90·13 |
| 90·5 | 91·0 | 91·6 | 93·2 | 92·2 | 93·0 | 89·7 | 90·5 | 90·5 | 91·3 | 91·3 | 91·8 | 89·90 |
| 99·1 | 101·2 | 102·4 | 102·4 | 98·9 | 98·9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 105·0 | 106·9 | 105·9 | 105·1 | 104·2 | 101·6 | 99·16 |
| 95·4 | 95·4 | 95·1 | 94·4 | 93·7 | 93·0 | 93·0 | 92·9 | 92·8 | 91·8 | 92·3 | 92·2 | 95·98 |
| 97·9 | 95·8 | 94·3 | 88·5 | 90·0 | 88·9 | 90·2 | 77·0 | 73·8 | 73·5 | 82·0 | 90·0 | 89·87 |
| 97·0 | 95·5 | 95·5 | 95·0 | 94·5 | 95·2 | 96·1 | 98·0 | 98·3 | 98·3 | 100·6 | 100·6 | 94·50 |
| 97·3 | 98·4 | 98·3 | 98·1 | 98·9 | 100·4 | 100·4 | 100·4 | 102·7 | 102·9 | 102·9 | 99·6 | 100·00 |
| 105·5 | 108·2 | 108·2 | 109·6 | 109·6 | 103·5 | 110·4 | 114·9 | 115·1 | 115·1 | 115·1 | 115·6 | 107·56 |
| 99·57 | 100·13 | 100·09 | 99·96 | 99·79 | 99·35 | 99·81 | 99·67 | 99·47 | 99·43 | 99·73 | 99·30 | 99·52 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| 45·4 | 45·6 | 45·3 | 45·0 | 44·9 | 45·3 | 45·6 | 45·7 | 45·6 | 45·7 | 45·6 | 45·6 | 45·29 |
| 45·6 | 45·3 | 45·0 | 44·7 | 44·6 | 44·6 | 44·6 | 44·2 | 44·1 | 43·8 | 43·8 | 43·8 | 45·06 |
| 45·4 | 45·6 | 45·8 | 45·8 | 45·8 | 45·8 | 45·8 | 45·6 | 45·8 | 45·8 | 45·6 | 45·2 | 44·98 |
| 44·7 | 44·6 | 44·6 | 44·6 | 44·6 | 44·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38·8 | 38·6 | 38·0 | 37·6 | 37·8 | 37·9 | 43·10 |
| 37·0 | 36·8 | 36·5 | 36·2 | 35·8 | 35·6 | 35·6 | 35·3 | 35·6 | 35·5 | 35·5 | 35·3 | 36·39 |
| 39·6 | 39·6 | 39·4 | 39·3 | 39·3 | 39·3 | 39·2 | 39·3 | 39·3 | 39·3 | 39·4 | 39·2 | 38·09 |
| 41·6 | 41·6 | 41·6 | 41·3 | 40·7 | 40·5 | 40·5 | 40·5 | 40·5 | 40·6 | 41·0 | 41·0 | 40·61 |
| 47·6 | 47·4 | 48·5 | 48·0 | 48·0 | 47·4 | 47·0 | 46·8 | 45·4 | 45·4 | 45·0 | 44·8 | 45·62 |
| 46·5 | 45·7 | 45·6 | 45·8 | 45·6 | 45·6 | 45·4 | 45·2 | 44·8 | 44·5 | 44·5 | 44·4 | 45·08 |
| 45·6 | 46·0 | 46·0 | 45·2 | 44·7 | 44·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37·2 ^a | 36·9 | 36·9 | 36·8 | 36·9 | 36·9 | 42·78 |
| 39·3 | 39·1 | 39·0 | 39·2 | 39·0 | 39·1 | 39·6 | 39·3 | 39·0 | 39·0 | 39·2 | 39·2 | 38·65 |
| 39·6 | 39·8 | 39·8 | 39·9 | 39·6 | 39·7 | 39·7 | 40·0 | 40·0 | 40·0 | 40·0 | 40·0 | 39·30 |
| 44·6 | 44·4 | 44·6 | 44·6 | 45·0 | 45·5 | 45·5 | 45·4 | 45·3 | 45·0 | 45·0 | 44·7 | 43·44 |
| 44·4 | 44·2 | 44·1 | 43·8 | 43·3 | 42·7 | 43·1 | 42·6 | 42·2 | 41·8 | 41·6 | 41·6 | 43·81 |
| 41·9 | 42·0 | 41·4 | 41·0 | 40·7 | 40·2 | 40·2 | 40·1 | 39·9 | 39·9 | 39·8 | 39·8 | 41·13 |
| 41·6 | 40·8 | 40·2 | 39·6 | 39·6 | 39·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33·7 | 33·7 | 33·7 | 34·0 | 34·8 | 35·5 | 39·41 |
| 39·8 | 39·9 | 39·8 | 40·0 | 40·1 | 40·7 | 41·0 | 41·5 | 41·6 | 41·6 | 42·2 | 42·0 | 39·06 |
| 46·0 | 45·6 | 45·8 | 45·6 | 45·6 | 45·6 | 45·6 | 45·6 | 45·4 | 45·4 | 45·5 | 45·4 | 44·45 |
| 48·9 | 49·2 | 48·9 | 49·1 | 49·0 | 49·0 | 48·6 | 47·8 | 47·3 | 47·0 | 46·9 | 46·6 | 47·11 |
| 47·3 | 47·1 | 47·2 | 46·8 | 46·7 | 46·4 | 46·6 | 46·6 | 46·6 | 46·6 | 46·6 | 47·1 | 46·87 |
| 48·9 | 49·3 | 48·8 | 48·6 | 48·4 | 48·2 | 48·0 | 47·6 | 47·1 | 46·7 | 46·4 | 45·6 | 47·89 |
| 42·4 | 42·0 | 41·6 | 41·0 | 41·0 | 40·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39·2 | 39·0 | 39·0 | 39·0 | 39·0 | 39·0 | 41·65 |
| 44·4 | 44·6 | 44·6 | 45·0 | 45·4 | 45·4 | 45·4 | 45·8 | 45·7 | 45·6 | 45·8 | 45·8 | 43·41 |
| 49·2 | 49·2 | 49·2 | 49·3 | 48·8 | 48·5 | 48·2 | 48·2 | 48·0 | 47·6 | 47·4 | 46·8 | 47·84 |
| 45·4 | 45·0 | 44·6 | 44·4 | 44·2 | 43·2 | 42·2 | 42·0 | 41·9 | 41·6 | 41·4 | 41·1 | 44·55 |
| 43·2 | 42·5 | 42·2 | 42·0 | 41·6 | 41·0 | 40·6 | 40·0 | 40·0 | 39·5 | 39·1 | 39·0 | 41·22 |
| 37·0 | 36·5 | 36·0 | 35·6 | 35·1 | 34·4 | 34·0 | 32·6 | 31·6 | 31·0 | 31·0 | 30·4 | 36·36 |
| 43·81 | 43·68 | 43·56 | 43·39 | 43·23 | 43·08 | 42·26 | 42·07 | 41·86 | 41·71 | 41·73 | 41·62 | 42·71 |

^a Thirteen minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-------|
| One Scale Division = '000063 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| FEBRUARY. | 1 | 115·3 | 118·4 | 118·4 | 119·0 | 116·5 | 115·5 | 114·1 | 112·6 | 114·5 | 114·1 | 112·0 | |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | |
| | 3 | 115·6 | 115·1 | 114·1 | 114·1 | 113·9 | 112·3 | 111·9 | 110·8 | 110·8 | 110·8 | 109·4 | 109·4 |
| | 4 | 106·1 | 106·1 | 105·8 | 104·9 | 104·9 | 102·4 | 101·0 | 101·0 | 102·5 | 102·5 | 101·7 | 103·1 |
| | 5 | 112·2 | 112·2 | 112·6 | 113·6 | 113·6 | 112·9 | 114·5 | 111·3 | 112·7 | 114·8 | 112·0 | 112·6 |
| | 6 | 107·5 | 109·7 | 111·5 | 111·8 | 112·7 | 111·7 | 111·5 | 111·4 | 112·0 | 112·0 | 111·9 | 111·9 |
| | 7 | 108·8 | 106·7 | 115·6 | 107·3 | 106·9 | 106·9 | 106·9 | 106·4 | 106·2 | 104·4 | 102·2 | 100·6 |
| | 8 | 101·0 | 103·1 | 102·8 | 100·9 | 99·1 | 99·0 | 99·0 | 99·0 | 98·4 | 97·9 | 96·0 | 94·7 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 99·4 | 99·4 | 98·8 | 97·0 | 94·0 | 93·7 | 93·7 | 93·7 | 94·4 | 93·7 | 94·2 | 94·2 |
| | 11 | 93·3 | 93·3 | 93·8 | 92·5 | 91·3 | 90·1 | 90·1 | 89·5 | 90·0 | 88·3 | 87·6 | 89·4 |
| | 12 | 88·5 | 88·5 | 88·9 | 89·5 | 88·2 | 88·9 | 90·2 | 91·8 | 94·0 | 94·0 | 94·5 | 94·5 |
| | 13 | 104·1 | 103·4 | 108·4 | 107·5 | 105·5 | 103·4 | 103·3 | 103·1 | 104·7 | 104·7 | 105·5 | 105·5 |
| | 14 | 106·7 | 109·1 | 108·1 | 109·4 | 108·8 | 107·4 | 106·8 | 106·4 | 105·6 | 104·3 | 102·1 | 101·3 |
| | 15 | 94·0 | 94·0 | 93·9 | 92·9 | 90·9 | 90·4 | 89·1 | 89·2 | 89·2 | 88·2 | 91·3 | 90·3 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 93·7 | 92·8 | 92·1 | 91·4 | 90·5 | 89·3 | 88·2 | 88·8 | 87·3 | 86·8 | 85·8 | 85·3 |
| | 18 | 86·2 | 86·2 | 85·7 | 86·8 | 85·9 | 82·9 | 81·7 | 80·6 | 81·9 | 81·5 | 80·9 | 80·7 |
| | 19 | 83·9 | 85·5 | 83·5 | 85·3 | 83·5 | 80·5 | 79·6 | 80·8 | 80·8 | 80·8 | 81·6 | 85·8 |
| | 20 | 81·7 | 81·5 | 81·5 | 81·0 | 80·2 | 78·1 ^b | 77·5 | 77·5 | 79·3 | 81·6 | 79·9 | 81·6 |
| | 21 | 75·7 | 77·1 | 78·7 | 78·6 | 78·6 | 76·0 | 76·2 | 79·0 | 79·8 | 79·8 | 79·6 | 77·7 |
| | 22 | 72·4 | 73·4 | 74·5 | 74·2 | 71·1 | 71·2 | 73·4 | 72·3 | 74·3 | 74·9 | 75·7 | 75·7 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 85·3 | 85·3 | 87·0 | 84·4 | 84·6 | 82·4 | 83·0 | 85·3 | 88·4 | 89·7 | 93·4 | 87·6 |
| | 25 | 81·8 | 82·6 | 84·7 | 81·3 | 79·5 | 78·0 | 79·0 | 79·3 | 83·6 | 78·8 | 79·1 | 79·1 |
| | 26 | 79·5 | 74·8 | 76·0 | 78·0 | 80·4 | 80·4 | 79·9 | 79·9 | 88·5 | 87·1 | 87·1 | 84·8 |
| | 27 | 86·3 | 88·3 | 88·2 | 86·7 | 84·0 | 81·0 | 81·8 | 83·0 | 84·4 | 84·4 | 83·0 | 84·6 |
| | 28 | 88·7 | 89·0 | 89·0 | 89·0 | 88·4 | 88·1 | 87·6 | 89·3 | 90·7 | 93·1 | 93·3 | 92·2 |
| Hourly Means | 94·49 | 94·81 | 95·57 | 94·88 | 93·88 | 92·60 | 92·50 | 92·58 | 93·92 | 93·67 | 93·32 | 93·11 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| FEBRUARY. | 1 | 30·0 | 30·0 | 29·2 | 29·5 | 29·8 | 30·2 | 31·0 | 32·0 | 32·3 | 33·0 | 34·1 | |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | |
| | 3 | 30·8 | 31·4 | 31·8 | 32·0 | 32·4 | 33·0 | 33·8 | 34·0 | 34·2 | 34·6 | 34·7 | 35·7 |
| | 4 | 36·8 | 36·8 | 36·7 | 36·6 | 36·9 | 37·6 | 38·6 | 39·1 | 39·0 | 39·0 | 39·0 | 39·3 |
| | 5 | 32·7 | 32·1 | 31·4 | 31·0 | 31·1 | 31·6 | 32·0 | 32·2 | 32·5 | 32·2 | 31·8 | 32·0 |
| | 6 | 32·3 | 32·3 | 32·0 | 32·0 | 32·3 | 32·6 | 33·2 | 33·3 | 33·5 | 33·2 | 33·0 | 33·0 |
| | 7 | 34·3 | 34·0 | 34·6 | 35·2 | 35·2 | 35·8 | 36·2 | 36·9 | 37·6 | 38·5 | 39·3 | 40·0 |
| | 8 | 39·4 | 38·8 | 38·6 | 38·9 | 39·8 | 40·0 | 40·0 | 40·5 | 40·7 | 41·4 | 41·8 | 42·2 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 39·7 | 39·8 | 39·9 | 40·5 | 41·7 | 42·0 | 43·0 | 43·0 | 43·0 | 43·0 | 43·6 | 43·5 |
| | 11 | 42·8 | 43·0 | 43·1 | 43·4 | 43·6 | 44·2 | 45·0 | 45·3 | 45·8 | 45·9 | 46·0 | 45·6 |
| | 12 | 45·6 | 45·6 | 45·6 | 45·3 | 45·1 | 44·7 | 44·3 | 44·0 | 43·6 | 43·4 | 43·0 | 42·8 |
| | 13 | 36·0 | 34·8 | 35·0 | 34·6 | 35·0 | 35·5 | 36·0 | 36·9 | 36·9 | 36·6 | 36·8 | 36·9 |
| | 14 | 34·0 | 33·8 | 33·4 | 33·7 | 33·9 | 34·3 | 34·7 | 34·9 | 35·6 | 36·6 | 37·6 | 38·0 |
| | 15 | 42·2 | 42·6 | 42·4 | 43·0 | 43·8 | 44·1 | 45·0 | 45·3 | 45·4 | 46·5 | 47·0 | 46·7 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 42·4 | 42·6 | 42·6 | 43·0 | 43·6 | 44·0 | 44·6 | 45·5 | 46·0 | 46·5 | 46·5 | 46·5 |
| | 18 | 46·6 | 46·6 | 46·6 | 46·8 | 47·0 | 48·0 | 48·8 | 49·0 | 49·2 | 49·4 | 49·6 | 49·9 |
| | 19 | 47·4 | 47·0 | 47·3 | 47·2 | 47·4 | 47·8 | 48·4 | 49·3 | 49·6 ^b | 49·6 | 49·6 | 49·5 |
| | 20 | 48·4 | 48·0 | 48·4 | 48·4 | 48·7 | 49·5 ^b | 50·0 | 50·1 | 50·3 | 50·2 | 50·2 | 50·0 |
| | 21 | 49·6 | 49·4 | 49·4 | 49·3 | 49·8 | 50·1 | 50·4 | 51·2 | 51·6 | 51·8 | 52·4 | 52·8 |
| | 22 | 53·0 | 53·0 | 52·5 | 52·7 | 52·7 | 53·1 | 53·3 | 53·1 | 53·2 | 53·5 | 53·2 | 52·8 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 45·8 | 45·8 | 45·8 | 45·5 | 47·0 | 47·2 | 47·8 | 48·0 | 48·0 | 48·6 | 49·0 | 49·5 |
| | 25 | 48·6 | 48·0 | 48·6 | 49·0 | 49·6 | 50·6 | 50·8 | 51·3 | 51·5 | 52·2 | 52·6 | 52·8 |
| | 26 | 50·3 | 49·8 | 49·6 | 49·6 | 49·6 | 49·8 | 50·1 | 50·3 | 50·0 | 50·0 | 50·0 | 49·7 |
| | 27 | 46·2 | 46·0 | 46·2 | 47·1 | 47·6 | 48·4 | 48·8 | 49·0 | 49·1 | 49·5 | 49·6 | 49·7 |
| | 28 | 45·0 | 44·5 | 44·1 | 45·1 | 44·6 | 45·0 | 45·1 | 45·6 | 45·6 | 45·6 | 45·6 | 45·4 |
| Hourly Means | 41·66 | 41·49 | 41·45 | 41·64 | 42·01 | 42·46 | 42·96 | 43·33 | 43·51 | 43·78 | 43·99 | 44·10 | |

^b Seven minutes late.

VERTICAL FORCE.

One Scale Division = '000063 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 110·8 | Sc. Div. 110·8 | Sc. Div. 111·9 | Sc. Div. 111·9 | Sc. Div. 111·6 | Sc. Div. 110·9 | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — |
| — | — | — | — | — | — | 116·2 | 116·1 | 116·2 | 116·1 | 115·8 | 116·2 | 114·45 |
| 108·7 | 108·7 | 108·1 | 109·1 | 108·8 | 108·6 | 108·6 | 107·9 | 108·7 | 108·7 | 108·0 | 107·4 | 110·40 |
| 102·9 | 102·6 | 104·5 | 104·9 | 105·7 | 105·7 | 105·7 | 108·9 | 109·9 | 110·2 | 110·6 | 111·7 | 105·22 |
| 113·1 | 113·9 | 113·9 | 113·9 | 115·0 | 114·7 | 114·0 | 114·0 | 114·1 | 112·9 | 101·3 | 100·2 | 112·37 |
| 111·9 | 111·9 | 111·9 | 111·9 | 112·2 | 112·2 | 112·2 | 111·0 | 111·0 | 109·8 | 108·8 | 109·0 | 111·23 |
| 100·6 | 101·7 | 101·8 | 101·0 | 99·9 | 99·4 | 97·9 | 97·4 | 99·3 | 99·9 | 100·8 | 101·0 | 103·32 |
| 95·8 | 96·4 | 97·2 | 97·2 | 97·1 | 98·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 91·8 | 97·1 | 101·9 | 100·2 | 99·3 | 99·3 | 98·42 |
| 92·8 | 93·2 | 93·0 | 92·6 | 92·6 | 92·8 | 89·0 | 92·3 | 92·3 | 93·1 | 93·3 | 93·3 | 94·02 |
| 89·4 | 90·0 | 88·5 | 88·5 | 88·2 | 88·2 | 88·2 | 88·2 | 88·5 | 88·4 | 88·5 | 88·5 | 89·68 |
| 94·8 | 97·0 | 97·8 | 98·7 | 98·7 | 99·0 | 99·0 | 102·1 | 102·6 | 102·6 | 102·6 | 104·6 | 95·46 |
| 105·5 | 106·4 | 106·4 | 105·9 ^a | 105·9 | 105·9 | 106·7 | 105·9 | 105·9 | 106·1 | 104·8 | 107·9 | 105·52 |
| 101·8 | 101·4 | 100·0 | 99·7 | 99·7 | 98·8 | 97·9 | 97·6 | 96·6 | 96·0 | 94·9 | 94·9 | 102·31 |
| 90·2 | 84·5 | 84·6 | 84·2 | 84·2 | 84·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 91·3 | 91·2 | 91·2 | 90·9 | 90·8 | 93·7 | 89·77 |
| 85·3 | 87·2 | 86·4 | 86·4 | 87·9 | 87·7 | 86·6 | 86·6 | 85·7 | 85·7 | 86·1 | 86·2 | 87·91 |
| 81·0 | 81·2 | 82·8 | 82·8 | 81·6 | 81·6 | 83·6 | 85·7 | 85·7 | 85·7 | 85·7 | 84·4 | 83·45 |
| 85·8 | 87·4 | 88·6 | 88·4 | 88·4 | 88·4 | 88·4 | 87·9 | 88·1 | 86·3 | 85·9 | 81·8 | 84·60 |
| 82·2 | 83·8 | 82·5 | 82·0 | 81·9 | 84·4 | 76·8 | 70·6 | 69·1 | 69·4 | 78·4 | 76·2 | 79·11 |
| 78·9 | 71·6 | 73·0 | 72·2 | 70·2 | 69·2 | 68·2 | 70·5 | 71·8 | 69·9 | 65·4 | 70·4 | 74·50 |
| 76·5 | 77·5 | 77·5 | 80·5 | 78·8 | 78·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71·8 | 68·5 | 72·2 | 77·5 | 82·1 | 85·3 | 75·49 |
| 88·4 | 86·7 | 88·5 | 79·7 | 84·3 | 79·9 | 70·4 | 81·2 | 76·4 | 73·0 | 81·0 | 81·9 | 83·66 |
| 80·4 | 81·4 | 79·9 | 77·9 | 76·1 | 77·5 | 76·9 | 65·0 | 74·3 | 78·0 | 68·1 | 76·3 | 78·28 |
| 87·7 | 84·6 | 84·6 | 83·2 | 83·5 | 85·4 | 83·0 | 82·7 | 84·5 | 83·6 | 80·6 | 86·8 | 82·78 |
| 84·0 | 85·3 | 82·3 | 87·0 | 84·0 | 88·6 | 87·7 | 87·4 | 87·4 | 86·4 | 88·4 | 88·4 | 85·52 |
| 91·7 | 91·9 | 92·8 | 94·0 | 92·0 | 92·8 | 92·6 | 90·9 | 90·7 | 90·7 | 91·0 | 91·0 | 90·85 |
| 93·34 | 93·22 | 93·27 | 93·17 | 92·85 | 93·01 | 91·83 | 91·95 | 92·60 | 92·53 | 92·00 | 93·18 | 93·26 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|
| 34·1 | 34·0 | 34·0 | 34·0 | 34·8 | 34·8 | — | — | — | — | — | — | — | 31·71 |
| — | — | — | — | — | — | 29·5 | 30·2 | 30·0 | 30·2 | 30·2 | 30·3 | — | — |
| 35·7 | 36·0 | 36·0 | 36·0 | 36·0 | 35·7 | 35·7 | 36·0 | 35·6 | 35·6 | 36·0 | 36·6 | — | 34·55 |
| 39·3 | 39·6 | 38·8 | 37·2 | 37·0 | 36·5 | 36·2 | 35·3 | 34·8 | 34·5 | 34·0 | 33·6 | — | 37·18 |
| 32·0 | 32·0 | 32·0 | 31·8 | 31·5 | 31·5 | 31·5 | 31·3 | 31·4 | 31·3 | 31·4 | 32·0 | — | 31·76 |
| 33·0 | 33·3 | 33·3 | 33·2 | 33·1 | 33·2 | 33·5 | 33·8 | 34·1 | 34·3 | 34·3 | 34·0 | — | 33·16 |
| 40·0 | 39·6 | 39·5 | 39·8 | 40·1 | 40·2 | 40·6 | 40·9 | 40·9 | 40·4 | 39·6 | 39·4 | — | 38·28 |
| 42·0 | 42·0 | 41·6 | 41·0 | 41·0 | 40·6 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38·0 | 38·0 | 38·2 | 39·0 | 39·5 | 39·7 | — | 40·11 |
| 43·6 | 43·4 | 43·5 | 43·5 | 43·4 | 43·4 | 44·0 | 43·8 | 43·6 | 43·6 | 43·3 | 43·1 | — | 42·70 |
| 45·4 | 45·4 | 45·8 | 46·0 | 46·0 | 45·8 | 45·6 | 45·6 | 45·6 | 45·6 | 45·6 | 45·6 | — | 45·07 |
| 42·0 | 41·4 | 41·0 | 40·5 | 40·0 | 39·5 | 38·5 | 38·0 | 37·6 | 37·4 | 37·0 | 36·6 | — | 41·77 |
| 36·8 | 36·2 | 36·1 | 35·6 ^a | 35·6 | 35·6 | 35·4 | 36·0 | 35·4 | 35·4 | 34·6 | 34·0 | — | 35·74 |
| 38·2 | 38·2 | 38·8 | 39·4 | 39·8 | 39·8 | 40·3 | 40·5 | 40·6 | 40·8 | 41·6 | 41·9 | — | 37·52 |
| 46·5 | 46·7 | 47·2 | 47·4 | 47·4 | 47·2 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 43·3 | 43·3 | 43·2 | 42·8 | 42·6 | 42·4 | — | 44·75 |
| 46·6 | 46·4 | 46·4 | 46·4 | 46·4 | 46·4 | 46·4 | 46·6 | 46·6 | 46·6 | 46·6 | 46·6 | — | 45·49 |
| 50·2 | 49·7 | 49·5 | 49·0 | 49·0 | 48·2 | 48·0 | 47·5 | 47·5 | 47·2 | 47·2 | 47·5 | — | 48·25 |
| 49·5 | 49·1 | 48·6 | 48·6 | 48·0 | 48·0 | 48·6 | 48·6 | 49·0 | 49·1 | 48·8 | 48·6 | — | 48·52 |
| 50·0 | 50·0 | 50·4 | 50·6 | 50·6 | 50·4 | 50·4 | 49·6 | 49·6 | 49·5 | 49·5 | 49·0 | — | 49·66 |
| 52·9 | 54·3 | 54·1 | 54·1 | 54·3 | 53·4 | 53·6 | 53·1 | 53·1 | 53·2 | 53·2 | 53·1 | — | 52·09 |
| 52·6 | 52·2 | 51·8 | 51·5 | 51·2 | 50·7 | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 46·8 | 46·4 | 46·4 | 46·3 | 46·1 | 45·8 | — | 51·00 |
| 50·0 | 49·9 | 49·6 | 50·0 | 49·7 | 49·2 | 48·9 | 48·6 | 48·6 | 48·6 | 48·6 | 48·4 | — | 48·25 |
| 52·2 | 52·7 | 52·8 | 53·2 | 52·8 | 52·8 | 52·3 | 52·7 | 52·3 | 52·0 | 51·6 | 50·8 | — | 51·41 |
| 49·3 | 49·3 | 48·7 | 49·0 | 49·2 | 48·7 | 48·5 | 48·5 | 47·6 | 47·0 | 46·7 | 46·6 | — | 49·08 |
| 49·3 | 48·7 | 48·0 | 47·2 | 46·4 | 46·0 | 45·8 | 45·8 | 45·6 | 45·6 | 45·4 | 45·4 | — | 47·35 |
| 45·0 | 45·0 | 44·8 | 44·6 | 44·6 | 44·6 | 44·6 | 44·4 | 44·1 | 44·2 | 44·5 | 44·5 | — | 44·84 |
| 44·01 | 43·96 | 43·85 | 43·73 | 43·66 | 43·43 | 42·75 | 42·68 | 42·56 | 42·51 | 42·41 | 42·31 | — | 42·93 |

^a Four minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|-------------------|-------|
| One Scale Division = '000063 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MARCH. | 1 | 90·6 | 90·6 | 90·6 | 68·6 | 81·2 | 80·7 | 81·9 | 83·1 | 83·8 | 83·6 | 83·1 | 81·6 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 87·0 | 86·9 | 87·0 | 85·8 | 86·1 | 86·5 | 86·6 | 88·9 | 88·1 | 87·9 | 86·8 | 88·1 |
| | 4 | 89·3 | 92·0 | 89·5 | 88·2 | 84·4 | 82·4 | 84·4 | 84·4 | 83·0 | 82·9 | 82·3 | 82·8 |
| | 5 | 84·4 | 86·4 | 86·1 | 86·1 | 85·3 | 84·5 | 84·5 | 85·1 | 86·0 | 84·5 | 82·6 | 80·9 |
| | 6 | 86·3 | 86·8 | 86·2 | 84·7 | 80·5 | 80·5 | 81·4 | 81·0 | 80·7 | 81·6 | 79·3 | 79·1 |
| | 7 | 85·6 | 84·8 | 84·1 | 81·2 | 79·5 | 78·8 | 78·7 | 78·3 | 79·7 | 79·7 | 80·5 | 80·7 |
| | 8 | 77·0 | 76·9 | 77·6 | 78·0 | 76·1 | 75·1 | 73·5 | 73·3 | 73·3 | 73·3 | 72·9 | 71·7 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 86·4 | 89·5 | 89·5 | 89·1 | 87·1 | 86·0 | 86·0 | 84·5 | 84·0 | 84·9 | 83·6 | 83·5 |
| | 11 | 86·9 | 88·0 | 87·1 | 85·1 | 80·8 | 80·8 | 78·5 | 78·5 | 80·8 | 80·5 ^a | 79·7 | 79·4 |
| | 12 | 84·9 | 86·0 | 86·0 | 83·0 | 82·1 | 81·0 | 80·9 | 82·0 | 80·7 | 79·8 | 78·7 | 79·7 |
| | 13 | 78·6 | 81·9 | 83·0 | 80·2 | 79·4 | 77·6 | 77·7 | 77·3 | 77·3 | 76·5 | 76·1 | 76·3 |
| | 14 | 82·2 | 80·8 | 82·5 | 79·3 | 78·2 | 77·8 | 77·1 | 76·1 | 79·1 | 79·1 | 80·3 | 81·9 |
| | 15 | 90·9 | 91·5 | 95·7 | 96·5 | 97·0 | 93·2 | 93·2 | 90·7 | 94·7 | 94·7 | 96·7 | 97·7 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 99·5 | 100·6 | 99·4 | 96·5 | 94·4 | 93·3 | 92·6 | 92·1 | 90·4 | 90·4 | 89·7 | 92·0 |
| | 18 | 96·1 | 96·1 | 96·1 | 95·6 | 94·1 | 95·3 | 95·9 | 96·4 | 94·6 | 95·9 | 95·9 | 95·6 |
| | 19 | 98·8 | 98·8 | 97·4 | 96·2 | 96·5 | 95·8 | 96·3 | 98·3 | 98·3 | 100·7 | 98·8 | 99·0 |
| | 20 | 89·3 | 92·6 | 92·9 | 92·5 | 90·1 | 86·5 | 90·0 | 89·4 | 89·6 | 89·8 | 89·7 | 91·0 |
| | 21 ^b | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 96·4 | 97·0 | 93·9 | 90·7 | 89·6 | 86·6 | 86·6 | 87·2 | 87·2 | 87·0 | 85·1 | 84·6 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 86·2 | 86·2 | 86·2 | 85·7 | 85·7 | 86·0 | 85·0 | 89·9 | 88·0 | 87·4 | 85·5 | 89·2 |
| | 25 | 86·2 | 88·6 | 87·1 | 86·1 | 82·0 | 78·3 | 79·8 | 78·0 | 78·0 | 77·6 | 78·0 | 79·0 |
| | 26 | 82·6 | 82·6 | 82·6 | 84·2 | 82·5 | 82·5 | 82·5 ^a | 83·8 | 86·1 | 82·7 | 84·4 | 84·2 |
| | 27 | 78·2 | 77·6 | 77·0 | 76·3 | 73·2 | 69·8 | 70·1 | 69·4 | 71·2 | 74·2 | 70·5 | 71·2 |
| | 28 | 74·1 | 74·1 | 73·7 | 73·7 | 71·6 | 69·2 | 66·4 | 67·0 | 67·4 | 69·2 | 70·3 | 78·0 |
| | 29 | 71·5 | 73·1 | 72·1 | 70·2 | 66·0 | 64·3 | 62·6 | 62·5 | 62·9 | 63·0 | 64·9 | 67·5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 69·5 | 69·8 | 69·0 | 68·1 | 67·3 | 63·5 | 63·3 | 63·5 | 63·9 | 63·7 | 63·8 | 63·8 |
| | Hourly Means | 85·54 | 86·37 | 86·09 | 84·06 | 82·83 | 81·44 | 81·42 | 81·63 | 81·95 | 82·02 | 81·57 | 82·34 |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MARCH. | 1 | 44·6 | 44·6 | 44·6 | 46·0 | 47·2 | 47·4 | 47·5 | 47·8 | 48·0 | 48·4 | 49·2 | 49·6 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 46·6 | 46·6 | 46·0 | 45·8 | 45·6 | 45·8 | 45·8 | 45·8 | 45·9 | 46·3 | 46·3 | 46·0 |
| | 4 | 45·2 | 44·2 | 44·6 | 45·4 | 46·3 | 47·0 | 47·2 | 47·1 | 47·7 | 48·4 | 48·9 | 49·0 |
| | 5 | 47·0 | 46·6 | 46·2 | 45·8 | 45·8 | 46·1 | 46·6 | 46·9 | 47·0 | 47·6 | 48·2 | 48·4 |
| | 6 | 46·0 | 46·0 | 46·1 | 47·0 | 48·4 | 48·9 | 48·6 | 48·7 | 49·0 | 50·0 | 50·4 | 50·1 |
| | 7 | 46·8 | 47·0 | 47·4 | 48·2 | 48·8 | 49·2 | 49·5 | 49·8 | 50·1 | 50·1 | 50·0 | 50·0 |
| | 8 | 50·8 | 50·6 | 50·8 | 50·6 | 51·0 | 51·6 | 52·6 | 53·9 | 54·1 | 54·3 | 54·6 | 54·4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 44·6 | 44·0 | 44·0 | 44·2 | 44·6 | 45·2 | 45·6 | 46·1 | 46·6 | 46·8 | 47·5 | 47·8 |
| | 11 | 45·6 | 45·4 | 45·6 | 46·2 | 46·9 | 47·4 | 47·8 | 48·4 | 48·4 | 49·0 | 49·5 | 49·6 |
| | 12 | 46·8 | 46·2 | 46·2 | 47·0 | 47·4 | 48·2 | 48·2 | 48·2 | 49·5 | 49·4 | 49·8 | 49·5 |
| | 13 | 47·6 | 47·2 | 47·2 | 48·0 | 47·9 | 48·6 | 49·0 | 49·6 | 50·1 | 50·5 | 51·3 | 51·7 |
| | 14 | 49·0 | 48·6 | 48·0 | 47·8 | 48·2 | 48·8 | 49·2 | 49·6 | 49·8 | 49·7 | 49·9 | 49·5 |
| | 15 | 41·8 | 41·4 | 40·8 | 40·6 | 40·6 | 40·6 | 40·6 | 40·4 | 46·1 | 40·2 | 40·2 | 40·0 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 39·0 | 39·2 | 39·6 | 39·8 | 40·6 | 40·8 | 41·8 | 42·3 | 42·9 | 43·0 | 43·3 | 43·4 |
| | 18 | 41·4 | 40·9 | 40·6 | 40·6 | 41·0 | 41·4 | 41·7 | 42·2 | 42·2 | 42·2 | 42·4 | 42·0 |
| | 19 | 39·9 | 39·9 | 40·0 | 39·8 | 39·8 | 40·0 | 40·0 | 40·0 | 40·4 | 40·4 | 40·8 | 40·9 |
| | 20 | 42·6 | 41·8 | 42·1 | 41·8 | 42·6 | 43·8 | 44·1 | 44·4 | 44·0 | 44·0 | 44·2 | 44·0 |
| | 21 ^b | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 41·0 | 41·5 | 42·4 | 43·4 | 44·2 | 44·8 | 45·2 | 45·8 | 45·8 | 46·2 | 47·2 | 47·8 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 45·0 | 45·3 | 45·3 | 45·5 | 46·0 | 46·0 | 46·6 | 46·8 | 47·4 | 47·6 | 48·0 | 48·2 |
| | 25 | 47·6 | 47·0 | 47·0 | 47·6 | 48·4 | 49·2 | 49·4 | 49·6 | 50·0 | 50·5 | 50·5 | 51·0 |
| | 26 | 49·0 | 49·0 | 49·0 | 49·3 | 49·3 | 49·5 | 49·9 | 49·9 | 50·0 | 50·3 | 51·0 | 51·3 |
| | 27 | 51·5 | 51·3 | 51·5 | 52·2 | 53·2 | 54·1 | 54·5 | 55·3 | 56·0 | 56·4 | 56·4 | 57·0 |
| | 28 | 53·3 | 52·8 | 52·8 | 53·0 | 53·3 | 54·0 | 54·3 | 55·0 | 55·6 | 55·4 | 55·7 | 56·1 |
| | 29 | 53·0 | 53·0 | 53·3 | 54·4 | 54·6 | 55·8 | 56·6 | 56·7 | 57·3 | 58·5 | 59·2 | 59·3 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 56·4 | 56·0 | 56·0 | 55·3 | 56·0 | 57·1 | 57·4 | 58·1 | 58·2 | 58·5 | 58·7 | 59·0 |
| | Hourly Means | 46·48 | 46·24 | 46·28 | 46·61 | 47·11 | 47·64 | 47·99 | 48·34 | 48·64 | 48·95 | 49·33 | 49·42 |

^a Four minutes late.

^b Good Friday.

VERTICAL FORCE.

One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 81.6 | Sc. Div. 81.6 | Sc. Div. 81.4 | Sc. Div. 81.4 | Sc. Div. 82.0 | Sc. Div. 82.0 | — | — | — | — | — | — | Sc. Div. 83.78 |
| — | — | — | — | — | — | 88.0 | 83.2 | 85.7 | 88.5 | 88.5 | 87.3 | 87.90 |
| 88.1 | 88.6 | 87.9 | 87.6 | 88.6 | 89.0 | 89.6 | 89.0 | 88.6 | 88.4 | 89.3 | 89.3 | 84.69 |
| 83.5 | 83.5 | 83.5 | 83.6 | 83.5 | 83.7 | 83.7 | 84.5 | 84.7 | 84.7 | 84.2 | 83.9 | 84.13 |
| 80.8 | 81.5 | 81.9 | 82.2 | 82.6 | 83.1 | 83.9 | 83.9 | 85.2 | 85.3 | 86.2 | 86.2 | 82.84 |
| 79.2 | 82.0 | 82.3 | 82.3 | 82.4 | 84.2 | 84.2 | 84.2 | 84.8 | 84.8 | 84.4 | 85.2 | 79.82 |
| 80.4 | 79.3 | 79.3 | 79.3 | 78.7 | 78.7 | 78.7 | 77.8 | 76.0 | 78.9 | 78.3 | 78.7 | — |
| 71.7 | 71.8 | 71.8 | 73.3 | 74.2 | 74.2 | — | — | — | — | — | — | 76.96 |
| — | — | — | — | — | — | 84.0 ^c | 83.7 | 83.3 | 85.6 | 88.3 | 86.4 | — |
| 83.6 | 83.6 | 83.6 | 83.5 | 83.7 | 84.3 | 84.7 | 85.6 | 85.5 | 85.7 | 85.7 | 86.9 | 85.44 |
| 79.1 | 81.5 | 81.9 | 83.4 | 83.4 | 83.4 | 83.7 | 83.6 | 83.4 | 84.9 | 84.9 | 84.9 | 82.68 |
| 78.5 | 79.5 | 80.1 | 80.1 | 79.8 | 81.8 | 82.0 | 81.6 | 81.6 | 74.0 | 77.3 | 79.1 | 80.84 |
| 75.9 | 76.4 | 78.8 | 78.8 | 79.4 | 79.3 | 80.2 | 79.4 | 74.5 ⁿ | 69.9 | 69.6 | 77.6 | 77.57 |
| 82.9 | 84.7 | 84.7 | 85.4 | 84.1 | 85.7 | 86.5 | 84.2 | 86.1 | 85.7 | 86.4 | 90.3 | 82.55 |
| 95.2 | 97.4 | 98.7 | 97.4 | 96.6 | 93.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 97.8 | 98.0 | 101.0 | 101.0 | 98.2 | 99.0 | 96.23 |
| 93.3 | 93.9 | 92.9 | 93.2 | 95.1 | 95.1 | 95.1 | 94.9 | 94.3 | 95.0 | 98.6 | 97.6 | 94.58 |
| 97.2 | 97.1 | 97.2 | 97.3 | 99.5 | 98.4 | 94.3 | 94.3 | 94.0 | 99.0 | 99.0 | 98.8 | 96.40 |
| 98.0 | 95.0 | 94.9 | 89.1 | 91.3 | 90.5 | 79.5 | 82.1 | 89.5 | 90.6 | 90.1 | 92.9 | 94.10 |
| 91.0 | 93.3 | 93.0 | 93.0 | 95.7 | 93.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 88.8 | 94.0 | 94.4 | 94.4 | 91.56 |
| 84.6 | 85.7 | 85.9 | 85.7 | 82.6 | 87.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 79.7 | 90.3 | 87.9 | 87.9 | 86.2 | 86.2 | 87.57 |
| 89.2 | 96.0 | 96.0 | 97.5 | 91.1 | 91.1 | 85.3 | 84.1 | 84.7 | 84.7 | 86.7 | 87.1 | 88.10 |
| 80.3 | 84.1 | 81.9 | 81.9 | 81.9 | 81.9 | 81.3 | 81.4 | 80.3 | 83.6 | 82.0 | 82.5 | 81.74 |
| 80.8 | 82.4 | 78.0 | 74.8 | 78.5 | 78.4 | 64.5 | 74.4 | 77.0 | 76.0 | 76.0 | 78.9 | 80.02 |
| 70.5 | 70.4 | 69.3 | 71.5 | 71.3 | 71.8 | 70.8 | 72.9 | 73.0 | 74.4 | 74.1 | 74.1 | 72.62 |
| 69.7 | 69.5 | 70.0 | 71.5 | 71.5 | 71.5 | 71.2 | 71.2 | 69.5 | 69.5 | 62.9 | 66.3 | 70.38 |
| 67.9 | 63.0 | 63.4 | 63.4 | 63.4 | 63.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 67.4 | 69.0 | 68.6 | 69.2 | 69.4 | 68.8 | 66.58 |
| 63.0 | 63.0 | 63.0 | 64.3 | 64.3 | 64.3 | 64.1 | 65.4 | 67.6 | 64.3 | 64.6 | 64.3 | 65.06 |
| 81.96 | 82.59 | 82.46 | 82.46 | 82.61 | 82.80 | 81.68 | 82.45 | 83.02 | 83.42 | 83.41 | 84.27 | 82.94 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 49.5 | 49.5 | 49.5 | 49.6 | 49.1 | 48.7 | — | — | — | — | — | — | 47.34 |
| — | — | — | — | — | — | 46.0 | 46.0 | 45.6 | 45.6 | 45.6 | 46.5 | — |
| 46.0 | 46.1 | 46.3 | 46.0 | 45.4 | 45.2 | 45.0 | 45.4 | 45.4 | 45.6 | 45.2 | 44.6 | 45.78 |
| 48.5 | 48.4 | 48.4 | 49.0 | 48.8 | 49.0 | 49.0 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.50 |
| 48.4 | 48.8 | 48.8 | 48.8 | 48.6 | 48.4 | 48.2 | 48.0 | 47.6 | 47.3 | 47.1 | 46.5 | 47.45 |
| 50.0 | 49.6 | 49.5 | 49.0 | 48.6 | 48.0 | 47.8 | 47.8 | 47.4 | 47.4 | 47.4 | 47.2 | 48.27 |
| 50.3 | 50.5 | 50.3 | 50.3 | 50.6 | 50.8 | 50.7 | 50.5 | 50.5 | 50.3 | 50.3 | 50.3 | 49.68 |
| 54.2 | 54.2 | 53.7 | 53.7 | 53.3 | 53.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.8 | 45.8 | 46.0 | 46.0 | 46.2 | 44.8 | 51.08 |
| 47.8 | 47.6 | 47.6 | 48.0 | 48.0 | 47.8 | 47.6 | 46.6 | 45.8 | 45.5 | 45.4 | 45.6 | 46.26 |
| 49.2 | 49.6 | 49.6 | 48.4 | 48.2 | 48.0 | 47.6 | 47.6 | 47.4 | 47.0 | 47.0 | 46.6 | 47.75 |
| 49.5 | 49.4 | 49.0 | 49.6 | 49.4 | 49.0 | 48.8 | 48.6 | 48.6 | 48.2 | 48.1 | 47.8 | 48.43 |
| 51.5 | 51.3 | 50.7 | 50.1 | 49.9 | 49.5 | 49.4 | 49.5 | 49.1 | 48.8 | 48.8 | 49.0 | 49.43 |
| 49.5 | 49.0 | 48.0 | 47.4 | 46.6 | 45.6 | 45.0 | 43.9 | 43.7 | 43.4 | 42.0 | 42.0 | 47.26 |
| 40.0 | 40.0 | 40.0 | 40.2 | 40.2 | 40.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.8 | 37.8 | 38.0 | 38.2 | 38.6 | 39.2 | 39.89 |
| 43.0 | 43.3 | 43.0 | 42.6 | 42.0 | 42.0 | 42.0 | 42.4 | 42.6 | 42.0 | 42.0 | 41.4 | 41.83 |
| 41.6 | 41.5 | 40.8 | 40.8 | 40.6 | 40.3 | 40.3 | 40.0 | 39.9 | 39.9 | 39.9 | 39.9 | 41.00 |
| 41.4 | 42.2 | 42.3 | 42.1 | 42.4 | 43.1 | 43.1 | 43.0 | 42.6 | 42.4 | 42.6 | 42.6 | 41.32 |
| 44.0 | 43.6 | 43.6 | 43.6 | 44.0 | 43.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 41.0 | 40.8 | 41.4 | 41.3 | 43.02 |
| 47.8 | 47.4 | 46.8 | 46.8 | 46.8 | 46.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.0 | 44.8 | 44.8 | 44.8 | 44.8 | 45.0 | 45.27 |
| 48.2 | 48.0 | 48.0 | 47.7 | 48.0 | 48.4 | 48.1 | 47.8 | 47.8 | 47.6 | 47.0 | 47.6 | 47.16 |
| 51.1 | 51.0 | 50.6 | 50.3 | 50.3 | 50.3 | 50.3 | 50.7 | 50.5 | 50.7 | 50.4 | 49.4 | 49.73 |
| 51.5 | 51.5 | 51.5 | 51.9 | 51.9 | 51.8 | 52.0 | 52.0 | 51.6 | 51.8 | 51.6 | 51.6 | 50.76 |
| 57.0 | 57.0 | 56.2 | 55.3 | 54.5 | 54.3 | 54.2 | 54.0 | 53.8 | 53.7 | 53.5 | 53.2 | 54.42 |
| 56.1 | 55.8 | 55.7 | 55.3 | 54.8 | 54.7 | 54.3 | 54.0 | 54.0 | 54.1 | 53.6 | 53.6 | 54.47 |
| 58.8 | 59.4 | 59.2 | 59.3 | 59.1 | 58.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.3 | 56.3 | 56.3 | 56.2 | 56.0 | 56.2 | 56.82 |
| 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 58.7 | 58.5 | 58.6 | 59.0 | 58.6 | 58.6 | 58.3 | 58.00 |
| 49.36 | 49.35 | 49.12 | 48.99 | 48.80 | 48.63 | 48.03 | 47.86 | 47.46 | 47.34 | 47.23 | 47.11 | 48.01 |

| VERTICAL FORCE. | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = '00007. | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
| APRIL. | 1 | 64·5 | 65·5 | 67·6 | 69·3 | 70·7 | 72·0 | 72·0 | 74·1 | 73·5 | 73·5 | 74·7 |
| | 2 | 80·2 | 80·6 | 79·1 | 76·0 | 69·3 | 74·9 | 74·9 | 75·0 | 76·2 | 76·2 | 75·2 |
| | 3 | 77·1 | 84·0 | 80·5 | 81·1 | 81·1 | 79·7 | 79·7 | 82·5 | 82·5 | 83·5 | 81·3 |
| | 4 | 81·2 | 79·0 | 77·6 | 76·8 | 77·2 | 77·2 | 77·7 | 77·9 | 78·2 | 79·3 | 78·9 |
| | 5 | 85·4 | 85·0 | 85·5 | 85·5 | 84·0 | 82·4 | 83·3 | 85·4 | 85·0 | 85·0 | 85·0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 92·0 | 92·6 | 95·2 | 94·2 | 94·2 | 93·6 | 92·0 | 89·7 | 89·7 | 88·8 | 88·2 |
| | 8 | 96·8 | 96·6 | 95·7 | 95·8 | 95·2 | 93·9 | 93·9 | 91·1 | 92·6 | 92·6 | 92·6 |
| | 9 | 95·5 | 95·5 | 94·1 | 89·9 | 88·6 | 86·3 | 84·5 | 84·5 | 84·5 | 85·3 | 85·3 |
| | 10 | 84·2 | 81·5 | 80·9 | 78·3 | 76·1 | 74·9 | 74·5 | 75·3 | 77·3 | 77·2 | 78·7 |
| | 11 | 82·2 | 82·9 | 83·9 | 83·9 | 80·9 | 79·6 | 78·8 | 78·4 | 78·9 | 78·4 | 79·5 |
| | 12 | 85·5 | 85·2 | 80·8 | 79·1 | 77·1 | 75·2 | 73·9 | 73·2 | 73·2 | 73·2 | 73·2 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 77·0 | 73·2 | 70·3 | 72·5 | 71·5 | 69·9 | 70·7 | 70·8 | 75·6 | 73·1 | 69·8 |
| | 15 | 72·9 | 72·9 | 68·6 | 68·4 | 64·1 | 63·7 | 64·7 | 65·6 | 65·6 | 66·0 | 64·7 |
| | 16 | 69·1 | 69·1 | 69·5 | 65·8 | 69·8 | 69·4 | 69·9 | 70·4 | 72·3 | 72·3 | 72·3 |
| | 17 | 69·7 | 71·5 | 71·0 | 70·6 | 69·5 | 67·6 | 66·0 | 67·8 | 69·6 | 70·8 | 71·7 |
| | 18 | 70·7 | 70·7 | 69·8 | 68·9 | 71·0 | 68·7 | 67·8 | 67·3 | 69·3 | 72·8 | 75·7 |
| | 19 | 71·0 | 70·6 | 69·9 | 69·2 | 67·2 | 65·9 | 67·2 | 68·6 | 73·1 | 74·5 | 74·5 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 73·0 | 73·0 | 73·0 | 71·4 | 69·8 | 68·2 | 67·3 | 67·9 | 65·5 | 69·8 | 70·7 |
| | 22 | 75·0 | 73·0 | 70·9 | 69·1 | 66·8 ^b | 65·3 | 66·3 | 67·0 | 68·1 | 67·6 | 66·9 |
| | 23 | 64·6 | 65·9 | 64·5 | 63·5 | 61·9 | 59·5 | 58·1 | 58·0 | 57·2 | 60·8 | 56·3 |
| | 24 | 54·1 | 55·2 | 55·0 | 55·6 | 54·1 | 55·7 | 53·6 | 51·5 | 50·7 | 48·8 | 50·0 |
| | 25 | 57·0 | 56·0 | 56·1 | 58·3 | 60·9 | 63·0 | 63·0 | 65·4 | 65·4 | 68·4 | 68·4 |
| | 26 | 66·7 | 66·7 | 64·3 | 64·1 | 63·0 | 62·0 | 62·0 | 61·5 | 64·3 | 63·1 | 61·9 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 66·4 | 63·4 | 63·9 | 63·7 | 63·7 | 62·4 | 62·2 | 62·0 | 63·4 | 62·3 | 60·7 |
| | 29 | 61·6 | 61·5 | 59·5 | 58·6 | 58·5 | 58·5 | 58·5 | 57·9 | 57·9 | 56·8 | 56·2 |
| | 30 | 63·6 | 64·1 | 64·1 | 61·5 | 59·4 | 58·7 | 57·4 | 57·0 | 59·3 | 58·4 | 59·9 |
| Hourly Means | 74·50 | 74·43 | 73·51 | 72·74 | 71·75 | 71·09 | 70·77 | 70·91 | 71·90 | 72·25 | 72·00 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | |
| APRIL. | 1 | 58·0 | 57·3 | 56·5 | 55·3 | 54·6 | 54·2 | 53·6 | 53·4 | 53·4 | 52·8 | |
| | 2 | 49·5 | 49·6 | 49·7 | 50·3 | 51·2 | 51·7 | 52·2 | 52·2 | 52·2 | 52·2 | |
| | 3 | 47·3 | 47·4 | 47·8 | 48·2 | 48·6 | 49·1 | 49·4 | 49·8 | 50·0 | 50·0 | |
| | 4 | 48·6 | 49·4 | 49·4 | 50·0 | 49·7 | 49·9 | 50·3 | 50·5 | 50·5 | 50·5 | |
| | 5 | 46·8 | 46·8 | 46·9 | 46·6 | 47·0 | 47·0 | 47·6 | 47·6 | 47·6 | 47·6 | |
| | 6 | — | — | — | — | — | — | — | — | — | — | |
| | 7 | 41·8 | 41·4 | 41·0 | 41·3 | 41·5 | 41·8 | 42·6 | 43·2 | 43·9 | 44·2 | |
| | 8 | 40·6 | 40·6 | 40·8 | 40·1 | 40·0 | 40·0 | 40·2 | 40·5 | 40·5 | 41·0 | |
| | 9 | 40·7 | 40·6 | 41·2 | 42·8 | 43·5 | 44·2 | 44·6 | 45·3 | 45·8 | 46·6 | |
| | 10 | 47·6 | 48·5 | 48·5 | 49·2 | 49·5 | 50·4 | 50·9 | 51·0 | 51·0 | 51·0 | |
| | 11 | 49·0 | 48·6 | 47·8 | 47·4 | 48·2 | 48·6 | 48·8 | 49·4 | 49·6 | 50·0 | |
| | 12 | 47·5 | 47·6 | 48·4 | 49·6 | 50·0 | 50·5 | 51·3 | 51·6 | 52·0 | 52·3 | |
| | 13 | — | — | — | — | — | — | — | — | — | — | |
| | 14 | 52·2 | 53·1 | 53·5 | 53·8 | 54·3 | 55·5 | 55·7 | 55·7 | 56·4 | 56·5 | |
| | 15 | 53·2 | 53·9 | 54·1 | 55·0 | 56·0 | 56·5 | 57·0 | 57·4 | 58·1 | 58·8 | |
| | 16 | 55·4 | 55·0 | 54·3 | 54·4 | 54·3 | 54·8 | 54·8 | 54·8 | 54·5 | 54·6 | |
| | 17 | 53·3 | 53·7 | 53·7 | 53·0 | 53·1 | 53·3 | 53·5 | 54·0 | 53·9 | 53·8 | |
| | 18 | 53·3 | 53·0 | 53·0 | 53·2 | 53·5 | 54·0 | 54·3 | 54·8 | 54·7 | 54·7 | |
| | 19 | 55·3 | 55·1 | 55·0 | 54·8 | 55·1 | 55·3 | 55·5 | 56·0 | 55·8 | 55·8 | |
| | 20 | — | — | — | — | — | — | — | — | — | — | |
| | 21 | 53·1 | 53·3 | 53·3 | 53·5 | 53·8 | 54·2 | 54·4 | 54·7 | 55·0 | 55·2 | |
| | 22 | 53·2 | 53·5 | 54·3 | 55·3 | 56·4 | 56·7 | 57·0 | 57·3 | 57·2 | 57·9 | |
| | 23 | 57·0 | 57·3 | 57·5 | 58·0 | 59·0 | 60·1 | 60·1 | 61·4 | 61·3 | 61·6 | |
| | 24 | 62·6 | 62·3 | 61·9 | 62·1 | 62·6 | 63·6 | 63·8 | 64·4 | 64·8 | 65·6 | |
| | 25 | 59·4 | 58·8 | 59·2 | 58·3 | 58·3 | 58·3 | 58·3 | 58·3 | 58·3 | 58·3 | |
| | 26 | 56·6 | 56·5 | 56·8 | 57·2 | 57·6 | 58·0 | 58·4 | 58·8 | 59·2 | 59·5 | |
| | 27 | — | — | — | — | — | — | — | — | — | — | |
| | 28 | 57·5 | 57·7 | 58·0 | 57·8 | 57·8 | 59·0 | 59·5 | 59·6 | 60·2 | 61·0 | |
| | 29 | 59·0 | 59·2 | 59·4 | 59·8 | 60·4 | 60·6 | 60·6 | 61·0 | 61·2 | 61·6 | |
| | 30 | 58·6 | 58·3 | 58·3 | 59·0 | 59·0 | 59·9 | 60·0 | 60·1 | 60·8 | 61·0 | |
| Hourly Means | 52·20 | 52·25 | 52·32 | 52·54 | 52·88 | 53·35 | 53·63 | 53·95 | 54·15 | 54·39 | | |

^b Two minutes late.

VERTICAL FORCE.

One Scale Division = $\cdot 000063$ parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = $\cdot 00007$.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 74.7 | 74.7 | 74.7 | 74.5 | 70.6 | 69.7 | 75.4 | 78.0 | 78.0 | 80.1 | 80.2 | 80.2 | 73.34 |
| 74.4 | 74.3 | 74.4 | 76.2 | 76.8 | 76.9 | 76.7 | 78.2 | 74.9 | 78.8 | 79.0 | 77.2 | 76.32 |
| 81.0 | 81.6 | 82.5 | 82.5 | 82.5 | 82.7 | 80.7 | 82.4 | 82.4 | 83.3 | 81.7 | 81.4 | 81.60 |
| 79.6 | 80.7 | 80.7 | 81.7 | 81.7 | 82.0 | 82.0 | 82.2 | 82.9 | 83.6 | 84.4 | 83.7 | 80.24 |
| 86.0 | 84.5 | 86.5 | 86.5 | 86.0 | 88.4 | — | — | — | — | — | — | 86.38 |
| — | — | — | — | — | — | 88.4 | 88.3 | 87.5 | 89.6 | 91.8 | 92.0 | — |
| 88.8 | 90.0 | 91.3 | 90.1 | 92.2 | 92.3 | 90.4 | 90.6 | 91.3 | 90.6 | 94.0 | 96.4 | 91.51 |
| 91.3 | 91.2 | 92.1 | 92.1 | 92.1 | 93.1 | 93.8 | 92.9 | 94.7 | 94.7 | 95.5 | 95.5 | 93.68 |
| 86.5 | 85.9 | 84.9 | 84.9 | 88.4 | 85.5 | 84.0 | 85.5 | 85.5 | 85.5 | 84.0 | 84.8 | 86.90 |
| 78.9 | 80.5 | 80.5 | 79.6 | 79.6 | 79.5 | 79.5 | 80.6 | 80.6 | 80.6 | 80.6 | 82.0 | 79.17 |
| 79.2 | 79.2 | 78.6 | 79.6 | 80.3 | 80.7 | 79.8 | 80.1 | 80.8 | 80.2 | 81.3 | 84.1 | 80.44 |
| 73.5 | 74.1 | 74.1 | 73.4 | 74.0 | 73.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 77.0 | 75.2 | 72.9 | 72.1 | 75.1 | 73.4 | 75.45 |
| 68.0 | 65.7 | 67.2 | 68.0 | 67.1 | 65.1 | 64.1 | 63.0 | 68.5 | 69.7 | 72.0 | 72.0 | 69.84 |
| 63.9 | 62.5 | 63.1 | 64.1 | 58.8 | 63.8 | 64.1 | 64.1 | 62.1 | 62.1 | 66.3 | 67.3 | 65.12 |
| 73.3 | 72.5 | 73.7 | 73.5 | 73.5 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.16 |
| 72.0 | 72.5 | 72.5 | 72.3 | 72.3 | 72.3 | 73.3 | 73.0 | 70.6 | 71.4 | 69.5 | 70.7 | 70.84 |
| 72.8 | 72.5 | 75.1 | 74.8 | 66.9 | 68.4 | 70.4 | 70.0 | 69.6 | 69.6 | 70.4 | 71.0 | 70.71 |
| 74.1 | 74.2 | 69.6 | 67.7 | 67.7 | 67.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 64.6 | 71.7 | 73.7 | 72.9 | 72.4 | 72.5 | 70.61 |
| 69.7 | 69.7 | 68.9 | 69.9 | 64.9 | 65.8 | 69.6 | 69.6 | 65.4 | 65.4 | 71.6 | 75.0 | 69.40 |
| 66.2 | 66.2 | 64.9 | 65.6 | 65.4 | 65.4 | 64.6 | 64.8 | 64.8 | 63.3 | 63.3 | 65.8 | 66.83 |
| 57.9 | 53.4 | 54.0 | 54.8 | 54.5 | 53.9 | 54.0 | 52.3 | 53.0 | 50.0 | 53.0 | 53.4 | 57.22 |
| 51.5 | 52.0 | 52.7 | 52.7 | 52.6 | 53.2 | 53.2 | 48.4 | 44.1 | 53.0 | 55.2 | 56.6 | 52.54 |
| 68.3 | 67.0 | 66.3 | 65.4 | 66.1 | 66.1 | 65.2 | 61.0 | 64.3 | 67.0 | 67.0 | 66.8 | 64.20 |
| 60.3 | 59.3 | 58.3 | 59.7 | 58.6 | 59.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 64.6 | 64.8 | 65.0 | 65.0 | 61.7 | 66.4 | 62.63 |
| 59.0 | 59.0 | 58.4 | 57.2 | 57.7 | 57.7 | 58.8 | 58.8 | 57.9 | 59.6 | 61.1 | 61.6 | 60.87 |
| 56.2 | 55.7 | 56.3 | 57.3 | 58.1 | 58.6 | 59.4 | 62.5 | 58.5 | 57.5 | 59.4 | 61.9 | 58.46 |
| 65.2 | 68.9 | 74.6 | 42.3 | 57.5 | 62.1 | 56.6 | 59.9 | 57.3 | 56.9 | 57.0 | 59.0 | 60.05 |
| 72.01 | 71.84 | 72.15 | 71.02 | 71.00 | 71.37 | 71.60 | 71.89 | 71.45 | 72.07 | 73.04 | 73.92 | 72.14 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 52.6 | 52.6 | 52.5 | 52.3 | 52.2 | 52.3 | 52.0 | 50.4 | 49.8 | 49.6 | 49.5 | 49.5 | 52.90 |
| 52.4 | 52.4 | 52.6 | 51.5 | 51.2 | 50.8 | 50.5 | 50.3 | 49.5 | 49.5 | 49.0 | 48.0 | 50.97 |
| 49.7 | 49.5 | 49.5 | 49.5 | 49.2 | 48.6 | 48.2 | 47.9 | 47.5 | 48.0 | 48.5 | 48.6 | 48.85 |
| 50.1 | 49.9 | 49.5 | 49.4 | 49.0 | 48.6 | 48.6 | 48.4 | 48.2 | 47.7 | 47.7 | 47.4 | 49.35 |
| 46.6 | 46.0 | 46.0 | 45.8 | 45.6 | 45.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 43.5 | 43.5 | 43.1 | 43.0 | 42.9 | 42.3 | 45.79 |
| 45.0 | 44.6 | 44.4 | 44.6 | 43.7 | 43.2 | 43.0 | 42.8 | 42.4 | 42.0 | 41.6 | 41.0 | 42.95 |
| 42.6 | 43.6 | 43.6 | 43.8 | 43.0 | 42.6 | 42.0 | 41.8 | 41.6 | 41.4 | 41.6 | 41.6 | 41.57 |
| 47.2 | 46.8 | 46.8 | 46.8 | 46.6 | 46.6 | 47.6 | 46.6 | 46.8 | 47.1 | 47.3 | 47.5 | 45.52 |
| 50.7 | 50.3 | 50.1 | 49.6 | 49.5 | 49.5 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.1 | 49.82 |
| 51.4 | 51.4 | 50.7 | 50.0 | 49.5 | 49.5 | 49.5 | 48.8 | 49.0 | 49.3 | 48.6 | 48.3 | 49.37 |
| 53.3 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 54.0 | 54.2 | 54.0 | 53.8 | 53.0 | 52.5 | 51.99 |
| 59.5 | 59.5 | 58.8 | 58.0 | 57.8 | 57.0 | 56.8 | 56.0 | 55.5 | 55.1 | 54.5 | 53.7 | 56.02 |
| 59.5 | 59.5 | 59.2 | 59.3 | 59.2 | 58.7 | 58.2 | 57.8 | 57.7 | 57.3 | 56.6 | 55.8 | 57.38 |
| 54.3 | 54.2 | 53.9 | 53.5 | 53.6 | 53.5 | 53.7 | 53.6 | 53.6 | 53.6 | 53.3 | 54.0 | 54.19 |
| 54.2 | 53.6 | 53.6 | 53.5 | 53.5 | 53.3 | 52.8 | 52.8 | 53.0 | 53.6 | 53.8 | 53.5 | 53.50 |
| 55.0 | 55.0 | 54.5 | 54.8 | 55.0 | 55.2 | 55.2 | 54.7 | 54.7 | 54.8 | 54.8 | 55.3 | 54.50 |
| 56.0 | 56.2 | 56.6 | 56.3 | 56.3 | 56.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.5 | 52.5 | 52.7 | 53.2 | 53.3 | 53.3 | 55.03 |
| 55.5 | 55.5 | 55.3 | 55.5 | 55.5 | 54.8 | 54.7 | 54.1 | 53.7 | 53.8 | 53.6 | 53.0 | 54.44 |
| 58.6 | 58.5 | 58.5 | 58.0 | 57.8 | 58.0 | 57.8 | 57.8 | 57.8 | 57.6 | 57.3 | 57.4 | 57.10 |
| 62.1 | 62.8 | 63.2 | 63.0 | 63.0 | 63.3 | 62.6 | 62.8 | 62.8 | 62.6 | 62.8 | 63.6 | 61.30 |
| 64.8 | 64.6 | 64.6 | 65.0 | 64.6 | 64.6 | 64.6 | 63.0 | 62.4 | 62.2 | 61.4 | 60.5 | 63.62 |
| 58.6 | 58.6 | 58.2 | 57.7 | 57.3 | 57.3 | 57.1 | 57.7 | 57.3 | 56.9 | 57.0 | 56.6 | 58.03 |
| 60.4 | 60.5 | 60.6 | 60.6 | 60.6 | 60.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.0 | 59.5 | 59.0 | 58.7 | 58.4 | 57.5 | 58.95 |
| 62.1 | 62.1 | 62.5 | 62.2 | 61.6 | 61.4 | 61.0 | 60.6 | 60.2 | 60.0 | 59.6 | 59.5 | 60.18 |
| 61.6 | 61.2 | 61.2 | 61.2 | 60.8 | 60.8 | 60.4 | 60.0 | 60.0 | 60.2 | 59.6 | 59.3 | 60.52 |
| 61.8 | 61.4 | 62.0 | 62.4 | 62.3 | 62.0 | 62.0 | 61.4 | 61.2 | 61.0 | 61.0 | 61.2 | 60.75 |
| 54.83 | 54.75 | 54.67 | 54.52 | 54.29 | 54.11 | 53.76 | 53.40 | 53.19 | 53.13 | 52.93 | 52.69 | 53.64 |

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| MAY. | 1 | 58·6 | 56·5 | 52·9 | 51·3 | 49·3 | 49·8 | 51·7 | 52·7 | 53·6 | 53·6 | 50·9 | 51·8 |
| | 2 | 59·9 | 58·4 | 56·4 | 56·0 | 54·7 | 54·7 | 56·5 | 59·2 | 59·6 | 59·7 | 58·5 | 57·0 |
| | 3 | 63·2 | 61·4 | 60·2 | 59·3 | 58·4 | 58·4 | 57·3 | 57·4 | 57·2 | 57·2 | 57·9 | 57·4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 69·3 | 68·6 | 67·9 | 65·8 | 64·2 | 64·6 | 64·8 | 67·3 | 68·2 | 68·2 | 66·7 | 65·4 |
| | 6 | 72·4 | 70·7 | 69·0 | 67·9 | 64·8 | 63·6 | 62·9 | 65·4 | 64·4 | 65·7 | 64·0 | 63·7 |
| | 7 | 70·8 | 71·3 | 70·7 | 70·7 | 68·9 | 68·9 | 68·9 | 68·9 | 70·8 | 69·9 | 69·9 | 68·1 |
| | 8 | 75·4 | 72·9 | 68·8 | 68·5 | 66·2 | 67·0 | 69·5 | 66·4 | 66·7 | 70·3 | 69·2 | 68·9 |
| | 9 | 70·0 | 67·7 | 65·7 | 64·0 | 62·3 | 60·3 | 60·9 | 61·0 | 63·2 | 62·9 | 61·3 | 61·3 |
| | 10 | 67·2 | 65·4 | 62·0 | 61·0 | 59·4 | 59·4 | 59·4 | 58·4 | 58·6 | 57·4 | 56·6 | 55·3 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 52·9 | 51·9 | 50·0 | 45·3 | 44·0 | 42·1 | 40·3 | 39·9 | 38·3 | 39·1 | 40·0 | 39·3 |
| | 13 | 44·5 | 45·0 | 44·0 | 41·8 | 40·3 | 39·0 | 37·5 | 37·5 | 37·5 | 36·8 | 36·8 | 39·8 |
| | 14 | 43·1 | 42·0 | 43·0 | 42·9 | 41·8 | 42·6 | 44·8 | 43·3 | 42·5 | 43·1 | 46·9 | 46·9 |
| | 15 | 54·1 | 54·7 | 56·5 | 59·0 | 59·0 | 56·7 | 57·7 | 59·0 | 61·7 | 63·7 | 67·0 | 65·3 |
| | 16 | 65·0 | 61·5 | 60·6 | 60·3 | 61·0 | 59·6 | 62·5 | 62·5 | 63·7 | 65·3 | 64·7 | 64·7 |
| | 17 | 70·2 | 67·7 | 63·9 | 62·0 ^a | 58·9 | 57·6 | 56·4 | 56·4 | 56·4 | 57·8 | 57·8 | 60·1 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 57·5 | 53·9 | 51·4 | 50·2 | 50·2 | 48·7 | 49·7 | 52·3 | 53·4 | 53·4 | 52·5 | 54·4 |
| | 20 | 59·0 | 56·8 | 54·3 | 54·2 | 53·5 | 53·0 | 51·4 | 51·1 | 54·2 | 54·6 | 54·5 | 54·5 |
| | 21 | 65·0 | 63·1 | 59·3 | 58·9 | 60·9 | 59·3 | 59·7 | 59·7 | 60·3 | 60·5 | 59·6 | 59·7 |
| | 22 | 64·7 | 64·7 | 66·1 | 64·7 | 63·2 | 63·3 | 63·5 | 66·5 | 69·3 | 70·5 | 72·5 | 69·3 |
| | 23 | 69·9 | 68·3 | 65·5 | 64·5 | 61·2 | 60·4 | 60·4 | 59·1 | 59·8 | 60·2 | 61·0 | 60·5 |
| | 24 | 64·8 | 65·8 | 65·3 | 63·6 | 60·8 | 58·7 | 61·0 | 63·3 | 63·9 | 63·5 | 63·5 | 63·5 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 67·7 | 67·5 | 60·5 | 59·1 | 59·1 | 58·0 | 57·0 | 55·0 | 54·2 | 54·1 | 52·9 | 52·9 |
| | 27 | 56·9 | 56·9 | 55·0 | 53·3 | 51·1 | 49·0 | 47·0 | 46·5 | 45·4 | 46·3 | 46·7 | 48·5 |
| | 28 | 52·1 | 52·6 | 53·9 | 54·5 | 51·7 | 50·6 | 49·4 | 48·3 | 50·3 | 49·3 | 48·7 | 48·7 |
| | 29 | 64·7 | 65·5 | 65·6 | 64·3 | 64·1 | 62·6 | 59·8 | 60·9 | 64·4 | 66·3 | 66·3 | 66·9 |
| | 30 | 73·5 | 73·5 | 72·8 | 70·1 | 66·5 | 63·1 | 64·4 | 68·8 | 71·3 | 72·5 | 73·2 | 71·3 |
| | 31 | 47·8 | 51·4 | 50·5 | 51·6 | 51·6 | 56·4 | 60·0 | 62·0 | 62·5 | 60·9 | 61·6 | 62·0 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 62·23 | 61·36 | 59·70 | 58·66 | 57·30 | 56·57 | 56·83 | 57·36 | 58·20 | 58·62 | 60·82 | 60·66 | |
| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
| MAY. | 1 | 61·0 | 61·6 | 62·6 | 62·4 | 63·0 | 63·6 | 63·6 | 64·0 | 64·2 | 64·8 | 65·6 | 66·3 |
| | 2 | 60·2 | 60·8 | 60·8 | 60·8 | 60·4 | 60·0 | 60·0 | 60·0 | 60·2 | 60·4 | 61·2 | 61·4 |
| | 3 | 58·0 | 59·2 | 59·2 | 59·8 | 59·4 | 59·8 | 60·8 | 60·8 | 61·0 | 61·0 | 61·4 | 61·4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 55·0 | 55·2 | 55·6 | 55·5 | 55·7 | 55·7 | 55·7 | 56·4 | 56·2 | 56·3 | 57·0 | 57·0 |
| | 6 | 53·0 | 53·5 | 54·3 | 55·1 | 55·8 | 56·2 | 56·3 | 56·5 | 57·3 | 57·9 | 58·3 | 59·0 |
| | 7 | 54·5 | 54·3 | 54·3 | 53·5 | 53·5 | 53·8 | 54·2 | 54·3 | 54·5 | 55·3 | 56·0 | 56·5 |
| | 8 | 51·8 | 52·3 | 53·5 | 53·5 | 54·3 | 54·3 | 53·3 | 53·4 | 53·8 | 54·4 | 55·0 | 55·0 |
| | 9 | 53·3 | 53·3 | 55·0 | 57·0 | 57·2 | 57·5 | 57·9 | 58·0 | 58·0 | 58·3 | 59·0 | 59·3 |
| | 10 | 56·0 | 56·8 | 57·2 | 57·6 | 58·5 | 59·2 | 59·6 | 60·0 | 60·2 | 61·0 | 61·0 | 60·6 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 63·0 | 63·6 | 64·0 | 65·4 | 66·8 | 67·6 | 68·4 | 68·6 | 69·5 | 70·0 | 70·0 | 70·4 |
| | 13 | 66·6 | 66·6 | 67·0 | 67·6 | 67·8 | 68·6 | 69·8 | 70·0 | 70·7 | 71·4 | 71·4 | 71·7 |
| | 14 | 66·3 | 66·6 | 66·4 | 66·2 | 66·4 | 66·5 | 66·5 | 66·8 | 67·2 | 66·8 | 66·7 | 66·8 |
| | 15 | 61·0 | 60·4 | 59·0 | 58·0 | 58·3 | 57·2 | 57·4 | 57·4 | 57·6 | 57·8 | 57·8 | 58·9 |
| | 16 | 54·1 | 54·6 | 54·9 | 55·3 | 56·0 | 56·2 | 56·0 | 56·5 | 56·5 | 57·3 | 57·5 | 57·1 |
| | 17 | 54·5 | 55·2 | 56·0 | 56·7 | 57·3 | 58·3 | 58·7 | 58·7 | 59·3 | 60·0 | 60·2 | 60·2 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 60·3 | 61·3 | 61·6 | 61·8 | 62·4 | 63·2 | 63·4 | 63·6 | 63·8 | 63·8 | 63·6 | 63·8 |
| | 20 | 60·0 | 60·6 | 60·8 | 60·4 | 60·6 | 61·0 | 61·0 | 61·5 | 61·6 | 61·6 | 62·0 | 62·0 |
| | 21 | 57·2 | 57·2 | 58·0 | 58·3 | 58·5 | 59·1 | 59·2 | 59·2 | 59·3 | 59·8 | 60·2 | 61·2 |
| | 22 | 56·5 | 56·1 | 55·9 | 55·5 | 55·6 | 56·0 | 56·5 | 56·5 | 56·5 | 56·5 | 56·5 | 56·3 |
| | 23 | 53·6 | 54·6 | 55·1 | 56·1 | 56·9 | 57·3 | 58·0 | 58·0 | 58·3 | 59·1 | 59·5 | 59·6 |
| | 24 | 56·0 | 56·0 | 56·0 | 55·7 | 55·9 | 56·2 | 56·3 | 56·6 | 57·0 | 57·3 | 57·3 | 57·3 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 54·8 | 54·5 | 55·5 | 56·2 | 58·0 | 58·6 | 59·4 | 59·6 | 61·6 | 61·8 | 62·8 | 62·6 |
| | 27 | 60·5 | 60·5 | 60·5 | 61·2 | 62·0 | 62·8 | 63·4 | 63·6 | 64·2 | 64·8 | 65·2 | 65·6 |
| | 28 | 62·6 | 62·4 | 62·4 | 61·6 | 62·0 | 62·8 | 62·8 | 63·4 | 63·4 | 63·7 | 64·4 | 64·6 |
| | 29 | 55·8 | 55·5 | 54·7 | 54·8 | 54·7 | 55·1 | 55·3 | 55·3 | 55·3 | 55·6 | 55·8 | 56·2 |
| | 30 | 52·2 | 52·0 | 52·7 | 53·4 | 54·3 | 54·5 | 54·5 | 54·7 | 54·7 | 55·2 | 55·9 | 56·9 |
| | 31 | 55·3 | 55·8 | 56·3 | 56·8 | 57·9 | 58·6 | 58·8 | 59·2 | 59·1 | 60·0 | 60·7 | 61·4 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 57·52 | 57·80 | 58·12 | 58·38 | 58·86 | 59·25 | 59·51 | 59·73 | 60·04 | 60·44 | 60·81 | 61·08 | |

^a Five minutes late.

VERTICAL FORCE.

One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 49.9 | 49.8 | 51.6 | 51.6 | 51.6 | 51.6 | 52.6 | 54.0 | 55.0 | 56.5 | 57.1 | 59.3 | 53.05 |
| 55.0 | 55.4 | 55.4 | 56.7 | 58.1 | 59.4 | 58.9 | 59.8 | 60.0 | 60.8 | 61.7 | 62.0 | 58.08 |
| 56.3 | 56.9 | 56.6 | 55.8 | 57.5 | 56.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63.9 | 64.2 | 64.6 | 65.7 | 67.7 | 69.0 | 59.98 |
| 64.7 | 64.7 | 66.0 | 66.0 | 66.4 | 66.9 | 67.5 ^b | 69.1 | 68.8 | 69.8 | 69.4 | 72.4 | 67.20 |
| 63.1 | 63.9 | 63.6 | 63.8 | 64.4 | 64.2 | 64.9 | 66.5 | 67.1 | 67.1 | 67.1 | 70.6 | 65.87 |
| 66.1 | 67.1 | 67.0 | 68.3 | 69.3 | 70.2 | 70.2 | 74.0 | 70.1 | 73.0 | 72.4 | 72.4 | 69.91 |
| 69.6 | 70.9 | 70.6 | 69.7 | 69.3 | 68.9 | 68.9 | 69.1 | 69.6 | 64.5 | 68.3 | 70.4 | 69.15 |
| 59.5 | 58.9 | 60.0 | 60.0 | 62.0 | 62.1 | 62.1 | 63.8 | 63.8 | 65.1 | 66.0 | 66.4 | 62.93 |
| 55.3 | 54.7 | 54.7 | 55.1 | 55.8 | 56.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 49.3 ^c | 49.2 | 49.7 | 47.6 | 49.4 | 51.8 | 56.21 |
| 37.6 | 37.6 | 38.2 | 38.4 | 37.3 | 39.2 | 37.5 | 40.5 | 40.5 | 40.8 | 42.6 | 44.1 | 41.56 |
| 39.8 | 40.3 | 39.0 | 37.3 | 38.7 | 40.3 | 36.1 | 40.6 | 42.9 | 44.0 | 44.0 | 44.0 | 40.31 |
| 45.5 | 44.9 | 45.3 | 42.6 ^b | 44.6 | 44.6 | 44.0 | 42.2 | 42.0 | 49.0 | 51.1 | 53.7 | 44.68 |
| 64.2 | 63.2 | 64.0 | 64.9 | 64.9 | 64.9 | 64.9 | 66.3 | 67.1 | 67.1 | 66.3 | 62.7 | 62.28 |
| 63.9 | 63.9 | 63.9 | 64.7 | 65.6 | 65.9 | 66.7 | 67.6 | 67.5 | 67.5 | 70.1 | 71.0 | 64.57 |
| 58.5 | 60.3 | 59.4 | 64.8 | 61.0 | 61.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 54.8 | 51.7 | 51.2 | 56.3 | 59.1 | 58.8 | 59.25 |
| 54.0 | 52.9 | 53.0 | 53.0 | 53.0 | 53.9 | 53.9 | 54.8 | 55.5 | 54.8 | 58.0 | 59.0 | 53.48 |
| 54.5 | 57.4 | 59.9 | 59.9 | 59.0 | 49.0 | 49.0 | 57.2 | 60.4 | 62.2 | 63.9 | 64.6 | 56.17 |
| 58.8 | 58.8 | 60.5 | 57.2 | 58.4 | 56.6 | 58.0 | 60.5 | 62.1 | 62.5 | 64.3 | 64.3 | 60.33 |
| 67.7 | 65.4 | 65.4 | 66.4 | 66.6 | 65.8 | 64.3 | 64.0 | 65.7 | 67.6 | 67.3 | 68.6 | 66.38 |
| 59.5 | 59.2 | 57.9 | 58.5 | 58.5 | 59.5 | 60.4 | 62.2 | 63.5 | 54.7 | 54.7 | 59.6 | 60.79 |
| 64.4 | 64.4 | 64.0 | 64.4 | 66.6 | 66.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 67.7 | 67.7 | 68.6 | 68.4 | 68.5 | 67.7 | 64.86 |
| 48.7 | 48.4 | 46.5 | 49.5 | 49.5 | 50.5 | 49.3 | 50.6 | 52.1 | 52.1 | 52.1 | 55.2 | 54.27 |
| 46.2 | 45.6 | 45.8 | 45.4 | 46.7 | 46.7 | 48.2 | — | — | — | 51.8 | 51.9 | 49.09 |
| 48.7 | 49.5 | 49.4 | 52.5 | 53.6 | 54.8 | 56.3 | 56.8 | 54.9 | 55.0 | 57.6 | 62.9 | 52.59 |
| 65.7 | 68.2 | 67.6 | 67.9 | 68.7 | 68.6 | 68.9 | 70.4 | 70.5 | 70.8 | 70.8 | 74.9 | 66.81 |
| 71.6 | 70.3 | 67.3 | 68.1 | 67.8 | 59.0 | 63.5 | 63.3 | 50.9 | 45.1 | 51.5 | 60.5 | 65.83 |
| 62.0 | 59.0 | 57.0 | 56.1 | 57.1 | 55.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 51.7 | 51.7 | 54.7 | 56.7 | 57.1 | 59.1 | 56.48 |
| 59.65 | 57.47 | 57.39 | 57.73 | 58.22 | 57.68 | 57.54 | 59.15 | 59.19 | 59.41 | 60.37 | 62.07 | 58.64 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 66.3 | 65.8 | 66.1 | 65.0 | 64.6 | 64.0 | 63.4 | 63.4 | 62.4 | 61.9 | 61.4 | 60.6 | 63.65 |
| 61.6 | 61.8 | 61.6 | 61.2 | 60.7 | 60.4 | 59.8 | 59.4 | 59.2 | 59.1 | 58.7 | 58.4 | 60.34 |
| 61.4 | 61.0 | 61.0 | 60.7 | 60.7 | 60.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.3 | 56.5 | 56.3 | 55.6 | 55.3 | 55.7 | 59.32 |
| 57.0 | 56.8 | 56.5 | 56.3 | 55.8 | 55.3 | 55.2 | 55.0 | 54.9 | 54.5 | 54.1 | 53.2 | 55.66 |
| 59.0 | 59.0 | 58.2 | 57.9 | 57.5 | 57.5 | 56.6 | 56.2 | 55.3 | 55.0 | 55.0 | 54.8 | 56.47 |
| 56.9 | 56.3 | 55.8 | 55.0 | 54.3 | 53.8 | 53.3 | 53.0 | 52.8 | 52.6 | 52.3 | 51.8 | 54.28 |
| 54.8 | 54.3 | 54.3 | 54.3 | 54.9 | 54.3 | 54.4 | 54.3 | 53.5 | 53.7 | 53.5 | 53.2 | 53.92 |
| 59.6 | 58.6 | 58.3 | 58.3 | 58.5 | 57.8 | 57.8 | 57.2 | 56.5 | 56.5 | 56.3 | 56.1 | 57.30 |
| 61.1 | 60.8 | 60.8 | 60.7 | 60.6 | 60.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65.0 | 64.8 | 64.8 | 64.8 | 64.9 | 63.4 | 60.81 |
| 70.5 | 70.5 | 70.2 | 70.3 | 70.3 | 70.3 | 70.0 | 68.7 | 68.2 | 68.0 | 67.6 | 66.8 | 68.28 |
| 71.5 | 71.3 | 71.0 | 70.0 | 69.4 | 69.0 | 68.6 | 68.6 | 68.0 | 67.6 | 67.2 | 66.4 | 69.07 |
| 67.4 | 67.4 | 67.0 | 67.4 | 67.4 | 67.0 | 66.4 | 65.5 | 64.6 | 63.6 | 62.6 | 61.7 | 66.13 |
| 59.3 | 58.8 | 58.2 | 57.4 | 56.8 | 56.3 | 55.8 | 55.4 | 55.2 | 54.8 | 54.3 | 54.2 | 57.39 |
| 57.1 | 57.1 | 57.1 | 57.0 | 56.5 | 56.3 | 55.8 | 55.9 | 55.8 | 55.7 | 54.5 | 53.7 | 56.02 |
| 60.6 | 60.6 | 60.6 | 61.0 | 60.6 | 60.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 61.2 | 61.3 | 61.4 | 60.8 | 60.0 | 59.5 | 59.30 |
| 63.9 | 63.6 | 63.4 | 63.4 | 63.2 | 62.6 | 62.0 | 61.6 | 61.2 | 60.4 | 60.0 | 59.6 | 62.40 |
| 61.7 | 61.6 | 61.0 | 60.6 | 60.2 | 59.6 | 59.0 | 58.8 | 58.1 | 57.5 | 56.9 | 56.4 | 60.19 |
| 62.8 | 62.0 | 61.6 | 61.1 | 60.6 | 60.0 | 59.5 | 58.5 | 58.0 | 57.3 | 57.0 | 56.6 | 59.26 |
| 56.3 | 56.3 | 56.3 | 56.2 | 55.8 | 55.5 | 55.3 | 55.7 | 55.2 | 55.4 | 54.8 | 53.8 | 55.87 |
| 60.0 | 60.0 | 59.6 | 59.5 | 59.3 | 58.4 | 58.0 | 57.1 | 56.1 | 55.5 | 55.3 | 55.0 | 57.50 |
| 57.6 | 57.4 | 57.4 | 56.5 | 55.5 | 55.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.0 | 56.19 |
| 63.6 | 63.4 | 64.2 | 64.4 | 63.8 | 63.6 | 63.3 | 62.8 | 62.2 | 62.0 | 61.5 | 60.8 | 60.87 |
| 66.0 | 65.8 | 65.6 | 65.2 | 65.1 | 64.8 | 64.4 | — | — | — | 62.5 | 62.6 | 63.63 |
| 61.6 | 64.2 | 63.6 | 62.0 | 61.3 | 60.5 | 59.8 | 59.0 | 58.0 | 57.8 | 58.2 | 56.5 | 61.73 |
| 56.2 | 55.2 | 54.8 | 55.1 | 54.5 | 54.0 | 53.1 | 52.3 | 51.6 | 51.3 | 51.3 | 50.7 | 54.34 |
| 58.0 | 57.8 | 57.7 | 58.1 | 57.7 | 58.1 | 57.9 | 57.5 | 57.2 | 56.9 | 56.8 | 55.3 | 55.83 |
| 61.6 | 61.6 | 61.4 | 61.4 | 60.8 | 60.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 62.3 | 61.5 | 60.5 | 60.0 | 59.8 | 59.6 | 59.62 |
| 61.35 | 61.07 | 60.86 | 60.59 | 60.24 | 59.84 | 59.65 | 59.05 | 58.55 | 58.22 | 58.04 | 57.46 | 59.44 |

^b Three minutes late.

^c Six minutes late.

VERTICAL FORCE.

One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.

| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | | |
|----------------------|------------------|------------------|------------------|------------------|--------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------|-------|
| JUNE. | 2 ^a | Sc. Div. 57·8 | Sc. Div. 58·0 | Sc. Div. 58·2 | Sc. Div. 55·5 | Sc. Div. 53·8 | Sc. Div. 52·7 | — | — | — | — | — | | |
| | 3 | 118·0 | 116·6 | 116·6 | 116·2 | 115·9 | 115·9 | 115·9 | 115·9 | 116·6 | 116·6 | 116·4 | 116·0 | |
| | 4 | 113·7 | 113·1 | 112·7 | 112·5 ^b | 112·3 | 112·3 | 112·0 | 112·0 | 111·9 | 112·8 | 113·6 | 114·1 | |
| | 5 | 110·5 | 110·5 | 110·2 | 110·2 | 109·7 | 109·3 | 109·3 | 109·4 | 110·0 | 110·0 | 110·0 | 109·8 | |
| | 6 | 110·7 | 110·7 | 110·7 | 110·2 | 109·6 | 109·6 ^c | 109·6 | 109·6 | 109·6 | 109·6 | 110·1 | 110·3 | 110·3 |
| | 7 | 111·9 | 111·6 | 111·6 | 111·1 | 111·1 | 111·1 | 110·9 | 103·8 | 104·5 | 105·1 | 104·8 | 104·5 | |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | 9 | 99·6 | 99·1 | 99·1 | 97·7 | 96·8 | 96·7 | 95·4 | 95·2 | 94·7 | 94·7 | 94·5 | 94·5 | |
| | 10 | 95·4 | 94·7 | 94·3 | 93·7 | 92·8 | 91·8 | — | 73·3 | 77·3 | 77·0 | 78·1 | 79·2 | |
| | 11 | 85·5 | 86·3 | 85·9 | 82·7 ^b | 81·1 | 82·0 | 81·1 | 80·8 | 82·6 | 83·8 | 84·2 | 82·5 | |
| | 12 | 85·0 | 84·6 | 86·4 | 86·4 | 85·0 | 83·6 | 82·7 | 81·9 | 83·2 | 84·9 | 84·9 | 83·8 | |
| | 13 | 84·1 | 83·5 | 81·9 | 79·9 | 80·6 | 81·3 | 81·3 | 80·4 | 77·8 | 78·7 | 78·7 | 79·0 | |
| | 14 | 86·7 | 86·6 | 84·4 | 84·2 | 84·2 | 84·2 | 84·2 | 84·1 | 87·6 | 87·8 | 88·6 | 89·3 | |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | 16 | 100·6 | 101·2 | 100·7 | 99·4 | 97·0 | 97·5 | 96·1 | 96·8 | 98·6 | 99·2 | 100·4 | 99·8 | |
| | 17 | 99·8 | 102·7 | 101·0 | 101·0 | 101·0 | 101·0 | 98·5 | 96·8 | 96·1 | 97·4 | 99·0 | 98·2 | |
| | 18 | 95·9 | 99·5 | 97·9 | 96·7 | 94·3 | 93·1 | 93·1 | 93·1 | 91·8 | 91·2 | 89·9 | 89·9 | |
| | 19 | 93·9 | 94·3 | 92·3 | 90·9 | 89·2 | 88·2 | 87·4 | 87·1 | 86·4 | 87·7 | 88·7 | 86·7 | |
| | 20 | 95·0 | 92·6 | 91·9 | 90·9 | 89·2 | 89·2 | 89·2 | 87·1 | 86·9 | 86·5 | 85·4 | 85·4 | |
| | 21 | 88·2 | 87·4 | 86·5 | 83·7 | 80·4 | 78·6 | 78·9 | 79·8 | 79·8 | 79·8 | 80·0 | 80·9 | |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | 23 | 89·9 | 90·0 | 86·4 | 83·2 | 81·0 | 78·3 | 79·5 | 81·2 | 81·8 | 81·8 | 81·3 | 80·3 | |
| | 24 | 80·0 | 79·4 | 76·3 | 75·9 | 73·5 | 73·4 | 72·7 | 71·8 | 72·5 | 75·2 | 74·8 | 73·8 | |
| | 25 | 74·5 | 73·2 | 74·2 | 71·6 | 74·9 | 74·1 | 75·2 | 76·2 | 77·2 | 77·6 | 79·2 | 79·0 | |
| | 26 | 88·9 | 87·4 | 84·6 | 85·1 | 83·3 | 81·0 | 79·1 | 77·5 | 81·8 | 81·8 | 81·8 | 79·8 | |
| | 27 | 87·9 | 86·0 | 85·2 | 82·5 | 79·5 | 79·2 | 78·9 | 78·2 | 77·4 | 78·3 | 78·3 | 76·6 | |
| | 28 | 67·7 | 76·2 | 77·8 | 81·0 | 81·3 | 81·8 | 82·0 | 81·1 | 82·8 | 84·4 | 87·4 | 86·2 | |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | 30 | 88·1 | 87·5 | 85·1 | 82·8 | 79·6 | 81·0 | 83·6 | 85·2 | 85·8 | 86·9 | 89·5 | 93·2 | |
| | Hourly Means | 93·81 | 93·95 | 93·07 | 92·06 | 90·97 | 90·59 | 90·27 | 89·10 | 89·78 | 90·39 | 90·83 | 90·53 | |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | | |
|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| JUNE. | 2 | 59·6 | 59·6 | 59·4 | 59·2 | 60·8 | 62·0 | — | — | — | 64·8 | 65·4 | 66·3 |
| | 3 | 64·2 | 64·2 | 64·2 | 64·4 | 64·8 | 65·2 | 65·8 | 67·0 | 67·2 | 68·0 | 68·2 | 68·4 |
| | 4 | 65·5 | 66·0 | 66·6 | 67·4 | 67·6 | 68·6 | 69·0 | 69·5 | 70·0 | 70·5 | 70·5 | 70·7 |
| | 5 | 68·6 | 68·0 | 67·6 | 67·1 | 66·8 | 67·0 | 67·0 | 67·0 | 67·0 | 67·4 | 67·5 | 67·9 |
| | 6 | 63·1 | 63·1 | 63·0 | 63·2 | 63·5 | 63·5 | 63·5 | 63·6 | 63·5 | 63·3 | 63·2 | 62·8 |
| | 7 | 59·6 | 60·0 | 59·8 | 59·8 | 60·0 | 60·2 | 60·6 | 60·8 | 60·8 | 61·4 | 61·6 | 62·4 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 68·0 | 68·8 | 69·4 | 69·3 | 69·8 | 70·2 | 70·5 | 71·0 | 71·5 | 72·3 | 72·7 | 73·3 |
| | 10 | 68·8 | 69·4 | 69·8 | 70·5 | 70·9 | 71·4 | — | 72·3 | 74·0 | 73·5 | 73·5 | 73·5 |
| | 11 | 68·7 | 68·5 | 68·6 | 68·6 | 68·7 | 69·0 | 69·2 | 69·7 | 70·0 | 70·5 | 71·0 | 71·5 |
| | 12 | 67·5 | 67·3 | 67·0 | 67·0 | 67·3 | 67·5 | 66·9 | 68·0 | 69·0 | 69·0 | 69·0 | 69·8 |
| | 13 | 69·0 | 69·5 | 69·5 | 70·4 | 70·2 | 69·7 | 70·2 | 70·2 | 70·8 | 71·0 | 71·6 | 71·8 |
| | 14 | 68·0 | 66·6 | 67·4 | 67·4 | 67·4 | 67·4 | 67·6 | 67·6 | 67·6 | 67·8 | 68·0 | 68·4 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 60·0 | 60·2 | 60·4 | 60·6 | 60·6 | 61·4 | 61·6 | 61·8 | 61·6 | 61·4 | 61·4 | 61·4 |
| | 17 | 59·0 | 59·2 | 60·0 | 60·0 | 59·8 | 60·0 | 59·8 | 60·0 | 60·6 | 61·4 | 61·6 | 62·4 |
| | 18 | 61·5 | 60·2 | 60·8 | 61·0 | 61·7 | 62·6 | 63·0 | 63·2 | 63·9 | 64·8 | 64·8 | 65·0 |
| | 19 | 62·4 | 63·6 | 63·6 | 63·8 | 64·6 | 64·8 | 65·1 | 65·6 | 66·1 | 67·0 | 67·6 | 68·0 |
| | 20 | 63·6 | 63·6 | 64·0 | 64·0 | 65·1 | 65·6 | 66·3 | 67·0 | 68·4 | 68·6 | 69·0 | 68·8 |
| | 21 | 66·4 | 66·2 | 66·6 | 67·0 | 68·0 | 69·0 | 69·0 | 69·3 | 69·3 | 69·5 | 70·0 | 70·5 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 65·0 | 65·4 | 66·2 | 66·6 | 66·8 | 67·6 | 68·3 | 69·0 | 69·4 | 69·7 | 70·5 | 71·5 |
| | 24 | 69·6 | 69·4 | 69·7 | 70·4 | 71·4 | 72·0 | 72·4 | 72·7 | 73·5 | 73·7 | 73·9 | 74·3 |
| | 25 | 70·0 | 69·6 | 69·0 | 71·0 | 70·6 | 71·5 | 71·7 | 70·3 | 70·2 | 70·4 | 70·7 | 71·0 |
| | 26 | 65·3 | 65·2 | 65·8 | 66·4 | 66·7 | 67·0 | 67·5 | 67·6 | 67·9 | 68·0 | 67·8 | 69·0 |
| | 27 | 64·8 | 65·4 | 66·0 | 66·6 | 67·3 | 68·0 | 68·4 | 69·0 | 68·8 | 69·6 | 70·0 | 70·5 |
| | 28 | 67·0 | 66·4 | 66·6 | 66·1 | 66·1 | 66·0 | 66·1 | 66·5 | 66·5 | 66·5 | 66·5 | 66·6 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 64·1 | 64·4 | 64·6 | 65·0 | 65·2 | 65·6 | 65·6 | 65·8 | 65·9 | 65·7 | 65·8 | 65·6 |
| | Hourly Means | 65·40 | 65·42 | 65·68 | 65·98 | 66·29 | 66·70 | 66·79 | 67·27 | 67·65 | 67·96 | 68·18 | 68·55 |

NOTE.—Instrument readjusted on the 2nd and again on the 10th.

^a Not included in the means.

^b Three minutes late.

VERTICAL FORCE.

One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 122.2 | 121.2 | 120.7 | 119.8 | 118.9 | 118.8 | 118.8 | 118.5 | 118.5 | 118.5 | 118.5 | 118.2 | — |
| 116.0 | 115.4 | 115.1 | 115.1 | 114.8 | 114.6 | 113.9 | 113.9 | 113.7 | 114.1 | 114.5 | 113.7 | 115.48 |
| 113.9 | 113.5 | 112.8 | 112.4 | 111.2 | 111.2 | 110.5 | 111.5 | 111.4 | 110.8 | 110.8 | 110.6 | 112.23 |
| 109.8 | 109.8 | 109.4 | 109.8 | 108.9 | 109.5 | 110.0 | 110.0 | 110.0 | 110.2 | 110.7 | 110.7 | 109.90 |
| 111.1 | 111.1 | 110.8 | 111.0 | 111.0 | 111.0 | 111.1 | 111.4 | 111.4 | 111.5 | 111.5 | 111.9 | 110.66 |
| 104.5 | 104.5 | 104.5 | 104.9 | 105.2 | 105.2 | — | — | — | — | — | — | 105.25 |
| — | — | — | — | — | — | 99.3 | 99.3 | 98.7 | 99.2 | 99.2 | 99.6 | — |
| 93.9 | 93.4 | 93.4 | 93.3 | 93.6 | 93.6 | 94.0 | 93.8 | 93.2 | 93.2 | 93.2 | 93.2 | 94.99 |
| 78.4 | 76.1 | 77.1 | 76.5 | 77.8 | 77.8 | 77.8 | 75.4 | 71.4 | 71.4 | 71.7 | 89.5 | 81.24 |
| 82.5 | 81.2 | 79.9 | 82.0 | 82.0 | 83.7 | 83.7 | 84.0 | 84.0 | 84.0 | 84.0 | 85.0 | 83.10 |
| 82.2 | 81.2 | 80.7 | 81.3 | 81.0 | 81.0 | 81.0 | 82.4 | 82.4 | 83.4 | 83.4 | 84.6 | 83.25 |
| 79.0 | 79.2 | 80.6 | 79.7 | 82.1 | 80.9 | 81.1 | 82.3 | 83.5 | 84.0 | 85.5 | 85.5 | 81.28 |
| 88.1 | 86.9 | 85.6 | 86.6 | 88.0 | 88.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 99.7 | 100.1 | 100.1 | 101.2 | 102.4 | 100.7 | 90.00 |
| 100.5 | 100.5 | 101.2 | 101.1 | 101.1 | 102.4 | 97.5 | 101.8 | 101.8 | 102.3 | 103.3 | 103.3 | 100.17 |
| 98.2 | 96.3 | 96.3 | 96.3 | 95.8 | 95.8 | 96.5 | 97.8 | 99.6 | 100.8 | 101.5 | 101.6 | 98.71 |
| 90.7 | 91.3 | 90.2 | 87.9 | 88.9 | 88.7 | 87.9 | 90.0 | 90.3 | 91.0 | 93.0 | 93.7 | 92.08 |
| 84.3 | 84.3 | 84.9 | 83.8 | 86.1 | 87.3 | 87.3 | 85.8 | 87.3 | 91.3 | 92.9 | 95.1 | 88.47 |
| 84.6 | 84.6 | 83.7 | 84.2 | 85.5 | 85.8 | 85.8 | 86.4 | 86.4 | 87.8 | 85.9 | 88.8 | 87.45 |
| 80.9 | 80.9 | 80.9 | 80.9 | 82.2 | 82.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 89.6 | 89.6 | 90.6 | 90.8 | 91.5 | 90.4 | 83.93 |
| 79.7 | 79.6 | 75.9 | 76.3 | 76.8 | 76.8 | 78.0 | 76.8 | 78.4 | 78.7 | 76.1 | 79.4 | 80.30 |
| 73.8 | 73.5 | 73.9 | 73.4 | 73.2 | 73.4 | 73.4 | 73.9 | 74.6 | 75.6 | 77.6 | 77.2 | 74.70 |
| 78.3 | 78.3 | 77.4 ^b | 77.4 | 78.8 | 79.5 | 79.5 | 82.2 | 82.7 | 83.7 | 85.4 | 88.1 | 78.26 |
| 78.1 | 78.1 | 78.1 | 78.2 | 78.7 | 80.3 | 81.3 | 80.8 | 80.7 | 81.1 | 85.7 | 87.6 | 81.70 |
| 75.9 | 76.2 | 76.0 | 75.7 | 75.3 | 77.5 | 77.8 | 78.9 | 79.2 | 79.8 | 81.1 | 75.1 | 79.02 |
| 85.9 | 85.7 | 86.1 ^d | 86.1 | 86.1 | 86.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 87.1 | 83.5 | 82.7 | 76.3 | 84.4 | 88.1 | 82.83 |
| 95.5 | 95.3 | 92.2 | 90.6 | 71.6 | 85.8 | 87.1 | 81.0 | 88.4 | 88.1 | 89.4 | 93.6 | 86.95 |
| 90.24 | 89.87 | 89.45 | 89.35 | 88.99 | 89.96 | 90.49 | 90.53 | 90.94 | 91.26 | 92.28 | 92.79 | 90.77 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 67.0 | 68.0 | 67.5 | 66.8 | 66.4 | 66.1 | 65.8 | 65.4 | 65.4 | 65.0 | 64.5 | 64.2 | — |
| 68.5 | 68.5 | 69.0 | 68.5 | 68.5 | 68.1 | 67.6 | 67.4 | 67.4 | 67.2 | 66.8 | 66.0 | 66.88 |
| 70.7 | 70.7 | 70.5 | 70.7 | 70.5 | 70.6 | 70.6 | 68.8 | 68.0 | 68.0 | 67.6 | 67.6 | 69.01 |
| 68.0 | 67.7 | 67.8 | 66.8 | 66.2 | 65.8 | 65.6 | 65.3 | 64.8 | 64.6 | 64.0 | 63.4 | 66.62 |
| 62.6 | 62.4 | 62.0 | 62.4 | 62.2 | 62.0 | 61.6 | 60.8 | 60.8 | 60.4 | 60.1 | 59.5 | 62.34 |
| 62.4 | 62.0 | 62.0 | 61.6 | 61.6 | 61.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68.0 | 68.0 | 68.0 | 67.5 | 67.5 | 67.8 | 62.71 |
| 73.5 | 73.5 | 73.5 | 73.0 | 72.5 | 72.5 | 72.0 | 72.1 | 71.8 | 71.6 | 71.0 | 69.0 | 71.37 |
| 73.5 | 73.5 | 73.5 | 73.1 | 72.5 | 72.1 | 72.0 | 72.0 | 71.6 | 71.0 | 70.4 | 69.3 | 71.83 |
| 72.0 | 71.5 | 72.0 | 71.0 | 70.6 | 70.2 | 69.8 | 69.0 | 69.0 | 68.7 | 68.5 | 68.0 | 69.76 |
| 70.8 | 71.4 | 71.4 | 71.2 | 70.8 | 70.6 | 70.3 | 70.0 | 70.0 | 69.6 | 69.1 | 69.7 | 69.22 |
| 72.0 | 72.0 | 71.5 | 70.6 | 70.6 | 70.1 | 70.0 | 69.6 | 69.0 | 69.0 | 68.4 | 68.2 | 70.20 |
| 68.8 | 68.8 | 68.6 | 68.2 | 66.8 | 66.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.6 | 60.6 | 60.6 | 60.4 | 60.0 | 60.0 | 65.88 |
| 61.0 | 60.7 | 60.7 | 60.6 | 60.4 | 60.3 | 60.4 | 60.0 | 59.7 | 59.4 | 59.0 | 58.6 | 60.55 |
| 62.6 | 63.0 | 62.8 | 62.8 | 62.6 | 62.4 | 62.0 | 61.7 | 61.0 | 60.5 | 59.8 | 59.8 | 61.03 |
| 65.2 | 64.8 | 65.6 | 66.4 | 66.3 | 65.6 | 65.6 | 64.9 | 64.6 | 64.1 | 63.6 | 62.7 | 63.83 |
| 68.8 | 68.8 | 68.4 | 67.8 | 67.4 | 67.0 | 66.6 | 65.9 | 65.5 | 64.7 | 64.0 | 64.4 | 65.90 |
| 68.1 | 67.8 | 68.1 | 68.0 | 68.0 | 67.6 | 67.4 | 67.5 | 67.5 | 67.4 | 67.5 | 66.7 | 66.90 |
| 70.5 | 70.2 | 70.3 | 70.1 | 70.0 | 69.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65.6 | 65.5 | 65.4 | 65.2 | 64.6 | 65.6 | 68.07 |
| 71.5 | 71.7 | 71.9 | 71.5 | 71.5 | 71.5 | 71.2 | 71.5 | 70.7 | 70.3 | 71.0 | 69.5 | 69.57 |
| 74.5 | 74.5 | 74.0 | 74.0 | 73.6 | 73.3 | 73.0 | 72.2 | 71.7 | 71.1 | 70.8 | 70.3 | 72.33 |
| 71.4 | 71.0 | 71.0 | 70.5 | 70.0 | 69.7 | 68.7 | 68.5 | 67.3 | 66.5 | 66.0 | 65.4 | 69.67 |
| 69.4 | 69.6 | 69.6 | 69.5 | 69.0 | 68.5 | 67.8 | 68.4 | 68.5 | 68.4 | 68.0 | 65.5 | 67.77 |
| 70.7 | 71.0 | 71.0 | 71.5 | 71.5 | 70.6 | 70.1 | 69.2 | 68.6 | 68.2 | 68.0 | 67.6 | 68.85 |
| 66.7 | 66.5 | 66.6 | 66.5 | 66.4 | 66.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.0 | 65.8 | 65.6 | 65.4 | 65.0 | 94.1 | 66.15 |
| 65.7 | 65.5 | 65.4 | 65.4 | 65.4 | 65.2 | 65.0 | 64.0 | 64.0 | 63.5 | 63.1 | 62.4 | 64.91 |
| 68.70 | 68.63 | 68.63 | 68.40 | 68.12 | 67.81 | 67.40 | 67.03 | 66.71 | 66.36 | 65.99 | 65.46 | 67.13 |

^c Six minutes late.

^d Four minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------|
| One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| JULY. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| | 1 | 94.3 | 94.2 | 92.8 | 91.8 | 88.7 | 89.6 | 90.1 | 89.3 | 90.8 | 92.2 | 93.5 | 93.2 |
| | 2 | 85.8 | 84.5 | 84.5 | 84.5 | 86.4 | 88.8 | 86.7 | 84.2 | 84.2 | 84.5 | 86.3 | 86.3 |
| | 3 | 94.3 | 93.3 | 91.8 | 91.8 | 91.2 | 88.6 | 86.9 | 86.9 | 88.4 | 88.4 | 88.4 | 89.2 |
| | 4 | 89.8 | 89.8 | 89.6 | 88.7 | 87.3 | 85.8 | 85.8 | 85.8 | 86.3 | 87.8 | 90.9 | 90.9 |
| | 5 | 87.8 | 89.2 | 88.0 | 89.1 | 86.5 | 81.9 | 81.9 | 81.3 | 82.2 | 82.7 | 82.7 | 81.3 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 79.2 | 77.6 | 75.4 | 72.2 | 72.2 | 71.5 | 70.8 | 69.9 | 70.5 | 72.2 | 72.2 | 70.4 |
| | 8 | 71.3 | 71.3 | 70.8 | 70.3 | 69.5 | 69.4 | 66.2 | 66.2 | 66.2 | 68.3 | 67.8 | 65.1 |
| | 9 | 72.0 | 72.0 | 71.0 | 69.5 | 66.1 | 65.8 | 68.4 | 69.1 | 69.9 | 69.9 | 70.3 | 70.3 |
| | 10 | 78.8 | 76.7 | 76.0 | 76.0 | 73.6 | 70.4 | 69.1 | 68.5 | 68.5 | 69.8 | 69.1 | 69.1 |
| | 11 | 77.0 | 75.8 | 73.0 | 70.6 | 67.6 | 67.6 | 67.2 | 66.6 | 67.1 | 65.4 | 65.4 | 62.6 |
| | 12 | 68.1 | 66.3 | 65.1 | 63.9 | 62.0 | 59.3 | 60.0 | 58.8 | 56.8 | 56.2 | 53.8 | 51.5 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 51.3 | 50.9 | 52.0 | 50.5 | 48.5 | 46.9 | 47.8 | 47.8 | 45.9 | 44.6 | 45.3 | 45.0 |
| | 15 | 45.6 | 46.0 | 51.2 | 56.7 | 53.9 | 50.6 | 50.3 | 50.3 | 48.3 | 48.3 | 48.3 | 49.5 |
| | 16 | 59.3 | 58.5 | 56.9 | 54.8 | 52.0 | 50.4 | 49.6 | 47.2 | 47.8 | 47.8 | 48.2 | 48.1 |
| | 17 | 53.8 | 54.7 | 54.1 | 54.9 | 53.4 | 51.9 | 51.9 | 52.7 | 52.7 | 53.0 | 51.9 | 51.5 |
| | 18 | 62.4 | 64.1 | 64.1 | 62.3 | 60.9 | 60.6 | 60.6 | 60.8 | 62.1 | 58.8 | 58.9 | 58.7 |
| | 19 | 69.8 | 70.8 | 69.4 | 69.9 | 69.9 | 66.8 | 65.9 | 66.4 | 64.4 | 66.5 | 65.8 | 65.8 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 64.8 | 62.5 | 59.4 | 59.1 | 57.3 | 54.2 | 53.3 | 50.9 | 51.9 | 52.4 | 52.8 | 51.9 |
| | 22 | 62.7 | 61.9 | 60.9 | 60.3 | 58.5 | 58.0 | 57.9 | 57.9 | 59.8 | 60.3 | 60.7 | 60.7 |
| | 23 | 65.3 | 64.7 | 64.9 | 64.9 | 63.7 | 62.1 | 62.1 | 62.1 | 63.8 | 67.9 | 70.0 | 71.8 |
| | 24 | 67.6 | 70.1 | 74.1 | 74.7 | 73.8 | 75.1 | 74.4 | 77.7 | 80.2 | 80.1 | 84.3 | 81.4 |
| | 25 | 54.9 | 68.8 | 73.0 | 73.0 | 75.3 | 73.8 | 74.5 | 76.1 | 73.8 | 77.0 | 80.2 | 78.7 |
| | 26 | 79.4 | 78.9 | 75.3 | 73.2 | 73.1 | 71.0 | 72.9 | 69.1 | 67.9 | 66.6 | 67.8 | 67.4 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 75.3 | 74.6 | 73.5 | 71.5 | 70.3 | 68.0 | 65.6 | 68.3 | 68.6 | 69.6 | 69.6 | 69.2 |
| | 29 | 75.5 | 75.5 | 75.9 | 73.2 | 74.3 | 73.9 | 74.3 | 73.8 | 74.2 | 74.2 | 75.1 | 77.2 |
| | 30 | 76.7 | 75.9 | 74.9 | 75.5 | 76.3 | 76.3 | 75.3 | 76.4 | 80.0 | 80.9 | 81.8 | 79.4 |
| 31 | 86.1 | 85.5 | 84.3 | 82.3 | 75.9 | 78.3 | 80.0 | 81.3 | 81.9 | 82.4 | 82.8 | 81.7 | |
| Hourly Means | 72.18 | 72.37 | 71.92 | 71.30 | 69.93 | 68.76 | 68.50 | 68.35 | 68.67 | 69.18 | 69.77 | 69.18 | |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| JULY. | 1 | 61.8 | 61.6 | 62.4 | 62.8 | 63.2 | 63.8 | 64.2 | 64.2 | 65.0 | 64.6 | 63.8 | 63.6 |
| | 2 | 62.6 | 64.0 | 64.4 | 63.8 | 63.8 | 64.0 | 64.4 | 65.0 | 65.3 | 65.6 | 65.6 | 65.1 |
| | 3 | 61.6 | 61.8 | 61.8 | 62.3 | 62.6 | 63.4 | 63.8 | 63.6 | 63.8 | 64.1 | 64.6 | 64.7 |
| | 4 | 63.1 | 63.0 | 62.8 | 62.4 | 62.6 | 63.0 | 63.4 | 63.6 | 63.8 | 64.4 | 64.6 | 65.0 |
| | 5 | 63.2 | 63.7 | 63.5 | 63.6 | 64.5 | 65.4 | 65.6 | 66.4 | 66.6 | 66.9 | 67.6 | 68.4 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 69.0 | 69.0 | 70.0 | 71.5 | 72.0 | 73.3 | 74.0 | 74.0 | 74.5 | 74.8 | 75.4 | 76.5 |
| | 8 | 72.5 | 72.5 | 73.4 | 73.2 | 73.5 | 73.8 | 74.3 | 75.0 | 75.6 | 76.4 | 77.0 | 76.7 |
| | 9 | 72.4 | 72.0 | 72.0 | 72.6 | 73.0 | 73.2 | 73.2 | 72.7 | 72.8 | 73.0 | 73.1 | 73.5 |
| | 10 | 68.4 | 68.6 | 68.6 | 69.0 | 70.0 | 71.0 | 71.5 | 72.0 | 72.5 | 73.0 | 73.4 | 74.0 |
| | 11 | 69.0 | 69.3 | 69.6 | 70.5 | 71.5 | 72.3 | 73.0 | 74.0 | 74.6 | 76.5 | 76.5 | 77.3 |
| | 12 | 73.5 | 73.5 | 74.0 | 75.1 | 75.7 | 77.2 | 78.1 | 78.5 | 78.7 | 79.6 | 80.3 | 82.0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 80.8 | 80.7 | 80.5 | 80.1 | 80.5 | 81.3 | 81.5 | 82.2 | 83.0 | 83.2 | 84.0 | 83.6 |
| | 15 | 78.4 | 78.3 | 78.4 | 79.0 | 79.1 | 80.0 | 80.0 | 80.3 | 80.5 | 81.0 | 81.3 | 81.6 |
| | 16 | 76.0 | 76.4 | 77.3 | 78.0 | 78.3 | 79.0 | 79.8 | 81.0 | 81.5 | 82.0 | 82.4 | 82.0 |
| | 17 | 79.2 | 78.7 | 78.4 | 78.5 | 79.0 | 79.4 | 79.4 | 80.3 | 80.7 | 81.0 | 81.3 | 81.1 |
| | 18 | 74.7 | 74.5 | 74.4 | 74.7 | 74.8 | 74.9 | 75.0 | 75.4 | 75.6 | 76.0 | 76.4 | 76.5 |
| | 19 | 71.2 | 70.8 | 71.0 | 71.4 | 71.3 | 71.5 | 72.0 | 72.8 | 73.2 | 73.5 | 74.0 | 73.9 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 74.6 | 75.0 | 75.6 | 76.0 | 77.0 | 77.5 | 78.0 | 78.4 | 79.3 | 79.5 | 79.9 | 81.5 |
| | 22 | 75.2 | 75.5 | 75.5 | 75.5 | 75.7 | 75.7 | 76.0 | 76.0 | 76.2 | 76.4 | 76.4 | 76.0 |
| | 23 | 72.3 | 71.7 | 71.8 | 71.6 | 71.5 | 71.9 | 71.9 | 71.7 | 72.1 | 71.8 | 71.3 | 71.5 |
| | 24 | 71.0 | 68.8 | 68.5 | 68.2 | 68.3 | 68.1 | 68.1 | 68.6 | 68.7 | 69.3 | 69.5 | 70.0 |
| | 25 | 67.4 | 67.5 | 67.5 | 68.5 | 69.4 | 69.8 | 69.8 | 70.5 | 70.8 | 71.3 | 71.5 | 71.5 |
| | 26 | 67.8 | 67.8 | 68.7 | 69.3 | 70.2 | 71.0 | 71.5 | 71.5 | 72.0 | 72.5 | 73.0 | 73.5 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 69.5 | 69.5 | 69.7 | 70.5 | 70.3 | 70.5 | 70.5 | 71.0 | 71.0 | 71.0 | 71.5 | 72.0 |
| | 29 | 67.5 | 67.5 | 67.5 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.7 | 67.9 | 68.6 | 68.4 |
| | 30 | 67.8 | 67.5 | 67.5 | 66.8 | 66.6 | 66.4 | 66.4 | 66.8 | 66.8 | 66.8 | 67.0 | 67.0 |
| | 31 | 62.8 | 63.0 | 63.4 | 63.8 | 65.5 | 64.7 | 64.6 | 64.8 | 64.9 | 65.2 | 65.4 | 65.5 |
| Hourly Means | 70.12 | 70.08 | 70.30 | 70.59 | 71.01 | 71.46 | 71.75 | 72.13 | 72.49 | 72.86 | 73.16 | 73.42 | |

VERTICAL FORCE.

One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|
| 94·6 | 94·6 ^a | 93·2 | 92·1 | 93·3 | 92·8 | 92·0 | 90·5 | 87·3 | 90·0 | 91·7 | 87·7 | 91·68 |
| 88·2 | 88·2 | 88·2 | 88·2 | 88·7 | 88·7 | 87·7 | 85·2 | 88·2 | 89·3 | 88·9 | 93·7 | 87·08 |
| 89·2 | 89·9 | 89·0 | 88·9 | 87·7 | 87·8 | 89·2 | 90·4 | 91·9 | 91·0 | 93·2 | 91·8 | 89·97 |
| 89·8 | 87·8 | 85·6 | 86·0 | 87·5 | 85·8 | 85·7 | 87·1 | 88·3 | 90·5 | 90·3 | 92·8 | 88·15 |
| 81·3 | 80·4 | 80·4 | 83·7 | 81·7 | 80·9 | — | — | — | — | — | — | 82·05 |
| — | — | — | — | — | — | 77·6 | 78·3 | 78·3 | 78·6 | 74·9 | 78·4 | — |
| 68·8 | 68·2 | 67·6 | 66·1 | 63·1 | 66·2 | 66·2 | 67·2 | 67·6 | 68·6 | 69·9 | 72·8 | 70·27 |
| 65·1 | 63·0 | 63·0 | 64·0 | 64·9 | 47·0 | 53·4 | 63·1 | 63·1 | 63·9 | 68·9 | 73·7 | 65·65 |
| 70·6 | 70·3 | 70·6 | 70·6 | 68·9 | 70·4 | 72·0 | 72·0 | 74·2 | 74·2 | 77·5 | 78·4 | 71·00 |
| 69·1 | 69·1 | 69·1 | 70·1 | 70·2 | 70·2 | 69·6 | 71·1 | 71·9 | 74·4 | 74·4 | 77·0 | 71·74 |
| 63·0 | 62·0 | 61·9 | 61·9 | 62·5 | 62·2 | 61·9 | 61·0 | 61·9 | 63·3 | 65·4 | 67·1 | 65·83 |
| 49·8 | 47·4 | 47·8 | 47·6 | 47·6 | 47·6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 48·0 | 48·0 | 49·3 | 50·4 | 49·2 | 50·2 | 54·36 |
| 44·6 | 44·6 | 41·9 | 43·9 | 45·5 | 47·1 | 48·7 | 48·2 | 48·5 | 46·5 | 45·7 | 45·6 | 46·97 |
| 49·5 | 49·5 | 48·1 | 47·6 | 44·2 | 45·6 | 46·2 | 51·5 | 52·2 | 52·7 | 56·7 | 59·3 | 50·09 |
| 46·6 | 45·4 | 46·5 | 46·5 | 46·8 | 47·4 | 49·4 | 43·6 | 47·5 | 51·3 | 51·2 | 53·1 | 49·83 |
| 50·3 | 49·8 | 49·8 | 48·7 | 54·0 | 55·1 | 56·8 | 56·8 | 56·1 | 58·6 | 58·5 | 61·7 | 53·86 |
| 59·9 | 59·9 | 60·0 | 60·9 | 61·8 | 63·0 | 63·0 | 63·9 | 61·8 | 58·7 | 64·5 | 68·4 | 61·67 |
| 66·2 | 65·7 | 64·6 | 65·5 | 64·7 | 61·8 | — | — | — | — | — | — | 65·40 |
| — | — | — | — | — | — | 60·5 | 60·4 | 60·8 | 60·8 | 62·3 | 64·8 | — |
| 51·9 | 52·5 | 52·8 | 53·1 | 53·1 | 54·1 | 55·1 | 55·7 | 56·0 | 57·3 | 57·3 | 62·6 | 55·50 |
| 60·7 | 60·7 | 61·2 | 61·2 | 62·0 | 62·0 | 62·0 | 55·2 | 60·5 | 63·8 | 62·4 | 64·3 | 60·65 |
| 71·5 | 71·7 | 62·8 | 61·6 | 63·6 | 65·6 | 50·7 | 62·6 | 62·4 | 62·7 | 66·3 | 68·0 | 64·70 |
| 78·6 | 78·4 | 77·5 | 70·5 | 69·3 | 61·9 | 51·9 | 45·1 | 38·5 | 42·8 | 49·7 | 50·2 | 67·83 |
| 73·1 | 71·1 | 70·0 | 70·5 | 70·5 | 69·6 | 69·6 | 69·1 | 66·7 | 65·6 | 70·4 | 72·1 | 71·56 |
| 67·4 | 66·4 | 65·8 | 65·8 | 66·0 | 66·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65·4 | 69·6 | 69·8 | 71·2 | 75·1 | 74·8 | 70·25 |
| 69·3 | 69·3 | 68·0 | 68·3 | 69·2 | 69·9 | 71·0 | 39·8 | 70·6 | 72·5 | 72·5 | 73·9 | 70·35 |
| 76·4 | 74·9 | 75·1 | 74·9 | 74·6 | 74·1 | 74·1 | 74·6 | 73·9 | 74·1 | 75·1 | 76·4 | 74·82 |
| 78·5 | 78·5 | 76·8 | 79·4 | 82·0 | 81·5 | 79·8 | 75·5 | 79·4 | 77·6 | 80·9 | 85·1 | 78·52 |
| 79·8 | 79·8 | 77·3 | 78·8 | 78·1 | 78·7 | 78·0 | 77·6 | 77·8 | 80·0 | 77·6 | 80·9 | 80·29 |
| 68·66 | 68·12 | 67·21 | 67·27 | 67·46 | 66·78 | 66·13 | 66·41 | 66·83 | 67·81 | 69·28 | 71·29 | 68·89 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 63·2 | 63·0 | 63·0 | 63·0 | 62·9 | 62·9 | 63·0 | 63·0 | 63·0 | 62·6 | 62·6 | 62·6 | 63·16 |
| 65·0 | 65·0 | 65·2 | 64·7 | 64·7 | 64·6 | 64·4 | 64·3 | 64·0 | 64·0 | 63·3 | 62·2 | 64·37 |
| 65·0 | 65·2 | 65·2 | 65·2 | 65·3 | 64·4 | 65·0 | 63·8 | 63·4 | 63·0 | 62·6 | 62·3 | 63·69 |
| 65·8 | 66·0 | 66·6 | 66·0 | 65·6 | 65·2 | 64·8 | 64·6 | 64·1 | 64·0 | 63·6 | 62·4 | 64·18 |
| 68·6 | 68·6 | 68·6 | 68·4 | 68·6 | 68·0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70·7 | 70·4 | 70·1 | 70·0 | 69·9 | 69·4 | 67·36 |
| 77·0 | 77·0 | 76·6 | 77·0 | 76·1 | 75·7 | 75·3 | 74·7 | 74·4 | 73·4 | 73·0 | 72·4 | 74·02 |
| 77·0 | 76·7 | 76·7 | 76·5 | 75·7 | 75·4 | 74·7 | 74·5 | 74·2 | 73·8 | 73·0 | 72·4 | 74·77 |
| 74·0 | 74·0 | 74·2 | 73·7 | 73·3 | 73·1 | 71·8 | 71·2 | 70·6 | 70·2 | 69·5 | 68·6 | 72·40 |
| 74·3 | 74·2 | 73·8 | 73·4 | 72·7 | 72·3 | 71·7 | 71·7 | 71·5 | 70·8 | 70·5 | 69·4 | 71·60 |
| 77·5 | 77·5 | 77·5 | 77·1 | 77·1 | 76·4 | 76·0 | 75·7 | 75·0 | 75·0 | 74·5 | 73·7 | 74·46 |
| 83·0 | 83·4 | 83·0 | 82·5 | 82·5 | 82·2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 82·5 | 82·0 | 82·0 | 81·7 | 81·4 | 81·0 | 79·72 |
| 83·8 | 83·5 | 83·5 | 83·5 | 82·8 | 82·0 | 81·2 | 81·3 | 81·4 | 80·8 | 79·7 | 79·1 | 81·83 |
| 82·0 | 82·0 | 82·0 | 81·8 | 80·6 | 80·4 | 80·5 | 79·0 | 78·6 | 78·2 | 77·4 | 76·2 | 79·86 |
| 82·8 | 82·4 | 83·0 | 82·5 | 82·2 | 82·0 | 81·4 | 80·8 | 80·8 | 80·6 | 80·2 | 79·0 | 80·47 |
| 81·2 | 81·0 | 81·0 | 80·0 | 79·0 | 78·0 | 77·0 | 76·7 | 76·2 | 76·3 | 76·3 | 75·5 | 78·97 |
| 76·7 | 76·7 | 76·7 | 76·0 | 75·1 | 74·5 | 74·0 | 73·8 | 73·3 | 72·5 | 72·0 | 71·5 | 74·82 |
| 73·7 | 73·5 | 73·5 | 73·5 | 73·3 | 73·3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 74·9 | 75·4 | 75·0 | 75·2 | 75·0 | 74·6 | 73·23 |
| 80·5 | 80·2 | 79·7 | 79·5 | 79·2 | 79·0 | 78·5 | 77·5 | 76·9 | 76·5 | 76·0 | 75·0 | 77·95 |
| 75·7 | 75·4 | 74·7 | 74·8 | 74·7 | 74·3 | 74·0 | 74·2 | 74·0 | 73·3 | 73·0 | 71·5 | 74·99 |
| 71·5 | 70·5 | 72·9 | 73·5 | 72·5 | 71·5 | 71·5 | 71·5 | 72·5 | 72·5 | 71·6 | 71·1 | 71·84 |
| 70·5 | 70·5 | 70·5 | 70·5 | 70·5 | 70·1 | 69·9 | 70·5 | 69·2 | 69·0 | 68·5 | 68·0 | 69·37 |
| 71·5 | 71·5 | 71·5 | 71·7 | 71·5 | 71·5 | 70·8 | 70·0 | 70·0 | 70·0 | 69·7 | 68·6 | 70·16 |
| 73·5 | 73·5 | 73·0 | 73·0 | 73·0 | 72·8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70·8 | 70·6 | 70·4 | 70·0 | 69·6 | 69·3 | 71·18 |
| 72·0 | 72·0 | 71·6 | 71·6 | 71·0 | 70·4 | 70·2 | 70·2 | 69·5 | 69·3 | 69·0 | 68·6 | 70·52 |
| 68·4 | 68·4 | 68·5 | 68·7 | 68·7 | 68·8 | 68·7 | 68·4 | 68·3 | 68·2 | 68·2 | 67·5 | 68·02 |
| 66·6 | 66·3 | 66·3 | 65·5 | 65·5 | 65·0 | 64·9 | 64·8 | 64·4 | 64·2 | 63·8 | 63·2 | 66·00 |
| 66·0 | 66·0 | 66·5 | 66·5 | 66·5 | 66·2 | 66·0 | 65·8 | 65·6 | 65·4 | 65·4 | 65·0 | 65·19 |
| 73·59 | 73·48 | 73·53 | 73·34 | 72·99 | 72·59 | 72·38 | 72·09 | 71·79 | 71·50 | 71·09 | 70·37 | 72·00 |

VERTICAL FORCE.

One Scale Division = $\cdot 000063$ parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = $\cdot 00007$.

| Mean Göttingen Time. } AUGUST. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|-------------------|-------------------|
| 1 | 177·9 | 180·4 | 180·4 | 185·0 | 185·9 | 184·2 | 188·8 | 189·2 | 184·9 | 185·4 | 185·4 | 179·4 |
| 2 | 172·5 | 177·7 | 177·7 | 180·3 | 178·0 | 180·2 | 181·0 | 181·0 | 182·2 | 182·5 ^a | 178·9 | 178·9 |
| 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| 4 | 203·0 | 193·2 | 190·4 | 188·9 | 189·3 | 190·8 | 192·2 | 191·7 | 190·6 | 192·2 | 193·0 | 193·0 |
| 5 | 189·5 | 191·0 | 190·1 | 192·1 | 193·8 | 193·3 | 193·4 | 193·4 | 193·4 | 196·0 | 196·7 | 196·7 |
| 6 | 189·7 | 190·2 | 191·0 | 192·0 | 195·0 | 197·9 | 199·4 | 201·4 | 199·9 | 199·2 | 198·7 | 200·1 |
| 7 | 191·2 | 192·7 | 195·1 | 195·1 | 198·3 | 196·9 | 200·7 | 200·7 | 201·3 | 201·3 | 202·0 | 204·1 |
| 8 | 199·7 | 197·6 | 194·9 | 195·8 | 197·2 | 199·2 | 199·2 | 200·5 | 199·0 ^a | 199·0 | 197·7 | 199·9 |
| 9 | 197·5 | 197·8 | 199·2 | 199·3 | 200·7 | 201·7 | 202·7 | 203·3 | 203·3 | 203·6 | 203·6 | 202·9 |
| 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| 11 | 197·2 | 197·0 | 196·5 | 196·5 | 197·7 | 198·2 | 198·0 | 199·6 | 200·6 | 200·6 | 199·7 | 199·3 |
| 12 | 191·3 | 191·3 | 191·5 | 193·1 | 194·6 | 196·2 | 198·5 | 196·5 | 196·5 | 196·7 | 198·1 | 198·1 |
| 13 | 186·3 | 186·1 | 188·8 | 187·4 | 189·0 | 190·6 | 191·1 | 190·2 | 190·8 | 189·7 | 189·7 | 190·0 |
| 14 | 185·3 | 186·9 | 188·9 | 192·1 | 191·8 | 193·4 | 192·9 | 192·0 | 192·9 | 191·6 | 193·8 | 193·8 |
| 15 | 188·0 | 188·8 | 190·6 | 192·2 | 194·1 | 195·8 | 195·0 | 193·9 | 192·7 | 192·7 | 192·7 | 194·5 |
| 16 | 188·9 | 190·3 | 192·7 | 195·1 | 195·4 | 197·1 | 197·1 | 197·1 | 198·1 | 199·0 | 198·5 | 198·3 |
| 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| 18 | 197·2 | 197·7 | 200·0 | 202·4 | 202·6 | 202·0 | 202·3 | 201·0 | 201·0 | 201·5 | 201·9 | 203·5 |
| 19 | 199·9 | 199·9 | 200·0 | 200·5 | 199·0 | 200·3 | 200·5 | 200·5 | 200·0 | 200·0 | 199·7 | 199·8 |
| 20 | 193·9 | 195·9 | 197·0 | 199·0 | 200·6 | 201·6 | 202·7 | 203·6 | 202·8 | 202·8 | 204·2 | 204·3 |
| 21 | 198·3 | 199·9 | 202·8 | 205·1 | 205·1 | 205·5 | 206·4 | 206·4 | 206·3 | 207·5 | 207·8 | 207·8 |
| 22 | 200·3 | 200·3 | 202·3 | 203·6 | 204·7 | 206·4 | 205·3 | 205·3 | 205·3 | 205·3 | 205·3 | 207·3 |
| 23 | 200·0 | 200·8 | 204·2 | 204·2 | 206·8 | 206·8 | 206·8 | 208·1 | 207·1 | 206·5 | 206·5 | 206·5 |
| 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| 25 | 193·9 | 196·5 | 200·1 | 200·1 | 203·7 | 204·8 | 204·0 | 202·8 | 202·8 | 203·2 | 203·2 | 203·1 |
| 26 | 198·8 | 200·3 | 203·0 | 207·0 | 204·7 | 202·8 | 202·0 | 202·0 | 201·7 | 201·7 | 202·2 | 202·2 |
| 27 | 197·0 | 197·0 | 196·4 | 196·5 | 196·5 | 195·5 | 195·1 | 195·1 | 194·1 | 193·7 | 194·3 | 194·3 |
| 28 | 191·0 | 189·2 | 191·1 | 191·8 | 194·0 | 194·1 | 194·1 | 192·2 | 191·1 | 194·2 | 192·4 | 192·4 |
| 29 | 192·8 | 193·8 | 196·7 | 198·1 | 197·2 | 199·9 | 198·4 | 194·8 | 190·2 | 183·5 | 157·0 | 184·5 |
| 30 | 206·8 | 201·4 | 200·5 | 201·1 | 199·7 | 198·9 | 199·2 | 197·6 | 196·2 | 196·2 | 195·9 | 199·0 |
| 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 193·38 | 193·60 | 194·69 | 195·93 | 196·75 | 197·46 | 197·95 | 197·69 | 197·11 | 197·14 | 196·11 | 197·56 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| AUGUST. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 64·4 | 64·6 | 65·0 | 65·6 | 66·6 | 67·2 | 67·6 | 67·5 | 67·7 | 68·2 | 68·3 | 68·4 |
| 2 | 64·6 | 65·6 | 66·2 | 66·5 | 66·5 | 66·7 | 67·0 | 67·5 | 67·5 | 67·8 | 68·4 | 68·2 |
| 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| 4 | 66·7 | 66·7 | 66·7 | 68·4 | 69·0 | 69·6 | 70·0 | 71·7 | 72·0 | 73·0 | 73·0 | 73·9 |
| 5 | 69·5 | 69·5 | 70·5 | 70·8 | 71·0 | 72·1 | 72·8 | 73·3 | 73·8 | 74·5 | 75·0 | 76·5 |
| 6 | 71·3 | 71·3 | 71·5 | 72·3 | 73·3 | 74·2 | 75·0 | 75·3 | 76·7 | 76·7 | 76·3 | 76·5 |
| 7 | 71·4 | 71·7 | 72·5 | 73·0 | 74·6 | 75·0 | 76·0 | 75·7 | 76·5 | 76·3 | 78·0 | 78·2 |
| 8 | 74·2 | 74·0 | 74·0 | 74·5 | 73·4 | 73·5 | 74·0 | 74·5 | 75·0 | 75·4 | 75·5 | 75·3 |
| 9 | 73·4 | 73·5 | 74·3 | 74·5 | 75·3 | 76·0 | 76·5 | 76·7 | 77·2 | 78·0 | 78·3 | 78·5 |
| 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| 11 | 74·7 | 74·7 | 74·4 | 73·4 | 73·6 | 73·8 | 74·1 | 74·6 | 74·7 | 74·7 | 74·7 | 75·3 |
| 12 | 70·7 | 70·7 | 70·7 | 71·3 | 71·9 | 72·5 | 73·1 | 73·2 | 74·0 | 74·2 | 74·8 | 74·6 |
| 13 | 68·8 | 68·4 | 68·4 | 68·5 | 68·5 | 68·8 | 69·0 | 69·0 | 69·3 | 69·4 | 69·4 | 70·5 |
| 14 | 68·6 | 69·2 | 69·5 | 70·0 | 70·0 | 70·4 | 70·5 | 70·7 | 71·0 | 71·3 | 71·5 | 72·0 |
| 15 | 67·3 | 67·5 | 68·0 | 68·4 | 69·5 | 70·5 | 71·0 | 71·0 | 71·5 | 71·8 | 72·0 | 72·7 |
| 16 | 68·6 | 69·0 | 69·6 | 70·0 | 71·3 | 72·2 | 72·6 | 73·4 | 73·7 | 74·3 | 74·5 | 75·0 |
| 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| 18 | 73·2 | 73·0 | 73·0 | 73·7 | 73·9 | 74·3 | 74·5 | 75·0 | 75·4 | 76·0 | 76·3 | 76·5 |
| 19 | 73·2 | 72·8 | 72·7 | 73·0 | 73·2 | 73·4 | 73·5 | 73·5 | 73·7 | 73·9 | 74·3 | 74·5 |
| 20 | 71·7 | 72·0 | 72·0 | 72·7 | 73·3 | 73·9 | 74·5 | 75·3 | 75·6 | 76·5 | 76·6 | 77·1 |
| 21 | 73·5 | 73·7 | 74·8 | 75·7 | 76·0 | 76·4 | 76·7 | 77·0 | 77·5 | 78·0 | 78·3 | 78·4 |
| 22 | 73·7 | 73·7 | 74·0 | 74·7 | 74·8 | 75·5 | 76·0 | 76·5 | 76·7 | 77·1 | 77·7 | 78·0 |
| 23 | 73·0 | 73·0 | 73·5 | 74·3 | 75·2 | 75·9 | 76·5 | 77·0 | 77·5 | 77·7 | 79·0 | 78·3 |
| 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| 25 | 72·3 | 71·0 | 71·7 | 72·5 | 73·5 | 74·0 | 74·3 | 74·3 | 74·5 | 74·7 | 75·0 | 75·5 |
| 26 | 73·0 | 73·0 | 73·5 | 74·3 | 74·6 | 75·5 | 75·5 | 75·5 | 75·7 | 76·0 | 76·0 | 76·2 |
| 27 | 72·1 | 72·0 | 71·5 | 71·3 | 70·7 | 70·6 | 70·6 | 70·7 | 71·0 | 70·7 | 70·6 | 70·5 |
| 28 | 67·5 | 67·6 | 68·4 | 68·7 | 69·5 | 69·7 | 70·1 | 70·1 | 70·1 | 70·4 | 70·5 | 70·5 |
| 29 | 68·0 | 68·0 | 68·6 | 68·8 | 69·7 | 70·4 | 70·8 | 71·3 | 71·5 | 72·5 | 72·5 | 73·1 |
| 30 | 73·7 | 73·2 | 72·7 | 72·6 | 73·0 | 73·3 | 73·5 | 73·9 | 74·3 | 75·0 | 75·5 | 75·0 |
| 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 70·73 | 70·75 | 71·07 | 71·52 | 72·00 | 72·52 | 72·91 | 73·24 | 73·62 | 74·00 | 74·31 | 74·58 |

^a Two minutes late.

VERTICAL FORCE.

One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 177·9 | Sc. Div. 177·9 | Sc. Div. 179·3 | Sc. Div. 179·9 | Sc. Div. 184·2 | Sc. Div. 191·2 | Sc. Div. 193·7 | Sc. Div. 193·2 | Sc. Div. 193·2 | Sc. Div. 192·8 | Sc. Div. 189·8 | Sc. Div. 177·6 | Sc. Div. 184·90 |
| 178·7 | 179·8 | 184·9 | 182·4 | 186·0 | 194·9 | — | — | — | — | — | — | 185·70 |
| — | — | — | — | — | — | 185·0 | 188·0 | 203·9 | 205·5 | 207·3 | 209·4 | 185·34 |
| 191·8 | 194·8 | 194·8 | 195·4 | 199·3 | 203·2 | 208·1 | 199·3 | 194·4 | 192·6 | 192·6 | 189·5 | 194·34 |
| 197·5 | 197·9 | 200·7 | 200·7 | 199·1 | 199·1 | 200·0 | 200·5 | 197·8 | 195·5 | 194·0 | 191·0 | 195·55 |
| 199·4 | 201·6 | 201·6 | 201·3 | 200·7 | 200·0 | 200·0 | 203·3 | 211·2 | 206·5 | 199·4 | 195·0 | 198·94 |
| 202·8 | 202·0 | 202·0 | 203·6 | 202·4 | 201·5 | 202·6 | 205·0 | 204·6 | 219·7 | 205·8 | 201·6 | 201·38 |
| 199·9 | 199·7 | 199·2 | 200·5 | 206·9 | 200·2 | 200·2 | 199·7 | 201·3 | 205·1 | 198·8 | 199·8 | 199·63 |
| 200·2 | 201·7 | 202·4 | 204·7 | 206·3 | 205·9 | — | — | — | — | — | — | 201·28 |
| — | — | — | — | — | — | 202·0 | 201·3 | 195·9 | 195·9 | 199·6 | 199·2 | 201·28 |
| 200·1 | 199·5 ^b | 197·1 | 198·3 | 197·0 | 197·0 | 197·0 | 195·1 | 194·6 | 194·5 | 192·9 | 192·9 | 197·37 |
| 199·0 | 199·0 | 198·2 | 197·0 | 196·7 | 195·9 | 195·4 | 195·4 | 193·8 | 192·4 | 192·4 | 190·7 | 195·35 |
| 190·6 | 191·4 | 191·4 | 192·4 | 191·8 | 191·8 | 191·5 | 191·3 | 189·9 | 189·9 | 189·9 | 187·2 | 189·95 |
| 193·8 | 193·7 | 193·8 | 195·3 | 191·7 | 193·4 | 191·7 | 191·4 | 191·4 | 191·7 | 189·5 | 189·5 | 191·76 |
| 195·7 | 195·7 | 195·7 | 194·8 | 194·8 | 193·7 | 192·4 | 192·5 | 192·3 | 191·6 | 190·4 | 188·6 | 192·88 |
| 199·7 | 201·4 | 201·7 | 200·1 | 200·1 | 200·5 | — | — | — | — | — | — | 199·10 |
| — | — | — | — | — | — | 216·2 | 208·8 | 204·8 | 201·1 | 199·1 | 197·2 | 199·10 |
| 204·0 | 205·0 | 205·0 | 203·6 | 203·2 | 202·5 | 202·2 | 202·2 | 201·2 | 203·1 | 206·2 | 203·7 | 202·29 |
| 199·8 | 199·5 | 198·9 | 201·4 | 200·5 | 200·5 | 199·7 | 202·5 | 199·1 | 197·0 | 196·3 | 195·2 | 199·60 |
| 204·8 | 204·8 | 204·8 | 204·8 | 203·4 | 203·4 | 203·4 | 201·6 | 201·1 | 201·1 | 201·1 | 199·6 | 201·76 |
| 208·9 | 209·5 | 209·5 | 210·6 | 208·4 | 208·4 | 206·4 | 206·4 | 204·9 | 204·2 | 204·4 | 201·7 | 205·93 |
| 208·1 | 207·0 | 205·0 | 204·7 | 207·3 | 211·4 | 211·2 | 210·5 | 208·2 | 206·7 | 201·6 | 200·0 | 205·55 |
| 205·6 | 207·6 | 205·7 | 206·2 | 206·2 | 205·8 | — | — | — | — | — | — | 204·73 |
| — | — | — | — | — | — | 205·3 | 204·5 | 202·8 | 201·8 | 196·0 | 201·8 | 204·73 |
| 203·9 | 205·4 | 205·4 | 205·4 | 205·2 | 207·4 | 206·8 | 204·1 | 202·8 | 202·8 | 202·8 | 200·4 | 202·94 |
| 202·0 | 203·2 | 203·8 | 204·4 | 202·8 | 202·8 | 202·8 | 201·4 | 202·6 | 200·6 | 200·0 | 198·2 | 202·21 |
| 194·5 | 195·3 | 195·2 | 195·7 | 195·3 | 195·3 | 195·3 | 193·7 | 193·3 | 192·1 | 191·7 | 190·8 | 194·74 |
| 194·2 | 194·2 | 193·0 | 193·8 | 191·7 | 193·0 | 193·6 | 193·9 | 195·1 | 208·1 | 198·7 | 198·7 | 193·98 |
| 187·5 | 193·8 | 194·2 | 207·6 | 206·6 | 216·4 | 224·1 | 224·0 | 249·5 | 249·8 | 235·0 | 209·3 | 203·53 |
| 197·0 | 198·4 | 199·1 | 199·1 | 215·3 | 215·3 | — | — | — | — | — | — | 199·73 |
| — | — | — | — | — | — | 199·7 | 196·1 | 196·1 | 196·1 | 192·6 | 196·2 | 199·73 |
| 197·59 | 198·45 | 198·55 | 199·37 | 200·11 | 201·17 | 201·01 | 200·22 | 200·99 | 201·47 | 198·77 | 196·34 | 197·89 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 68·0 | 67·8 | 68·2 | 67·8 | 68·0 | 67·8 | 67·6 | 67·0 | 65·6 | 64·8 | 65·6 | 64·6 | 66·83 |
| 68·4 | 68·4 | 68·6 | 68·6 | 68·4 | 68·0 | — | — | — | — | — | — | 67·54 |
| — | — | — | — | — | — | 68·8 | 68·5 | 68·1 | 68·0 | 67·6 | 67·0 | 67·54 |
| 73·5 | 73·5 | 73·7 | 74·0 | 73·5 | 73·0 | 73·0 | 72·0 | 71·4 | 71·0 | 70·6 | 69·5 | 71·22 |
| 76·5 | 76·5 | 76·5 | 75·3 | 75·0 | 74·5 | 74·0 | 73·7 | 73·3 | 72·5 | 72·0 | 71·6 | 73·36 |
| 76·7 | 76·5 | 76·5 | 76·3 | 76·0 | 75·4 | 75·0 | 74·3 | 74·0 | 73·6 | 73·2 | 72·5 | 74·60 |
| 78·0 | 77·6 | 77·5 | 77·2 | 77·0 | 76·7 | 76·8 | 76·2 | 75·5 | 75·3 | 75·0 | 74·5 | 75·68 |
| 75·5 | 75·3 | 75·3 | 75·7 | 75·3 | 75·0 | 74·7 | 75·0 | 74·8 | 74·6 | 74·2 | 73·6 | 74·68 |
| 78·5 | 78·7 | 78·3 | 78·6 | 78·4 | 78·0 | — | — | — | — | — | — | 76·25 |
| — | — | — | — | — | — | 75·0 | 74·8 | 74·5 | 74·3 | 74·3 | 74·5 | 76·25 |
| 75·6 | 75·0 | 74·3 | 73·5 | 73·5 | 73·0 | 72·7 | 72·6 | 72·0 | 71·5 | 71·2 | 70·8 | 73·68 |
| 74·5 | 74·0 | 73·9 | 73·5 | 73·2 | 72·6 | 72·0 | 71·8 | 71·7 | 71·4 | 70·7 | 70·0 | 72·54 |
| 70·5 | 70·5 | 70·5 | 70·7 | 70·5 | 70·5 | 70·3 | 70·0 | 69·7 | 69·5 | 69·0 | 69·0 | 69·53 |
| 71·8 | 71·5 | 71·7 | 71·5 | 70·5 | 69·5 | 68·8 | 68·6 | 68·6 | 68·5 | 68·2 | 67·6 | 70·06 |
| 73·0 | 72·7 | 72·5 | 72·5 | 72·2 | 71·6 | 71·5 | 71·0 | 70·5 | 70·0 | 69·6 | 69·2 | 70·73 |
| 75·5 | 75·5 | 74·7 | 74·5 | 74·5 | 73·8 | — | — | — | — | — | — | 73·17 |
| — | — | — | — | — | — | 74·4 | 74·4 | 74·0 | 73·7 | 73·5 | 73·5 | 73·17 |
| 76·7 | 77·0 | 76·7 | 76·5 | 76·3 | 76·0 | 75·5 | 75·5 | 75·0 | 75·0 | 75·0 | 74·4 | 75·18 |
| 74·5 | 74·3 | 73·9 | 74·0 | 73·8 | 74·0 | 73·7 | 73·4 | 72·7 | 72·5 | 72·4 | 72·2 | 73·46 |
| 77·3 | 77·0 | 77·2 | 76·7 | 76·3 | 76·0 | 75·5 | 75·5 | 75·0 | 75·0 | 74·6 | 73·7 | 75·04 |
| 78·5 | 78·5 | 79·0 | 78·5 | 78·0 | 77·5 | 77·0 | 76·0 | 75·6 | 75·5 | 75·0 | 74·4 | 76·65 |
| 78·0 | 78·0 | 77·8 | 77·0 | 76·8 | 76·5 | 76·2 | 75·5 | 75·0 | 74·6 | 74·0 | 73·0 | 75·87 |
| 78·2 | 78·3 | 78·0 | 78·0 | 77·5 | 77·0 | — | — | — | — | — | — | 76·03 |
| — | — | — | — | — | — | 75·7 | 75·2 | 74·8 | 74·0 | 73·8 | 73·3 | 76·03 |
| 75·6 | 76·0 | 76·0 | 75·8 | 75·8 | 76·0 | 75·8 | 75·5 | 75·0 | 74·1 | 73·7 | 73·5 | 74·42 |
| 76·2 | 76·0 | 76·0 | 75·5 | 75·0 | 74·5 | 74·3 | 74·3 | 74·0 | 73·5 | 73·3 | 72·7 | 74·75 |
| 70·5 | 70·5 | 70·5 | 71·0 | 70·8 | 70·7 | 70·3 | 69·9 | 69·3 | 69·0 | 68·6 | 68·0 | 70·48 |
| 70·5 | 70·9 | 70·5 | 70·3 | 69·7 | 69·5 | 69·2 | 69·0 | 68·7 | 68·6 | 68·6 | 68·4 | 69·46 |
| 73·3 | 74·7 | 75·4 | 75·5 | 75·5 | 75·3 | 74·1 | 74·1 | 74·1 | 74·1 | 74·1 | 73·8 | 72·47 |
| 74·6 | 74·4 | 73·7 | 73·0 | 73·0 | 72·9 | — | — | — | — | — | — | 72·61 |
| — | — | — | — | — | — | 70·4 | 69·7 | 69·4 | 69·0 | 68·5 | 68·3 | 72·61 |
| 74·61 | 74·58 | 74·50 | 74·29 | 74·02 | 73·67 | 73·17 | 72·83 | 72·40 | 72·06 | 71·78 | 71·29 | 72·93 |

^b Seven minutes late.

VERTICAL FORCE.

One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------|
| SEPTEMBER. | 1 | 136.8 | 137.0 | 138.3 | 137.1 | 137.1 | 137.1 | 136.5 | 139.6 | 141.3 | 140.9 | 140.9 | 141.9 |
| | 2 | 130.8 | 131.8 | 130.5 | 131.3 | 136.4 | 135.7 | 135.4 | 137.2 | 140.2 | 141.0 | 143.0 | 139.2 |
| | 3 | 134.7 | 133.1 | 131.6 | 133.0 | 133.0 | 132.1 | 132.1 | 133.1 | 133.1 | 133.1 | 134.2 | 133.0 |
| | 4 | 129.2 | 130.7 | 132.7 | 134.2 | 135.8 | 134.7 | 133.3 | 133.3 | 133.1 | 132.6 | 134.8 | 133.2 |
| | 5 | 140.4 | 141.1 | 139.8 | 139.6 | 138.6 | 139.9 | 140.2 | 139.7 | 140.8 | 141.1 | 140.2 | 140.7 |
| | 6 | 145.8 | 145.0 | 144.5 | 143.4 | 143.7 | 144.1 | 144.6 | 145.0 | 145.0 | 144.7 | 144.2 | 144.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 145.6 | 141.7 | 142.6 | 143.9 | 143.9 | 143.9 | 145.2 | 145.2 | 147.7 | 148.4 | 147.3 | 148.1 |
| | 9 | 148.8 | 150.8 | 151.6 | 148.3 | 146.6 | 146.2 | 146.6 | 146.3 | 146.3 | 145.8 | 145.4 | 145.2 |
| | 10 | 149.9 | 149.6 | 152.4 | 145.6 | 145.9 | 144.5 | 144.6 | 146.1 | 147.4 | 147.1 | 145.9 | 145.5 |
| | 11 | 152.9 | 150.3 | 149.2 | 148.8 | 146.8 | 147.2 | 148.7 | 149.2 | 151.2 | 152.9 | 152.9 | 150.2 |
| | 12 | 149.6 | 152.7 | 152.0 | 149.8 | 148.1 | 150.5 | 151.0 | 153.1 | 154.6 | 154.2 | 152.6 | 151.8 |
| | 13 | 154.2 | 153.5 | 153.5 | 153.1 | 152.4 | 152.8 | 154.3 | 154.3 | 159.7 | 159.7 | 163.0 | 156.1 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 152.0 | 151.0 | 149.7 | 148.1 | 146.5 | 145.8 | 146.2 | 148.7 | 148.7 | 148.9 | 147.0 | 145.6 |
| | 16 | 154.1 | 154.7 | 153.2 | 151.4 | 150.3 | 151.2 | 151.9 | 153.8 | 153.8 | 155.2 | 153.9 | 151.7 |
| | 17 | 158.0 | 158.0 | 156.8 | 154.3 | 154.0 | 153.7 | 154.0 | 154.0 | 154.5 | 152.3 | 154.6 | 153.6 |
| | 18 | 152.5 | 152.4 | 150.2 | 149.7 | 149.3 | 148.0 | 145.5 | 145.7 | 144.7 | 142.4 | 141.2 | 141.0 |
| | 19 | 149.7 | 149.7 | 148.1 | 145.6 | 145.1 | 144.7 | 145.8 | 147.0 | 148.7 | 148.7 | 150.4 | 150.5 |
| | 20 | 149.8 | 149.8 | 149.3 | 147.7 | 148.6 | 150.2 | 149.1 | 150.0 | 151.5 | 151.5 | 153.0 | 155.0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 165.7 | 162.4 | 162.4 | 161.5 | 160.5 | 159.8 | 160.1 | 160.1 | 161.3 | 160.3 | 159.3 | 158.9 |
| | 23 | 159.3 | 160.2 | 160.2 | 160.1 | 160.1 | 160.5 ^a | 160.5 | 160.5 | 161.0 | 161.0 | 160.0 | 160.6 |
| | 24 | 161.2 | 159.4 | 160.1 | 160.1 | 159.3 | 159.3 | 158.4 | 160.2 | 162.0 | 160.0 | 159.4 | 157.8 |
| | 25 | 162.0 | 154.8 | 140.2 | 151.2 | 156.2 | 156.8 | 161.0 | 160.9 | 161.2 | 159.6 | 160.0 | 160.6 |
| | 26 | 155.8 | 159.8 | 159.2 | 159.9 | 159.9 | 160.3 | 160.4 | 161.7 | 161.5 | 160.4 | 158.2 | 158.2 |
| | 27 | 153.7 | 153.6 | 156.5 | 155.9 | 156.1 | 157.4 | 159.2 | 162.7 | 164.7 | 160.2 | 159.9 | 159.3 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 154.3 | 152.4 | 151.4 | 149.7 | 147.3 | 146.1 | 147.2 | 146.5 | 147.3 | 145.4 | 145.7 | 145.7 |
| | 30 | 147.9 | 147.9 | 147.9 | 146.5 | 145.3 | 144.7 | 144.9 | 144.2 | 144.6 | 144.6 | 144.6 | 148.6 |
| Hourly Means | 149.80 | 149.36 | 148.61 | 148.07 | 147.95 | 147.97 | 148.33 | 149.16 | 150.23 | 149.69 | 149.68 | 149.08 | |

TEMPERATURE OF THE VERTICAL FORCE MAGNET

| | | | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|------|
| SEPTEMBER. | 1 | 67.8 | 67.6 | 68.4 | 68.2 | 68.2 | 68.4 | 68.7 | 68.9 | 69.5 | 69.5 | 69.5 | 69.2 |
| | 2 | 68.3 | 68.4 | 68.9 | 69.5 | 69.5 | 70.0 | 70.3 | 70.8 | 70.9 | 71.0 | 71.0 | 72.0 |
| | 3 | 68.6 | 68.8 | 69.5 | 69.7 | 70.3 | 70.7 | 71.4 | 71.6 | 72.3 | 72.5 | 72.8 | 73.5 |
| | 4 | 70.8 | 70.0 | 70.6 | 69.5 | 69.7 | 70.3 | 70.8 | 71.5 | 71.5 | 72.0 | 71.5 | 72.5 |
| | 5 | 67.5 | 67.3 | 68.0 | 68.2 | 68.6 | 68.7 | 69.1 | 69.5 | 69.1 | 69.0 | 69.3 | 69.3 |
| | 6 | 65.2 | 65.6 | 65.4 | 65.2 | 65.4 | 65.4 | 65.5 | 65.5 | 66.0 | 66.2 | 66.2 | 66.3 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 62.9 | 62.9 | 63.4 | 63.5 | 64.0 | 64.0 | 64.2 | 64.0 | 64.0 | 64.2 | 64.2 | 64.3 |
| | 9 | 61.6 | 61.2 | 60.8 | 61.4 | 62.5 | 62.8 | 63.6 | 64.0 | 64.0 | 65.0 | 65.2 | 65.4 |
| | 10 | 61.6 | 61.6 | 62.0 | 62.8 | 63.6 | 63.8 | 63.8 | 64.0 | 64.0 | 64.2 | 64.4 | 64.4 |
| | 11 | 60.4 | 61.0 | 61.0 | 61.6 | 62.3 | 62.4 | 62.6 | 62.6 | 62.7 | 62.7 | 63.0 | 62.8 |
| | 12 | 58.6 | 59.2 | 60.0 | 60.5 | 60.6 | 61.1 | 61.0 | 61.4 | 61.6 | 61.6 | 62.0 | 62.4 |
| | 13 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.4 | 59.4 | 59.4 | 59.6 | 59.8 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 61.4 | 61.6 | 62.0 | 62.6 | 62.9 | 63.0 | 63.0 | 63.6 | 63.7 | 64.0 | 64.6 | 64.9 |
| | 16 | 59.6 | 59.7 | 59.8 | 60.6 | 61.0 | 61.5 | 61.5 | 61.2 | 61.2 | 61.6 | 61.8 | 62.1 |
| | 17 | 58.8 | 58.4 | 58.4 | 58.7 | 59.2 | 59.0 | 59.4 | 59.5 | 60.0 | 60.6 | 61.5 | 62.0 |
| | 18 | 62.3 | 62.1 | 62.2 | 62.3 | 63.0 | 64.0 | 64.7 | 66.0 | 66.6 | 67.4 | 67.7 | 67.7 |
| | 19 | 61.9 | 62.3 | 62.8 | 63.0 | 63.5 | 63.7 | 64.0 | 64.0 | 64.0 | 64.3 | 64.3 | 64.8 |
| | 20 | 62.4 | 62.0 | 61.7 | 61.7 | 61.6 | 61.6 | 61.7 | 61.7 | 61.8 | 61.8 | 61.8 | 61.8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 54.3 | 54.3 | 54.6 | 54.8 | 55.6 | 56.1 | 56.3 | 56.8 | 57.1 | 57.3 | 57.6 | 57.7 |
| | 23 | 57.0 | 56.8 | 56.6 | 56.3 | 56.4 | 56.4 ^a | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 |
| | 24 | 56.9 | 56.6 | 57.0 | 57.0 | 57.0 | 57.2 | 57.3 | 57.5 | 57.5 | 57.8 | 57.6 | 57.5 |
| | 25 | 58.1 | 57.3 | 57.7 | 57.5 | 57.9 | 58.6 | 59.1 | 59.2 | 58.6 | 59.4 | 60.0 | 60.0 |
| | 26 | 58.2 | 58.2 | 57.8 | 57.6 | 57.6 | 57.4 | 57.4 | 57.7 | 58.0 | 58.7 | 59.5 | 59.6 |
| | 27 | 57.8 | 57.5 | 57.8 | 58.2 | 58.2 | 59.0 | 59.0 | 59.6 | 60.4 | 61.0 | 61.0 | 61.0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 60.6 | 60.9 | 62.5 | 62.6 | 63.6 | 64.4 | 64.8 | 65.0 | 65.6 | 66.0 | 66.4 | 66.6 |
| | 30 | 65.2 | 65.0 | 65.0 | 64.8 | 64.6 | 64.6 | 65.6 | 66.2 | 65.0 | 65.2 | 65.4 | 65.0 |
| Hourly Means | 61.80 | 61.74 | 62.03 | 62.18 | 62.53 | 62.81 | 63.08 | 63.37 | 63.52 | 63.80 | 64.01 | 64.19 | |

^a Two minutes late.

VERTICAL FORCE.

One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 141.9 | Sc. Div. 139.0 | Sc. Div. 138.9 | Sc. Div. 138.9 | Sc. Div. 138.9 | Sc. Div. 139.1 | Sc. Div. 139.1 | Sc. Div. 125.3 | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. 138.28 |
| 137.3 | 137.1 | 137.1 | 134.9 | 135.8 | 134.2 | 134.2 | 131.2 | 132.1 | 136.1 | 136.6 | 134.7 | 135.57 |
| 131.4 | 131.4 | 133.1 | 131.4 | 131.7 | 127.9 | 120.5 | 119.9 | 124.4 | 131.0 | 128.1 | 128.0 | 130.62 |
| 134.1 | 134.1 | 134.1 | 133.5 ^b | 135.0 | 133.9 | 133.9 | 133.9 | 135.3 | 137.4 | 138.6 | 139.6 | 134.21 |
| 140.3 | 139.5 | 139.5 | 137.1 | 137.5 | 139.3 | 137.1 | 140.3 | 139.4 | 141.2 | 143.6 | 144.4 | 140.05 |
| 143.4 | 143.0 | 142.2 | 142.2 | 142.2 | 142.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 145.5 | 144.9 | 142.7 | 131.8 | 138.7 | 146.3 | 143.30 |
| 147.2 | 148.5 | 147.2 | 147.8 | 147.8 | 148.3 | 148.5 | 145.5 | 147.1 | 144.8 | 144.1 | 148.7 | 146.21 |
| 145.9 | 144.9 | 144.2 | 143.3 | 145.1 | 144.7 | 144.7 | 146.1 | 146.1 | 147.3 | 148.2 | 146.8 | 146.47 |
| 145.5 | 145.5 | 145.5 | 146.7 | 147.9 | 143.0 | 146.2 | 147.6 | 148.1 | 149.3 | 148.6 | 151.7 | 147.09 |
| 150.4 | 150.2 | 150.5 | 150.4 | 142.7 | 143.3 | 143.3 | 142.8 | 151.6 | 154.0 | 148.6 | 150.2 | 149.10 |
| 151.8 | 152.7 | 152.1 | 154.1 | 152.8 | 153.4 | 153.4 | 153.4 | 148.8 | 146.8 | 153.2 | 155.3 | 151.99 |
| 154.2 | 153.3 | 151.4 | 151.3 | 151.3 | 151.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 148.5 | 148.8 | 150.3 | 147.6 | 150.7 | 151.0 | 153.18 |
| 146.1 | 144.6 | 144.6 | 147.6 | 147.6 | 146.0 | 146.0 | 148.0 | 148.7 | 149.1 | 150.5 | 152.2 | 147.88 |
| 151.3 | 148.6 | 151.1 | 150.9 | 151.0 | 148.7 | 150.0 | 151.1 | 152.7 | 154.2 | 154.5 | 156.4 | 152.32 |
| 157.0 | 158.9 | 159.3 | 152.9 | 150.2 | 148.7 | 149.2 | 138.5 | 130.0 | 121.7 | 145.5 | 149.8 | 150.81 |
| 142.2 | 142.2 | 137.3 | 137.3 | 140.9 | 128.8 | 138.6 | 131.2 | 130.1 | 143.1 | 146.0 | 147.2 | 142.81 |
| 151.5 | 147.2 | 147.3 | 146.2 | 146.2 | 148.0 | 146.0 | 144.1 | 138.3 | 138.3 | 145.7 | 149.8 | 146.78 |
| 153.5 | 153.2 | 153.2 | 153.9 | 150.4 | 150.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 162.9 | 159.1 | 160.8 | 159.7 | 158.7 | 161.9 | 153.47 |
| 157.7 | 157.7 | 157.7 | 158.6 | 159.6 | 159.6 | 159.8 | 160.0 | 160.7 | 159.8 | 160.4 | 158.7 | 160.11 |
| 161.1 | 160.2 | 160.2 | 160.2 | 158.6 | 160.4 | 159.1 | 163.6 | 163.6 | 162.6 | 161.8 | 161.2 | 160.69 |
| 158.2 | 156.3 | 157.1 | 164.1 | 163.5 | 151.7 | 152.6 | 136.8 | 104.8 | 116.3 | 144.3 | 154.6 | 153.23 |
| 161.4 | 161.9 | 161.9 | 155.6 | 146.2 | 152.2 | 155.0 | 142.8 | 151.3 | 153.2 | 156.6 | 159.0 | 155.90 |
| 156.3 | 157.0 | 157.2 | 157.1 | 158.1 | 157.4 | 158.7 | 156.6 | 155.8 | 152.6 | 145.9 | 148.6 | 157.36 |
| 159.3 | 159.0 | 158.4 | 154.2 | 146.5 | 151.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 149.0 ^c | 147.3 | 148.7 | 149.1 | 150.8 | 152.6 | 155.21 |
| 145.4 | 146.4 | 146.4 | 145.2 | 145.2 | 146.7 | 143.8 | 143.3 | 140.9 | 144.9 | 144.9 | 147.9 | 146.67 |
| 144.4 | 148.3 | 145.8 | 147.5 | 147.6 | 148.2 | 148.2 | 147.2 | 147.2 | 147.6 | 147.6 | 147.2 | 146.60 |
| 148.80 | 148.49 | 148.20 | 147.80 | 146.93 | 146.09 | 146.68 | 144.20 | 143.98 | 144.78 | 147.69 | 149.75 | 147.98 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| 69.2 | 69.3 | 69.5 | 69.2 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.5 | 69.3 | 68.8 | 68.85 |
| 71.8 | 71.5 | 71.3 | 71.0 | 71.0 | 70.6 | 70.3 | 70.3 | 70.2 | 71.5 | 71.2 | 70.6 | 70.25 |
| 73.5 | 73.5 | 73.3 | 73.0 | 72.8 | 72.4 | 72.3 | 71.7 | 71.5 | 71.2 | 70.6 | 70.4 | 71.58 |
| 72.5 | 72.5 | 72.0 | 72.0 ^a | 71.4 | 71.3 | 70.6 | 70.0 | 69.4 | 68.7 | 68.3 | 68.0 | 70.73 |
| 69.3 | 69.1 | 68.6 | 68.3 | 68.0 | 67.6 | 67.6 | 67.2 | 66.8 | 66.4 | 66.0 | 65.8 | 68.10 |
| 66.2 | 66.0 | 66.2 | 66.6 | 66.5 | 66.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 65.4 | 65.2 | 65.0 | 64.6 | 64.2 | 63.4 | 65.57 |
| 64.2 | 64.2 | 64.0 | 63.9 | 63.6 | 63.6 | 63.2 | 62.6 | 62.4 | 62.2 | 62.0 | 62.0 | 63.48 |
| 65.4 | 65.6 | 65.3 | 65.5 | 65.0 | 64.5 | 64.0 | 63.9 | 63.6 | 63.2 | 62.8 | 62.4 | 63.72 |
| 64.4 | 64.4 | 63.9 | 63.8 | 63.4 | 63.0 | 62.6 | 62.0 | 62.0 | 61.4 | 61.5 | 61.0 | 63.07 |
| 62.8 | 62.8 | 62.6 | 62.2 | 62.0 | 61.6 | 61.8 | 61.2 | 60.0 | 59.7 | 59.5 | 59.0 | 61.68 |
| 62.4 | 61.8 | 61.8 | 61.2 | 61.0 | 60.6 | 60.2 | 59.4 | 59.4 | 59.6 | 59.6 | 59.2 | 60.67 |
| 60.0 | 60.6 | 60.6 | 61.6 | 62.0 | 62.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 62.6 | 62.6 | 62.3 | 62.2 | 62.0 | 61.6 | 60.47 |
| 64.8 | 64.6 | 64.6 | 63.7 | 63.5 | 63.0 | 62.8 | 62.5 | 61.8 | 61.6 | 61.5 | 61.0 | 62.99 |
| 62.4 | 63.0 | 62.2 | 62.4 | 62.0 | 61.6 | 61.2 | 61.2 | 61.0 | 59.6 | 59.7 | 59.1 | 61.13 |
| 62.0 | 62.5 | 62.5 | 63.2 | 63.0 | 62.8 | 62.8 | 62.8 | 62.5 | 62.5 | 62.6 | 62.0 | 61.11 |
| 67.4 | 67.0 | 67.4 | 67.0 | 65.6 | 65.4 | 65.0 | 64.6 | 64.0 | 63.6 | 63.3 | 62.7 | 64.96 |
| 64.4 | 64.6 | 64.2 | 63.9 | 63.9 | 63.7 | 63.6 | 63.1 | 63.0 | 62.9 | 62.9 | 62.6 | 63.56 |
| 62.4 | 62.0 | 61.8 | 61.6 | 61.2 | 60.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.8 | 56.8 | 56.3 | 56.0 | 55.4 | 54.3 | 60.29 |
| 57.7 | 57.6 | 57.5 | 57.8 | 57.4 | 57.3 | 57.3 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 56.71 |
| 56.8 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 56.8 | 56.6 | 56.6 | 56.8 | 57.1 | 56.74 |
| 57.1 | 58.3 | 59.2 | 59.2 | 59.4 | 60.8 | 60.9 | 60.4 | 59.6 | 59.3 | 58.6 | 58.8 | 58.27 |
| 60.0 | 59.8 | 59.8 | 59.2 | 59.6 | 59.4 | 59.6 | 59.0 | 58.8 | 58.7 | 58.5 | 58.2 | 58.92 |
| 59.6 | 60.2 | 60.2 | 60.0 | 59.7 | 59.4 | 59.4 | 59.4 | 59.2 | 59.1 | 58.7 | 58.7 | 58.80 |
| 60.8 | 60.6 | 60.4 | 60.1 | 60.1 | 60.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.6 ^c | 60.7 | 60.5 | 60.5 | 60.5 | 60.5 | 59.83 |
| 66.5 | 66.5 | 65.5 | 66.2 | 66.0 | 66.0 | 66.0 | 65.6 | 65.4 | 65.3 | 65.1 | 65.3 | 64.97 |
| 64.6 | 64.8 | 64.8 | 64.6 | 64.2 | 64.0 | 64.0 | 63.6 | 63.3 | 63.2 | 63.0 | 63.4 | 64.55 |
| 64.16 | 64.23 | 64.13 | 64.02 | 63.79 | 63.64 | 63.34 | 63.03 | 62.46 | 62.19 | 61.98 | 61.66 | 63.08 |

^b Five minutes late.

^c Six minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|--------------------|-------------------|-------------------|-------|
| One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00007. | | | | | | | | | | | | | |
| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
| | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| OCTOBER. | 1 | 147.7 | 148.3 | 149.7 | 144.1 | 146.0 | 146.8 | 148.5 | 154.3 | 154.3 | 150.5 | 151.6 | 152.0 |
| | 2 | 155.4 | 157.9 | 155.7 | 153.7 | 153.0 | 151.6 | 151.9 | 151.9 | 153.0 | 152.8 | 152.0 | 152.4 |
| | 3 | 149.5 | 150.6 | 150.6 | 150.6 | 151.8 | 151.8 | 152.5 | 153.4 | 153.0 | 152.4 | 152.4 | 152.4 |
| | 4 | 152.2 | 154.1 | 154.1 | 154.1 | 153.5 | 153.2 | 151.1 | 150.3 | 151.1 | 151.9 | 150.9 | 150.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 166.5 | 167.2 | 164.8 | 161.5 | 161.5 | 160.1 | 160.9 | 161.6 | 161.7 | 161.5 | 161.5 | 161.5 |
| | 7 | 166.8 | 168.6 | 166.3 | 165.0 | 162.8 | 161.8 | 160.4 | 160.4 | 161.0 | 161.4 | 160.3 | 159.5 |
| | 8 | 160.3 | 159.8 | 159.8 | 158.6 | 157.2 | 155.0 ^b | 155.0 | 154.5 | 153.9 | 154.4 | 155.9 | 155.9 |
| | 9 | 152.2 | 150.9 | 153.4 | 148.9 | 147.1 | 145.5 | 144.1 | 143.0 | 144.4 | 147.0 | 146.7 | 154.5 |
| | 10 | 144.2 | 147.8 | 147.8 | 147.8 | 146.4 | 145.0 | 145.4 | 147.1 | 147.4 | 149.2 | 148.9 | 150.1 |
| | 11 | 143.8 | 143.5 | 145.6 | 146.1 | 146.6 | 147.9 | 148.1 | 146.9 | 149.3 ^c | 149.3 | 148.9 | 148.9 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 164.1 | 163.9 | 162.6 | 158.1 | 159.3 | 158.3 | 159.1 | 159.1 | 159.1 | 159.1 | 157.9 | 159.2 |
| | 14 | 159.1 | 159.5 | 158.4 | 163.0 | 162.2 ^b | 160.5 | 162.3 | 159.1 | 160.0 | 160.0 | 163.1 | 163.1 |
| | 15 | 165.1 | 166.3 | 168.8 | 158.5 | 161.4 | 162.0 | 162.6 | 163.9 | 163.9 | 163.2 | 164.8 | 164.8 |
| | 16 | 170.0 | 170.0 | 170.7 | 169.7 | 167.6 | 166.5 | 167.5 | 167.5 | 167.5 | 166.6 | 164.6 | 164.4 |
| | 17 | 171.3 | 170.3 | 171.9 | 166.1 | 164.1 | 163.8 | 164.5 | 163.6 | 164.9 | 162.8 | 161.1 | 161.1 |
| | 18 | 165.9 | 166.3 | 164.8 | 163.0 | 160.1 | 159.5 | 159.1 | 157.6 | 156.7 | 156.5 | 155.3 | 154.6 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 158.1 | 158.9 | 157.6 | 154.9 | 155.1 | 158.8 | 160.3 | 160.6 | 162.0 | 162.7 | 164.8 | 166.4 |
| | 21 | 168.6 | 168.6 | 169.3 | 175.0 | 174.0 | 173.6 | 175.4 | 174.0 | 174.0 | 177.7 | 180.4 | 180.0 |
| | 22 | 180.0 | 180.0 | 179.5 | 176.8 | 175.2 | 173.8 | 176.8 | 174.7 | 173.6 | 173.1 | 163.0 | 170.9 |
| | 23 | 165.8 | 171.0 | 172.0 | 169.6 | 167.5 | 165.8 | 166.3 | 165.0 | 165.2 | 164.5 | 162.9 | 161.8 |
| | 24 | 156.2 | 156.2 | 156.2 | 154.9 | 153.3 ^d | 152.7 | 154.0 | 155.0 | 155.1 | 155.1 | 153.3 | 155.2 |
| | 25 | 156.1 | 158.2 | 158.2 | 158.2 | 155.8 | 153.8 | 154.8 | 154.8 | 155.8 | 157.2 | 158.7 | 158.4 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 158.3 | 160.7 | 165.4 | 161.0 | 158.7 | 155.9 | 153.9 | 152.7 | 152.5 | 152.5 | 149.4 | 149.9 |
| | 28 | 155.1 | 155.1 | 156.8 | 154.0 | 150.1 | 148.7 | 148.3 | 148.3 | 148.1 | 147.4 | 147.3 | 146.6 |
| | 29 | 154.5 | 155.9 | 155.0 | 152.6 | 150.9 | 149.3 | 149.3 | 149.3 | 149.3 | 149.3 | 149.3 | 149.0 |
| | 30 | 145.5 | 145.5 | 146.5 | 146.2 | 144.7 | 143.6 | 143.6 | 143.5 | 145.1 | 145.1 | 146.1 | 146.5 |
| | 31 | 149.7 | 150.5 | 151.3 | 150.8 | 149.0 | 148.6 | 148.3 | 149.5 | 149.2 | 149.2 | 149.2 | 149.3 |
| Hourly Means | 158.59 | 159.47 | 159.73 | 157.88 | 156.85 | 156.07 | 156.44 | 156.36 | 156.71 | 156.76 | 156.31 | 157.00 | |

| TEMPERATURE OF THE VERTICAL FORCE MAGNET. | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|-------------------|-------|-------|------|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| OCTOBER. | 1 | 63.0 | 62.6 | 62.3 | 63.5 | 63.0 | 63.6 | 63.6 | 63.4 | 63.4 | 63.0 | 63.0 | 63.0 |
| | 2 | 59.3 | 59.0 | 59.6 | 60.0 | 60.4 | 60.4 | 60.6 | 60.8 | 61.4 | 61.6 | 61.6 | 61.6 |
| | 3 | 61.4 | 61.2 | 60.8 | 61.0 | 61.0 | 61.0 | 61.0 | 61.6 | 61.6 | 61.8 | 61.8 | 61.8 |
| | 4 | 61.0 | 60.6 | 60.6 | 61.0 | 61.0 | 61.2 | 61.6 | 61.6 | 61.6 | 61.6 | 61.9 | 62.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 53.3 | 53.3 | 60.4 | 54.5 | 54.5 | 55.0 | 55.2 | 55.8 | 55.8 | 56.3 | 56.6 | 56.3 |
| | 7 | 53.3 | 53.2 | 53.5 | 54.2 | 55.0 | 55.4 | 56.3 | 56.5 | 56.8 | 57.2 | 57.5 | 58.0 |
| | 8 | 58.2 | 58.0 | 58.2 | 58.3 | 57.6 | 58.0 | 59.6 | 59.6 | 59.8 | 59.8 | 59.8 | 60.1 |
| | 9 | 61.0 | 61.0 | 61.4 | 61.8 | 62.4 | 62.8 ^b | 63.0 | 64.0 | 64.2 | 64.6 | 65.0 | 65.0 |
| | 10 | 62.0 | 61.8 | 62.0 | 62.5 | 63.2 | 64.0 | 64.0 | 64.0 | 63.9 | 64.0 | 63.9 | 64.0 |
| | 11 | 64.0 | 63.8 | 63.6 | 63.0 | 63.0 | 62.9 | 62.8 | 63.4 | 64.0 ^c | 63.6 | 63.2 | 63.4 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 54.5 | 54.5 | 54.9 | 56.0 | 56.3 | 56.6 | 56.8 | 56.6 | 56.8 | 57.3 | 57.5 | 57.3 |
| | 14 | 57.6 | 57.6 | 57.4 | 57.4 | 57.4 | 57.4 | 57.5 | 57.5 | 57.5 | 57.7 | 58.0 | 58.2 |
| | 15 | 53.7 | 53.6 | 54.3 | 55.0 | 54.6 ^b | 54.3 | 54.3 | 54.7 | 54.5 | 54.5 | 54.5 | 54.4 |
| | 16 | 50.3 | 50.3 | 50.5 | 51.1 | 51.8 | 52.3 | 52.3 | 52.3 | 52.8 | 53.2 | 53.8 | 54.0 |
| | 17 | 50.7 | 50.7 | 54.5 | 51.8 | 52.6 | 53.0 | 53.5 | 54.3 | 54.4 | 55.3 | 56.3 | 56.5 |
| | 18 | 53.5 | 53.7 | 54.0 | 54.6 | 55.5 | 56.3 | 56.7 | 57.3 | 57.6 | 58.2 | 58.6 | 58.8 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 55.3 | 55.0 | 54.6 | 54.6 | 54.3 | 54.3 | 54.3 | 54.5 | 54.5 | 54.5 | 54.0 | 53.7 |
| | 21 | 49.4 | 47.5 | 48.5 | 48.6 | 48.6 | 48.7 | 49.0 | 49.6 | 49.4 | 49.2 | 49.2 | 48.6 |
| | 22 | 46.6 | 46.6 | 46.8 | 47.0 | 47.6 | 48.2 | 48.4 | 48.6 | 49.0 | 49.3 | 50.1 | 50.3 |
| | 23 | 51.3 | 50.3 | 50.3 | 50.6 | 51.3 | 51.7 | 51.9 | 52.9 | 53.1 | 53.3 | 54.1 | 54.2 |
| | 24 | 56.1 | 56.0 | 56.4 | 56.3 | 57.0 ^d | 57.4 | 58.0 | 58.0 | 58.5 | 58.5 | 58.5 | 59.0 |
| | 25 | 55.6 | 55.3 | 55.2 | 55.3 | 56.5 | 56.8 | 57.5 | 58.3 | 58.5 | 58.6 | 58.5 | 58.7 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 55.5 | 54.8 | 56.0 | 55.0 | 55.5 | 56.5 | 57.3 | 58.3 | 59.2 | 59.8 | 60.0 | 60.6 |
| | 28 | 57.7 | 57.5 | 57.8 | 57.8 | 59.0 | 59.5 | 60.0 | 60.4 | 60.5 | 61.0 | 61.6 | 61.4 |
| | 29 | 58.5 | 57.8 | 57.8 | 58.3 | 58.9 | 59.3 | 59.4 | 59.6 | 60.2 | 60.6 | 60.8 | 60.6 |
| | 30 | 62.0 | 62.0 | 62.0 | 61.7 | 61.8 | 62.0 | 62.5 | 62.5 | 62.6 | 62.8 | 62.5 | 61.8 |
| | 31 | 60.0 | 59.6 | 59.6 | 59.4 | 59.4 | 59.8 | 59.8 | 60.0 | 60.0 | 60.2 | 60.0 | 61.0 |
| Hourly Means | 56.47 | 56.20 | 56.78 | 56.68 | 57.01 | 57.35 | 57.66 | 58.00 | 58.21 | 58.43 | 58.60 | 58.70 | |

^a Ten minutes late.

^b Five minutes late.

| VERTICAL FORCE. | | | | | | | | | | | | |
|---|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007. | | | | | | | | | | | | |
| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 148.8 | 151.7 | 153.6 | 151.9 | 150.3 | 149.9 | 152.9 | 157.7 | 153.8 | 151.9 | 152.7 | 154.7 | 150.99 |
| 152.9 | 152.5 | 152.5 | 152.5 | 151.7 | 151.7 | 151.4 | 151.4 | 151.5 | 151.6 | 149.0 | 148.9 | 152.45 |
| 152.4 | 153.1 | 153.1 | 153.7 | 152.6 | 150.9 | 149.9 | 149.6 | 149.8 | 149.8 | 149.8 | 151.0 | 151.53 |
| 149.0 | 149.4 | 148.5 | 148.5 | 148.2 | 148.2 | — | — | — | — | — | — | 154.23 |
| — | — | — | — | — | — | 163.7 | 163.7 | 162.0 | 164.6 | 164.0 | 164.5 | 154.23 |
| 161.5 | 161.0 | 162.8 | 161.7 | 158.1 | 163.3 | 164.4 | 164.0 | 164.4 | 164.3 | 166.6 | 165.4 | 162.83 |
| 159.5 | 161.5 | 161.2 | 160.3 ^a | 158.5 | 158.9 | 158.9 | 158.3 | 158.3 | 158.3 | 158.2 | 159.3 | 161.06 |
| 154.8 | 154.8 | 154.8 | 153.9 | 153.9 | 154.6 | 154.6 | 151.2 | 151.2 | 152.0 | 152.0 | 152.3 | 155.02 |
| 156.2 | 161.3 | 157.9 | 169.2 | 159.5 | 149.8 | 147.9 | 145.7 | 140.6 | 135.7 | 126.6 | 141.0 | 148.71 |
| 150.0 | 149.0 | 148.5 | 146.2 | 146.2 | 146.2 | 138.2 | 138.2 | 146.8 | 145.4 | 143.7 | 144.5 | 146.25 |
| 146.4 | 145.3 | 147.4 | 150.9 | 150.0 | 148.7 | — | — | — | — | — | — | 151.01 |
| — | — | — | — | — | — | 160.5 | 160.5 | 161.5 | 163.4 | 162.4 | 162.4 | 151.01 |
| 160.1 | 158.9 | 158.9 | 159.8 | 160.6 | 159.4 | 157.8 | 156.7 | 156.7 | 159.1 | 159.1 | 159.1 | 159.42 |
| 159.0 | 159.7 | 159.3 | 158.5 | 158.5 | 160.3 | 160.3 | 161.5 ^a | 162.2 | 162.9 | 163.4 | 163.4 | 160.80 |
| 164.8 | 164.8 | 165.7 | 165.7 | 166.1 | 166.2 | 165.4 | 165.2 | 167.9 | 168.2 | 169.2 | 168.4 | 165.12 |
| 163.2 | 165.2 | 165.0 | 166.2 | 166.2 | 166.2 ^d | 164.6 | 161.1 | 161.1 | 165.6 | 167.5 | 170.0 | 166.52 |
| 163.7 | 165.0 | 167.1 | 167.8 | 167.8 | 164.5 | 166.2 | 165.4 | 164.6 | 164.3 | 164.8 | 164.8 | 165.48 |
| 156.4 | 156.4 | 156.4 | 159.1 | 159.1 | 159.8 | — | — | — | — | — | — | 158.92 |
| — | — | — | — | — | — | 157.9 | 157.0 | 157.0 | 158.4 | 158.4 | 158.7 | 158.92 |
| 166.4 | 170.0 | 171.7 | 171.0 | 169.6 | 169.6 | 162.4 | 146.9 | 168.3 | 170.0 | 169.0 | 169.0 | 163.50 |
| 178.6 | 168.2 | 177.3 | 167.4 | 167.0 | 173.7 | 174.4 | 176.4 | 176.3 | 176.3 | 176.3 | 176.1 | 174.11 |
| 162.7 | 159.6 | 161.3 | 165.9 | 164.0 | 166.4 | 166.9 | 166.6 | 162.0 | 162.0 | 164.4 | 163.5 | 169.28 |
| 161.5 | 161.5 | 160.7 | 160.7 | 162.3 | 162.1 | 162.7 | 161.6 | 156.8 | 155.4 | 156.8 | 156.8 | 163.18 |
| 155.9 | 158.0 | 158.4 | 156.3 | 156.2 | 156.2 | 158.1 | 154.5 | 156.7 | 156.7 | 152.8 | 153.3 | 155.43 |
| 157.6 | 157.2 | 156.6 | 155.4 | 154.4 | 154.4 | — | — | — | — | — | — | 156.86 |
| — | — | — | — | — | — | 157.3 | 157.7 | 158.9 | 158.6 | 157.1 | 159.4 | 156.86 |
| 149.1 | 149.1 | 151.4 | 151.1 | 152.0 | 152.1 | 152.2 | 152.4 | 152.7 | 154.7 | 154.9 | 154.2 | 154.03 |
| 148.2 | 149.6 | 149.2 | 149.3 | 149.2 | 149.3 | 145.8 | 149.4 | 151.9 | 152.8 | 151.6 | 154.1 | 150.26 |
| 147.9 | 148.3 | 147.1 | 149.8 | 146.9 | 149.9 | 149.9 | 149.7 | 149.1 | 148.1 | 147.5 | 147.4 | 149.80 |
| 146.5 | 147.0 | 147.4 | 148.7 | 149.8 | 149.8 | 148.0 | 149.1 ⁿ | 149.1 | 149.1 | 149.1 | 149.1 | 146.86 |
| 151.2 | 151.2 | 152.7 | 149.4 | 149.4 | 148.0 | 148.0 | 146.7 | 144.4 | 145.0 | 132.4 | 140.4 | 148.06 |
| 156.53 | 156.64 | 157.28 | 157.44 | 156.60 | 156.67 | 157.05 | 156.23 | 156.87 | 157.19 | 156.27 | 157.47 | 157.10 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------|-------|-------|-------|
| 63.0 | 63.0 | 62.6 | 62.4 | 62.6 | 61.6 | 61.0 | 60.0 | 60.2 | 60.0 | 59.8 | 59.6 | 62.22 |
| 61.8 | 62.0 | 61.8 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.6 | 61.10 |
| 61.6 | 61.6 | 61.6 | 62.0 | 62.1 | 62.0 | 61.6 | 61.8 | 61.6 | 61.6 | 61.6 | 61.4 | 61.52 |
| 62.6 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | — | — | — | — | — | — | 59.90 |
| — | — | — | — | — | — | 54.5 | 54.5 | 54.3 | 54.1 | 54.0 | 53.8 | 59.90 |
| 56.3 | 56.6 | 56.6 | 56.8 | 56.9 | 55.8 | 55.3 | 55.0 | 55.0 | 54.5 | 54.3 | 53.8 | 55.58 |
| 58.0 | 58.0 | 58.0 | 58.0 ^a | 58.0 | 58.3 | 58.3 | 58.6 | 58.7 | 58.3 | 58.5 | 58.2 | 56.91 |
| 60.6 | 60.8 | 60.6 | 60.4 | 60.1 | 60.4 | 60.6 | 60.4 | 60.2 | 61.0 | 61.2 | 61.0 | 59.76 |
| 65.0 | 64.8 | 64.6 | 64.5 | 64.0 | 63.6 | 63.4 | 63.0 | 62.6 | 62.7 | 62.2 | 62.2 | 63.28 |
| 63.6 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8 | 64.0 | 64.0 | 63.8 | 63.8 | 63.8 | 64.2 | 63.56 |
| 63.4 | 63.4 | 63.4 | 63.0 | 62.5 | 62.3 | — | — | — | — | — | — | 61.25 |
| — | — | — | — | — | — | 55.7 | 55.5 | 55.3 | 55.2 | 55.0 | 54.5 | 61.25 |
| 57.3 | 57.3 | 57.0 | 57.2 | 57.2 | 57.0 | 57.0 | 57.0 | 57.0 | 57.1 | 57.3 | 57.6 | 56.71 |
| 57.8 | 57.6 | 57.3 | 56.8 | 56.3 | 56.3 | 56.1 | 55.8 ^a | 55.4 | 55.0 | 54.6 | 54.2 | 56.85 |
| 54.0 | 53.8 | 53.6 | 53.2 | 53.0 | 52.6 | 52.2 | 52.0 | 51.3 | 51.2 | 50.6 | 50.5 | 53.35 |
| 54.0 | 53.6 | 53.4 | 53.4 | 53.2 | 52.6 ^d | 52.4 | 52.0 | 51.7 | 51.3 | 51.2 | 51.0 | 52.27 |
| 56.5 | 56.3 | 56.5 | 56.0 | 55.6 | 55.5 | 55.1 | 55.0 | 54.5 | 54.5 | 54.3 | 54.0 | 54.47 |
| 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.3 | — | — | — | — | — | — | 56.74 |
| — | — | — | — | — | — | 56.2 | 56.2 | 56.2 | 55.8 | 56.0 | 55.7 | 56.74 |
| 53.3 | 53.0 | 52.6 | 52.2 | 51.7 | 51.3 | 51.1 | 50.8 | 50.4 | 50.3 | 50.0 | 49.4 | 52.90 |
| 48.6 | 48.4 | 48.4 | 48.6 | 48.6 | 48.4 | 48.2 | 47.7 | 47.8 | 47.5 | 47.2 | 47.0 | 48.45 |
| 52.6 | 53.9 | 53.3 | 54.0 | 52.3 | 52.1 | 51.7 | 51.5 | 52.3 | 52.5 | 52.2 | 51.5 | 50.35 |
| 55.2 | 55.5 | 55.5 | 55.8 | 55.8 | 55.6 | 55.6 | 55.5 | 56.3 | 56.3 | 56.2 | 56.1 | 53.93 |
| 59.2 | 59.0 | 58.4 | 58.3 | 58.3 | 57.9 | 57.3 | 57.2 | 56.8 | 56.8 | 56.6 | 55.9 | 57.56 |
| 59.1 | 59.0 | 59.1 | 59.1 | 59.5 | 59.7 | — | — | — | — | — | — | 57.34 |
| — | — | — | — | — | — | 56.4 | 56.4 | 56.0 | 56.0 | 55.6 | 55.4 | 57.34 |
| 60.8 | 60.8 | 60.4 | 59.8 | 59.6 | 59.4 | 59.2 | 59.2 | 59.2 | 58.8 | 58.5 | 58.0 | 58.43 |
| 61.4 | 61.4 | 61.2 | 61.4 | 61.0 | 61.2 | 60.6 | 60.0 | 59.6 | 59.2 | 59.0 | 58.9 | 59.96 |
| 60.8 | 61.0 | 61.0 | 60.8 | 60.6 | 60.4 | 60.4 | 61.0 | 61.2 | 61.8 | 62.0 | 62.2 | 60.21 |
| 61.6 | 61.0 | 60.6 | 61.0 | 61.0 | 61.0 | 60.8 | 60.2 ^a | 60.0 | 60.0 | 60.0 | 60.0 | 61.39 |
| 61.0 | 61.0 | 61.0 | 60.6 | 60.8 | 61.0 | 61.0 | 61.4 | 61.5 | 61.6 | 61.3 | 61.3 | 60.51 |
| 58.80 | 58.81 | 58.65 | 58.59 | 58.42 | 58.24 | 57.31 | 57.16 | 57.06 | 56.98 | 56.84 | 56.63 | 57.65 |

^c Two minutes late.

^d Six minutes late.

VERTICAL FORCE.

One Scale Division = $\cdot 000063$ parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah $^{\circ}$ = $\cdot 00007$.

| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|-------------------|-------------------|----------------|
| NOVEMBER. | 1 | Sc. Div. 145·5 | Sc. Div. 149·3 | Sc. Div. 149·8 | Sc. Div. 149·8 | Sc. Div. 148·1 | Sc. Div. 147·1 | Sc. Div. 151·5 | Sc. Div. 150·7 | Sc. Div. 154·2 | Sc. Div. 155·0 | Sc. Div. 156·7 | Sc. Div. 156·7 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 167·7 | 169·3 | 169·3 | 170·7 | 169·8 | 169·2 | 168·3 | 168·1 | 167·2 | 166·6 | 166·6 | 165·4 |
| | 4 | 165·1 | 165·1 | 163·9 | 162·6 | 161·1 | 161·5 | 161·6 | 161·1 | 162·9 | 163·1 | 163·8 | 163·8 |
| | 5 | 162·5 | 162·5 | 162·2 | 160·6 | 162·6 | 162·4 | 160·9 | 162·3 | 163·7 | 163·7 | 163·7 | 162·5 |
| | 6 | 162·4 | 163·1 | 162·6 | 161·7 | 155·9 | 161·6 | 162·6 | 162·6 | 163·8 | 162·6 | 162·6 | 161·1 |
| | 7 | 154·7 | 158·7 | 158·2 | 158·2 | 159·2 | 160·2 | 161·7 | 162·6 | 164·7 | 163·4 | 163·4 | 163·4 |
| | 8 | 163·6 | 163·6 | 164·5 | 165·2 | 165·0 | 165·0 | 166·7 | 166·7 | 168·8 | 168·6 | 168·1 | 167·3 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 178·9 | 178·2 | 177·2 | 175·3 | 173·7 | 172·9 | 172·9 | 172·9 | 172·8 ^a | 171·3 | 169·9 | 172·3 |
| | 11 | 168·8 | 168·8 | 169·5 | 168·6 | 168·4 | 168·8 | 168·8 | 168·3 | 168·3 | 166·6 | 166·6 | 166·1 |
| | 12 | 167·2 | 167·9 | 167·3 | 167·0 | 166·9 | 167·1 | 166·0 | 166·0 | 165·6 | 167·0 | 165·2 | 163·9 |
| | 13 | 169·2 | 167·4 | 158·3 | 164·7 | 163·4 | 162·4 | 162·4 | 163·0 ^b | 162·4 | 160·3 | 158·9 | 158·9 |
| | 14 | 161·5 | 162·2 | 162·2 | 163·4 | 162·1 | 160·5 | 159·4 | 159·4 | 159·9 | 159·9 | 159·9 | 158·2 |
| | 15 | 160·6 | 164·1 | 153·2 | 160·2 | 159·2 | 158·8 | 158·8 | 160·5 | 161·6 | 161·6 | 160·6 | 159·4 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 146·7 | 146·7 | 154·8 | 157·4 | 161·0 | 162·7 | 163·9 | 164·4 | 166·9 | 166·0 | 164·2 | 162·4 |
| | 18 | 157·6 | 158·4 | 158·5 | 157·5 | 157·8 | 158·9 | 158·1 | 159·2 | 159·6 | 159·3 | 159·3 | 157·8 |
| | 19 | 157·1 | 157·4 | 157·7 | 162·7 | 162·6 | 162·8 | 165·4 | 165·2 | 165·2 | 164·9 | 167·4 | 168·0 |
| | 20 | 165·2 | 165·2 | 166·4 | 165·0 | 161·0 | 163·3 | 160·5 | 161·3 | 161·3 | 161·9 | 161·9 | 159·8 |
| | 21 | 163·3 | 163·8 | 163·5 | 161·5 | 164·7 | 164·7 | 167·0 | 169·2 | 169·2 | 171·3 | 170·3 | 164·2 |
| | 22 | 165·8 | 165·6 | 137·7 | 153·7 | 170·2 | 173·9 | 173·6 | 173·6 | 166·6 | 172·1 | 170·6 | 175·7 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 183·6 | 182·5 | 182·7 | 185·4 | 183·0 | 182·3 | 179·8 | 186·3 | 186·2 | 185·9 | 185·9 | 187·6 |
| | 25 | 182·1 | 182·5 | 181·9 | 181·5 | 179·6 | 180·5 | 179·5 | 179·7 | 179·7 | 179·7 | 179·7 | 178·9 |
| | 26 | 175·8 | 175·3 | 175·3 | 174·0 | 174·1 | 174·7 | 177·3 | 179·2 | 175·5 | 179·7 | 179·7 | 179·8 |
| | 27 | 177·1 | 177·6 | 178·1 | 178·1 | 178·1 | 180·0 | 180·0 | 180·8 | 182·3 | 181·1 | 181·7 | 179·2 |
| | 28 | 177·6 | 182·4 | 182·4 | 184·6 | 185·4 | 185·4 | 187·2 | 184·1 | 184·1 | 183·5 | 182·3 | 177·4 |
| | 29 | 179·1 | 179·3 | 177·7 | 179·0 | 180·8 | 178·7 | 181·5 | 180·0 | 179·5 | 179·5 | 179·7 | 181·5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 166·35 | 167·08 | 165·40 | 166·74 | 166·95 | 167·42 | 167·82 | 168·29 | 168·48 | 168·58 | 168·35 | 167·65 | |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------|-------|------|
| NOVEMBER. | 1 | 60·8 | 60·0 | 60·6 | 60·0 | 60·4 | 60·5 | 60·3 | 61·0 | 61·0 | 60·8 | 61·0 | 60·6 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 49·5 | 49·5 | 49·3 | 49·5 | 49·5 | 50·0 | 50·5 | 51·0 | 51·3 | 52·0 | 51·9 | 52·2 |
| | 4 | 52·7 | 52·6 | 52·5 | 52·3 | 53·0 | 53·3 | 53·5 | 53·8 | 54·1 | 54·2 | 54·3 | 54·3 |
| | 5 | 53·3 | 53·3 | 53·2 | 53·3 | 53·3 | 53·4 | 54·1 | 54·4 | 54·2 | 54·2 | 54·2 | 54·2 |
| | 6 | 54·0 | 54·0 | 53·5 | 53·5 | 53·3 | 53·5 | 53·5 | 53·7 | 54·0 | 54·2 | 54·4 | 55·0 |
| | 7 | 53·9 | 53·5 | 53·6 | 53·5 | 53·5 | 53·5 | 53·7 | 54·3 | 54·3 | 54·3 | 54·5 | 54·2 |
| | 8 | 54·0 | 53·5 | 53·0 | 52·3 | 52·1 | 51·9 | 51·5 | 51·1 | 50·8 | 50·4 | 50·3 | 50·3 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 44·2 | 44·6 | 44·8 | 44·7 | 45·1 | 45·7 | 46·4 | 47·6 | 47·9 ^a | 48·7 | 49·5 | 50·2 |
| | 11 | 50·3 | 50·3 | 50·0 | 50·3 | 50·2 | 50·2 | 50·4 | 50·7 | 51·4 | 51·8 | 51·8 | 51·8 |
| | 12 | 50·6 | 50·4 | 50·5 | 50·4 | 51·0 | 51·3 | 51·9 | 52·3 | 52·3 | 52·3 | 52·3 | 52·8 |
| | 13 | 52·4 | 52·4 | 52·8 | 52·0 | 52·8 | 53·5 | 53·5 | 54·0 ^b | 54·3 | 55·0 | 55·2 | 54·8 |
| | 14 | 53·5 | 53·0 | 53·0 | 52·7 | 52·8 | 53·5 | 54·1 | 54·2 | 54·3 | 54·3 | 54·3 | 54·7 |
| | 15 | 53·3 | 52·8 | 54·0 | 52·8 | 53·8 | 54·1 | 54·1 | 54·3 | 54·2 | 54·0 | 54·4 | 54·4 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 52·4 | 52·4 | 52·4 | 52·4 | 52·3 | 52·3 | 52·7 | 52·7 | 53·2 | 53·3 | 53·6 | 53·6 |
| | 18 | 56·3 | 56·2 | 56·0 | 56·2 | 56·0 | 56·3 | 57·0 | 56·3 | 56·7 | 56·7 | 57·3 | 57·3 |
| | 19 | 55·7 | 55·7 | 54·7 | 53·8 | 53·3 | 53·5 | 53·5 | 53·6 | 53·3 | 53·0 | 52·3 | 51·8 |
| | 20 | 52·0 | 52·0 | 52·0 | 52·2 | 52·5 | 53·0 | 54·0 | 53·8 | 53·8 | 53·6 | 53·6 | 54·3 |
| | 21 | 51·8 | 51·5 | 52·4 | 51·3 | 50·3 | 50·0 | 49·4 | 49·4 | 49·4 | 48·2 | 48·0 | 47·5 |
| | 22 | 46·1 | 46·4 | 46·9 | 46·6 | 46·6 | 45·7 | 45·6 | 46·5 | 46·0 | 46·4 | 45·5 | 45·5 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 40·5 | 40·4 | 40·4 | 40·0 | 40·5 | 40·5 | 40·3 | 40·0 | 40·2 | 40·0 | 39·8 | 39·6 |
| | 25 | 41·5 | 41·5 | 41·5 | 40·5 | 41·0 | 41·6 | 42·4 | 42·3 | 42·8 | 42·8 | 42·8 | 42·8 |
| | 26 | 45·0 | 44·8 | 44·6 | 44·6 | 44·4 | 44·2 | 43·6 | 43·6 | 42·6 | 42·4 | 42·6 | 42·4 |
| | 27 | 44·0 | 43·6 | 43·0 | 42·4 | 42·4 | 41·6 | 41·9 | 41·7 | 41·7 | 41·8 | 42·0 | 42·0 |
| | 28 | 38·8 | 38·6 | 40·0 | 39·3 | 39·9 | 39·8 | 40·0 | 40·0 | 40·2 | 40·2 | 41·1 | 42·2 |
| | 29 | 42·8 | 42·9 | 42·6 | 42·0 | 41·6 | 41·6 | 42·0 | 42·6 | 42·8 | 42·6 | 42·6 | 42·3 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 49·98 | 49·84 | 49·83 | 49·54 | 49·66 | 49·78 | 49·99 | 50·20 | 50·27 | 50·29 | 50·37 | 50·43 | |

^a Four minutes late.

^b Five minutes late.

VERTICAL FORCE.

One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah^t. = .00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Sc. Div. 152.7 | Sc. Div. 149.0 | Sc. Div. 149.0 | Sc. Div. 151.8 | Sc. Div. 150.7 | Sc. Div. 149.6 | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — | Sc. Div. — |
| — | — | — | — | — | — | 163.1 | 160.6 | 160.3 | 160.3 | 159.9 | 166.2 | 153.65 |
| 164.3 | 164.3 | 164.3 | 163.5 | 163.3 | 163.3 | 163.0 | 162.4 | 164.0 | 164.0 | 164.5 | 164.5 | 165.98 |
| 163.8 | 164.1 | 164.3 | 162.9 | 162.9 | 163.8 | 162.2 | 158.2 | 157.7 | 159.7 | 159.0 | 160.8 | 162.29 |
| 162.5 | 162.5 | 163.4 | 163.4 | 163.0 | 163.9 | 163.9 | 164.0 | 164.0 | 162.9 | 161.4 | 162.4 | 162.79 |
| 161.1 | 161.9 | 161.9 | 161.9 | 161.8 | 158.3 | 161.7 | 162.4 | 160.2 | 152.2 | 153.6 | 154.7 | 160.60 |
| 164.1 | 163.2 | 163.2 | 163.2 | 163.2 | 160.9 | 160.9 | 162.2 | 163.2 | 163.2 | 163.2 | 162.5 | 161.73 |
| 167.8 | 168.6 | 168.2 | 165.4 | 165.4 | 165.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 180.6 | 180.6 | 179.6 | 179.0 | 179.0 | 179.8 | 169.69 |
| 172.3 | 172.7 | 169.3 | 170.9 | 168.4 | 171.6 | 170.0 | 170.3 | 169.8 | 169.8 | 169.5 | 169.5 | 172.18 |
| 165.6 | 165.6 | 165.5 | 165.9 | 165.5 | 163.0 | 166.8 | 166.8 | 166.8 | 166.1 | 167.2 | 167.2 | 167.08 |
| 163.9 | 165.2 | 163.2 | 163.8 | 165.2 | 164.8 | 164.8 | 165.7 | 164.0 | 162.9 | 163.6 | 169.2 | 165.56 |
| 158.5 | 158.5 | 158.5 | 160.6 ^c | 160.4 | 159.5 | 158.1 | 157.1 | 156.9 | 157.6 | 156.8 | 160.0 | 160.57 |
| 158.5 | 156.8 | 157.5 | 157.5 | 157.5 | 154.9 | 156.3 | 159.6 | 159.6 | 160.6 | 161.0 | 160.9 | 159.55 |
| 159.3 | 159.2 | 157.6 | 157.6 | 160.7 | 160.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 158.9 | 159.6 | 161.8 | 161.8 | 132.7 | 145.5 | 158.08 |
| 164.3 | 164.9 | 162.7 | 162.1 | 160.1 | 159.9 | 156.8 | 157.9 | 157.9 | 156.3 | 157.2 | 157.2 | 159.77 |
| 157.9 | 157.9 | 157.7 | 156.7 | 155.1 | 155.1 | 154.8 | 150.8 | 150.1 | 144.0 | 145.8 | 153.5 | 155.89 |
| 167.0 | 166.3 | 165.2 | 166.4 | 166.4 | 165.8 | 164.1 | 161.7 | 164.4 | 164.0 | 164.0 | 163.4 | 163.96 |
| 159.3 | 159.8 | 160.6 | 165.7 | 160.5 | 159.7 | 163.9 | 163.6 | 162.7 | 162.8 | 162.8 | 163.5 | 162.40 |
| 164.6 | 164.2 | 166.5 | 164.0 | 162.1 | 162.9 | 161.6 | 160.5 | 161.6 | 163.6 | 162.1 | 162.2 | 164.52 |
| 173.7 | 174.2 | 171.8 | 173.3 | 172.3 | 171.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 182.6 | 183.7 | 183.7 | 183.8 | 183.8 | 183.7 | 172.37 |
| 186.0 | 184.5 | 183.1 | 183.5 | 180.5 | 182.5 | 182.5 | 182.6 | 181.9 | 181.8 | 181.8 | 181.8 | 183.49 |
| 177.2 | 177.2 | 176.6 | 175.3 | 175.0 | 174.7 | 174.7 | 174.7 | 174.7 | 174.3 | 174.0 | 175.8 | 177.90 |
| 179.0 | 177.1 | 176.6 | 175.7 | 175.7 | 175.7 | 176.4 | 176.4 | 176.4 | 176.4 | 176.0 | 176.0 | 176.56 |
| 179.2 | 179.6 | 179.0 | 181.7 | 183.1 | 184.3 | 184.3 | 177.8 | 180.6 | 178.0 | 175.5 | 169.4 | 179.44 |
| 174.0 | 173.4 | 174.0 | 174.4 | 173.8 | 177.7 | 176.9 | 175.1 | 176.6 | 175.8 | 177.8 | 179.1 | 179.37 |
| 182.2 | 182.2 | 181.0 | 180.5 | 175.4 | 175.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 188.9 | 188.9 | 188.4 | 190.0 | 187.7 | 187.4 | 181.85 |
| 167.15 | 166.92 | 166.43 | 166.71 | 165.92 | 165.78 | 167.91 | 167.33 | 167.45 | 166.86 | 165.60 | 167.05 | 167.09 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 60.6 | 60.1 | 60.0 | 60.0 | 59.6 | 59.4 | — | — | — | — | — | — | 57.84 |
| — | — | — | — | — | — | 50.7 | 50.7 | 50.7 | 50.0 | 49.7 | 49.6 | — |
| 52.4 | 53.0 | 52.6 | 52.7 | 53.0 | 53.0 | 52.7 | 52.7 | 52.5 | 52.5 | 52.5 | 52.6 | 51.60 |
| 54.3 | 54.3 | 54.3 | 54.5 | 54.5 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 53.9 | 53.5 | 53.81 |
| 54.0 | 53.7 | 53.7 | 54.0 | 53.7 | 53.5 | 53.5 | 53.1 | 52.9 | 53.4 | 54.0 | 54.2 | 53.70 |
| 55.0 | 54.8 | 54.8 | 54.6 | 54.3 | 54.5 | 54.4 | 54.3 | 54.3 | 54.3 | 54.3 | 54.0 | 54.17 |
| 54.3 | 54.3 | 54.3 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.0 | 53.8 | 53.8 | 54.0 | 54.01 |
| 50.3 | 50.3 | 50.3 | 50.2 | 50.0 | 50.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 42.4 | 42.8 | 43.0 | 43.2 | 43.6 | 44.0 | 49.22 |
| 50.5 | 50.5 | 50.2 | 50.0 | 50.3 | 50.0 | 49.8 | 49.8 | 50.0 | 50.3 | 50.7 | 50.0 | 48.40 |
| 51.5 | 51.5 | 51.5 | 51.3 | 51.3 | 51.3 | 51.3 | 50.8 | 50.6 | 50.8 | 51.0 | 51.0 | 50.96 |
| 52.8 | 52.8 | 52.6 | 51.5 | 51.8 | 52.0 | 52.0 | 52.0 | 52.7 | 53.0 | 52.8 | 52.6 | 51.95 |
| 54.9 | 54.3 | 54.3 | 54.2 ^c | 54.5 | 54.6 | 54.3 | 54.5 | 54.7 | 54.5 | 54.5 | 54.3 | 54.01 |
| 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 54.7 | 54.0 | 53.5 | 53.3 | 53.3 | 54.15 |
| 54.2 | 54.0 | 53.6 | 53.0 | 53.0 | 53.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.1 | 52.5 | 52.4 | 52.4 | 52.3 | 52.4 | 53.42 |
| 53.6 | 53.6 | 53.8 | 54.6 | 54.9 | 55.2 | 55.4 | 54.9 | 54.7 | 55.9 | 56.3 | 56.4 | 53.86 |
| 57.7 | 57.6 | 57.7 | 57.7 | 57.9 | 57.8 | 57.6 | 57.4 | 57.4 | 57.5 | 57.6 | 56.2 | 57.02 |
| 52.3 | 52.5 | 52.3 | 52.7 | 52.7 | 52.4 | 52.2 | 52.0 | 52.0 | 52.0 | 51.8 | 51.2 | 52.93 |
| 51.2 | 54.0 | 54.0 | 53.6 | 53.0 | 52.6 | 52.6 | 52.5 | 52.3 | 52.3 | 52.0 | 52.3 | 53.01 |
| 47.4 | 48.0 | 48.0 | 48.0 | 47.7 | 47.5 | 47.5 | 47.9 | 47.7 | 47.0 | 47.2 | 47.4 | 48.77 |
| 45.8 | 46.0 | 46.5 | 46.6 | 47.0 | 47.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.8 | 40.6 | 40.6 | 40.4 | 40.4 | 40.6 | 44.85 |
| 40.0 | 40.4 | 40.6 | 40.4 | 40.6 | 40.7 | 40.7 | 41.6 | 41.4 | 41.5 | 41.4 | 41.6 | 40.55 |
| 43.4 | 43.6 | 44.3 | 44.6 | 45.4 | 45.6 | 45.6 | 45.6 | 45.4 | 45.4 | 45.4 | 45.0 | 43.45 |
| 43.0 | 44.0 | 44.4 | 44.4 | 44.4 | 44.4 | 44.2 | 44.0 | 44.0 | 44.4 | 44.6 | 44.6 | 43.97 |
| 41.8 | 42.0 | 42.4 | 41.6 | 40.9 | 40.4 | 39.9 | 40.0 | 39.9 | 39.9 | 39.6 | 39.0 | 41.48 |
| 43.4 | 44.6 | 44.6 | 45.3 | 45.6 | 43.8 | 43.6 | 43.7 | 43.8 | 43.7 | 43.6 | 42.8 | 42.03 |
| 41.8 | 41.8 | 42.1 | 41.6 | 42.6 | 42.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.1 | 37.1 | 37.6 | 37.9 | 38.1 | 37.9 | 41.11 |
| 50.58 | 50.68 | 50.72 | 50.66 | 50.72 | 50.61 | 49.40 | 49.35 | 49.32 | 49.36 | 49.38 | 49.22 | 50.01 |

VERTICAL FORCE.
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.

| Mean Göttingen Time. | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | 10 ^h . | 11 ^h . | |
|----------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-------------------|-------|
| DECEMBER. | 1 | 187·7 | 187·7 ^a | 188·7 | 186·5 | 185·6 | 186·5 | 186·5 | 186·5 | 189·6 | 189·6 | 190·0 | 189·9 |
| | 2 | 187·7 | 187·2 | 181·6 | 184·5 | 185·5 | 186·7 | 188·0 | 188·8 | 188·8 | 185·9 | 185·9 | 189·4 |
| | 3 | 177·4 | 179·8 | 189·0 | 187·8 | 187·8 | 192·4 | 199·6 | 208·6 | 212·4 | 232·8 | 223·8 | 215·9 |
| | 4 | 189·0 | 189·0 | 189·0 | 187·7 | 187·1 | 184·7 | 185·5 | 183·6 | 181·9 | 180·8 | 178·5 | 178·5 |
| | 5 | 176·0 | 176·4 | 174·9 | 174·9 | 177·7 | 177·7 | 179·1 | 180·1 | 181·5 | 181·5 | 182·7 | 182·4 |
| | 6 | 178·1 | 177·1 | 179·1 | 179·2 | 179·2 | 178·5 | 178·3 | 177·3 | 179·8 | 180·0 | 179·5 | 179·5 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 190·2 | 191·3 | 188·0 | 187·1 | 185·9 | 185·5 | 185·0 | 184·6 | 184·6 | 183·8 | 183·8 | 180·7 |
| | 9 | 177·3 | 177·3 | 176·8 | 176·8 | 176·8 | 175·5 | 175·2 | 175·2 | 175·4 | 175·9 ^b | 175·9 | 175·9 |
| | 10 | 179·0 | 179·0 | 179·5 | 180·1 | 180·1 | 178·6 | 179·7 | 180·3 | 182·3 | 182·2 | 182·2 | 182·7 |
| | 11 | 186·6 | 186·7 | 188·3 | 188·3 | 189·6 | 189·4 | 189·4 | 190·4 | 190·4 | 190·4 | 189·5 | 189·5 |
| | 12 | 190·9 | 190·9 | 192·2 | 194·8 | 193·0 | 193·0 | 193·0 | 193·6 | 193·4 | 192·7 | 190·7 | 191·5 |
| | 13 | 182·1 | 178·7 | 178·1 | 180·9 | 179·7 | 180·4 | 181·3 | 183·6 | 184·5 | 184·1 | 183·5 | 185·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 171·0 | 172·2 | 174·2 | 175·0 | 174·8 | 174·0 | 174·6 | 178·4 | 182·6 | 181·7 | 181·4 | 179·7 |
| | 16 | 181·1 | 178·6 | 175·3 | 178·8 | 179·3 | 177·5 | 176·7 | 175·9 | 175·6 | 175·6 | 174·8 | 174·8 |
| | 17 | 174·3 | 172·9 | 173·8 | 173·0 | 173·0 | 173·0 | 172·3 | 173·3 | 174·0 | 174·6 | 173·9 | 168·7 |
| | 18 | 162·8 | 160·3 | 163·6 | 164·8 | 164·8 | 163·5 | 164·3 | 166·1 | 167·5 | 167·5 | 168·2 | 168·1 |
| | 19 | 179·0 | 180·7 | 182·9 | 185·0 | 185·0 | 184·5 | 185·4 | 185·4 | 186·8 | 186·8 | 188·0 | 187·9 |
| | 20 | 191·7 | 192·5 | 191·3 | 191·0 | 190·0 | 188·8 | 189·0 | 189·1 | 189·1 | 188·7 | 188·4 | 188·4 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 198·2 | 195·5 | 195·9 | 194·8 | 193·0 | 192·4 | 192·0 | 190·9 | 189·8 | 188·8 | 188·8 | 188·1 |
| | 23 | 189·3 | 188·9 | 188·9 | 188·5 | 186·0 | 184·4 | 183·2 | 182·7 | 183·5 | 184·2 | 183·6 | 183·3 |
| | 24 | 175·8 | 175·7 | 179·4 | 181·6 | 181·0 | 181·6 | 180·9 | 179·9 | 179·8 | 179·5 | 178·4 | 178·0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 190·4 | 190·4 | 188·2 | 188·1 | 187·2 | 186·3 | 186·1 | 184·8 | 184·5 | 184·5 | 184·5 | 184·5 |
| | 27 | 185·4 | 185·4 | 185·6 | 185·3 | 188·0 | 184·8 | 181·3 | 181·8 | 183·3 | 183·3 | 186·0 | 184·3 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 177·3 | 176·8 | 173·5 | 176·6 | 176·1 | 174·7 | 174·2 | 172·4 | 170·8 | 171·1 | 170·9 | 169·8 |
| | 30 | 163·0 | 165·6 | 166·0 | 177·3 | 175·6 | 173·8 | 173·8 | 173·8 | 176·2 | 176·7 | 173·6 | 173·5 |
| | 31 | 179·9 | 181·0 | 175·7 | 185·3 | 184·7 | 181·6 | 180·3 | 180·6 | 180·5 | 180·7 | 182·0 | 182·0 |
| Hourly Means | 181·58 | 181·45 | 181·52 | 182·83 | 182·56 | 181·92 | 182·10 | 182·60 | 183·41 | 183·98 | 183·40 | 182·77 | |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
|--------------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|------|
| DECEMBER. | 1 | 37·9 | 38·2 ^a | 38·2 | 37·6 | 38·2 | 37·7 | 37·2 | 37·0 | 37·0 | 37·2 | 37·4 | 36·8 |
| | 2 | 36·8 | 36·5 | 37·0 | 37·0 | 37·6 | 37·9 | 37·5 | 36·9 | 37·9 | 38·8 | 38·0 | 38·4 |
| | 3 | 36·6 | 36·3 | 36·0 | 35·7 | 36·0 | 36·1 | 36·6 | 37·0 | 37·1 | 37·6 | 37·4 | 37·4 |
| | 4 | 39·8 | 40·0 | 40·0 | 40·0 | 40·0 | 40·6 | 41·0 | 42·0 | 42·8 | 43·8 | 44·2 | 44·6 |
| | 5 | 44·5 | 44·4 | 44·1 | 44·0 | 43·2 | 43·2 | 43·7 | 43·8 | 43·8 | 43·6 | 43·6 | 43·8 |
| | 6 | 44·2 | 44·6 | 43·8 | 43·6 | 43·6 | 43·8 | 44·2 | 44·6 | 44·5 | 44·6 | 44·4 | 44·2 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 37·6 | 37·8 | 38·0 | 38·4 | 38·7 | 39·1 | 39·9 | 40·0 | 40·4 | 40·7 | 41·4 | 41·7 |
| | 9 | 44·6 | 44·6 | 44·2 | 43·7 | 44·2 | 44·5 | 44·6 | 45·0 | 45·4 | 45·6 ^b | 45·6 | 45·6 |
| | 10 | 42·2 | 41·8 | 41·7 | 41·7 | 41·9 | 42·1 | 42·1 | 42·0 | 41·7 | 41·0 | 40·8 | 40·6 |
| | 11 | 38·2 | 37·8 | 37·1 | 36·6 | 36·6 | 36·8 | 36·8 | 36·6 | 36·6 | 36·8 | 36·8 | 37·4 |
| | 12 | 35·6 | 35·0 | 33·7 | 34·0 | 34·2 | 34·2 | 34·4 | 34·8 | 35·0 | 35·7 | 36·4 | 36·2 |
| | 13 | 37·8 | 38·0 | 38·0 | 38·0 | 38·8 | 39·6 | 40·0 | 40·3 | 40·6 | 41·6 | 42·0 | 42·5 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 44·6 | 44·2 | 44·0 | 43·1 | 44·6 | 45·0 | 44·6 | 44·6 | 44·6 | 44·3 | 44·0 | 44·3 |
| | 16 | 43·7 | 44·0 | 43·0 | 42·6 | 42·7 | 43·5 | 44·0 | 44·6 | 45·2 | 45·8 | 46·0 | 46·4 |
| | 17 | 45·4 | 45·6 | 45·7 | 45·4 | 45·6 | 45·8 | 45·8 | 46·2 | 46·4 | 46·6 | 46·8 | 49·3 |
| | 18 | 50·5 | 50·5 | 49·7 | 49·1 | 49·0 | 49·3 | 49·3 | 49·5 | 49·5 | 49·5 | 49·6 | 49·2 |
| | 19 | 41·4 | 40·8 | 40·6 | 40·5 | 39·8 | 39·4 | 39·4 | 38·9 | 38·7 | 38·6 | 38·2 | 37·6 |
| | 20 | 35·2 | 35·4 | 35·6 | 35·3 | 35·5 | 36·0 | 36·0 | 36·6 | 37·0 | 37·4 | 37·8 | 36·8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 30·8 | 31·4 | 31·8 | 32·1 | 32·4 | 33·2 | 34·1 | 34·6 | 35·2 | 35·8 | 36·2 | 36·8 |
| | 23 | 36·5 | 36·5 | 36·3 | 36·2 | 37·0 | 37·2 | 38·0 | 38·8 | 39·5 | 39·5 | 39·6 | 40·0 |
| | 24 | 41·6 | 41·6 | 40·3 | 40·4 | 40·2 | 40·2 | 40·4 | 41·0 | 41·2 | 42·0 | 42·8 | 42·0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 34·3 | 34·3 | 34·6 | 35·0 | 35·4 | 35·4 | 36·2 | 37·0 | 37·6 | 38·0 | 38·8 | 38·6 |
| | 27 | 36·6 | 36·2 | 36·2 | 36·4 | 36·4 | 37·0 | 38·0 | 38·2 | 37·8 | 38·2 | 38·8 | 38·8 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 43·0 | 43·2 | 43·2 | 43·0 | 43·2 | 43·6 | 44·4 | 45·0 | 45·2 | 45·6 | 46·2 | 45·8 |
| | 30 | 45·4 | 45·2 | 44·8 | 44·6 | 44·6 | 45·2 | 45·6 | 45·4 | 45·4 | 45·2 | 46·4 | 44·8 |
| | 31 | 41·0 | 40·2 | 40·0 | 39·6 | 39·7 | 40·5 | 40·5 | 40·7 | 40·4 | 40·3 | 40·3 | 40·6 |
| Hourly Means | 40·22 | 40·16 | 39·91 | 39·75 | 39·97 | 40·26 | 40·55 | 40·81 | 41·02 | 41·30 | 41·52 | 41·55 | |

^a Three minutes late.

^b Two minutes late.

^c Five minutes early.

VERTICAL FORCE.

One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.

| 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | 21 ^h . | 22 ^h . | 23 ^h . | Daily and Monthly Means. |
|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| 185.2 | 187.8 | 187.8 | 189.1 | 189.1 | 188.6 | 187.9 | 187.9 | 187.9 | 185.7 | 184.9 | 184.9 | 187.57 |
| 187.7 | 188.3 | 188.3 | 188.3 | 188.3 | 188.2 | 188.2 | 188.2 | 186.8 | 179.8 | 178.2 | 171.7 | 185.92 |
| 217.5 | 217.8 | 184.4 | 182.8 | 205.9 | 205.9 | 198.5 | 198.2 | 195.9 | 194.3 | 192.9 | 192.8 | 199.76 |
| 179.6 | 179.0 | 178.2 | 179.7 | 180.3 | 179.5 | 180.7 | 179.6 | 179.6 | 175.0 | 171.1 | 173.7 | 181.30 |
| 182.3 | 182.3 | 182.7 | 183.6 | 178.9 | 180.3 | 180.5 | 182.3 | 181.7 | 180.7 | 178.7 | 178.1 | 179.87 |
| 179.5 | 180.8 | 181.8 | 180.2 | 180.2 | 180.2 | — | — | — | — | — | — | 181.18 |
| — | — | — | — | — | — | — | — | 188.6 | 189.8 | 192.0 | 187.3 | 181.80 |
| 179.8 | 179.2 | 178.8 | 180.8 | 180.8 | 177.3 | 175.8 | 175.7 | 175.7 | 175.9 | 176.4 | 176.4 | 176.42 |
| 175.9 | 175.9 | 175.9 | 177.2 | 176.4 | 177.0 | 177.6 | 177.5 | 176.0 | 175.8 | 176.0 | 179.0 | 182.50 |
| 182.0 | 182.6 | 184.0 | 183.7 | 184.4 | 184.2 | 184.6 | 185.0 | 185.0 | 186.3 | 186.3 | 186.1 | 189.95 |
| 189.2 | 190.0 | 190.2 | 190.7 | 191.2 | 191.2 | 191.2 | 191.1 | 192.6 | 191.5 | 191.5 | 189.8 | 191.35 |
| 191.5 | 191.5 | 189.7 | 191.0 | 191.0 | 191.0 | 191.0 | 191.0 | 190.4 | 190.8 | 190.8 | 187.9 | 186.2 |
| 185.2 | 182.7 | 181.9 | 181.9 | 181.9 | 181.9 | — | — | — | — | — | — | 181.67 |
| — | — | — | — | — | — | 180.5 | 180.5 | 181.9 | 182.2 | 179.0 | 178.5 | 177.82 |
| 178.4 | 178.3 | 177.9 | 177.9 ^a | 180.5 | 178.5 | 179.6 | 175.6 | 178.1 | 181.1 | 181.1 | 181.1 | 175.19 |
| 175.6 | 175.6 | 176.0 | 174.6 | 173.0 | 173.0 | 173.0 | 172.9 | 172.9 | 172.6 | 170.5 | 170.9 | 168.32 |
| 168.6 | 167.4 | 168.2 | 164.5 | 161.8 | 163.7 | 163.1 | 163.8 | 161.1 | 160.6 | 160.1 | 159.9 | 168.15 |
| 168.1 | 168.6 | 168.6 | 169.2 | 169.2 | 170.0 | 170.0 | 171.7 | 173.6 | 173.3 | 172.8 | 179.0 | 187.25 |
| 188.6 | 187.4 | 189.0 | 187.4 | 188.5 | 188.5 | 190.7 | 190.3 | 190.8 | 191.9 | 192.4 | 191.0 | 192.26 |
| 189.2 | 189.5 | 190.0 | 190.0 | 191.0 | 192.6 | — | — | — | — | — | — | 198.2 |
| — | — | — | — | — | — | 198.6 | 199.2 | 199.3 | 199.3 | 199.3 | 198.2 | 191.05 |
| 188.8 | 188.8 | 189.5 | 189.5 | 189.7 | 189.8 ^d | 189.1 | 190.3 | 190.3 | 190.7 | 190.4 | 190.1 | 182.85 |
| 181.7 | 181.1 | 180.3 | 179.3 | 179.3 | 179.6 | 179.6 | 180.6 | 180.2 | 180.2 | 179.7 | 180.2 | 181.88 |
| 178.0 | 177.6 | 178.4 | 178.4 | 178.1 | 177.5 | — | — | — | — | — | — | 185.87 |
| — | — | — | — | — | — | 190.5 | 190.5 | 191.4 | 191.4 | 191.4 | 190.4 | 183.17 |
| 185.6 | 185.4 | 184.5 | 185.4 | 185.4 | 186.6 | 186.6 | 183.3 | 185.0 | 183.3 | 185.1 | 185.3 | 179.14 |
| 184.3 | 185.3 | 184.2 | 183.1 | 182.9 | 181.9 | — | — | — | — | — | — | 174.24 |
| — | — | — | — | — | — | 181.2 | 180.7 | 180.3 | 179.8 | 178.9 | 178.9 | 182.15 |
| 169.8 | 169.8 | 169.7 | 169.6 | 168.1 | 164.9 | 163.4 | 166.1 | 166.6 | 162.6 | 163.9 | 164.6 | — |
| 178.1 | 178.1 | 177.3 | 176.7 | 175.7 | 175.5 | 175.8 | 172.7 | 172.7 | 174.6 | 177.7 | 177.9 | — |
| 182.8 | 182.8 | 182.8 | 182.8 | 182.8 | 182.8 | 182.8 | 184.0 | 184.0 | 183.6 | 183.3 | 182.7 | — |
| 182.81 | 182.83 | 181.54 | 181.44 | 182.09 | 181.93 | 182.42 | 182.32 | 182.65 | 182.03 | 181.60 | 181.33 | 182.30 |

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

| | | | | | | | | | | | | |
|-------|-------|-------|-------------------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|
| 37.4 | 37.2 | 36.9 | 38.0 | 38.0 | 38.0 | 38.1 | 38.1 | 38.0 | 37.6 | 37.6 | 37.8 | 37.63 |
| 39.2 | 39.1 | 38.7 | 38.7 | 38.7 | 39.0 | 38.7 | 37.5 | 37.2 | 37.0 | 37.0 | 37.0 | 37.84 |
| 37.6 | 37.8 | 38.0 | 39.3 | 39.6 | 38.4 | 38.4 | 38.6 | 38.8 | 39.0 | 39.6 | 39.4 | 37.68 |
| 44.4 | 44.4 | 44.6 | 44.8 | 44.6 | 44.4 | 44.4 | 43.6 | 43.4 | 44.0 | 44.4 | 44.6 | 42.93 |
| 43.6 | 43.6 | 43.4 | 43.0 | 42.8 | 43.2 | 43.4 | 43.0 | 43.4 | 43.6 | 43.6 | 44.2 | 43.60 |
| 43.6 | 43.5 | 43.4 | 43.8 | 43.8 | 43.9 | — | — | — | — | — | — | 42.78 |
| — | — | — | — | — | — | — | — | 37.2 | 37.2 | 37.0 | 37.6 | 41.62 |
| 42.4 | 42.7 | 43.0 | 43.0 | 43.0 | 43.8 | 44.5 | 44.6 | 44.6 | 44.5 | 44.5 | 44.6 | 44.54 |
| 45.6 | 45.2 | 45.0 | 45.0 | 44.6 | 44.6 | 44.2 | 44.1 | 43.6 | 43.6 | 43.2 | 42.6 | 40.39 |
| 40.0 | 39.8 | 39.6 | 39.8 | 39.8 | 39.0 | 38.6 | 38.4 | 38.4 | 38.6 | 39.3 | 38.4 | 36.66 |
| 37.3 | 37.0 | 37.0 | 36.5 | 36.1 | 36.1 | 36.1 | 35.7 | 35.9 | 36.0 | 36.0 | 36.0 | 36.90 |
| 36.5 | 36.5 | 36.8 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.3 | 37.3 | 37.5 | 38.0 | — |
| 42.6 | 42.9 | 42.8 | 42.9 | 42.9 | 42.8 | — | — | — | — | — | — | 41.25 |
| — | — | — | — | — | — | 42.2 | 42.2 | 42.2 | 42.4 | 42.8 | 44.0 | 43.61 |
| 44.7 | 44.7 | 44.3 | 43.6 ^a | 42.8 | 42.6 | 42.6 | 42.4 | 42.0 | 42.0 | 41.7 | 41.4 | 45.04 |
| 46.2 | 46.2 | 46.0 | 46.4 | 46.4 | 46.6 | 46.0 | 45.0 | 45.0 | 45.0 | 45.2 | 45.4 | 48.26 |
| 49.6 | 49.7 | 49.1 | 49.6 | 51.0 | 50.6 | 50.5 | 50.5 | 51.1 | 50.7 | 50.8 | 50.7 | 48.13 |
| 49.0 | 49.0 | 48.9 | 48.7 | 48.5 | 48.4 | 47.7 | 46.4 | 45.0 | 43.7 | 43.2 | 42.0 | 37.82 |
| 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 36.2 | 34.7 | 35.5 | 35.2 | 35.2 | 35.4 | 35.0 | 34.81 |
| 36.8 | 36.4 | 36.4 | 36.0 | 36.0 | 35.8 | — | — | — | — | — | — | 35.03 |
| — | — | — | — | — | — | 30.6 | 30.8 | 30.8 | 30.8 | 30.3 | 30.3 | 39.54 |
| 36.6 | 36.3 | 36.3 | 37.0 | 37.0 | 36.8 ^d | 36.8 | 36.2 | 36.0 | 35.7 | 35.6 | 36.1 | 39.85 |
| 40.0 | 40.6 | 41.2 | 41.2 | 41.1 | 41.2 | 41.1 | 41.2 | 41.5 | 41.6 | 41.6 | 41.6 | 36.94 |
| 42.0 | 42.2 | 42.4 | 42.4 | 42.8 | 42.8 | — | — | — | — | — | — | 38.88 |
| — | — | — | — | — | — | 35.0 | 34.8 | 34.8 | 34.6 | 34.4 | 34.6 | 45.30 |
| 38.0 | 38.2 | 38.5 | 37.4 | 37.2 | 36.7 | 37.1 | 37.6 | 37.8 | 38.0 | 37.8 | 37.0 | 44.42 |
| 38.8 | 39.0 | 39.6 | 40.0 | 40.0 | 40.0 | — | — | — | — | — | — | 40.22 |
| — | — | — | — | — | — | 40.4 | 40.7 | 40.8 | 41.4 | 41.7 | 42.2 | — |
| 45.8 | 45.4 | 45.6 | 46.2 | 46.6 | 46.8 | 46.6 | 47.0 | 47.0 | 46.7 | 46.3 | 45.8 | — |
| 44.6 | 44.6 | 44.4 | 44.2 | 44.4 | 44.2 | 44.2 | 43.6 | 42.8 | 42.8 | 42.0 | 41.6 | — |
| 40.5 | 40.5 | 40.3 | 40.3 | 40.3 | 40.0 | 40.0 | 39.8 | 39.8 | 40.0 | 40.0 | 40.0 | — |
| 41.54 | 41.53 | 41.52 | 41.62 | 41.63 | 41.50 | 40.76 | 40.57 | 40.37 | 40.35 | 40.33 | 40.30 | 40.79 |

^a Twenty-one minutes late.

^c Christmas-day.

| January 22nd and 23rd. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|------------------------|----|---|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0' 721. | | | | | | | | | | DECLINATION. | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | 116.8 | 116.0 | 121.7 | 118.1 | 118.7 | 117.4 | 118.0 | 116.1 | 117.1 | 121.3 | 118.6 | |
| 5 | 0 | 116.9 | 116.0 | 123.0 | 117.2 | 118.4 | 117.4 | 117.0 | 117.2 | 117.2 | 119.9 | 118.4 | |
| 10 | 0 | 117.0 | 115.9 | 124.2 | 116.3 | 118.0 | 118.0 | 116.2 | 117.3 | 118.0 | 119.1 | 118.5 | |
| 15 | 0 | 117.0 | 116.5 | 126.9 | 116.2 | 118.0 | 117.6 | 116.0 | 117.4 | 117.8 | 118.2 | 119.0 | |
| 20 | 0 | 116.0 | 116.2 | 129.2 | 116.5 | 117.4 | 117.4 | 116.4 | 118.0 | 117.9 | 117.0 | 118.3 | |
| 25 | 0 | 115.8 | 116.2 | 130.2 | 117.0 | 117.0 | 117.7 | 117.8 | 118.8 | 118.6 | 116.0 | 118.9 | |
| 30 | 0 | 116.0 | 116.0 | 125.9 | 117.4 | 117.2 | 116.1 | 118.1 | 117.9 | 116.9 | 115.6 | 119.2 | |
| 35 | 0 | 115.6 | 116.1 | 121.7 | 117.3 | 118.0 | 118.0 | 118.9 | 117.2 | 115.5 | 116.2 | 119.6 | |
| 40 | 0 | 115.2 | 117.0 | 118.2 | 117.8 | 117.3 | 118.6 | 118.5 | 117.5 | 117.1 | 116.2 | 120.2 | |
| 45 | 0 | 115.2 | 118.6 | 116.2 | 118.1 | 117.0 | 118.0 | 117.1 | 117.8 | 119.6 | 117.8 | 120.7 | |
| 50 | 0 | 115.4 | 119.7 | 116.8 | 118.7 | 117.2 | 119.7 | 116.1 | 117.8 | 121.0 | 118.0 | 120.9 | |
| 55 | 0 | 115.6 | 120.8 | 117.9 | 118.6 | 117.4 | 118.0 | 115.8 | 117.5 | 121.2 | 119.0 | 121.3 | |

| M. | | One Scale Division = .000087 parts of the H. F. | | | | | | | | | | HORIZONTAL FORCE. | |
|----|----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|--|
| M. | S. | 580.0 | 578.0 | 553.1 | 580.2 | 580.9 | 573.8 | 575.5 | 571.0 | 571.9 | 582.8 | 576.2 | |
| 2 | 0 | 578.0 | 576.8 | 551.0 | 580.2 | 578.0 | 573.8 | 575.6 | 572.4 | 570.4 | 581.7 | 575.3 | |
| 7 | 0 | 577.5 | 577.3 | 552.7 | 579.9 | 577.7 | 574.6 | 574.8 | 572.4 | 570.2 | 580.9 | 575.9 | |
| 12 | 0 | 578.0 | 580.2 | 558.4 | 579.0 | 578.0 | 576.2 | 572.8 | 572.7 | 569.3 | 580.6 | 577.7 | |
| 17 | 0 | 577.9 | 580.0 | 564.0 | 578.6 | 577.6 | 575.6 | 571.0 | 573.5 | 570.4 | 578.9 | 576.9 | |
| 22 | 0 | 578.0 | 575.9 | 574.3 | 578.0 | 576.8 | 575.8 | 572.7 | 572.9 | 576.2 | 576.1 | 577.2 | |
| 27 | 0 | 578.7 | 572.0 | 578.8 | 577.6 | 577.5 | 575.0 | 573.7 | 573.0 | 578.4 | 575.9 | 577.1 | |
| 32 | 0 | 579.0 | 569.5 | 580.0 | 578.6 | 577.6 | 574.7 | 573.9 | 572.8 | 577.9 | 573.8 | 575.8 | |
| 37 | 0 | 577.8 | 567.8 | 580.1 | 579.6 | 576.0 | 575.0 | 574.1 | 572.7 | 576.4 | 573.5 | 575.4 | |
| 42 | 0 | 577.4 | 563.5 | 579.5 | 580.0 | 574.6 | 574.5 | 573.4 | 573.4 | 575.7 | 573.1 | 576.0 | |
| 47 | 0 | 577.5 | 561.3 | 579.0 | 579.6 | 574.0 | 574.5 | 572.9 | 573.1 | 582.2 | 574.1 | 575.6 | |
| 52 | 0 | 577.4 | 557.7 | 579.2 | 581.4 | 574.0 | 575.0 | 572.9 | 572.8 | 582.9 | 574.5 | 574.1 | |

| Thermometer | | 47.8 | 48.4 | 48.4 | 48.3 | 48.2 | 48.0 | 47.7 | 47.0 | 47.0 | 46.4 | 45.9 | |
|-------------|----|--|------|------|------|------|------|------|------|------|------|-----------------|--|
| M. | S. | One Scale Division = .000063 part of the V. F. | | | | | | | | | | VERTICAL FORCE. | |
| 3 | 0 | 91.3 | 90.9 | 86.6 | 87.8 | 87.0 | 86.2 | 87.2 | 87.7 | 87.1 | 89.5 | 89.8 | |
| 8 | 0 | 91.3 | 90.9 | 86.6 | 88.0 | 88.2 | 86.3 | 87.6 | 87.9 | 87.1 | 89.5 | 89.8 | |
| 13 | 0 | 90.0 | 89.6 | 87.9 | 87.8 | 88.2 | 85.9 | 87.6 | 87.3 | 87.1 | 88.5 | 89.8 | |
| 18 | 0 | 90.0 | 91.2 | 88.4 | 88.5 | 87.3 | 86.2 | 87.3 | 87.3 | 88.3 | 88.5 | 89.8 | |
| 23 | 0 | 90.0 | 89.7 | 88.5 | 88.3 | 87.3 | 86.1 | 87.9 | 87.3 | 88.3 | 88.1 | 89.8 | |
| 28 | 0 | 90.4 | 88.3 | 89.0 | 88.3 | 86.6 | 86.4 | 87.5 | 87.1 | 89.4 | 88.1 | 90.0 | |
| 33 | 0 | 91.0 | 87.6 | 89.0 | 86.9 | 86.6 | 86.6 | 86.6 | 87.1 | 88.2 | — | 90.0 | |
| 38 | 0 | 91.0 | 87.6 | 89.0 | 86.6 | 86.8 | 86.6 | 86.5 | 87.1 | 88.2 | 88.7 | 89.8 | |
| 43 | 0 | 91.0 | 87.3 | 88.7 | 86.9 | 86.7 | 86.6 | 88.4 | 87.1 | 88.9 | 88.9 | 89.8 | |
| 48 | 0 | 91.0 | 86.5 | 88.7 | 86.9 | 86.5 | 86.6 | 87.8 | 87.1 | 88.9 | 88.7 | 89.5 | |
| 53 | 0 | 91.8 | 86.5 | 87.4 | 86.5 | 86.6 | 87.2 | 87.6 | 87.1 | 89.5 | 89.4 | 89.5 | |
| 58 | 0 | 90.9 | 86.1 | 87.8 | 86.7 | 86.7 | 87.2 | 86.8 | 87.1 | 89.5 | 89.4 | 89.5 | |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | — | Calm. | Clear, save a few cir.-strat. round horizon. |
| 22 | 10 | 0 | 29.978 | 37.2 | 32.0 | — | Calm. | Clouded; cir.-cum. and cir.-strat.; a few clear spaces round horizon. |
| | 11 | 0 | 29.994 | 31.8 | 31.8 | — | Calm. | Partially covered with cir.-cum.; clear in N. and zenith. |
| | 12 | 0 | 30.000 | 27.6 | 26.0 | — | Calm. | Clear. |
| | 13 | 0 | 30.010 | 25.2 | 23.8 | — | Calm. | Clear. |
| | 14 | 0 | 30.016 | 22.2 | 21.2 | N. E. | Very light. | Clear. |
| | 15 | 0 | 30.036 | 20.6 | 19.4 | — | Calm. | Clear. |
| | 16 | 0 | 30.038 | 19.5 | 18.6 | — | Calm. | Cir.-cum. scattered. |
| | 17 | 0 | 30.035 | 18.7 | 18.0 | N. E. | Very light. | Generally overcast; light fleecy cir.-cum.; clear spaces. |
| | 18 | 0 | 30.029 | 18.8 | 18.3 | N. E. | Very light. | Generally overcast; light fleecy cir.-cum.; clear spaces. |
| | 19 | 0 | 30.031 | 18.8 | 18.2 | N. E. | Very light. | Generally overcast; light fleecy cir.-cum.; clear spaces. |
| | 20 | 0 | 30.048 | 19.0 | 18.5 | N. E. | Very light. | Unclouded; hazy. |
| | 21 | 0 | 30.029 | 17.8 | 17.4 | N. E. | Very light. | Clear. |

MAGNETICAL OBSERVATIONS.

January 22nd and 23rd.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 121.4 | 124.5 | 121.4 | 126.2 | 122.1 | 121.6 | 110.0 | 110.8 | 106.7 | 111.4 | 114.0 | 111.9 | 112.4 |
| 120.9 | 120.9 | 123.0 | 127.4 | 122.8 | 120.7 | 111.2 | 110.4 | 108.0 | 111.9 | 114.0 | 112.0 | 112.1 |
| 120.0 | 118.2 | 124.6 | 127.6 | 122.0 | 120.2 | 111.3 | 110.0 | 109.0 | 111.5 | 114.3 | 112.7 | 111.6 |
| 119.4 | 117.9 | 125.1 | 127.0 | 123.0 | 120.8 | 111.2 | 111.4 | 109.3 | 111.6 | 115.0 | 113.0 | 112.1 |
| 121.0 | 116.5 | 124.2 | 126.0 | 124.0 | 118.2 | 111.4 | 110.2 | 109.1 | 111.2 | 114.9 | 113.0 | 111.8 |
| 122.0 | 114.8 | 124.0 | 125.2 | 125.1 | 117.9 | 114.2 | 110.4 | 109.1 | 111.9 | 115.0 | 113.0 | 110.6 |
| 123.7 | 116.4 | 125.1 | 126.5 | 125.2 | 118.6 | 114.5 | 109.3 | 109.8 | 111.8 | 114.8 | 113.0 | 110.0 |
| 124.3 | 117.7 | 123.8 | 125.2 | 125.3 | 117.4 | 116.6 | 107.6 | 110.7 | 112.2 | 115.0 | 113.0 | 110.0 |
| 125.0 | 118.8 | 124.6 | 124.8 | 123.8 | 116.3 | 112.2 | 107.0 | 111.9 | 112.8 | 115.2 | 113.1 | 112.9 |
| 125.3 | 121.0 | 125.0 | 125.4 | 123.0 | 115.2 | 110.4 | 106.2 | 113.2 | 113.0 | 112.5 | 113.0 | 114.2 |
| 125.2 | 120.6 | 125.7 | 124.9 | 120.9 | 112.0 | 110.6 | 106.7 | 112.6 | 113.3 | 112.2 | 112.9 | 116.2 |
| 124.7 | 120.6 | 126.0 | 122.6 | 121.3 | 109.5 | 111.0 | 107.3 | 111.9 | 113.6 | 112.1 | 112.9 | 116.2 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 574.7 | 568.9 | 578.1 | 581.1 | 577.6 | 568.0 | 563.6 | 578.4 | 572.3 | 573.7 | 574.0 | 575.0 | 568.7 |
| 575.2 | 564.3 | 578.0 | 580.0 | 577.0 | 566.0 | 563.7 | 575.6 | 571.4 | 574.3 | 573.0 | 573.9 | 562.3 |
| 576.0 | 566.0 | 576.6 | 580.0 | 576.5 | 564.5 | 564.0 | 577.8 | 571.6 | 574.5 | 573.8 | 573.9 | 564.6 |
| 575.3 | 567.5 | 578.1 | 580.0 | 576.4 | 564.5 | 564.7 | 573.9 | 570.4 | 574.5 | 573.8 | 573.6 | 566.3 |
| 575.4 | 569.4 | 577.5 | 576.9 | 575.5 | 565.3 | 564.7 | 571.7 | 570.3 | 574.4 | 574.0 | 574.6 | 567.9 |
| 575.1 | 572.4 | 575.9 | 577.0 | 575.1 | 563.4 | 569.7 | 570.6 | 570.5 | 574.4 | 573.3 | 574.0 | 567.9 |
| 572.3 | 574.3 | 576.1 | 574.2 | 575.5 | 563.4 | 571.5 | 570.6 | 571.0 | 573.9 | 572.2 | 573.8 | 566.0 |
| 572.2 | 577.8 | 576.0 | 574.4 | 577.5 | 566.3 | 576.0 | 570.6 | 571.1 | 573.3 | 573.0 | 574.0 | 565.9 |
| 570.9 | 582.3 | 577.4 | 575.5 | 574.9 | 566.1 | 575.5 | 572.5 | 568.6 | 572.9 | 576.1 | 574.9 | 565.6 |
| 569.9 | 584.6 | 577.2 | 576.0 | 572.6 | 565.6 | 578.0 | 572.9 | 570.8 | 572.9 | 577.0 | 574.0 | 567.5 |
| 570.3 | 584.0 | 581.5 | 579.1 | 567.5 | 565.0 | 576.5 | 572.0 | 572.1 | 573.0 | 575.4 | 572.3 | 569.9 |
| 569.3 | 580.5 | 580.8 | 579.9 | 567.5 | 563.6 | 577.8 | 568.6 | 573.1 | 574.0 | 575.8 | 572.0 | 572.0 |
| 45.5 | 45.5 | 45.5 | 45.5 | 45.4 | 45.0 | 45.5 | 46.0 | 46.6 | 47.0 | 47.2 | 47.0 | 46.8 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 89.8 | 88.0 | 83.9 | 87.0 | 90.3 | 89.9 | 86.9 | 88.3 | 87.0 | 87.3 | 88.4 | 89.9 | 89.6 |
| 89.8 | 88.0 | 83.9 | 87.0 | 90.3 | 91.7 | 88.3 | 87.5 | 87.0 | 87.3 | 87.9 | 89.4 | 89.6 |
| 89.8 | 87.4 | 86.2 | 87.0 | 90.3 | 93.2 | 88.4 | 87.2 | 87.0 | 87.3 | 87.7 | 89.4 | 89.8 |
| 89.6 | 87.2 | 86.2 | 87.2 | 89.5 | 87.9 | 87.7 | 88.5 | 87.0 | 87.3 | 87.4 | 89.6 | 89.8 |
| 89.6 | 87.2 | 86.2 | 87.6 | 89.5 | 88.5 | 88.1 | 87.6 | 87.0 | 87.3 | 87.4 | 89.4 | 90.7 |
| 89.3 | 87.0 | 86.5 | 87.6 | 89.5 | 88.5 | 88.8 | 87.3 | 87.0 | 87.3 | 87.7 | 90.2 | 92.3 |
| 89.3 | 85.9 | 86.5 | 89.0 | 90.9 | 88.5 | 87.7 | 87.5 | 87.9 | 87.1 | 87.7 | 90.4 | 92.3 |
| 88.6 | 85.9 | 86.5 | 89.0 | 90.9 | 88.5 | 88.5 | 88.7 | 87.9 | 86.7 | 87.7 | 90.4 | 92.3 |
| 88.0 | 85.9 | 88.3 | 89.5 | 90.2 | 89.0 | 88.8 | 89.0 | 87.1 | 86.7 | 90.0 | 90.3 | 92.3 |
| 88.0 | 85.2 | 88.3 | 89.5 | 90.2 | 89.7 | 87.2 | 88.2 | 87.9 | 86.9 | 90.0 | 90.3 | 93.2 |
| 88.4 | 85.2 | 88.3 | 91.3 | 89.9 | 89.0 | 87.2 | 88.2 | 87.5 | 86.9 | 90.5 | 89.9 | 93.1 |
| 88.4 | 83.8 | 88.3 | 90.2 | 89.9 | 88.2 | 86.9 | 88.2 | 88.3 | 86.9 | 90.1 | 89.6 | 93.1 |
| 47.0 | 46.9 | 46.6 | 46.6 | 46.6 | 45.8 | 46.5 | 46.8 | 46.8 | 47.4 | 47.8 | 47.6 | 47.2 ^a |

^a At 23^d 10^h Thermometer of H. F. 46.8; of V. F. 47.1.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|------------------|--|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 22 | 22 | 0 | 30.033 | 14.2 | 13.6 | N. E. | Very light. | Clear. |
| 23 | 0 | 0 | 30.035 | 14.8 | 14.2 | — | Calm. | Clear. |
| 23 | 0 | 0 | 30.028 | 18.6 | 18.0 | — | Calm. | Clear. |
| 1 | 0 | 0 | 30.016 | 18.3 | 17.6 | — | Calm. | Clear. |
| 2 | 0 | 0 | 30.000 | 22.8 | 21.8 | — | Calm. | Overspread with light cir. and haze. |
| 3 | 0 | 0 | 29.992 | 30.4 | 29.8 | E. by N. | Very light. | Overcast with cir.-cum. and haze. |
| 4 | 0 | 0 | 29.975 | 32.2 | 31.6 | E. by S. | Very light. | Overcast with cir.-cum. and haze. |
| 5 | 0 | 0 | 29.908 | 33.1 | 31.7 | E. | Very light. | Overcast with very light cir.-strat. and haze. |
| 6 | 0 | 0 | 29.865 | 35.6 | 32.1 | E. N. E. | Moderate. | Overcast with very light cir.-strat. and haze. |
| 7 | 0 | 0 | 29.829 | 34.8 | 32.4 | E. | Brisk with gusts | Overcast with very light cir.-strat. and haze. |
| 8 | 0 | 0 | 29.821 | 34.6 | 32.6 | E. | Brisk with gusts | Overcast with very light cir.-strat. and haze. |
| 9 | 0 | 0 | 29.815 | 35.0 | 33.0 | E. N. E. | Moderate. | Overcast with cir.-cum. and haze. |

| February 21st and 22nd. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | | |
|-------------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | | | | | | DECLINATION. | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 9 | 118.0 | 116.0 | 117.2 | 128.2 | 119.2 | 117.0 | 118.8 | 118.4 | 121.0 | 123.2 | 120.0 | |
| 5 | 0 | 119.1 | 116.0 | 117.4 | 125.0 | 119.0 | 117.0 | 119.0 | 118.1 | 121.0 | 122.3 | 119.7 | |
| 10 | 0 | 118.4 | 116.0 | 117.2 | 123.2 | 118.8 | 117.0 | 120.0 | 117.8 | 120.8 | 122.9 | 120.0 | |
| 15 | 0 | 118.4 | 118.3 | 116.7 | 124.6 | 117.8 | 116.0 | 120.5 | 117.0 | 118.0 | 123.4 | 120.1 | |
| 20 | 0 | 117.3 | 118.2 | 117.0 | 126.1 | 117.5 | 116.4 | 120.0 | 117.2 | 117.3 | 123.5 | 121.0 | |
| 25 | 0 | 117.2 | 118.2 | 115.5 | 127.3 | 117.2 | 117.8 | 123.3 | 117.5 | 117.5 | 120.4 | 119.0 | |
| 30 | 0 | 117.0 | 117.0 | 118.6 | 123.6 | 117.1 | 118.1 | 125.3 | 117.4 | 117.8 | 122.8 | 118.9 | |
| 35 | 0 | 116.2 | 116.0 | 118.0 | 119.2 | 117.0 | 118.2 | 122.4 | 117.6 | 118.1 | 122.7 | 120.2 | |
| 40 | 0 | 116.4 | 116.3 | 122.7 | 118.3 | 116.9 | 117.5 | 120.7 | 119.1 | 119.1 | 123.0 | 119.8 | |
| 45 | 0 | 116.0 | 117.2 | 126.0 | 119.2 | 116.7 | 117.1 | 119.7 | 119.6 | 119.5 | 122.5 | 120.0 | |
| 50 | 0 | 116.0 | 117.4 | 128.0 | 120.0 | 116.4 | 118.0 | 119.0 | 120.0 | 120.5 | 121.5 | 121.9 | |
| 55 | 0 | 116.0 | 117.2 | 127.2 | 120.1 | 118.0 | 118.1 | 119.1 | 120.9 | 123.1 | 121.5 | 122.7 | |

| | | One Scale Division = .000087 parts of the H. F. | | | | | | | | | | HORIZONTAL FORCE. | |
|----|----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|--|
| M. | S. | 571.7 | 565.6 | 561.6 | 572.4 | 564.9 | 569.2 | 564.2 | 571.2 | 567.0 | 569.9 | 566.2 | |
| 7 | 0 | 571.8 | 565.0 | 561.4 | 569.3 | 566.9 | 569.4 | 563.1 | 571.2 | 567.3 | 568.9 | 564.9 | |
| 12 | 0 | 573.7 | 564.8 | 561.6 | 567.0 | 568.4 | 568.8 | 562.8 | 570.1 | 568.1 | 567.0 | 565.7 | |
| 17 | 0 | 572.0 | 569.6 | 559.5 | 568.6 | 568.4 | 568.2 | 564.4 | 570.0 | 566.5 | 567.0 | 564.4 | |
| 22 | 0 | 571.6 | 570.0 | 559.6 | 565.0 | 568.5 | 568.0 | 565.4 | 570.0 | 565.0 | 565.3 | 565.9 | |
| 27 | 0 | 569.8 | 565.5 | 555.7 | 568.8 | 567.6 | 568.6 | 568.7 | 567.1 | 566.0 | 564.2 | 566.0 | |
| 32 | 0 | 567.5 | 563.6 | 557.6 | 570.3 | 567.3 | 569.0 | 573.8 | 567.4 | 565.6 | 562.3 | 566.0 | |
| 37 | 0 | 569.6 | 562.0 | 559.5 | 566.9 | 568.1 | 568.3 | 574.8 | 566.3 | 564.1 | 563.6 | 566.0 | |
| 42 | 0 | 568.0 | 559.6 | 561.7 | 563.1 | 567.1 | 567.2 | 577.0 | 566.3 | 564.8 | 563.0 | 566.0 | |
| 47 | 0 | 567.6 | 559.7 | 561.6 | 561.2 | 567.0 | 566.1 | 578.0 | 566.2 | 566.2 | 565.2 | 565.9 | |
| 52 | 0 | 567.8 | 559.5 | 561.4 | 561.6 | 568.0 | 564.4 | 573.6 | 566.0 | 567.0 | 564.8 | 566.0 | |
| 57 | 0 | 567.8 | 560.0 | 565.6 | 563.4 | 570.2 | 564.6 | 572.2 | 565.9 | 568.8 | 565.5 | 566.0 | |

| Thermometer | 52.7 | 53.0 | 53.2 | 52.2 | 53.0 | 53.0 | 53.0 | 53.0 | 52.5 | 52.5 | 52.2 | 52.0 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000063 parts of the V. F. | | | | | | | | | | VERTICAL FORCE. | |
|----|----|---|------|------|------|------|------|------|------|------|------|-----------------|--|
| M. | S. | 79.6 | 77.7 | 78.9 | 71.6 | 73.0 | 72.2 | 70.2 | 69.2 | 68.2 | 70.5 | 71.8 | |
| 8 | 0 | 79.6 | 77.4 | 79.2 | 71.7 | 73.0 | 72.2 | 70.0 | 69.2 | 68.4 | 70.5 | 71.8 | |
| 13 | 0 | 79.2 | 78.5 | 78.8 | 71.7 | 71.9 | 71.7 | 70.0 | 69.2 | 68.4 | 68.7 | 71.8 | |
| 18 | 0 | 79.5 | 78.2 | 77.0 | 71.8 | 71.9 | 71.7 | 70.0 | 68.2 | 68.8 | 68.7 | 71.7 | |
| 23 | 0 | 78.9 | 78.1 | 76.7 | 71.8 | 71.9 | 71.4 | 70.0 | 68.2 | 68.8 | 70.7 | 71.7 | |
| 28 | 0 | 78.6 | 78.2 | 74.7 | 71.8 | 71.9 | 71.4 | 70.0 | 68.2 | 70.0 | 70.7 | 71.7 | |
| 33 | 0 | 78.5 | 78.5 | 74.8 | 71.5 | 71.9 | 71.5 | 70.0 | 68.2 | 70.0 | 70.5 | 71.7 | |
| 38 | 0 | 77.7 | 78.5 | 74.8 | 71.5 | 72.1 | 69.9 | — | 67.7 | 70.0 | 70.5 | 71.6 | |
| 43 | 0 | 77.6 | 77.5 | 73.6 | 71.6 | 72.1 | 69.9 | 69.6 | 67.7 | 70.0 | 71.8 | 71.6 | |
| 48 | 0 | 77.6 | 76.8 | 73.8 | 71.9 | 72.1 | 69.9 | 69.2 | 68.2 | 69.1 | 71.8 | 71.6 | |
| 53 | 0 | 78.1 | 80.0 | 74.5 | 71.9 | 72.2 | 69.9 | 69.2 | 68.2 | 68.8 | 71.8 | 71.6 | |
| 58 | 0 | 78.1 | 79.4 | 72.4 | 71.9 | 72.2 | 69.9 | 69.2 | 68.2 | 70.5 | 72.1 | 70.7 | |

| Thermometer | 52.4 | 52.8 | 52.9 | 54.3 | 54.1 | 54.1 | 54.3 | 53.4 | 53.6 | 53.1 | 53.1 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather |
|----------------------|----|----|-------------------|---------------|------|------------|------------------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 21 | 10 | 0 | 29.463 | 44.0 | 40.4 | — | Calm. | Cir.-cum., interspersed with clear spaces. |
| | 11 | 0 | 29.491 | 43.2 | 39.4 | — | Calm. | Well-defined cir.-cum. scattered about; clear spaces. |
| | 12 | 0 | 29.509 | 42.8 | 39.0 | — | Calm. | Well-defined cir.-cum. scattered about; clear spaces. |
| | 13 | 0 | 29.512 | 43.0 | 39.4 | W. N. W. | Brisk with gusts | Zenith clear; cir.-cum. and cir.-strat. round horizon. |
| | 14 | 0 | 29.526 | 42.6 | 37.8 | W. N. W. | Light. | Light flexuous cir.-strat. scattered about; clear spaces. |
| | 15 | 0 | 29.548 | 39.6 | 37.0 | W. N. W. | Very light. | Clear, except light cir.-strat. in N. and S. |
| | 16 | 0 | 29.556 | 37.6 | 34.0 | W. N. W. | Very light. | Clear, except light cir.-strat. in N. and S. |
| | 17 | 0 | 29.550 | 37.8 | 35.0 | W. N. W. | Very light. | Overcast with cir.-cum. and cum.-strat. |
| | 18 | 0 | 29.576 | 39.8 | 36.4 | W. N. W. | Light. | A few cir.-cum. and cum.-strat. dispersed. |
| | 19 | 0 | 29.594 | 38.0 | 35.2 | — | Calm. | Overcast with cir.-cum. and cum.-strat. |
| | 20 | 0 | 29.625 | 38.2 | 35.2 | — | Calm. | Overcast with cir.-cum. and cum.-strat. |
| | 21 | 0 | 29.605 | 37.2 | 35.0 | — | Calm. | Densely overcast with haze. |

MAGNETICAL OBSERVATIONS.

February 21st and 22nd.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 124.0 | 114.1 | 121.0 | 125.3 | 122.1 | 121.0 | 120.9 | 119.8 | 114.4 | 110.0 | 110.0 | 110.2 | 113.0 |
| 125.2 | 114.9 | 121.9 | 124.1 | 121.3 | 118.4 | 120.0 | 119.5 | 113.7 | 110.8 | 110.0 | 110.4 | 112.2 |
| 126.0 | 116.4 | 122.7 | 124.0 | 118.8 | 120.3 | 120.9 | 118.2 | 114.1 | 111.0 | 110.0 | 110.9 | 111.8 |
| 124.6 | 115.0 | 122.8 | 123.9 | 118.0 | 122.2 | 122.7 | 118.0 | 113.9 | 114.3 | 110.7 | 111.7 | 112.0 |
| 120.0 | 115.8 | 123.3 | 123.9 | 118.4 | 121.0 | 122.9 | 115.4 | 114.1 | 111.4 | 110.9 | 112.2 | 112.8 |
| 117.8 | 116.9 | 124.1 | 121.3 | 118.2 | 120.4 | 121.3 | 115.3 | 113.5 | 111.2 | 111.9 | 112.1 | 112.9 |
| 116.7 | 117.0 | 122.7 | 121.8 | 119.0 | 121.0 | 119.1 | 116.1 | 112.9 | 111.1 | 112.0 | 112.0 | 112.9 |
| 115.2 | 117.0 | 120.0 | 122.0 | 118.6 | 121.4 | 119.8 | 115.1 | 110.9 | 110.9 | 112.0 | 112.0 | 113.2 |
| 114.8 | 119.0 | 122.3 | 122.2 | 118.3 | 122.0 | 119.3 | 112.8 | 110.5 | 114.0 | 111.6 | 112.7 | 114.0 |
| 116.0 | 120.3 | 121.0 | 122.2 | 120.3 | 122.3 | 118.5 | 112.7 | 110.3 | 111.0 | 112.0 | 112.4 | 114.0 |
| 117.0 | 119.8 | 122.9 | 122.1 | 120.0 | 124.7 | 118.4 | 113.0 | 110.0 | 111.0 | 111.0 | 112.5 | 114.9 |
| 114.7 | 119.7 | 124.1 | 122.2 | 121.4 | 122.7 | 120.0 | 112.9 | 109.9 | 110.1 | 110.0 | 113.0 | 115.0 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 564.9 | 565.5 | 568.0 | 573.7 | 565.0 | 564.6 | 556.7 | 549.2 | 537.4 | 551.9 | 560.3 | 571.9 | 568.6 |
| 563.3 | 566.0 | 567.8 | 571.0 | 563.1 | 562.0 | 556.6 | 547.2 | 536.2 | 553.7 | 560.0 | 571.9 | 571.2 |
| 561.2 | 565.5 | 567.9 | 569.1 | 563.6 | 560.6 | 555.9 | 545.1 | 540.2 | 555.7 | 561.8 | 569.5 | 570.1 |
| 561.0 | 564.4 | 567.4 | 568.6 | 563.6 | 561.6 | 553.2 | 542.2 | 543.2 | 556.8 | 562.8 | 566.2 | 567.2 |
| 557.0 | 564.5 | 567.2 | 570.0 | 563.5 | 562.7 | 552.3 | 543.1 | 542.9 | 558.8 | 562.0 | 565.2 | 564.9 |
| 557.0 | 564.4 | 569.5 | 566.9 | 561.5 | 561.6 | 551.9 | 544.4 | 546.3 | 559.7 | 562.1 | 567.2 | 564.0 |
| 559.9 | 564.0 | 570.1 | 566.5 | 562.7 | 559.6 | 556.0 | 541.9 | 545.0 | 560.7 | 563.5 | 568.2 | 561.1 |
| 561.9 | 564.4 | 566.9 | 566.6 | 563.7 | 560.7 | 555.3 | 544.8 | 547.0 | 560.8 | 564.7 | 565.9 | 561.4 |
| 563.9 | 565.7 | 573.3 | 566.9 | 562.7 | 559.6 | 551.9 | 539.8 | 548.3 | 562.1 | 565.2 | 567.5 | 562.9 |
| 564.0 | 567.7 | 570.2 | 566.5 | 563.5 | 556.5 | 554.9 | 538.5 | 549.8 | 563.6 | 567.0 | 568.2 | 563.1 |
| 566.6 | 568.4 | 570.0 | 566.5 | 561.7 | 556.7 | 548.3 | 537.7 | 549.6 | 564.1 | 569.1 | 566.8 | 563.3 |
| 562.9 | 568.0 | 571.5 | 566.0 | 562.5 | 557.8 | 549.8 | 538.0 | 549.9 | 562.2 | 571.8 | 566.2 | 565.3 |
| 52.0 | 52.0 | 52.0 | 52.5 | 52.4 | 52.6 | 52.8 | 53.0 | 53.0 | 53.0 | 53.2 | 53.5 | 53.4 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 69.9 | 65.4 | 70.4 | 72.4 | 73.4 | 74.5 | 74.2 | 71.1 | 71.2 | 73.4 | 72.3 | 74.3 | 74.9 |
| 69.1 | 66.3 | 70.4 | 71.7 | 74.1 | 74.4 | 74.2 | 71.1 | 71.2 | 73.4 | 73.4 | 74.9 | 75.3 |
| 68.4 | 66.3 | 71.2 | 71.7 | 74.0 | 74.5 | 73.1 | 71.1 | 71.9 | 73.4 | 73.0 | 74.7 | 75.3 |
| 68.4 | 66.9 | 71.5 | 72.3 | 74.0 | 74.5 | 73.1 | 70.7 | 73.4 | 73.2 | 72.0 | 73.8 | 74.6 |
| 67.2 | 66.9 | 71.5 | 72.3 | 74.7 | 74.2 | 73.0 | 70.7 | 73.4 | 73.2 | 72.3 | 73.8 | 74.6 |
| 67.2 | 66.9 | 72.9 | 72.3 | 74.2 | 74.6 | 72.7 | 70.6 | 73.4 | 73.2 | 72.6 | 73.8 | 74.6 |
| 66.0 | 66.9 | 72.9 | 72.9 | 73.9 | 74.0 | 72.6 | 70.7 | 73.4 | 73.2 | 72.4 | 73.8 | 74.6 |
| 66.8 | 68.3 | 72.9 | 72.9 | 73.8 | 74.4 | 73.1 | 69.7 | 73.2 | 73.2 | 73.0 | 74.6 | 74.6 |
| 66.8 | 69.3 | 72.9 | 72.9 | 75.6 | 73.8 | 73.1 | 70.9 | 73.2 | 74.1 | 73.0 | 74.6 | 75.7 |
| 66.8 | 69.7 | 72.9 | 73.4 | 74.5 | 73.8 | 73.1 | 70.7 | 73.4 | 73.9 | 73.5 | 74.7 | 75.7 |
| 66.3 | 69.7 | 72.9 | 73.4 | 74.5 | 73.8 | 72.1 | 70.7 | 73.4 | 73.9 | 74.3 | 74.6 | 75.7 |
| 65.4 | 70.4 | 72.4 | 73.4 | 74.0 | 73.8 | 72.1 | 70.7 | 73.4 | 73.2 | 74.3 | 74.6 | 75.7 |
| 53.2 | 53.2 | 53.1 | 53.0 | 53.0 | 52.5 | 52.7 | 52.7 | 53.1 | 53.3 | 53.1 | 53.2 | 53.5 ^a |

^a At 22^d 10^h Thermometer of H. F. 53.0; of V. F. 53.2.

METEOROLOGICAL OBSERVATIONS.

| Mean Götingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|---------------------|----|----|-------------------|---------------|------|------------|-------------|---|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 21 | 22 | 0 | 29.615 | 36.4 | 34.0 | — | Calm. | Densely overcast with haze. |
| | 23 | 0 | 29.623 | 36.4 | 34.0 | — | Calm. | Clouded cir.-cum. and haze. |
| 22 | 0 | 0 | 29.623 | 35.4 | 33.4 | — | Calm. | Clouded cir.-cum. and haze. |
| | 1 | 0 | 29.641 | 35.6 | 33.4 | — | Calm. | Clouded cir.-cum. and cir.-strat. |
| | 2 | 0 | 29.675 | 36.4 | 34.2 | — | Calm. | Clouded with dense cir.-cum. and haze. |
| | 3 | 0 | 29.675 | 38.9 | 36.8 | — | Calm. | Overcast with cir.-cum., cir.-strat., and haze. |
| | 4 | 0 | 29.675 | 39.9 | — | — | Calm. | Overcast with cir.-cum., cir.-strat., and haze. |
| | 5 | 0 | 29.672 | 40.6 | — | — | Calm. | Overcast with cir.-cum., cir.-strat., and haze. |
| | 6 | 0 | 29.658 | 41.7 | 40.6 | — | Calm. | Overcast with cir.-cum., cir.-strat., and haze. |
| | 7 | 0 | 29.628 | 41.1 | 39.6 | — | Calm. | Overcast with dense haze. |
| | 8 | 0 | 29.638 | 41.1 | 39.6 | — | Calm. | Overcast with dense haze. |
| | 9 | 0 | 29.616 | 40.1 | 39.6 | E. | Very light. | Overcast with cir.-strat. and haze. |

| March 19th and 20th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0°.721. | | | | | | DECLINATION. | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 108.5 | 114.7 | 116.5 | 125.2 | 127.8 | 132.4 | 124.4 | 121.1 | 112.8 | 122.0 | 120.2 |
| 5 | 0 | | 109.2 | 119.7 | 117.4 | 123.3 | 123.0 | 128.8 | 124.7 | 124.0 | 112.2 | 123.9 | 120.0 |
| 10 | 0 | | 110.0 | 122.5 | 116.4 | 121.1 | 125.0 | 125.1 | 120.0 | 125.0 | 113.2 | 123.5 | 119.5 |
| 15 | 0 | | 110.3 | 121.7 | 118.0 | 120.2 | 124.8 | 126.0 | 124.1 | 125.7 | 115.0 | 122.4 | 119.8 |
| 20 | 0 | | 111.2 | 119.6 | 118.9 | 120.7 | 124.7 | 124.8 | 122.0 | 125.7 | 118.0 | 121.0 | 120.0 |
| 25 | 0 | | 110.9 | 118.0 | 118.3 | 120.7 | 123.8 | 123.7 | 121.0 | 124.2 | 120.4 | 120.2 | 121.3 |
| 30 | 0 | | 111.0 | 116.8 | 122.0 | 120.9 | 121.8 | 120.1 | 119.6 | 123.9 | 122.0 | 120.3 | 122.2 |
| 35 | 0 | | 111.2 | 115.6 | 125.9 | 120.8 | 118.6 | 121.0 | 120.6 | 122.1 | 123.0 | 121.2 | 123.3 |
| 40 | 0 | | 112.0 | 115.0 | 131.2 | 120.9 | 117.1 | 123.3 | 119.0 | 120.5 | 122.0 | 122.6 | 123.0 |
| 45 | 0 | | 111.0 | 115.5 | 133.2 | 121.0 | 120.1 | 127.1 | 116.9 | 117.1 | 121.0 | 123.4 | 122.7 |
| 50 | 0 | | 111.0 | 115.0 | 133.4 | 126.0 | 126.6 | 126.6 | 117.6 | 116.4 | 121.0 | 123.4 | 123.2 |
| 55 | 0 | | 112.4 | 114.0 | 126.8 | 131.3 | 133.0 | 125.1 | 120.0 | 114.1 | 122.0 | 121.6 | 124.0 |

| | | | One Scale Division = .000087 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
|----|----|--|---|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 578.3 | 573.8 | 575.4 | 582.0 | 563.1 | 584.0 | 563.3 | 571.8 | 566.5 | 570.9 | 582.6 |
| 7 | 0 | | 574.1 | 575.9 | 577.0 | 581.6 | 559.0 | 586.6 | 566.7 | 577.0 | 570.1 | 574.9 | 582.6 |
| 12 | 0 | | 575.7 | 584.4 | 576.1 | 578.2 | 559.0 | 581.5 | 569.0 | 570.3 | 570.8 | 576.7 | 583.0 |
| 17 | 0 | | 582.1 | 586.9 | 574.9 | 575.9 | 565.5 | 580.2 | 567.1 | 569.5 | 562.7 | 579.8 | 582.6 |
| 22 | 0 | | 585.7 | 586.8 | 572.9 | 574.5 | 567.9 | 583.0 | 566.6 | 569.0 | 559.2 | 579.6 | 582.6 |
| 27 | 0 | | 588.0 | 586.5 | 569.6 | 573.5 | 570.5 | 579.5 | 567.6 | 567.1 | 569.0 | 583.8 | 582.6 |
| 32 | 0 | | 588.1 | 586.3 | 568.8 | 566.4 | 572.0 | 575.1 | 566.5 | 566.6 | 568.0 | 584.6 | 582.7 |
| 37 | 0 | | 589.0 | 583.6 | 569.9 | 562.5 | 573.7 | 568.9 | 570.6 | 567.4 | 567.1 | 584.6 | 583.5 |
| 42 | 0 | | 589.1 | 580.4 | 572.3 | 561.3 | 570.5 | 566.2 | 573.0 | 568.3 | 571.0 | 584.5 | 582.6 |
| 47 | 0 | | 584.2 | 580.6 | 578.0 | 558.9 | 570.0 | 567.0 | 572.3 | 567.5 | 571.8 | 584.0 | 582.6 |
| 52 | 0 | | 583.3 | 581.8 | 585.7 | 553.0 | 574.6 | 567.8 | 570.8 | 568.7 | 570.0 | 584.7 | 582.5 |
| 57 | 0 | | 576.3 | 575.7 | 581.6 | 559.9 | 582.7 | 563.9 | 571.0 | 569.5 | 574.6 | 583.7 | 582.0 |

| Thermometer | | | 41.0 | 40.9 | 41.0 | 40.8 | 40.9 | 40.9 | 41.0 | 42.0 | 42.0 | 42.0 | 41.8 |
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|

| | | | One Scale Division = .000063 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | |
|----|----|--|---|-------|------|------|------|------|-----------------|------|------|------|------|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 98.8 | 99.0 | 98.0 | 95.0 | 94.9 | 89.1 | 91.3 | 90.5 | 79.5 | 82.1 | 89.5 |
| 8 | 0 | | 97.9 | 100.6 | 98.0 | 94.4 | 94.9 | 89.1 | 92.7 | 90.5 | 80.8 | 84.1 | 89.5 |
| 13 | 0 | | 97.9 | 101.2 | 98.0 | 94.4 | 94.9 | 89.1 | 93.6 | 90.5 | 81.2 | 84.1 | 89.1 |
| 18 | 0 | | 99.1 | 100.7 | 97.2 | 94.4 | 94.2 | 89.1 | 92.6 | 89.5 | 81.2 | 84.1 | 90.2 |
| 23 | 0 | | 99.0 | 100.7 | 97.2 | 94.4 | 94.2 | 89.1 | 93.2 | 88.6 | 82.3 | 84.0 | 89.9 |
| 28 | 0 | | 99.2 | 100.7 | 97.2 | 94.4 | 93.5 | 89.1 | 93.2 | 88.6 | 86.2 | 85.5 | 89.9 |
| 33 | 0 | | 99.2 | 100.4 | 99.0 | 94.2 | 93.5 | 90.1 | 91.7 | 88.1 | 83.7 | 87.4 | 89.7 |
| 38 | 0 | | 99.2 | 99.5 | 99.0 | 94.8 | 95.4 | 89.6 | 91.7 | 89.2 | 82.1 | 89.5 | 90.4 |
| 43 | 0 | | 99.2 | 99.5 | 97.1 | 94.8 | 95.4 | 89.6 | 91.7 | 82.9 | 83.5 | 89.4 | 90.7 |
| 48 | 0 | | 99.2 | 99.5 | 97.1 | 96.7 | 95.8 | 90.9 | 91.7 | 82.8 | 83.5 | 89.6 | 90.7 |
| 53 | 0 | | 98.7 | 99.2 | 95.0 | 96.7 | 95.8 | 90.9 | 91.4 | 81.7 | 83.0 | 89.5 | 90.8 |
| 58 | 0 | | 98.7 | 98.8 | 95.0 | 96.7 | 92.3 | 91.3 | 91.4 | 81.7 | 84.3 | 90.0 | 91.6 |

| Thermometer | | | 40.8 | 40.9 | 41.4 | 42.2 | 42.3 | 42.1 | 42.4 | 43.1 | 43.1 | 43.0 | 42.6 |
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-----------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 19 | 10 | 0 | 29.456 | 24.2 | 20.9 | N. W. | Mod. with gusts | Overcast; cir.-cum. and haze; occasional slight snow. |
| | 11 | 0 | 29.481 | 23.2 | 20.5 | N. N. W. | Mod. with gusts | Overcast; cir.-cum. and haze; occasional slight snow. |
| | 12 | 0 | 29.499 | 22.0 | 20.5 | N. N. W. | Mod. with gusts | Overcast; cir.-cum. and haze; occasional slight snow. |
| | 13 | 0 | 29.526 | 21.2 | 19.4 | N. W. | Brisk. | Overcast; cum.-strat. and cir.-cum. |
| | 14 | 0 | 29.542 | 19.6 | 18.2 | W. N. W. | Fresh. | Overcast; cir.-cum. and cum.-strat.; a few clear spaces. |
| | 15 | 0 | 29.538 | 19.0 | 17.9 | W. by N. | Brisk. | Densely overcast; snowing slightly. |
| | 16 | 6 | 29.532 | 18.8 | 17.9 | W. by S. | Mod. with gusts | Overcast, dense haze; halo round the moon, diameter about 3°.5. |
| | 17 | 0 | 29.519 | 19.8 | 18.7 | W. by S. | Mod. with gusts | Overcast, dense haze; halo round the moon, diameter about 3°.5. |
| | 18 | 0 | 29.507 | 19.8 | 17.3 | W. by S. | Mod. with gusts | Overcast, cir. and haze; halo disappeared. |
| | 19 | 0 | 29.519 | 19.8 | 17.7 | W. | Mod. with gusts | Partially overcast; light cir. chiefly in W. |
| | 20 | 0 | 29.529 | 21.0 | 20.7 | W. | Mod. with gusts | Dense cir.-cum. and haze round horizon; remainder clear. |
| | 21 | 0 | 29.535 | 20.4 | 20.3 | W. by S. | Mod. with gusts | Cir.-cum., cir.-strat., and haze round horizon; remainder clear. |

MAGNETICAL OBSERVATIONS.

March 19th and 20th.

DECLINATION.

Angular Value of one Scale Division = 0'·721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 123·0 | 121·0 | 114·9 | 117·0 | 126·9 | 126·0 | 124·8 | 120·3 | 116·8 | 98·3 | 107·8 | 111·0 | 114·0 |
| 123·2 | 120·4 | 114·6 | 116·1 | 126·1 | 125·6 | 125·0 | 118·9 | 117·1 | 97·9 | 108·4 | 112·0 | 114·5 |
| 122·7 | 121·0 | 110·9 | 118·3 | 126·4 | 125·8 | 125·0 | 114·9 | 114·0 | 92·9 | 109·4 | 111·2 | 115·0 |
| 122·6 | 119·6 | 108·0 | 120·3 | 125·9 | 126·1 | 124·8 | 114·7 | 110·9 | 93·0 | 109·8 | 111·5 | 115·0 |
| 122·2 | 117·2 | 107·3 | 123·2 | 125·2 | 125·7 | 124·0 | 118·0 | 110·1 | 93·0 | 110·7 | 112·0 | 114·9 |
| 121·0 | 114·8 | 112·3 | 122·4 | 123·6 | 124·9 | 122·0 | 122·0 | 107·1 | 95·0 | 111·3 | 112·4 | 114·9 |
| 120·4 | 114·4 | 110·9 | 123·6 | 123·2 | 125·2 | 123·1 | 120·1 | 103·3 | 95·0 | 112·7 | 113·0 | 115·0 |
| 119·8 | 113·4 | 111·6 | 124·6 | 125·5 | 125·0 | 122·4 | 116·8 | 101·8 | 97·8 | 112·7 | 113·2 | 114·9 |
| 120·0 | 112·9 | 113·1 | 125·9 | 125·7 | 125·0 | 122·3 | 115·8 | 101·7 | 100·0 | 111·3 | 113·3 | 115·0 |
| 121·1 | 110·4 | 114·8 | 125·1 | 126·4 | 125·8 | 117·3 | 116·0 | 102·0 | 102·0 | 111·8 | 113·5 | 114·8 |
| 122·0 | 110·7 | 115·4 | 125·4 | 125·7 | 125·0 | 121·3 | 115·7 | 104·8 | 104·0 | 111·5 | 113·9 | 114·8 |
| 124·8 | 110·2 | 117·2 | 126·1 | 125·9 | 123·0 | 121·3 | 115·9 | 103·1 | 106·8 | 112·0 | 114·0 | 115·0 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = ·000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 581·6 | 581·6 | 570·4 | 597·6 | 595·5 | 589·1 | 580·1 | 577·2 | 553·7 | 545·0 | 572·8 | 579·3 | 580·2 |
| 580·6 | 579·5 | 579·4 | 597·2 | 593·2 | 587·6 | 580·4 | 581·0 | 550·5 | 551·4 | 575·0 | 578·2 | 578·0 |
| 580·8 | 578·5 | 588·9 | 598·4 | 592·5 | 585·8 | 580·0 | 580·1 | 551·1 | 558·0 | 576·1 | 577·1 | 576·7 |
| 582·4 | 572·0 | 589·8 | 597·9 | 590·9 | 587·2 | 580·0 | 574·9 | 551·0 | 562·1 | 575·4 | 577·5 | 575·9 |
| 584·5 | 570·7 | 585·9 | 598·9 | 590·6 | 585·7 | 581·7 | 570·9 | 546·0 | 563·1 | 575·6 | 577·7 | 576·4 |
| 587·8 | 569·7 | 591·6 | 598·1 | 589·0 | 584·0 | 576·6 | 569·7 | 540·3 | 564·8 | 573·5 | 578·3 | 576·3 |
| 589·6 | 565·8 | 589·7 | 597·0 | 587·5 | 584·4 | 577·9 | 569·9 | 539·7 | 565·7 | 582·0 | 580·2 | 577·2 |
| 589·7 | 565·9 | 589·5 | 594·3 | 591·3 | 584·0 | 571·7 | 566·0 | 536·8 | 564·6 | 589·3 | 581·2 | 577·0 |
| 589·6 | 570·9 | 591·4 | 596·0 | 590·7 | 582·0 | 581·3 | 563·9 | 533·0 | 567·6 | 588·5 | 583·8 | 577·2 |
| 589·7 | 566·0 | 592·0 | 596·3 | 591·5 | 582·9 | 572·8 | 561·8 | 526·4 | 570·0 | 582·5 | 586·4 | 576·9 |
| 586·0 | 562·2 | 592·6 | 594·3 | 590·4 | 584·1 | 574·8 | 558·8 | 527·5 | 572·5 | 581·6 | 583·0 | 576·6 |
| 585·6 | 567·5 | 596·6 | 595·4 | 588·8 | 580·8 | 574·2 | 554·6 | 543·3 | 573·9 | 582·3 | 582·4 | 576·2 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 41·6 | 41·2 | 41·4 | 40·8 | 41·2 | 41·5 | 42·0 | 42·4 | 44·0 | 44·2 | 43·5 | 44·2 | 44·2 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = ·00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90·6 | 90·1 | 92·9 | 89·3 | 92·6 | 92·9 | 92·5 | 90·1 | 86·5 | 90·0 | 89·4 | 89·6 | 89·8 |
| 90·6 | 90·1 | 93·9 | 89·3 | 92·9 | 92·9 | 92·5 | 91·3 | 86·5 | 91·7 | 89·2 | 89·6 | 89·1 |
| 91·5 | 89·5 | 94·4 | 89·3 | 92·9 | 92·6 | 92·5 | 90·9 | 86·5 | 90·4 | 89·2 | 89·6 | 89·1 |
| 91·3 | 87·2 | 94·3 | 89·3 | 93·0 | 92·6 | 92·5 | 89·4 | 86·5 | 90·2 | 89·4 | 89·6 | 89·1 |
| 92·8 | 87·2 | 93·6 | 89·3 | 93·0 | 92·6 | 92·5 | 88·1 | 86·5 | 89·2 | 88·7 | 89·6 | 89·1 |
| 93·5 | 85·5 | 93·6 | 89·3 | 93·9 | 92·6 | 91·1 | 87·9 | 86·5 | 89·4 | 88·7 | 89·6 | 89·9 |
| 93·5 | 85·5 | 93·3 | 90·5 | 93·9 | 92·6 | 91·1 | 88·6 | 87·4 | 88·5 | 90·3 | 89·6 | 89·9 |
| 93·1 | 87·4 | 93·3 | 91·2 | 93·9 | 92·6 | 90·0 | 88·3 | 87·4 | 88·6 | 92·5 | 90·0 | 89·9 |
| 93·2 | 87·6 | 90·5 | 91·4 | 93·9 | 92·6 | 91·7 | 88·1 | 87·4 | 88·6 | 91·8 | 90·0 | 89·9 |
| 93·0 | 87·6 | 90·0 | 91·4 | 93·4 | 92·6 | 90·2 | 87·6 | 86·4 | 89·4 | 89·8 | 90·0 | 89·5 |
| 92·1 | 86·1 | 90·0 | 92·6 | 93·4 | 92·6 | 90·1 | 87·2 | 87·9 | 89·2 | 90·1 | 89·8 | 89·5 |
| 91·8 | 86·1 | 89·3 | 92·6 | 93·4 | 92·6 | 90·1 | 86·5 | 90·0 | 89·2 | 89·6 | 89·8 | 89·7 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 42·4 | 42·6 | 42·6 | 42·6 | 41·8 | 42·1 | 41·8 | 42·6 | 43·8 | 44·1 | 44·4 | 44·0 | 44·0 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 20^h 10^m Thermometer of H. F. 44·4; of V. F. 44·2.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|------------|-----------|---|
| | | Dry. | Wet. | Direction. | Force. | |
| D. H. M. | In. | | | | | |
| 19 22 0 | 29·540 | 20·3 | 20·1 | W. S. W. | Moderate. | Light cir.-strat. and haze round horizon; zenith clear. |
| 23 0 | 29·565 | 23·8 | 22·1 | W. N. W. | Brisk. | Overcast with cir.-cum., cir.-strat. and haze. |
| 20 0 0 | 29·595 | 24·8 | 22·3 | W. N. W. | Moderate. | Generally overcast with light cir.-cum. and haze; clear spaces. |
| 1 0 | 29·605 | 25·8 | 23·1 | W. | Light. | Clouded with cir.-cum. and cum.-strat. |
| 2 0 | 29·623 | 26·9 | 23·9 | W. | Brisk. | Clouded with cir.-cum. and cum.-strat. |
| 3 0 | 29·645 | 27·8 | 24·3 | W. by N. | Moderate. | Clouded with cir.-cum. and cum. strat. |
| 4 0 | 29·671 | 30·0 | 27·2 | W. N. W. | Brisk. | Clouded with cir. cum. and cum.-strat. |
| 5 0 | 29·675 | 30·6 | 29·5 | W. by N. | Brisk. | Clouded; well-defined cum.-strat. |
| 6 0 | 29·578 | 31·2 | 27·4 | W. by N. | Brisk. | Clouded; well-defined cum.-strat. |
| 7 0 | 29·667 | 32·2 | 32·1 | W. | Moderate. | Overcast with cir.-cum., cir.-strat. and haze. |
| 8 0 | 29·696 | 31·4 | 28·1 | W. N. W. | Brisk. | Overcast with cir.-cum., cir.-strat. and haze. |
| 9 0 | 29·710 | 31·7 | 28·1 | W. N. W. | Moderate. | Overcast with cir.-cum., cir.-strat. and haze. |

| April 23rd and 24th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|---|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | | | | | | DECLINATION. | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | 105.6 | 112.2 | 116.0 | 117.1 | 116.2 | 117.0 | 119.0 | 117.3 | 117.4 | 120.6 | 116.2 | |
| 5 | 0 | 105.6 | 112.7 | 116.0 | 117.5 | 116.6 | 117.0 | 118.8 | 117.8 | 117.4 | 120.0 | 115.4 | |
| 10 | 0 | 106.3 | 113.0 | 116.2 | 117.4 | 116.1 | 116.5 | 118.0 | 118.0 | 117.8 | 119.0 | 113.7 | |
| 15 | 0 | 106.9 | 113.0 | 116.0 | 117.0 | 115.9 | 116.0 | 119.2 | 117.8 | 118.8 | 119.0 | 113.0 | |
| 20 | 0 | 108.1 | 113.4 | 116.6 | 117.0 | 115.0 | 117.0 | 119.7 | 117.2 | 119.8 | 118.8 | 109.2 | |
| 25 | 0 | 108.6 | 113.6 | 116.8 | 117.0 | 115.0 | 119.1 | 118.4 | 117.0 | 121.2 | 119.8 | 107.1 | |
| 30 | 0 | 109.0 | 113.8 | 116.1 | 117.2 | 115.5 | 121.0 | 117.2 | 117.0 | 122.0 | 119.2 | 107.2 | |
| 35 | 0 | 109.7 | 114.0 | 116.0 | 117.0 | 115.8 | 122.4 | 117.4 | 117.0 | 122.9 | 119.0 | 108.8 | |
| 40 | 0 | 110.0 | 114.0 | 115.9 | 117.0 | 115.9 | 121.8 | 117.2 | 117.0 | 122.8 | 118.9 | 109.7 | |
| 45 | 0 | 110.7 | 114.0 | 116.7 | 117.2 | 115.8 | 121.0 | 117.0 | 117.2 | 122.0 | 118.8 | 114.8 | |
| 50 | 0 | 111.0 | 115.0 | 117.1 | 118.0 | 116.9 | 120.8 | 118.0 | 117.7 | 121.8 | 118.0 | 116.0 | |
| 55 | 0 | 111.2 | 114.9 | 117.5 | 117.6 | 117.0 | 120.2 | 118.0 | 117.2 | 121.2 | 117.2 | 117.9 | |

| | | One Scale Division = .000087 parts of the H. F. | | | | | | | | | | HORIZONTAL FORCE. | |
|----|----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|--|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | 555.0 | 559.8 | 561.1 | 554.3 | 555.0 | 555.0 | 549.0 | 552.1 | 553.0 | 552.7 | 551.8 | |
| 7 | 0 | 554.4 | 557.0 | 561.0 | 555.7 | 555.0 | 554.0 | 548.5 | 552.7 | 553.0 | 552.5 | 551.8 | |
| 12 | 0 | 552.0 | 556.4 | 559.8 | 553.0 | 555.0 | 553.0 | 550.0 | 552.4 | 552.7 | 553.3 | 552.0 | |
| 17 | 0 | 556.8 | 556.7 | 559.5 | 553.5 | 552.0 | 551.8 | 549.6 | 552.3 | 555.6 | 553.7 | 551.8 | |
| 22 | 0 | 560.0 | 556.9 | 559.5 | 552.5 | 549.0 | 552.0 | 548.8 | 552.9 | 556.7 | 554.4 | 552.4 | |
| 27 | 0 | 559.2 | 559.6 | 559.0 | 554.0 | 549.0 | 551.5 | 550.0 | 553.1 | 558.1 | 554.9 | 553.0 | |
| 32 | 0 | 552.8 | 559.1 | 557.8 | 552.0 | 550.8 | 551.0 | 550.8 | 553.0 | 559.4 | 554.8 | 554.6 | |
| 37 | 0 | 551.4 | 551.8 | 553.8 | 551.0 | 552.0 | 549.0 | 553.5 | 553.0 | 557.8 | 555.0 | 557.2 | |
| 42 | 0 | 554.6 | 551.7 | 553.3 | 552.0 | 551.0 | 548.7 | 553.4 | 553.1 | 556.7 | 554.6 | 560.0 | |
| 47 | 0 | 550.0 | 559.5 | 556.5 | 555.3 | 558.0 | 548.1 | 552.9 | 553.0 | 555.6 | 554.2 | 561.5 | |
| 52 | 0 | 549.8 | 557.5 | 557.0 | 555.0 | 557.0 | 548.0 | 552.5 | 552.6 | 554.9 | 554.4 | 562.4 | |
| 57 | 0 | 552.8 | 558.1 | 557.0 | 555.0 | 556.0 | 548.8 | 552.4 | 552.9 | 553.4 | 555.0 | 560.1 | |

| Thermometer | | 63.4 | 63.2 | 63.0 | 63.0 | 62.7 | 63.0 | 63.0 | 63.0 | 62.5 | 62.4 | 62.4 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000062 parts of the V. F. | | | | | | | | | | VERTICAL FORCE. | |
|----|----|---|------|------|------|------|------|------|------|------|------|-----------------|--|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | 56.3 | 58.7 | 57.9 | 53.4 | 54.0 | 54.8 | 54.5 | 53.9 | 54.0 | 52.3 | 53.0 | |
| 8 | 0 | 56.3 | 58.3 | 57.9 | 53.4 | 54.4 | 54.8 | 54.5 | 53.9 | 54.0 | 52.7 | 53.0 | |
| 13 | 0 | 56.3 | 58.3 | 56.3 | 53.5 | 54.4 | 54.8 | 54.3 | 53.9 | 53.6 | 52.9 | 53.0 | |
| 18 | 0 | 57.2 | 58.0 | 56.3 | 53.6 | 54.4 | 54.8 | 54.1 | 53.9 | 52.8 | 53.0 | 53.0 | |
| 23 | 0 | 57.6 | 58.0 | 54.9 | 53.6 | 54.4 | 54.8 | 54.9 | 54.0 | 53.1 | 53.0 | 52.9 | |
| 28 | 0 | 57.6 | 58.0 | 54.9 | 53.6 | 54.4 | 54.8 | 54.6 | 54.2 | 51.5 | 53.0 | 52.9 | |
| 33 | 0 | 56.7 | 58.0 | 53.9 | 53.6 | 54.4 | 54.8 | 55.0 | 54.0 | 51.6 | 53.0 | 52.7 | |
| 38 | 0 | 56.5 | 56.9 | 53.9 | 53.6 | 54.4 | 54.0 | 55.0 | 53.8 | 50.8 | 53.0 | 52.7 | |
| 43 | 0 | 57.1 | 56.9 | 54.2 | 53.6 | 54.4 | 54.0 | — | 53.6 | 50.8 | 53.0 | 52.7 | |
| 48 | 0 | 57.1 | 56.7 | 54.2 | 53.6 | 55.4 | 55.5 | 55.6 | 53.4 | 51.1 | 53.0 | 52.6 | |
| 53 | 0 | 57.1 | 57.9 | 54.1 | 54.0 | 54.8 | 54.5 | 55.6 | 53.6 | 51.3 | 53.0 | 51.4 | |
| 58 | 0 | 57.9 | 57.9 | 54.1 | 54.0 | 54.8 | 54.5 | 55.6 | 53.6 | 51.9 | 53.0 | 49.9 | |

| Thermometer | | 61.7 | 61.7 | 62.1 | 62.8 | 63.2 | 63.0 | 63.0 | 63.3 | 62.6 | 62.8 | 62.8 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 23 | 10 | 0 | 29.422 | 60.1 | 52.8 | E. N. E. | Light. | Overcast with cir.-cum., cir.-strat., and haze. [thunder in N. W. |
| | 11 | 0 | 29.417 | 58.5 | 51.6 | N. N. E. | Light. | Densely clouded; cum.-strat., cir.-cum., & haze; spitting rain; distant |
| | 12 | 0 | 29.486 | 57.8 | 53.3 | S. W. | Moderate. | Densely clouded; cir.-cum.-strat. and cir.-cum.; raining; distant |
| | 13 | 0 | 29.496 | 50.3 | 48.9 | N. W. | Light. | Densely overcast; constant heavy rain. [thunder in W. and S.W. |
| | 14 | 0 | 29.466 | 53.8 | 52.9 | W. | Moderate. | Cir. and haze in E., remainder quite clear; ceased raining. |
| | 15 | 0 | 29.483 | 50.8 | 49.8 | S. S. E. | Light. | Clear round N. horizon, remainder overcast with light cir. and haze. |
| | 16 | 0 | 29.483 | 49.3 | 48.5 | S. S. E. | Very light. | Overcast with haze. |
| | 17 | 0 | 29.501 | 48.9 | 47.9 | S. S. E. | Very light. | Overcast dense haze; thick fog. |
| | 18 | 0 | 29.507 | 50.2 | 49.5 | W. N. W. | Very light. | Overcast with cir.-cum., cum.-strat., and haze. |
| | 19 | 0 | 29.508 | 53.8 | 53.1 | W. by N. | Very light. | Cir.-cum. and cum.-strat.; generally clear spaces in S. horizon. |
| | 20 | 0 | 29.516 | 54.0 | 52.5 | W. by N. | Very light. | Cir.-cum. and cum.-strat.; generally clear spaces in S. horizon. |
| | 21 | 0 | 29.522 | 53.0 | 51.2 | W. by N. | Very light. | Bank of cum.-strat. on S. horizon; fog rising from the ground. |

| MAGNETICAL OBSERVATIONS. | | | | | | | | | | | | |
|--------------------------|-------------------|-------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|
| April 23rd and 24th. | | | | | | | | | | | | |
| DECLINATION. | | | | | | Angular Value of one Scale Division = 0'.721. | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 119.0 | 119.2 | 121.0 | 124.2 | 127.2 | 128.0 | 122.8 | 124.9 | 111.2 | 109.0 | 101.1 | 102.3 | 105.5 |
| 119.5 | 119.0 | 121.7 | 124.0 | 127.2 | 127.1 | 124.0 | 123.4 | 110.0 | 109.0 | 100.8 | 102.4 | 105.9 |
| 119.6 | 118.4 | 122.0 | 123.2 | 126.8 | 128.0 | 126.0 | 122.0 | 112.2 | 109.0 | 101.0 | 102.4 | 105.9 |
| 119.4 | 117.8 | 122.2 | 123.1 | 127.3 | 128.7 | 126.1 | 121.0 | 112.0 | 108.4 | 101.2 | 102.4 | 106.0 |
| 119.6 | 117.9 | 122.4 | 124.8 | 128.4 | 128.1 | 127.1 | 120.0 | 112.2 | 107.4 | 101.7 | 103.0 | 106.1 |
| 119.4 | 118.2 | 122.2 | 126.0 | 128.3 | 127.1 | 127.0 | 119.0 | 112.6 | 105.1 | 101.0 | 103.2 | 106.7 |
| 119.2 | 119.4 | 122.2 | 127.2 | 129.0 | 127.5 | 126.8 | 116.0 | 112.7 | 103.4 | 101.4 | 103.2 | 107.0 |
| 118.8 | 119.2 | 122.2 | 127.2 | 129.5 | 127.6 | 127.8 | 115.2 | 112.0 | 102.5 | 101.0 | 103.8 | 107.6 |
| 118.4 | 119.4 | 122.7 | 127.2 | 128.8 | 126.0 | 126.9 | 114.7 | 111.4 | 101.9 | 100.8 | 104.0 | 108.0 |
| 118.8 | 119.7 | 123.0 | 127.0 | 129.0 | 124.9 | 127.1 | 114.6 | 110.5 | 101.5 | 101.3 | 104.7 | 108.4 |
| 118.8 | 119.4 | 122.7 | 127.2 | 128.2 | 126.0 | 130.1 | 113.0 | 109.2 | 101.6 | 101.8 | 104.7 | 108.7 |
| 118.4 | 119.7 | 123.0 | 127.4 | 128.5 | 126.0 | 126.8 | 111.5 | 110.0 | 101.2 | 102.4 | 105.0 | 108.9 |

| HORIZONTAL FORCE. | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Change in the Magnetic moment of the Bar for 1° Fahr. = .000234. | | | | | | | | | | | | |
| 558.6 | 556.8 | 560.8 | 559.4 | 559.8 | 558.9 | 555.5 | 536.3 | 536.8 | 533.6 | 537.4 | 548.6 | 549.5 |
| 558.4 | 557.2 | 559.6 | 559.0 | 557.8 | 557.1 | 552.0 | 537.7 | 536.7 | 537.6 | 537.9 | 548.7 | 551.0 |
| 558.0 | 558.4 | 558.6 | 558.8 | 557.8 | 554.9 | 552.0 | 537.6 | 539.8 | 536.5 | 540.0 | 551.1 | 551.9 |
| 557.3 | 558.0 | 559.5 | 559.3 | 556.7 | 556.0 | 532.0 | 536.5 | 540.5 | 533.9 | 539.8 | 549.5 | 552.8 |
| 557.9 | 558.3 | 559.0 | 560.4 | 557.0 | 555.1 | 550.0 | 536.0 | 539.6 | 536.5 | 540.0 | 549.8 | 550.4 |
| 558.0 | 557.8 | 558.6 | 560.0 | 557.5 | 557.0 | 549.5 | 538.8 | 538.8 | 537.2 | 540.3 | 552.4 | 549.5 |
| 557.6 | 557.4 | 558.4 | 558.4 | 556.4 | 555.0 | 544.8 | 538.7 | 536.7 | 538.9 | 539.7 | 551.5 | 548.3 |
| 558.2 | 557.8 | 559.5 | 559.6 | 557.2 | 558.6 | 542.5 | 538.8 | 534.4 | 537.0 | 541.3 | 551.7 | 549.5 |
| 558.2 | 557.4 | 559.6 | 558.8 | 558.0 | 560.0 | 538.5 | 539.5 | 537.7 | 533.8 | 540.9 | 550.8 | 552.5 |
| 559.5 | 556.5 | 559.6 | 560.0 | 558.0 | 556.3 | 537.5 | 537.6 | 537.5 | 533.8 | 544.5 | 552.1 | 550.9 |
| 558.6 | 557.3 | 558.7 | 559.5 | 558.0 | 555.5 | 535.6 | 539.8 | 536.0 | 532.1 | 544.2 | 551.8 | 550.6 |
| 559.0 | 556.8 | 558.0 | 559.5 | 559.7 | 559.8 | 536.5 | 537.8 | 533.7 | 532.4 | 544.9 | 548.4 | 551.1 |
| 62.5 | 62.6 | 62.2 | 62.6 | 62.5 | 62.2 | 62.5 | 63.0 | 64.2 | 64.8 | 65.6 | 66.2 | 66.6 ^a |

| VERTICAL FORCE. | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| Change in the Magnetic moment of the Bar for 1° Fahr. = .00007. | | | | | | | | | | | | |
| 50.0 | 53.0 | 53.4 | 54.1 | 55.2 | 55.0 | 55.6 | 54.1 | 55.7 | 53.6 | 51.5 | 50.7 | 48.8 |
| 50.4 | 53.5 | 53.5 | 54.2 | 55.2 | 54.4 | 54.1 | 53.9 | 55.5 | 53.6 | 51.5 | 50.7 | 49.0 |
| 50.4 | 53.5 | 54.0 | 54.2 | 55.2 | 54.4 | 54.1 | 53.9 | 55.5 | 53.5 | 51.5 | 50.4 | 49.6 |
| 50.7 | 54.1 | 53.8 | 54.1 | 55.0 | 54.4 | 54.1 | 54.4 | 54.5 | 53.5 | 51.2 | 50.2 | 49.6 |
| 50.8 | 54.2 | 53.5 | 54.6 | 55.0 | 54.4 | 54.1 | 54.3 | 54.5 | 53.5 | 50.4 | 49.8 | 49.2 |
| 51.5 | 54.0 | 53.6 | 55.5 | 54.6 | 55.2 | 54.1 | 34.9 | 54.1 | 53.5 | 50.5 | 49.8 | 49.0 |
| 51.5 | 54.7 | 53.8 | 55.4 | 54.6 | 55.2 | 53.6 | 55.0 | 54.1 | 53.5 | 50.5 | 49.6 | 49.0 |
| 51.7 | 54.4 | 54.2 | 55.5 | 54.6 | 55.2 | 53.6 | 54.5 | 53.7 | 52.3 | 50.5 | 49.5 | 49.0 |
| 51.7 | 53.6 | 54.0 | 55.4 | 55.0 | 55.2 | 53.6 | 54.5 | 53.7 | 52.3 | 50.5 | 49.5 | 49.5 |
| 52.1 | 53.2 | 54.3 | 55.3 | 55.0 | 54.3 | 53.3 | 54.6 | 53.5 | 52.1 | 51.1 | 49.3 | 49.3 |
| 53.1 | 54.0 | 54.5 | 55.3 | 55.0 | 53.5 | 53.1 | 55.4 | 53.0 | 52.2 | 50.7 | 49.3 | 49.6 |
| 53.1 | 53.5 | 54.8 | 55.4 | 55.0 | 55.6 | 54.1 | 55.8 | 53.1 | 51.5 | 50.7 | 48.8 | 49.5 |
| 62.6 | 62.8 | 63.6 | 62.6 | 62.3 | 61.9 | 62.1 | 62.6 | 63.6 | 63.8 | 64.4 | 64.8 | 65.6 ^a |

^a At 24^h 10^h Thermometer of H. F. 66^o3; of V. F. 65^o6.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|-------------|--|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | |
| D. | H. | M. | In. | ° | ° | | | | | | | |
| 23 | 22 | 0 | 29.516 | 51.0 | 49.7 | S. W. | Very light. | Bank of cum.-strat. on S. horizon; fog rising from the ground. | | | | |
| | 23 | 0 | 29.530 | 50.2 | 49.5 | S. W. | Very light. | Overcast with haze; dense fog. | | | | |
| 24 | 0 | 0 | 29.550 | 50.1 | 50.1 | S. W. | Very light. | Overcast with haze; dense fog. | | | | |
| | 1 | 0 | 29.576 | 51.8 | 51.7 | — | Calm. | Overcast cir.-cum. and haze; fog on the ground. | | | | |
| | 2 | 0 | 29.590 | 54.8 | 54.6 | — | Calm. | Overcast with cir.-cum. and haze. | | | | |
| | 3 | 0 | 29.586 | 58.8 | 58.0 | S. by W. | Very light. | Overcast with cir.-cum. and haze. | | | | |
| | 4 | 0 | 29.593 | 61.1 | 59.7 | S. S. W. | Light. | Overcast with cir.-cum. and haze. | | | | |
| | 5 | 0 | 29.575 | 64.9 | 62.3 | S. S. E. | Light. | Overcast with cir.-cum. and haze. | | | | |
| | 6 | 0 | 29.569 | 66.2 | 63.0 | S. S. E. | Very light. | Overcast with cir.-cum. and haze. | | | | |
| | 7 | 0 | 29.548 | 66.3 | 62.8 | S. S. E. | Very light. | Overcast with cir.-cum., cum.-strat., and haze. | | | | |
| | 8 | 0 | 29.537 | 66.5 | 62.7 | N. N. E. | Very light. | Overcast with cir.-cum., cum.-strat., and haze. | | | | |
| | 9 | 0 | 29.541 | 66.5 | 62.5 | N. | Very light. | Overcast with cir.-cum., cum.-strat., and haze. | | | | |

| May 30th and 31st. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'·721. | | | | | DECLINATION. | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | | 114·0 | 114·0 | 113·0 | 115·7 | 110·8 | 115·2 | 113·4 | 126·4 | 116·3 | 118·6 | 97·6 |
| 5 | 0 | | 114·2 | 113·2 | 114·0 | 115·2 | 113·5 | 115·4 | 114·0 | 124·0 | 116·6 | 118·2 | 98·0 |
| 10 | 0 | | 114·0 | 113·2 | 114·7 | 115·0 | 114·0 | 115·2 | 112·4 | 122·3 | 117·0 | 117·9 | 99·4 |
| 15 | 0 | | 114·2 | 113·0 | 114·0 | 115·0 | 116·5 | 115·0 | 114·8 | 121·8 | 116·7 | 117·9 | 101·3 |
| 20 | 0 | | 114·2 | 112·6 | 113·6 | 116·3 | 117·6 | 115·0 | 114·5 | 121·0 | 117·0 | 117·4 | 102·8 |
| 25 | 0 | | 115·0 | 112·2 | 113·7 | 116·3 | 118·1 | 114·4 | 113·8 | 118·9 | 117·2 | 115·7 | 103·0 |
| 30 | 0 | | 114·7 | 112·0 | 114·0 | 115·9 | 118·1 | 114·4 | 112·7 | 116·8 | 117·7 | 114·8 | 104·8 |
| 35 | 0 | | 114·2 | 111·8 | 114·4 | 113·8 | 116·8 | 114·0 | 118·2 | 116·0 | 117·0 | 110·9 | 106·4 |
| 40 | 0 | | 114·2 | 111·2 | 114·8 | 112·6 | 116·4 | 114·0 | 122·1 | 115·0 | 117·0 | 108·8 | 110·0 |
| 45 | 0 | | 113·6 | 111·2 | 115·0 | 111·5 | 115·6 | 114·0 | 126·9 | 115·0 | 118·0 | 104·2 | 114·1 |
| 50 | 0 | | 114·0 | 111·7 | 115·8 | 110·0 | 115·6 | 113·0 | 129·9 | 115·3 | 118·1 | 100·0 | 117·5 |
| 55 | 0 | | 113·8 | 112·0 | 115·8 | 109·9 | 115·0 | 113·2 | 129·4 | 116·0 | 118·3 | 99·1 | 119·9 |

| | | One Scale Division = ·000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | | |
|----|----|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 583·6 | 575·5 | 559·2 | 559·8 | 557·1 | 553·2 | 556·5 | 564·5 | 561·9 | 560·0 | 565·6 |
| 7 | 0 | | 583·0 | 574·0 | 558·8 | 559·5 | 552·8 | 553·7 | 560·4 | 560·4 | 560·1 | 560·0 | 569·2 |
| 12 | 0 | | 587·0 | 573·8 | 559·8 | 560·4 | 550·8 | 554·6 | 560·9 | 558·6 | 561·0 | 560·0 | 569·4 |
| 17 | 0 | | 589·4 | 573·8 | 562·3 | 561·6 | 550·4 | 555·4 | 563·0 | 558·0 | 560·3 | 560·2 | 568·5 |
| 22 | 0 | | 590·4 | 571·8 | 560·0 | 562·1 | 551·7 | 556·7 | 564·2 | 557·8 | 559·9 | 560·0 | 569·4 |
| 27 | 0 | | 591·0 | 571·6 | 560·7 | 563·7 | 552·2 | 556·8 | 565·1 | 557·5 | 560·6 | 561·0 | 570·0 |
| 32 | 0 | | 583·0 | 571·5 | 560·7 | 565·8 | 552·9 | 556·5 | 561·9 | 557·1 | 560·3 | 563·2 | 573·0 |
| 37 | 0 | | 579·7 | 570·0 | 559·5 | 566·2 | 553·2 | 555·0 | 560·6 | 557·3 | 561·5 | 564·0 | 569·0 |
| 42 | 0 | | 578·8 | 569·7 | 559·8 | 562·5 | 553·0 | 555·6 | 560·5 | 556·8 | 560·2 | 565·1 | 567·1 |
| 47 | 0 | | 577·8 | 569·6 | 561·0 | 562·3 | 554·7 | 556·5 | 564·3 | 557·9 | 559·8 | 561·5 | 565·1 |
| 52 | 0 | | 577·0 | 567·8 | 562·8 | 559·9 | 555·0 | 556·8 | 569·5 | 559·0 | 560·2 | 559·3 | 563·4 |
| 57 | 0 | | 576·8 | 562·0 | 560·0 | 559·8 | 553·9 | 555·8 | 568·5 | 561·0 | 560·1 | 558·9 | 561·8 |

| Thermometer | | 57·0 | 58·0 | 58·6 | 58·0 | 57·5 | 57·2 | 57·0 | 56·8 | 56·5 | 56·4 | 56·0 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = ·000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | | |
|----|----|---|------|------|------|------|-----------------|------|------|------|------|------|------|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 73·2 | 71·3 | 71·6 | 70·3 | 67·3 | 68·1 | 67·8 | 59·0 | 63·5 | 63·3 | 50·9 |
| 8 | 0 | | 73·2 | 70·9 | 71·4 | 70·3 | 67·3 | 68·1 | 66·9 | 59·0 | 62·6 | 63·3 | 48·3 |
| 13 | 0 | | 74·4 | 70·8 | 71·4 | 70·1 | 67·8 | 68·1 | 67·3 | 59·9 | 62·6 | 64·1 | 46·5 |
| 18 | 0 | | 74·6 | 70·8 | 71·7 | 70·2 | 68·3 | 68·1 | 66·9 | 59·9 | 63·3 | 64·1 | 45·7 |
| 23 | 0 | | 74·3 | 71·0 | 71·0 | 70·3 | 68·3 | 68·1 | 66·6 | 61·3 | 63·3 | 62·7 | 45·9 |
| 28 | 0 | | 74·3 | 71·0 | 71·5 | 70·5 | 68·5 | 67·9 | 66·2 | 61·6 | 63·3 | 62·2 | 45·2 |
| 33 | 0 | | 72·9 | 71·0 | 71·2 | 70·5 | 68·5 | 67·9 | 66·2 | 62·6 | 63·1 | 61·2 | 46·5 |
| 38 | 0 | | 72·3 | 71·1 | 71·0 | 70·6 | 68·5 | 67·9 | 65·6 | 62·8 | 63·3 | 58·6 | 45·7 |
| 43 | 0 | | 72·3 | 71·1 | 71·0 | 69·5 | 68·5 | 67·9 | 64·9 | 62·8 | 63·3 | 57·0 | 44·8 |
| 48 | 0 | | 72·0 | 70·9 | 70·8 | 69·0 | 68·8 | 67·9 | 63·4 | 64·1 | 63·3 | 53·7 | 45·1 |
| 53 | 0 | | 72·0 | 71·8 | 70·9 | 68·4 | 68·0 | 67·8 | 61·4 | 64·4 | 63·3 | 52·7 | 45·1 |
| 58 | 0 | | 71·9 | 70·8 | 70·3 | 68·0 | 68·1 | 67·8 | 59·9 | 63·8 | 63·3 | 52·2 | 45·1 |

| Thermometer | | 55·9 | 56·9 | 58·0 | 57·8 | 57·7 | 58·1 | 57·7 | 58·1 | 57·9 | 57·5 | 57·2 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 30 | 10 | 0 | 29·915 | 54·5 | 49·1 | S. | Very light. | Clear. |
| | 11 | 0 | 29·897 | 54·2 | 47·8 | S. | Very light. | Clear. |
| | 12 | 0 | 29·894 | 51·4 | 46·1 | S. | Very light. | Clear. |
| | 13 | 0 | 29·895 | 47·3 | 44·1 | S. by W. | Very light. | Clear except light cir.; haze round horizon. |
| | 14 | 0 | 29·900 | 45·2 | 42·1 | S. | Very light. | Clear except light cir.; haze round horizon. |
| | 15 | 0 | 29·901 | 44·2 | 42·1 | S. by W. | Very light. | Clear except light cir. and haze in S. |
| | 16 | 0 | 29·896 | 41·7 | 40·3 | — | Calm. | Clear. |
| | 17 | 0 | 29·891 | 38·6 | 37·8 | — | Calm. | Clear. |
| | 18 | 0 | 29·892 | 36·4 | 35·5 | — | Calm. | Clear. |
| | 19 | 0 | 29·898 | 37·6 | 35·8 | N. N. W. | Very light. | Clear; faint auroral light. |
| | 20 | 0 | 29·899 | 39·2 | 37·6 | — | Calm. | Clear; faint auroral light. |
| | 21 | 0 | 29·899 | 36·2 | 35·6 | — | Calm. | Clear. |

MAGNETICAL OBSERVATIONS.

May 30th and 31st.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 122.0 | Sc. Div. 128.8 | Sc. Div. 127.0 | Sc. Div. 124.0 | Sc. Div. 131.0 | Sc. Div. 134.0 | Sc. Div. 124.8 | Sc. Div. 116.0 | Sc. Div. 109.8 | Sc. Div. 107.4 | Sc. Div. 107.7 | Sc. Div. 110.2 | Sc. Div. 113.6 |
| 124.0 | 129.4 | 121.1 | 125.8 | 130.0 | 134.3 | 125.0 | 115.6 | 110.8 | 106.0 | 107.8 | 110.2 | 114.0 |
| 123.2 | 130.0 | 118.7 | 126.2 | 129.0 | 135.0 | 124.3 | 114.9 | 111.7 | 105.0 | 108.0 | 110.0 | 114.0 |
| 124.2 | 130.0 | 118.0 | 128.5 | 129.3 | 134.0 | 122.3 | 114.6 | 110.8 | 104.1 | 108.5 | 110.2 | 114.1 |
| 124.7 | 130.0 | 114.0 | 132.8 | 127.0 | 134.2 | 119.6 | 115.0 | 109.8 | 104.5 | 109.1 | 110.7 | 114.2 |
| 124.0 | 131.7 | 109.1 | 133.0 | 124.2 | 131.7 | 118.0 | 114.2 | 109.0 | 104.8 | 110.2 | 111.7 | 114.8 |
| 125.8 | 132.0 | 109.0 | 133.0 | 126.3 | 130.0 | 117.5 | 114.0 | 109.2 | 105.3 | 111.0 | 112.0 | 115.2 |
| 126.0 | 133.0 | 109.1 | 131.8 | 127.3 | 128.5 | 117.4 | 112.4 | 111.2 | 106.0 | 112.0 | 112.8 | 115.2 |
| 123.7 | 134.5 | 110.7 | 132.3 | 126.0 | 128.5 | 115.8 | 108.9 | 112.9 | 106.9 | 112.0 | 113.0 | 116.0 |
| 124.7 | 132.5 | 115.0 | 132.9 | 126.2 | 128.2 | 114.1 | 109.2 | 112.9 | 107.3 | 111.9 | 113.9 | 115.1 |
| 125.7 | 130.3 | 117.6 | 132.0 | 131.5 | 126.0 | 114.8 | 108.0 | 111.2 | 107.2 | 111.0 | 114.1 | 116.2 |
| 127.0 | 129.0 | 121.2 | 129.8 | 125.0 | 125.2 | 116.2 | 109.0 | 109.0 | 107.3 | 111.6 | 114.0 | 117.0 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 559.8 | 562.8 | 564.5 | 564.5 | 566.0 | 577.0 | 567.4 | 557.9 | 540.3 | 544.7 | 548.0 | 559.0 | 557.5 |
| 559.0 | 563.1 | 556.0 | 564.5 | 568.0 | 576.8 | 566.5 | 558.1 | 542.5 | 545.1 | 548.0 | 559.0 | 558.0 |
| 555.6 | 563.0 | 554.8 | 562.5 | 563.5 | 575.3 | 566.3 | 556.9 | 550.4 | 543.7 | 547.9 | 559.0 | 560.0 |
| 553.8 | 563.5 | 554.5 | 565.5 | 565.9 | 570.0 | 570.3 | 554.8 | 552.6 | 542.1 | 548.0 | 557.9 | 561.0 |
| 553.5 | 567.0 | 552.0 | 565.5 | 565.6 | 559.6 | 570.8 | 552.8 | 549.7 | 541.4 | 548.9 | 557.7 | 560.0 |
| 553.0 | 570.0 | 552.8 | 563.5 | 557.6 | 560.5 | 570.6 | 553.9 | 548.1 | 542.0 | 553.3 | 558.0 | 561.0 |
| 555.6 | 571.0 | 554.5 | 561.5 | 544.9 | 563.6 | 565.7 | 552.9 | 542.0 | 541.1 | 551.8 | 558.0 | 560.0 |
| 559.0 | 570.0 | 560.0 | 562.5 | 554.5 | 563.6 | 566.0 | 559.0 | 540.3 | 541.0 | 555.0 | 558.0 | 560.0 |
| 559.5 | 570.0 | 564.0 | 566.0 | 557.8 | 567.8 | 567.0 | 554.7 | 540.4 | 541.5 | 553.3 | 559.3 | 560.0 |
| 563.1 | 570.0 | 568.0 | 567.3 | 567.4 | 570.3 | 563.3 | 551.5 | 541.3 | 544.4 | 554.7 | 557.8 | 560.0 |
| 561.9 | 568.4 | 568.5 | 567.0 | 573.8 | 570.5 | 561.1 | 542.9 | 544.0 | 545.8 | 557.8 | 558.6 | 561.0 |
| 561.0 | 567.5 | 571.0 | 565.5 | 575.4 | 568.0 | 559.9 | 538.8 | 544.3 | 547.8 | 558.5 | 560.0 | 559.0 |
| 55.9 | 55.2 | 54.0 | 54.5 | 55.0 | 56.0 | 56.6 | 57.6 | 58.2 | 58.7 | 59.6 | 60.5 | 61.5 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 45.1 | 51.5 | 60.5 | 47.8 | 51.4 | 50.5 | 51.6 | 51.6 | 56.4 | 60.0 | 62.0 | 62.5 | 60.9 |
| 45.7 | 51.5 | 60.5 | 47.8 | 51.4 | 50.5 | 51.9 | 51.6 | 56.4 | 60.0 | 62.0 | 62.5 | 60.9 |
| 44.7 | 52.1 | 58.6 | 48.8 | 50.7 | 50.5 | 52.1 | 53.0 | 58.2 | 60.0 | 62.0 | 62.5 | 61.7 |
| 45.4 | 52.7 | 58.1 | 50.0 | 50.7 | 50.4 | 52.1 | 53.0 | 59.4 | 60.7 | 62.0 | 62.1 | 61.7 |
| 46.0 | 53.9 | 56.5 | 50.7 | 50.7 | 50.5 | 52.1 | 53.0 | 59.2 | 60.7 | 62.0 | 62.1 | 61.6 |
| 46.0 | 53.9 | 56.5 | 50.7 | 48.8 | 52.7 | 53.3 | 53.9 | 59.0 | 60.8 | 62.0 | 62.1 | 61.6 |
| 51.2 | 55.0 | 56.4 | 50.7 | 49.4 | 52.7 | 53.3 | 54.7 | 58.4 | 60.7 | 62.3 | 61.9 | 61.6 |
| 51.2 | 56.0 | 55.1 | 51.6 | 52.7 | 52.7 | 53.2 | 54.7 | 57.8 | 60.7 | 62.0 | 61.5 | 61.6 |
| 51.2 | 57.9 | 52.6 | 52.3 | 52.2 | 53.1 | 53.2 | 56.0 | 57.8 | 60.7 | 62.0 | 61.9 | 61.6 |
| 52.0 | 58.5 | 49.8 | 52.5 | 50.4 | 53.4 | 53.2 | 56.0 | 59.2 | 62.1 | 62.8 | 61.7 | 61.6 |
| 52.0 | 59.9 | 49.8 | 51.9 | 49.8 | 52.8 | 53.2 | 55.8 | 59.2 | 62.1 | 62.8 | 61.7 | 61.2 |
| 51.5 | 60.5 | 49.8 | 51.9 | 48.1 | 52.1 | 53.2 | 55.0 | 59.2 | 62.1 | 62.5 | 61.4 | 60.9 |
| 56.9 | 56.8 | 55.3 | 55.3 | 55.8 | 56.3 | 56.8 | 57.9 | 58.6 | 58.8 | 59.2 | 59.1 | 60.0 ^a |

^a At 31^d 10^h Thermometer of H. F. 62°.5; of V. F. 60°.7.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | |
|----------------------|-------------------|---------------|------|------------|----------|-------------|--|
| | | Dry. | Wet. | Direction. | Force. | | |
| D. 30 | H. 22.0 | M. 29.911 | 34.6 | 33.9 | — | Calm. | Clear. |
| | 23.0 | 29.932 | 35.1 | 31.9 | — | Calm. | Clear. |
| 31 | 0.0 | 29.932 | 42.6 | 40.7 | S. S. W. | Very light. | Clear. |
| | 1.0 | 29.946 | 47.8 | 45.3 | S. S. W. | Very light. | Clear. |
| | 2.0 | 29.957 | 52.2 | 48.6 | S. | Very light. | Clear. |
| | 3.0 | 29.946 | 54.0 | 50.1 | S. | Very light. | Unclouded; hazy round horizon. |
| | 4.0 | 29.941 | 57.4 | 53.1 | S. | Very light. | Unclouded; hazy round horizon. |
| | 5.0 | 29.938 | 58.8 | 53.7 | S. | Very light. | Unclouded; hazy round horizon. |
| | 6.0 | 29.917 | 60.6 | 54.7 | S. | Very light. | Light flexuous cir. and cir.-strat. dispersed; fair. |
| | 7.0 | 29.888 | 62.8 | 55.9 | S. | Very light. | Light cir. generally dispersed. |
| | 8.0 | 29.870 | 63.2 | 56.4 | S. | Very light. | Light cir. generally dispersed. |
| | 9.0 | 29.855 | 61.3 | 55.9 | S. | Very light. | Unclouded, but hazy. |

| June 18th and 19th. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | | |
|----------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'·721. | | | | | | | | | | DECLINATION. | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 0 | 0 | 109·8 | 112·8 | 114·4 | 115·4 | 115·0 | 114·8 | 114·2 | 115·0 | 116·1 | 115·3 | 114·9 | |
| 5 | 0 | 110·0 | 113·0 | 114·8 | 115·4 | 115·0 | 114·7 | 114·2 | 115·0 | 116·2 | 115·0 | 114·2 | |
| 10 | 0 | 110·4 | 113·2 | 114·8 | 115·2 | 115·0 | 115·0 | 114·8 | 115·0 | 116·0 | 115·0 | 112·3 | |
| 15 | 0 | 110·4 | 113·4 | 114·8 | 115·0 | 115·0 | 115·0 | 114·3 | 114·9 | 116·2 | 115·2 | 111·0 | |
| 20 | 0 | 110·8 | 113·6 | 115·2 | 115·0 | 114·7 | 115·0 | 114·6 | 114·9 | 116·0 | 115·3 | 111·4 | |
| 25 | 0 | 111·0 | 113·6 | 115·0 | 115·0 | 114·5 | 114·8 | 114·6 | 114·5 | 116·1 | 115·4 | 112·8 | |
| 30 | 0 | 111·4 | 113·8 | 115·0 | 115·0 | 114·5 | 115·0 | 114·8 | 115·3 | 116·2 | 115·6 | 114·0 | |
| 35 | 0 | 111·6 | 114·0 | 115·0 | 115·0 | 114·2 | 115·0 | 115·0 | 116·0 | 116·8 | 115·3 | 114·7 | |
| 40 | 0 | 111·7 | 114·2 | 115·2 | 115·0 | 114·4 | 114·9 | 115·0 | 115·9 | 116·0 | 115·3 | 115·0 | |
| 45 | 0 | 112·2 | 114·4 | 115·4 | 115·0 | 114·5 | 114·8 | 115·0 | 115·6 | 116·0 | 115·0 | 115·3 | |
| 50 | 0 | 112·4 | 114·4 | 115·5 | 115·1 | 114·0 | 115·0 | 114·8 | 116·5 | 115·8 | 115·0 | 116·0 | |
| 55 | 0 | 112·6 | 114·4 | 115·7 | 115·0 | 114·2 | 114·8 | 115·0 | 116·6 | 115·7 | 114·3 | 116·6 | |

| | | One Scale Division = ·000087 parts of the H. F. | | | | | | | | | | HORIZONTAL FORCE. | |
|----|----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|--|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | 567·9 | 565·1 | 565·3 | 563·9 | 565·0 | 563·6 | 565·0 | 566·7 | 560·0 | 564·1 | 562·0 | |
| 7 | 0 | 567·2 | 565·8 | 564·2 | 564·0 | 566·0 | 564·4 | 565·3 | 568·0 | 560·8 | 565·0 | 562·5 | |
| 12 | 0 | 567·2 | 565·8 | 564·0 | 564·0 | 566·0 | 564·9 | 565·1 | 564·0 | 561·0 | 564·8 | 564·5 | |
| 17 | 0 | 566·0 | 565·3 | 562·1 | 563·4 | 565·2 | 564·8 | 565·7 | 564·8 | 561·2 | 563·0 | 563·0 | |
| 22 | 0 | 566·4 | 564·5 | 558·2 | 563·0 | 564·8 | 565·0 | 565·1 | 564·7 | 561·4 | 563·0 | 563·1 | |
| 27 | 0 | 566·2 | 562·3 | 557·6 | 564·0 | 565·0 | 565·1 | 566·0 | 563·9 | 561·3 | 563·0 | 564·0 | |
| 32 | 0 | 566·8 | 564·6 | 559·7 | 564·1 | 564·1 | 565·7 | 567·6 | 564·0 | 561·4 | 563·0 | 564·0 | |
| 37 | 0 | 565·7 | 563·8 | 560·2 | 563·9 | 564·7 | 566·0 | 567·8 | 565·9 | 561·4 | 563·0 | 564·0 | |
| 42 | 0 | 565·8 | 565·6 | 561·7 | 563·5 | 565·0 | 566·0 | 567·0 | 565·8 | 561·1 | 563·0 | 563·5 | |
| 47 | 0 | 563·1 | 565·1 | 563·7 | 564·3 | 561·8 | 565·5 | 566·4 | 565·8 | 561·2 | 563·3 | 564·0 | |
| 52 | 0 | 562·2 | 565·2 | 564·4 | 564·2 | 562·0 | 565·6 | 567·3 | 561·7 | 562·8 | 563·0 | 563·8 | |
| 57 | 0 | 564·4 | 565·2 | 563·8 | 564·2 | 563·0 | 565·6 | 567·0 | 560·9 | 563·0 | 563·0 | 565·0 | |

| Thermometer | | 66·0 | 66·2 | 66·2 | 66·0 | 65·4 | 65·2 | 65·0 | 64·7 | 64·5 | 64·2 | 63·5 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = ·000062 part of the V. F. | | | | | | | | | | VERTICAL FORCE. | |
|----|----|--|------|------|------|------|------|------|------|------|------|-----------------|--|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | 89·9 | 89·9 | 90·7 | 91·3 | 90·2 | 87·9 | 88·9 | 88·7 | 87·9 | 90·0 | 90·3 | |
| 8 | 0 | 89·9 | 90·7 | 90·7 | 91·4 | 90·2 | 87·9 | 88·9 | 88·7 | 87·9 | 90·3 | 90·5 | |
| 13 | 0 | 90·2 | 90·2 | 90·7 | 91·7 | 89·9 | 87·9 | 88·9 | 88·4 | 89·1 | 90·3 | 90·5 | |
| 18 | 0 | 90·5 | 90·2 | 90·7 | 91·2 | 89·9 | 87·9 | 89·1 | 88·4 | 89·1 | 90·3 | 90·3 | |
| 23 | 0 | 90·1 | 90·2 | 90·2 | 91·2 | 89·8 | 87·9 | 89·1 | 88·4 | 89·1 | 89·9 | 90·3 | |
| 28 | 0 | 90·1 | 90·2 | 90·3 | 91·2 | 89·6 | 87·9 | 89·1 | 88·4 | 89·1 | 89·9 | 89·8 | |
| 33 | 0 | 89·5 | 90·7 | 90·3 | 91·2 | 88·5 | 87·9 | 89·1 | 88·4 | 89·1 | 89·9 | 89·8 | |
| 38 | 0 | 89·5 | 90·7 | 91·7 | 91·2 | 88·5 | 87·9 | 89·1 | 88·5 | 88·8 | 90·2 | 89·8 | |
| 43 | 0 | 90·7 | 90·7 | 91·4 | 91·6 | 88·5 | 87·9 | 88·6 | 88·5 | 89·7 | 90·4 | 89·8 | |
| 48 | 0 | 89·3 | 90·7 | 91·4 | 92·3 | 87·9 | 87·8 | 88·6 | 88·5 | 89·7 | 90·4 | 90·0 | |
| 53 | 0 | 90·2 | 90·7 | 91·4 | 92·5 | 87·9 | 88·9 | 88·7 | 87·9 | 90·0 | 90·5 | 90·0 | |
| 58 | 0 | 89·9 | 90·7 | 91·4 | 90·2 | 87·9 | 88·9 | 88·7 | 87·9 | 90·0 | 90·1 | 90·0 | |

| Thermometer | | 64·8 | 65·0 | 65·2 | 64·8 | 65·6 | 66·4 | 66·3 | 65·6 | 65·6 | 64·9 | 64·6 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|-------------|-------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 18 | 10 | 0 | 29·786 | 66·7 | 60·4 | S. by W. | Very light. | Overcast with light cir.-cum., cir.-strat. and haze. [spaces. |
| | 11 | 0 | 29·771 | 64·5 | 58·2 | S. by W. | Light. | Generally overcast with light cir.-cum., cir.-strat. and haze; clear |
| | 12 | 0 | 29·769 | 61·3 | 56·3 | S. W. by S. | Very light. | Generally overcast with light cir.-cum., cir.-strat. and haze; clear |
| | 13 | 0 | 29·772 | 58·8 | 55·3 | W. S. W. | Very light. | Overcast with light cir.-cum., cir.-strat. and haze. [spaces. |
| | 14 | 0 | 29·778 | 56·8 | 53·7 | W. by S. | Very light. | Overcast with light cir.-cum., cir.-strat. and haze. |
| | 15 | 0 | 29·794 | 58·2 | 52·8 | W. | Very light. | Clear in N. horizon; remainder overcast; cir.-cum., cir.-strat. and haze |
| | 16 | 0 | 29·794 | 56·8 | 52·2 | — | Calm. | Clear in N.W.; remainder overcast; cir.-strat. and cir. |
| | 17 | 0 | 29·791 | 54·6 | 51·2 | — | Calm. | Overcast cir.-strat. and haze; clear spaces in N. |
| | 18 | 0 | 29·793 | 55·3 | 50·6 | N. W. by N. | Very light. | Generally overcast; cir.-strat. and haze. [about 30°. |
| | 19 | 0 | 29·806 | 54·7 | 49·6 | — | Calm. | Generally overcast cir.-strat.; imperfect halo round the moon, diameter |
| | 20 | 0 | 29·807 | 49·4 | 47·0 | — | Calm. | Clear and unclouded. |
| | 21 | 0 | 29·807 | 48·7 | 47·0 | — | Calm. | Cir. and cir.-cum. in W. and N.; remainder clear. |

MAGNETICAL OBSERVATIONS.

June 18th and 19th.

| DECLINATION. | | | | | | | | | | | | Angular Value of one Scale Division = 0' 721. |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 117.0 | 119.0 | 123.0 | 124.7 | 125.4 | 125.4 | 122.0 | 118.8 | 112.5 | 108.9 | 108.2 | 108.5 | 110.0 |
| 116.4 | 119.3 | 122.0 | 124.8 | 125.4 | 125.3 | 121.0 | 118.0 | 112.2 | 108.8 | 108.0 | 108.8 | 110.2 |
| 117.8 | 120.0 | 122.2 | 125.0 | 125.8 | 125.4 | 120.8 | 117.6 | 112.0 | 108.8 | 108.0 | 109.0 | 110.2 |
| 117.6 | 120.7 | 122.4 | 125.0 | 126.1 | 124.2 | 120.6 | 117.0 | 111.4 | 108.8 | 108.0 | 108.6 | 110.4 |
| 117.3 | 121.0 | 123.2 | 125.0 | 126.0 | 122.5 | 119.8 | 116.4 | 111.1 | 108.9 | 108.0 | 108.4 | 110.0 |
| 119.3 | 121.0 | 124.0 | 125.2 | 126.3 | 123.1 | 118.2 | 116.2 | 110.9 | 108.7 | 108.0 | 108.8 | 110.0 |
| 119.0 | 121.0 | 123.2 | 125.0 | 126.3 | 123.6 | 120.0 | 115.9 | 110.7 | 108.2 | 108.2 | 108.8 | 111.2 |
| 118.0 | 121.0 | 123.0 | 125.0 | 126.6 | 123.4 | 120.3 | 115.1 | 110.1 | 108.3 | 108.4 | 109.0 | 111.7 |
| 117.2 | 121.0 | 123.8 | 125.0 | 126.6 | 123.2 | 119.9 | 114.7 | 109.7 | 108.0 | 108.2 | 109.0 | 112.0 |
| 116.6 | 121.2 | 122.6 | 125.3 | 126.2 | 123.0 | 120.0 | 114.0 | 109.2 | 107.8 | 108.4 | 109.0 | 112.0 |
| 117.0 | 121.5 | 124.0 | 125.7 | 126.8 | 122.8 | 119.0 | 113.1 | 109.0 | 108.0 | 108.1 | 109.2 | 112.4 |
| 118.0 | 121.3 | 124.0 | 125.5 | 125.4 | 122.6 | 119.0 | 112.9 | 109.0 | 108.0 | 108.7 | 109.8 | 113.0 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 566.0 | 566.0 | 568.0 | 567.3 | 573.0 | 569.2 | 562.4 | 557.0 | 553.8 | 555.0 | 565.4 | 573.0 | 570.6 |
| 565.5 | 566.0 | 567.4 | 570.0 | 572.4 | 569.2 | 561.2 | 556.8 | 553.2 | 555.2 | 564.0 | 573.8 | 572.7 |
| 566.5 | 565.0 | 569.0 | 571.0 | 571.9 | 568.6 | 559.1 | 555.4 | 553.8 | 556.0 | 565.5 | 572.3 | 572.5 |
| 568.0 | 565.4 | 568.6 | 571.2 | 572.1 | 569.7 | 558.0 | 555.3 | 554.0 | 557.2 | 565.8 | 571.0 | 574.6 |
| 565.3 | 565.0 | 569.5 | 571.0 | 570.8 | 567.4 | 559.8 | 555.2 | 554.0 | 557.8 | 566.5 | 571.5 | 572.6 |
| 564.0 | 566.8 | 569.0 | 572.4 | 571.2 | 565.6 | 558.0 | 555.5 | 555.0 | 558.9 | 567.8 | 570.7 | 570.7 |
| 563.9 | 566.6 | 568.4 | 572.4 | 571.0 | 565.8 | 557.0 | 556.0 | 554.8 | 559.8 | 570.0 | 570.0 | 571.4 |
| 565.0 | 568.0 | 568.0 | 573.0 | 569.8 | 565.8 | 557.2 | 555.4 | 554.0 | 561.0 | 570.7 | 568.8 | 571.0 |
| 567.0 | 567.2 | 568.4 | 572.6 | 571.2 | 565.0 | 557.5 | 555.2 | 554.0 | 562.0 | 572.3 | 568.6 | 570.8 |
| 567.0 | 567.8 | 568.4 | 573.0 | 570.0 | 564.2 | 557.8 | 554.0 | 553.3 | 561.0 | 573.5 | 570.4 | 570.0 |
| 567.0 | 566.0 | 568.6 | 572.6 | 570.4 | 562.5 | 557.7 | 554.0 | 553.8 | 562.3 | 574.0 | 570.8 | 570.2 |
| 567.0 | 565.8 | 568.0 | 572.7 | 570.6 | 563.0 | 557.1 | 553.8 | 554.2 | 564.0 | 573.0 | 571.0 | 571.5 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 63.2 | 62.7 | 62.3 | 62.6 | 63.0 | 63.5 | 65.2 | 65.0 | 65.5 | 66.0 | 66.5 | 66.8 | 67.7 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.0 | 93.0 | 93.7 | 93.9 | 94.3 | 92.3 | 90.9 | 89.2 | 88.2 | 87.4 | 87.1 | 86.4 | 87.7 |
| 91.0 | 93.0 | 93.8 | 93.1 | 93.6 | 92.3 | 90.3 | 89.2 | 87.8 | 87.2 | 86.9 | 88.1 | 87.7 |
| 91.7 | 93.1 | 93.6 | 93.2 | 92.4 | 92.8 | 90.1 | 89.2 | 87.8 | 87.1 | 86.9 | 88.0 | 87.9 |
| 91.9 | 93.1 | 93.7 | 93.2 | 92.4 | 92.8 | 90.1 | 89.0 | 87.8 | 87.1 | 87.0 | 88.2 | 88.8 |
| 91.3 | 93.1 | 95.0 | 93.2 | 92.3 | 92.8 | 90.1 | 88.8 | 87.7 | 86.6 | 87.0 | 88.2 | 88.6 |
| 91.8 | 93.8 | 94.1 | 93.8 | 92.3 | 91.8 | 89.8 | 88.8 | 87.7 | 86.6 | 88.4 | 88.1 | 88.6 |
| 92.1 | 93.8 | 94.2 | 93.8 | 92.3 | 91.8 | 89.7 | 88.8 | 87.7 | 86.6 | 87.3 | 88.1 | 88.5 |
| 92.8 | 93.3 | 94.2 | 93.8 | 92.1 | 91.8 | 89.7 | 88.4 | 87.7 | 86.5 | 88.8 | 88.1 | 88.4 |
| 93.0 | 93.6 | 93.9 | 93.9 | 91.1 | 91.8 | 89.4 | 88.4 | 87.2 | 86.5 | 87.3 | 88.1 | 88.4 |
| 93.0 | 93.7 | 93.9 | 93.5 | 92.3 | 91.8 | 89.6 | 88.2 | 87.4 | 86.5 | 87.4 | 88.0 | 87.4 |
| 92.7 | 93.7 | 93.9 | 93.5 | 92.3 | 91.2 | 89.7 | 88.2 | 87.4 | 86.6 | 87.4 | 88.1 | 89.0 |
| 93.0 | 93.7 | 93.9 | 93.3 | 92.4 | 91.2 | 89.3 | 88.2 | 87.4 | 87.1 | 86.2 | 88.1 | 87.9 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 64.1 | 63.6 | 62.7 | 62.4 | 63.6 | 63.6 | 63.8 | 64.6 | 64.8 | 65.1 | 65.6 | 66.1 | 67.0 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 19^d 10^h Thermometer of H. F. 68.00; of V. F. 67.6.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|---|-------------------|---------------|------|-------------|-------------|---|
| | | | | Dry. | Wet. | Direction. | Force. | |
| 18 | 22 | 0 | 29.809 | 46.7 | 45.7 | — | Calm. | Cir.-cum. and haze general; a few clear spaces. |
| | 23 | 0 | 29.826 | 46.2 | 45.0 | — | Calm. | Cir.-cum. and cir.-strat. floating about. |
| 19 | 0 | 0 | 29.838 | 53.3 | 50.4 | — | Calm. | Cir.-cum. and cir.-strat. round horizon; remainder clear. |
| | 1 | 0 | 29.848 | 56.8 | 53.1 | — | Calm. | Unclouded, save range of cir.-strat. in S. horizon. |
| | 2 | 0 | 29.859 | 62.5 | 58.1 | S. W. | Very light. | Clear except light cir.-strat. and haze round horizon. |
| | 3 | 0 | 29.858 | 64.4 | 59.2 | S. W. by S. | Very light. | A few cir.-strat. in N. horizon; remainder clear. |
| | 4 | 0 | 29.870 | 66.6 | 61.1 | S. W. by S. | Very light. | Light cir.-cum. scattered round horizon; zenith clear. |
| | 5 | 0 | 29.875 | 67.6 | 62.2 | S. W. by S. | Very light. | A few cir.-cum. dispersed round horizon. |
| | 6 | 0 | 29.868 | 68.4 | 61.7 | S. S. W. | Very light. | Cir.-cum. dispersed round horizon. |
| | 7 | 0 | 29.857 | 69.4 | 61.6 | S. S. W. | Very light. | Unclouded; hazy round horizon. |
| | 8 | 0 | 29.849 | 70.0 | 61.3 | S. S. W. | Very light. | Clear and unclouded. |
| | 9 | 0 | 29.855 | 71.2 | 62.3 | S. by W. | Very light. | Unclouded. |

| July 23rd and 24th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | | DECLINATION. | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 108.6 | 112.4 | 115.8 | 117.4 | 115.8 | 116.0 | 121.8 | 119.7 | 124.2 | 120.0 | 114.6 |
| 5 | 0 | | 108.6 | 112.9 | 115.5 | 117.0 | 115.3 | 116.2 | 123.8 | 120.7 | 128.2 | 119.0 | 114.8 |
| 10 | 0 | | 109.0 | 113.0 | 115.6 | 117.0 | 115.6 | 116.0 | 125.0 | 118.0 | 130.6 | 118.1 | 115.2 |
| 15 | 0 | | 110.0 | 114.4 | 116.0 | 117.2 | 116.0 | 116.0 | 125.2 | 115.1 | 132.2 | 117.2 | 115.1 |
| 20 | 0 | | 110.2 | 113.1 | 116.4 | 116.8 | 115.8 | 116.2 | 124.9 | 115.8 | 132.0 | 116.0 | 115.0 |
| 25 | 0 | | 110.2 | 113.4 | 116.6 | 116.4 | 115.7 | 116.5 | 122.9 | 114.2 | 129.1 | 115.0 | 115.0 |
| 30 | 0 | | 110.7 | 114.2 | 116.9 | 116.0 | 115.2 | 116.6 | 121.2 | 112.0 | 126.2 | 114.7 | 115.0 |
| 35 | 0 | | 111.0 | 114.8 | 117.2 | 116.1 | 115.2 | 117.0 | 121.3 | 111.9 | 124.0 | 114.7 | 115.0 |
| 40 | 0 | | 111.2 | 115.0 | 117.0 | 116.2 | 115.0 | 117.4 | 120.8 | 111.3 | 122.3 | 114.0 | 115.0 |
| 45 | 0 | | 111.8 | 115.3 | 117.6 | 116.3 | 115.0 | 118.5 | 120.3 | 114.1 | 121.5 | 114.0 | 115.0 |
| 50 | 0 | | 112.1 | 115.4 | 117.9 | 117.0 | 116.0 | 119.0 | 120.0 | 116.2 | 120.6 | 114.1 | 114.8 |
| 55 | 0 | | 112.0 | 115.7 | 117.8 | 116.5 | 116.0 | 119.3 | 119.5 | 118.9 | 120.8 | 115.2 | 114.8 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
|----|----|---|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 553.0 | 554.2 | 549.7 | 552.0 | 555.0 | 560.0 | 543.1 | 547.2 | 544.3 | 550.6 | 557.0 |
| 7 | 0 | 550.2 | 551.4 | 548.7 | 551.5 | 554.8 | 558.0 | 541.2 | 548.0 | 546.9 | 551.2 | 556.0 |
| 12 | 0 | 549.6 | 551.9 | 546.6 | 553.0 | 556.1 | 557.1 | 539.0 | 548.0 | 550.0 | 554.0 | 555.9 |
| 17 | 0 | 551.1 | 550.3 | 544.7 | 555.0 | 556.2 | 558.3 | 538.7 | 548.2 | 551.1 | 555.0 | 556.0 |
| 22 | 0 | 552.0 | 550.8 | 544.5 | 554.0 | 556.7 | 558.2 | 539.8 | 545.0 | 554.0 | 555.0 | 556.0 |
| 27 | 0 | 553.0 | 550.6 | 544.6 | 553.6 | 557.0 | 558.2 | 541.1 | 544.0 | 554.2 | 555.0 | 556.0 |
| 32 | 0 | 552.6 | 552.6 | 546.7 | 554.4 | 557.0 | 558.0 | 542.0 | 540.8 | 557.0 | 555.0 | 556.0 |
| 37 | 0 | 548.5 | 554.3 | 546.8 | 554.1 | 557.0 | 558.0 | 543.0 | 539.1 | 554.7 | 557.0 | 555.0 |
| 42 | 0 | 551.3 | 553.2 | 546.8 | 554.0 | 556.1 | 556.6 | 545.1 | 540.2 | 552.2 | 557.0 | 554.0 |
| 47 | 0 | 551.7 | 554.0 | 548.8 | 555.0 | 557.0 | 556.4 | 546.5 | 541.9 | 552.0 | 555.2 | 555.0 |
| 52 | 0 | 552.8 | 552.2 | 548.7 | 556.7 | 559.6 | 555.0 | 546.0 | 543.1 | 548.8 | 554.5 | 556.0 |
| 57 | 0 | 553.0 | 550.9 | 551.5 | 556.0 | 560.0 | 547.3 | 546.9 | 541.9 | 549.0 | 556.4 | 556.0 |

| Thermometer | 72.6 | 72.4 | 72.3 | 73.0 | 71.5 | 71.2 | 70.8 | 71.0 | 70.5 | 70.5 | 70.2 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000062 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | |
|----|----|---|------|------|------|------|------|-----------------|------|------|------|------|
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 70.0 | 71.8 | 71.5 | 71.7 | 62.8 | 61.6 | 63.6 | 65.6 | 50.7 | 62.6 | 62.4 |
| 8 | 0 | 70.0 | 71.8 | 70.8 | 71.4 | 62.8 | 60.7 | 64.0 | 64.8 | 52.4 | 63.8 | 62.0 |
| 13 | 0 | 69.9 | 71.2 | 70.8 | 70.8 | 62.5 | 60.7 | 64.2 | 63.0 | 53.8 | 63.8 | 62.0 |
| 18 | 0 | 71.4 | 72.3 | 70.8 | 71.0 | 62.0 | 61.5 | 65.7 | 60.5 | 54.1 | 63.8 | 62.0 |
| 23 | 0 | 71.4 | 72.3 | 70.8 | 70.2 | 61.5 | 61.5 | 65.7 | 56.5 | 54.8 | 63.2 | 62.0 |
| 28 | 0 | 71.4 | 71.8 | 70.8 | 70.2 | 61.5 | 61.5 | 66.5 | 54.2 | 55.6 | 63.2 | 62.0 |
| 33 | 0 | 71.4 | 71.8 | 70.8 | 69.1 | 61.5 | 61.5 | 66.2 | 51.9 | 55.4 | 62.7 | 62.0 |
| 38 | 0 | 71.1 | 71.8 | 70.8 | 66.9 | 61.4 | 61.5 | 66.3 | 51.3 | 57.4 | 62.7 | 62.0 |
| 43 | 0 | 71.8 | 71.8 | 70.8 | 66.1 | 61.4 | 62.0 | 66.3 | 51.2 | 57.7 | 62.7 | 62.0 |
| 48 | 0 | 71.8 | 71.5 | 70.8 | 65.8 | 61.4 | 61.8 | 66.3 | 50.4 | 57.7 | 62.1 | 62.2 |
| 53 | 0 | 71.8 | 71.2 | 70.8 | 64.1 | 61.4 | 66.1 | 66.0 | 50.0 | 60.2 | 61.8 | 62.5 |
| 58 | 0 | 71.8 | 71.1 | 70.8 | 63.7 | 61.2 | 64.0 | 66.0 | 50.0 | 60.2 | 62.4 | 62.7 |

| Thermometer | 71.3 | 71.5 | 71.5 | 70.5 | 72.9 | 73.5 | 72.5 | 71.5 | 71.5 | 71.5 | 72.5 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|-----------|---|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | |
| D. | H. | M. | In. | ° | ° | | | | | | | |
| 23 | 10 | 0 | 29.579 | 66.7 | 60.7 | N. N. W. | Moderate. | Light cir.-strat. scattered about. | | | | |
| | 11 | 0 | 29.595 | 67.7 | 57.0 | N. N. W. | Brisk. | Light cir.; haze round horizon. [zenith clear. | | | | |
| | 12 | 0 | 29.599 | 67.1 | 54.8 | N. N. W. | Moderate. | Light cir.-cum. in W. and N. W.; cir. and haze round horizon. | | | | |
| | 13 | 0 | 29.603 | 65.3 | 56.0 | — | — | Cir.-cum. and cir.-strat. generally dispersed. | | | | |
| | 14 | 0 | 29.605 | 63.3 | 55.2 | — | — | Overcast; cum.-strat. and cir.-cum. | | | | |
| | 15 | 0 | 29.622 | 62.9 | 59.0 | N. W. | Light. | Overcast; cum.-strat. and cir.-cum. | | | | |
| | 16 | 0 | 29.622 | 61.2 | 54.2 | — | — | Densely clouded; cum.-strat. and cir.-cum. | | | | |
| | 17 | 0 | 29.614 | 59.4 | 54.1 | — | — | Generally overcast; cum.-strat. and cir.-cum. | | | | |
| | 18 | 0 | 29.608 | 56.3 | 53.2 | — | — | Generally overcast; cum. strat. and cir.-cum. | | | | |
| | 19 | 0 | 29.604 | 58.3 | 51.7 | — | — | Densely clouded; cum.-strat., cir.-cum., and haze. | | | | |
| | 20 | 0 | 29.605 | 57.0 | 52.2 | — | — | Clouded; cir.-cum. and haze. | | | | |
| | 21 | 0 | 29.585 | 58.3 | 52.2 | — | — | Clouded; cir.-cum. and haze. | | | | |

MAGNETICAL OBSERVATIONS.

July 23rd and 24th.

DECLINATION.

Angular Value of one Scale Division = 0'·721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 114·3 | Sc. Div. 114·8 | Sc. Div. 116·0 | Sc. Div. 119·0 | Sc. Div. 120·4 | Sc. Div. 120·4 | Sc. Div. 122·0 | Sc. Div. 117·0 | Sc. Div. 109·7 | Sc. Div. 108·0 | Sc. Div. 106·1 | Sc. Div. 106·7 | Sc. Div. 109·4 |
| 115·0 | 114·7 | 116·4 | 119·0 | 120·9 | 121·0 | 122·2 | 117·0 | 109·2 | 107·0 | 106·2 | 107·1 | 111·0 |
| 115·0 | 114·8 | 117·0 | 119·0 | 121·6 | 121·0 | 122·2 | 116·2 | 108·7 | 106·2 | 105·8 | 107·3 | 111·2 |
| 115·0 | 115·0 | 117·2 | 119·8 | 122·2 | 120·8 | 121·9 | 115·3 | 107·8 | 105·9 | 106·8 | 107·2 | 112·0 |
| 114·2 | 115·2 | 118·0 | 119·8 | 122·4 | 121·0 | 121·8 | 114·1 | 107·0 | 106·2 | 107·0 | 107·0 | 112·7 |
| 114·7 | 115·3 | 118·0 | 120·7 | 122·9 | 121·4 | 121·4 | 113·5 | 106·8 | 106·6 | 107·6 | 106·8 | 112·0 |
| 115·0 | 115·7 | 118·0 | 120·0 | 123·3 | 121·4 | 120·2 | 113·0 | 106·8 | 107·2 | 108·0 | 106·4 | 111·2 |
| 115·2 | 116·0 | 117·2 | 119·3 | 123·2 | 121·8 | 119·0 | 111·6 | 106·3 | 107·2 | 107·6 | 107·4 | 110·2 |
| 115·0 | 116·0 | 117·7 | 121·0 | 122·0 | 122·0 | 119·0 | 109·7 | 106·2 | 108·0 | 106·6 | 108·0 | 111·4 |
| 115·0 | 116·5 | 118·0 | 121·4 | 121·6 | 122·0 | 118·3 | 108·3 | 106·9 | 107·0 | 106·0 | 107·2 | 111·2 |
| 115·0 | 118·0 | 118·0 | 121·2 | 121·0 | 122·0 | 118·0 | 109·0 | 107·0 | 107·0 | 106·8 | 108·4 | 113·0 |
| 115·0 | 117·8 | 118·0 | 122·4 | 120·3 | 122·0 | 117·2 | 109·2 | 108·0 | 106·3 | 107·0 | 108·8 | 112·4 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = ·000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 556·0 | 558·0 | 562·0 | 555·7 | 552·2 | 549·8 | 543·8 | 525·2 | 535·8 | 553·8 | 556·0 | 566·0 | 566·0 |
| 556·0 | 558·0 | 561·8 | 557·0 | 554·2 | 551·2 | 542·5 | 526·0 | 537·0 | 554·1 | 557·0 | 566·7 | 566·0 |
| 556·0 | 558·2 | 561·7 | 556·5 | 554·5 | 551·7 | 541·2 | 527·0 | 538·7 | 554·5 | 560·0 | 567·0 | 564·0 |
| 558·0 | 558·0 | 561·4 | 558·0 | 553·8 | 553·8 | 539·9 | 529·1 | 541·9 | 555·6 | 561·0 | 566·0 | 569·8 |
| 557·8 | 557·8 | 561·0 | 557·6 | 553·9 | 552·5 | 538·9 | 530·8 | 541·0 | 558·4 | 561·8 | 566·0 | 569·5 |
| 557·0 | 556·8 | 560·8 | 556·0 | 551·3 | 552·2 | 538·2 | 531·7 | 542·0 | 559·0 | 561·6 | 566·9 | 572·3 |
| 556·1 | 558·0 | 557·8 | 555·8 | 548·9 | 553·7 | 536·2 | 532·5 | 545·2 | 561·2 | 562·5 | 566·9 | 572·3 |
| 558·0 | 557·8 | 558·0 | 555·9 | 549·0 | 548·9 | 531·2 | 533·7 | 548·9 | 560·8 | 562·7 | 566·8 | 573·6 |
| 558·0 | 560·2 | 558·0 | 556·8 | 547·9 | 547·8 | 532·0 | 535·1 | 548·4 | 561·0 | 564·0 | 566·0 | 573·0 |
| 558·0 | 560·0 | 558·7 | 556·0 | 549·4 | 547·2 | 531·0 | 534·0 | 549·0 | 558·0 | 566·9 | 562·0 | 565·8 |
| 558·0 | 560·2 | 558·0 | 553·7 | 549·0 | 546·0 | 528·8 | 534·0 | 550·5 | 557·0 | 567·3 | 561·8 | 567·3 |
| 558·0 | 560·8 | 558·4 | 554·4 | 549·2 | 545·3 | 525·4 | 534·7 | 551·0 | 556·0 | 565·9 | 561·6 | 570·8 |
| 70·0 | 69·5 | 69·2 | 69·2 | 68·5 | 68·0 | 67·8 | 68·0 | 68·0 | 68·2 | 68·6 | 69·0 | 70·0 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = ·00007.

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 62·7 | 66·3 | 68·0 | 67·6 | 70·1 | 74·1 | 74·7 | 73·8 | 75·1 | 74·4 | 77·7 | 80·2 | 80·1 |
| 62·7 | 66·3 | 67·5 | 68·0 | 71·6 | 74·4 | 76·0 | 73·3 | 75·2 | 74·4 | 77·5 | 80·5 | 80·2 |
| 62·8 | 66·3 | 67·3 | 68·0 | 72·3 | 74·4 | 75·1 | 73·4 | 75·2 | 75·5 | 77·5 | 80·5 | 79·6 |
| 62·8 | 66·3 | 66·7 | 68·2 | 72·8 | 74·4 | 75·1 | 73·8 | 76·1 | 75·5 | 77·5 | 80·5 | 79·6 |
| 63·4 | 66·3 | 66·4 | 69·3 | 71·9 | 74·4 | 75·1 | 75·4 | 74·8 | 75·9 | 78·0 | 80·5 | 80·9 |
| 63·4 | 66·3 | 66·4 | 70·1 | 71·9 | 74·4 | 75·0 | 75·8 | 74·8 | 75·9 | 78·0 | 80·5 | 81·7 |
| 64·3 | 66·3 | 66·9 | 70·9 | 74·0 | 74·2 | 75·0 | 75·8 | 74·3 | 78·2 | 78·0 | 80·5 | 81·7 |
| 65·1 | 66·3 | 66·9 | 70·9 | 74·0 | 74·6 | 73·9 | 75·3 | 74·5 | 77·2 | 79·0 | 80·5 | 82·0 |
| 65·7 | 66·3 | 66·9 | 70·9 | 74·6 | 74·6 | 73·7 | 75·9 | 74·5 | 77·2 | 78·9 | 80·1 | 82·0 |
| 65·7 | 66·3 | 66·9 | 72·0 | 74·0 | 75·1 | 73·7 | 74·3 | 74·1 | 77·2 | 80·1 | 80·1 | 81·7 |
| 66·3 | 66·3 | 67·1 | 71·8 | 74·0 | 75·3 | 73·4 | 75·1 | 74·3 | 77·2 | 80·1 | 80·1 | 83·3 |
| 66·7 | 67·1 | 67·1 | 70·1 | 74·0 | 75·3 | 74·3 | 75·1 | 76·2 | 77·2 | 79·9 | 80·1 | 84·4 |
| 72·5 | 71·6 | 71·1 | 71·0 | 68·8 | 68·5 | 68·2 | 68·3 | 68·1 | 68·1 | 68·6 | 68·7 | 69·3 ^a |

^a At 24^d 10^h Thermometer of H. F. 70°·6; of V. F. 69°·5.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|------------|----------|---|
| | | Dry. | Wet. | Direction. | Force. | |
| D. 23 | H. M. 22 0 | In. 29·592 | 57·8 | 52·9 | — | Calm. Clouded; cir.-cum. and haze. |
| 23 | 0 0 | 29·605 | 57·4 | 52·2 | — | Calm. Clouded; cir.-cum. and haze. |
| 24 | 0 0 | 29·611 | 57·8 | 54·2 | — | Calm. Clouded; cir.-cum. and haze; spitting rain. |
| 1 | 0 | 29·619 | 57·3 | 54·2 | — | Calm. Overcast; cir.-strat. and haze; slight spitting rain. |
| 2 | 0 | 29·615 | 57·6 | 54·4 | — | Calm. Overcast; cir.-strat. and haze; slight spitting rain. |
| 3 | 0 | 29·620 | 58·2 | 53·7 | — | Calm. Clouded; cum.-strat. and cir.-cum. |
| 4 | 0 | 29·638 | 59·8 | 55·2 | — | Calm. Clouded; cum.-strat. and cir.-cum. |
| 5 | 0 | 29·628 | 60·1 | 55·2 | N. | Light. Clouded; cum.-strat. and cir.-cum. |
| 6 | 0 | 29·613 | 62·9 | 56·1 | N. N. W. | Moderate. Clouded; cum.-strat. and cir.-cum; clear spaces. |
| 7 | 0 | 29·583 | 66·4 | 57·5 | N. W. | Moderate. Detached cum. and cir.-cum.; clear spaces. |
| 8 | 0 | 29·573 | 68·4 | 59·1 | N. N. W. | Moderate. Detached cum. and cir.-cum; clear spaces. |
| 9 | 0 | 29·568 | 70·2 | 59·5 | N. | Moderate. Detached cum. and cir.-cum.; clear spaces. |

| August 29th and 30th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-----------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | | DECLINATION. | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 99.0 | 109.8 | 114.0 | 124.8 | 109.1 | 123.7 | 118.0 | 122.0 | 105.0 | 110.0 | |
| 5 | 0 | | 100.0 | 109.4 | 116.8 | 124.1 | 112.0 | 120.4 | 118.8 | 112.3 | 124.8 | 102.0 | 117.2 |
| 10 | 0 | | 99.0 | 108.6 | 124.0 | 122.3 | 113.0 | 119.9 | 120.9 | 111.2 | 125.0 | 96.0 | 120.4 |
| 15 | 0 | | 96.0 | 110.3 | 130.8 | 122.2 | 111.5 | 122.6 | 126.4 | 110.2 | 126.0 | 89.0 | 115.9 |
| 20 | 0 | | 108.3 | 111.2 | 134.9 | 125.4 | 109.1 | 124.9 | 128.5 | 113.4 | 121.2 | 82.7 | 110.8 |
| 25 | 0 | | 119.1 | 110.8 | 133.8 | 125.1 | 110.2 | 124.0 | 127.0 | 115.2 | 112.0 | 81.5 | 109.7 |
| 30 | 0 | | 124.0 | 111.2 | 129.2 | 119.7 | 112.8 | 112.8 | 124.0 | 117.8 | 108.0 | 85.5 | 107.9 |
| 35 | 0 | | 119.5 | 110.3 | 129.1 | 115.3 | 115.1 | 106.0 | 124.8 | 118.0 | 108.4 | 89.6 | 104.9 |
| 40 | 0 | | 116.3 | 112.0 | 129.2 | 116.1 | 117.6 | 106.1 | 126.7 | 119.8 | 109.0 | 95.4 | 105.5 |
| 45 | 0 | | 112.0 | 112.8 | 127.9 | 116.7 | 115.7 | 111.7 | 125.0 | 117.0 | 111.0 | 98.6 | 110.0 |
| 50 | 0 | | 109.1 | 113.8 | 125.6 | 115.0 | 117.0 | 113.0 | 119.0 | 117.0 | 111.4 | 104.4 | 118.9 |
| 55 | 0 | | 110.6 | 114.5 | 124.2 | 113.8 | 121.2 | 116.0 | 115.0 | 118.2 | 109.5 | 107.4 | 128.8 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
|----|----|---|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 420.0 | 444.3 | 466.5 | 461.0 | 470.5 | 461.5 | 462.5 | 450.0 | 464.8 | 461.0 | 476.8 |
| 7 | 0 | 417.7 | 440.4 | 467.1 | 455.7 | 470.0 | 465.0 | 462.0 | 450.6 | 463.8 | 460.4 | 464.1 |
| 12 | 0 | 444.6 | 443.9 | 462.9 | 469.0 | 465.5 | 467.0 | 465.0 | 444.0 | 461.8 | 471.2 | 456.7 |
| 17 | 0 | 447.9 | 445.8 | 457.8 | 472.3 | 465.0 | 460.0 | 461.0 | 443.5 | 461.6 | 478.2 | 450.3 |
| 22 | 0 | 461.1 | 445.8 | 455.2 | 467.9 | 468.0 | 450.0 | 458.3 | 445.6 | 467.3 | 488.7 | 446.1 |
| 27 | 0 | 462.6 | 441.9 | 451.8 | 463.8 | 468.5 | 441.0 | 456.3 | 446.8 | 466.0 | 505.6 | 444.6 |
| 32 | 0 | 446.2 | 446.0 | 460.2 | 463.0 | 466.5 | 443.8 | 456.0 | 446.0 | 466.4 | 509.4 | 443.8 |
| 37 | 0 | 438.3 | 449.9 | 461.0 | 468.6 | 465.0 | 455.8 | 455.2 | 445.6 | 464.0 | 508.0 | 452.5 |
| 42 | 0 | 436.5 | 450.0 | 463.2 | 470.0 | 461.0 | 459.8 | 453.9 | 452.8 | 457.0 | 503.7 | 451.0 |
| 47 | 0 | 438.2 | 450.8 | 461.3 | 468.0 | 460.0 | 460.0 | 450.2 | 453.4 | 458.6 | 498.0 | 454.5 |
| 52 | 0 | 441.6 | 459.0 | 456.8 | 467.5 | 465.0 | 460.0 | 450.6 | 456.0 | 454.0 | 494.1 | 467.2 |
| 57 | 0 | 443.8 | 462.1 | 463.5 | 464.0 | 465.0 | 462.5 | 452.0 | 461.6 | 455.8 | 487.4 | 470.4 |

| Thermometer | 73.8 | 74.5 | 74.8 | 74.9 | 75.0 | 74.6 | 74.6 | 74.6 | 74.0 | 73.8 | 73.8 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = .000062 parts of the V. F. | | | | | | VERTICAL FORCE. | | | | |
|----|----|---|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|------|
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 173.0 | 145.5 | 142.5 | 136.2 | 135.8 | 122.4 | 123.4 | 113.6 | 105.9 | 106.0 | 80.5 |
| 8 | 0 | 170.7 | 145.5 | 142.5 | 135.4 | 135.8 | 122.2 | 123.4 | 113.8 | 106.7 | 105.6 | 84.2 |
| 13 | 0 | 174.1 | 145.1 | 142.6 | 135.8 | 134.0 | 125.7 | 123.8 | 118.5 | 106.7 | 104.6 | 89.1 |
| 18 | 0 | 171.6 | 144.7 | 142.6 | 137.1 | 134.0 | 126.4 | 123.8 | 118.5 | 106.7 | 85.1 | 92.6 |
| 23 | 0 | 162.6 | 144.3 | 142.6 | 138.2 | 134.5 | 124.5 | 121.3 | 119.2 | 106.7 | 82.1 | 95.9 |
| 28 | 0 | 156.2 | 144.3 | 138.8 | 138.2 | 134.5 | 118.7 | 121.0 | 119.2 | 104.5 | 74.1 | 96.9 |
| 33 | 0 | 157.9 | 143.5 | 139.1 | 138.9 | 133.4 | 116.1 | 118.4 | 119.2 | 104.7 | 70.7 | 92.4 |
| 38 | 0 | 151.2 | 143.5 | 138.9 | 139.5 | 132.4 | 116.1 | 114.6 | 120.2 | 104.7 | 68.4 | 89.1 |
| 43 | 0 | 150.0 | 142.9 | 136.6 | 138.9 | 130.3 | 118.9 | 114.2 | 116.6 | 111.6 | 69.2 | 87.7 |
| 48 | 0 | 149.0 | 142.9 | 138.1 | 138.1 | 128.4 | 120.9 | 111.8 | 116.2 | 113.6 | 70.9 | 86.4 |
| 53 | 0 | 147.6 | 142.5 | 137.7 | 137.0 | 128.0 | 122.7 | 111.4 | 112.8 | 113.6 | 71.7 | 84.3 |
| 58 | 0 | 145.5 | 142.5 | 137.7 | 137.0 | 126.6 | 123.4 | 108.5 | 112.8 | 113.6 | 78.1 | 84.5 |

| Thermometer | 72.5 | 73.1 | 73.3 | 74.7 | 75.4 | 75.5 | 75.5 | 75.3 | 74.1 | 74.1 | 74.1 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|-------------|---|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | |
| D. | H. | M. | In. | ° | ° | | | | | | |
| 29 | 10 | 0 | 29.535 | 77.4 | 71.6 | S. by E. | Very light. | Cum.-strat., cir.-cum., and haze; clouded. | | | |
| | 11 | 0 | 29.517 | 75.5 | 70.9 | S. by W. | Very light. | Densely clouded; cum.-strat., cir.-cum., and haze. | | | |
| | 12 | 0 | 29.514 | 74.4 | 70.0 | S. by W. | Very light. | Densely clouded; cum.-strat., cir.-cum., and haze. | | | |
| | 13 | 0 | 29.512 | 73.2 | 69.0 | — | Calm. | Densely clouded; cum.-strat., cir.-cum., and haze. | | | |
| | 14 | 0 | 29.506 | 73.0 | 68.5 | S. by W. | Very light. | Densely clouded; cum.-strat., cir.-cum., and haze; constant sheet lightning in S. W. and W.; began to rain at 45 minutes. | | | |
| | 15 | 0 | 29.533 | 70.5 | 66.9 | N. W. | Very light. | Densely clouded; very dark; raining constantly; heavy at intervals; lightning and occasional thunder. | | | |
| | 16 | 0 | 29.494 | 68.7 | 67.0 | S. by W. | Very light. | Densely clouded; constant rain; heavy at intervals; sheet lightning and distant thunder in N. | | | |
| | 17 | 0 | 29.494 | 69.1 | 67.7 | S. W. | Brisk. | Densely clouded; very dark; raining moderately and constantly; lightning and distant thunder in N. W. | | | |
| | 18 | 0 | 29.490 | 68.9 | 67.5 | S. W. | Brisk. | Densely clouded; very dark; raining moderately and constantly; occasional lightning and distant thunder. | | | |
| | 19 | 0 | 29.486 | 68.7 | 67.1 | S. W. | Moderate. | Densely clouded; very dark; constant moderate rain. | | | |

MAGNETICAL OBSERVATIONS.

August 29th and 30th.

DECLINATION.

Angular Value of one Scale Division = 0'·721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 131·8 | 108·0 | 119·0 | 126·6 | 122·0 | 120·6 | 115·0 | 108·2 | 107·8 | 102·2 | 99·6 | 103·2 | 107·2 |
| 121·5 | 108·2 | 118·1 | 126·8 | 122·3 | 117·7 | 114·0 | 108·4 | 106·0 | 107·4 | 98·3 | 103·3 | 107·4 |
| 117·9 | 108·6 | 118·0 | 124·6 | 123·7 | 115·1 | 113·1 | 108·4 | 106·0 | 108·4 | 99·1 | 104·1 | 108·2 |
| 98·8 | 112·0 | 121·0 | 126·0 | 123·8 | 115·3 | 113·0 | 109·3 | 107·0 | 102·8 | 101·0 | 104·4 | 108·0 |
| 89·2 | 112·2 | 123·2 | 126·4 | 123·1 | 116·0 | 112·0 | 109·3 | 105·2 | 101·7 | 102·2 | 105·0 | 107·7 |
| 89·3 | 114·8 | 122·0 | 126·0 | 123·8 | 117·3 | 112·0 | 108·9 | 104·0 | 101·2 | 100·8 | 105·5 | 108·2 |
| 91·8 | 117·0 | 123·7 | 126·5 | 122·2 | 116·9 | 111·3 | 108·0 | 108·0 | 100·2 | 101·6 | 105·8 | 108·0 |
| 94·0 | 117·8 | 124·6 | 124·6 | 121·8 | 116·2 | 111·5 | 108·0 | 102·2 | 99·4 | 102·4 | 105·9 | 108·3 |
| 95·8 | 120·2 | 124·0 | 124·0 | 123·0 | 116·0 | 112·0 | 108·0 | 100·4 | 99·0 | 103·0 | 106·1 | 108·0 |
| 97·1 | 119·4 | 125·0 | 123·0 | 122·8 | 115·0 | 111·0 | 107·0 | 103·0 | 98·6 | 103·0 | 106·8 | 110·5 |
| 101·4 | 118·8 | 124·0 | 122·3 | 122·3 | 114·9 | 110·3 | 107·2 | 102·2 | 98·5 | 103·0 | 107·4 | 112·4 |
| 104·0 | 120·0 | 121·6 | 122·2 | 121·7 | 114·0 | 109·8 | 107·0 | 102·8 | 98·2 | 102·9 | 107·1 | 112·3 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = ·000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 490·4 | 454·0 | 441·0 | 442·0 | 454·8 | 461·2 | 466·1 | 470·5 | 464·4 | 456·8 | 461·3 | 442·6 | 439·1 |
| 499·3 | 458·8 | 440·0 | 437·6 | 456·5 | 462·0 | 466·5 | 471·5 | 466·4 | 458·3 | 464·8 | 439·0 | 435·6 |
| 507·9 | 454·3 | 440·4 | 444·6 | 450·6 | 465·6 | 465·5 | 471·5 | 465·4 | 455·0 | 462·4 | 439·3 | 440·9 |
| 515·5 | 453·6 | 443·0 | 444·0 | 453·8 | 465·3 | 466·8 | 468·5 | 465·6 | 453·0 | 456·9 | 438·7 | 440·4 |
| 509·4 | 453·6 | 440·8 | 441·8 | 454·5 | 463·0 | 466·5 | 467·5 | 465·6 | 457·5 | 452·9 | 440·0 | 441·7 |
| 497·4 | 453·6 | 441·6 | 449·0 | 454·6 | 463·5 | 466·6 | 463·0 | 466·0 | 462·2 | 456·9 | 441·4 | 442·2 |
| 501·7 | 453·4 | 443·2 | 449·6 | 457·6 | 462·0 | 469·0 | 466·0 | 459·7 | 461·0 | 455·4 | 439·9 | 441·1 |
| 486·4 | 449·6 | 438·6 | 448·7 | 458·0 | 462·5 | 469·4 | 468·3 | 464·6 | 462·7 | 451·5 | 437·4 | 440·9 |
| 484·2 | 449·0 | 439·4 | 452·4 | 457·0 | 464·0 | 470·5 | 467·0 | 465·0 | 461·8 | 448·2 | 436·3 | 445·3 |
| 474·8 | 443·7 | 440·0 | 453·8 | 461·0 | 462·0 | 470·5 | 466·4 | 463·6 | 463·3 | 446·9 | 436·0 | 444·0 |
| 470·8 | 444·0 | 439·6 | 454·8 | 463·5 | 462·0 | 470·5 | 467·5 | 463·0 | 463·3 | 445·5 | 433·4 | 440·9 |
| 461·6 | 443·7 | 438·6 | 453·0 | 463·5 | 464·0 | 469·5 | 465·8 | 459·8 | 462·8 | 442·6 | 444·8 | 440·4 |
| 73·8 | 73·6 | 73·3 | 73·2 | 73·2 | 73·0 | 73·0 | 73·1 | 73·7 | 74·2 | 75·2 | 75·2 | 76·0 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fah. = ·00007.

| | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 80·2 | 95·0 | 120·7 | 123·2 | 128·6 | 129·5 | 128·9 | 130·3 | 131·1 | 130·8 | 132·4 | 133·8 | 133·8 |
| 79·7 | 97·5 | 120·7 | 123·2 | 130·5 | 129·5 | 129·3 | 130·3 | 131·1 | 129·9 | 132·4 | 133·8 | 134·3 |
| 76·2 | 101·2 | 120·7 | 123·2 | 130·5 | 129·2 | 129·6 | 130·3 | 131·4 | 131·0 | 131·8 | 133·5 | 133·8 |
| 77·0 | 106·0 | 120·7 | 123·8 | 130·6 | 124·0 | 129·1 | 130·9 | 131·4 | 131·0 | 131·8 | 136·8 | 134·2 |
| 80·9 | 111·3 | 120·8 | 123·8 | 130·1 | 129·0 | 129·1 | 130·9 | 131·5 | 130·0 | 134·1 | 133·6 | 137·0 |
| 85·3 | 111·6 | 120·8 | 125·4 | 130·1 | 129·0 | 129·6 | 130·9 | 131·2 | 129·3 | 134·1 | 133·6 | 134·5 |
| 83·6 | 112·4 | 121·0 | 123·3 | 129·0 | 129·5 | 128·9 | 130·9 | 130·2 | 129·3 | 133·2 | 132·8 | 134·6 |
| 89·3 | 114·7 | 121·2 | 123·6 | 128·5 | 129·5 | 128·9 | 128·7 | 130·2 | 131·3 | 132·8 | 133·6 | 134·6 |
| 87·2 | 114·6 | 122·1 | 126·6 | 128·5 | 129·0 | 129·4 | 128·7 | 130·2 | 131·6 | 133·1 | 133·9 | 134·5 |
| 88·3 | 118·0 | 122·1 | 127·6 | 128·5 | 129·0 | 129·9 | 131·4 | 129·2 | 131·2 | 134·1 | 133·9 | 134·3 |
| 89·4 | 117·6 | 123·2 | 128·6 | 128·5 | 129·9 | 130·3 | 131·4 | 129·2 | 130·8 | 133·8 | 137·8 | 134·3 |
| 92·8 | 118·0 | 123·2 | 128·6 | 128·5 | 128·9 | 130·6 | 131·1 | 126·1 | 129·9 | 133·8 | 134·4 | 134·3 |
| 74·1 | 74·1 | 73·8 | 73·7 | 73·2 | 72·7 | 72·6 | 73·0 | 73·3 | 73·5 | 73·9 | 74·3 | 75·0 ^a |

^a At 30^d 10^h Thermometer of H. F. 76^d·3; of V. F. 75^d·5.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|-------------------|---------------|------|------------|-------------|--|
| | | Dry. | Wet. | Direction. | Force. | |
| D. H. M. | In. | ° | ° | | | |
| 29 20 0 | 29·470 | 66·7 | 65·1 | W S. W. | Light. | Densely clouded; cir.-cum. and cum.-strat.; showery. |
| 21 0 | 29·460 | 66·1 | 64·9 | — | Calm. | Densely clouded; showery. |
| 22 0 | 29·454 | 66·1 | 65·1 | — | Calm. | Densely overcast; showery. |
| 23 0 | 29·457 | 66·4 | 65·3 | — | Calm. | Densely overcast; cir.-cum. and cum.-strat. |
| 30 0 0 | 29·461 | 66·9 | 65·7 | — | Calm. | Densely overcast; cir.-cum. and cum.-strat. |
| 1 0 | 29·467 | 67·5 | 66·3 | — | Calm. | Densely clouded; cum.-strat., cir.-cum., and haze. |
| 2 0 | 29·479 | 67·1 | 66·3 | — | Calm. | Densely clouded; cir.-cum. and haze. |
| 3 0 | 29·486 | 69·3 | 67·4 | N. W. | Very light. | Clouded; dense cir.-cum. and haze. |
| 4 0 | 29·484 | 72·0 | 67·5 | N. W. | Very light. | Clouded; cir.-cum. and cum.; sun breaking through. |
| 5 0 | 29·472 | 73·0 | 65·3 | N. N. W. | Very light. | Clouded; cir.-cum. and cum., with clear spaces. |
| 6 0 | 29·480 | 74·5 | 65·7 | N. W. | Very light. | Cir.-cum. generally dispersed. |
| 7 0 | 29·471 | 75·6 | 65·9 | N. N. W. | Very light. | Detached cir.-cum. and cum.-strat. scattered about. |
| 8 0 | 29·468 | 76·7 | 65·7 | N. by W. | Very light. | Detached cir.-cum. and cum.-strat. scattered about. |
| 9 0 | 29·413 | 77·7 | 66·5 | N. by W. | Very light. | Detached cir.-cum. and cum.-strat.; clear spaces. |

| September 24th and 25th. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | | |
|--------------------------|----|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . | |
| M. | S. | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | | 110.0 | 112.4 | 113.0 | 110.2 | 113.2 | 109.5 | 117.0 | 126.5 | 128.0 | 126.3 | 107.1 | |
| 5 | 0 | | 111.8 | 113.0 | 113.3 | 110.2 | 112.5 | 109.2 | 117.2 | 122.0 | 131.2 | 131.4 | 108.1 | |
| 10 | 0 | | 112.0 | 112.8 | 114.0 | 111.2 | 110.6 | 113.8 | 115.4 | 121.8 | 131.7 | 136.7 | 107.3 | |
| 15 | 0 | | 112.2 | 112.7 | 113.2 | 112.7 | 109.1 | 123.4 | 112.9 | 121.0 | 128.7 | 135.9 | 107.4 | |
| 20 | 0 | | 112.0 | 112.4 | 113.0 | 113.6 | 107.6 | 122.2 | 112.5 | 122.0 | 125.1 | 131.6 | 102.5 | |
| 25 | 0 | | 112.0 | 112.7 | 113.0 | 113.4 | 109.2 | 120.4 | 115.0 | 121.2 | 122.0 | 132.1 | 101.1 | |
| 30 | 0 | | 112.2 | 112.4 | 112.3 | 112.0 | 114.1 | 119.0 | 116.7 | 119.0 | 120.7 | 138.5 | 92.2 | |
| 35 | 0 | | 112.0 | 113.0 | 111.4 | 112.1 | 114.5 | 115.4 | 120.0 | 117.4 | 118.2 | 138.8 | 83.5 | |
| 40 | 0 | | 112.0 | 112.0 | 110.8 | 110.8 | 108.0 | 115.0 | 122.0 | 117.8 | 120.9 | 136.6 | 88.4 | |
| 45 | 0 | | 112.8 | 112.2 | 110.6 | 111.2 | 105.6 | 113.8 | 122.2 | 116.7 | 123.3 | 124.1 | 90.1 | |
| 50 | 0 | | 112.4 | 111.8 | 110.0 | 112.9 | 104.8 | 114.2 | 125.0 | 115.1 | 125.2 | 112.5 | 93.2 | |
| 55 | 0 | | 112.8 | 112.0 | 109.4 | 113.6 | 106.2 | 117.6 | 127.2 | 122.3 | 125.6 | 112.3 | 98.7 | |

| | | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|--|---|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | | |
| 2 | 0 | | 400.8 | 407.2 | 409.8 | 418.8 | 429.0 | 448.6 | 450.3 | 459.8 | 462.3 | 470.4 | 532.1 |
| 7 | 0 | | 402.2 | 410.0 | 408.8 | 421.3 | 429.8 | 444.8 | 450.0 | 461.0 | 456.6 | 465.9 | 534.7 |
| 12 | 0 | | 400.8 | 412.8 | 403.7 | 422.8 | 430.8 | 446.3 | 446.7 | 463.6 | 452.1 | 463.4 | 530.2 |
| 17 | 0 | | 401.0 | 408.8 | 405.0 | 422.2 | 431.8 | 449.2 | 446.0 | 462.6 | 455.3 | 472.9 | 528.6 |
| 22 | 0 | | 397.8 | 409.0 | 407.8 | 423.2 | 432.5 | 445.8 | 438.2 | 465.8 | 458.0 | 484.1 | 513.6 |
| 27 | 0 | | 401.8 | 409.4 | 408.0 | 425.0 | 433.0 | 445.0 | 443.6 | 463.3 | 463.8 | 467.7 | 482.0 |
| 32 | 0 | | 400.0 | 403.6 | 407.5 | 428.2 | 432.8 | 446.1 | 446.4 | 465.3 | 470.8 | 467.6 | 483.5 |
| 37 | 0 | | 400.0 | 405.0 | 412.3 | 428.4 | 425.6 | 452.1 | 447.3 | 465.3 | 470.1 | 477.0 | 484.4 |
| 42 | 0 | | 411.6 | 407.8 | 413.8 | 429.6 | 424.8 | 451.2 | 448.5 | 464.0 | 465.2 | 492.5 | 484.8 |
| 47 | 0 | | 410.0 | 410.0 | 415.2 | 428.6 | 432.2 | 450.6 | 446.1 | 457.7 | 474.1 | 506.3 | 483.6 |
| 52 | 0 | | 417.4 | 409.8 | 416.8 | 426.6 | 432.8 | 452.4 | 448.2 | 467.8 | 468.2 | 504.3 | 484.0 |
| 57 | 0 | | 409.7 | 409.7 | 416.0 | 427.8 | 442.4 | 454.8 | 462.8 | 466.0 | 469.9 | 503.0 | 497.9 |

| Thermometer | | | 58.0 | 58.0 | 58.0 | 58.0 | 58.2 | 58.2 | 58.4 | 58.3 | 58.1 | 58.0 | 57.6 |
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|

| | | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|----|----|--|---|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | | |
| 3 | 0 | | 159.4 | 157.8 | 158.2 | 156.3 | 157.1 | 164.1 | 163.5 | 151.7 | 152.6 | 136.8 | 104.8 |
| 8 | 0 | | 159.2 | 158.3 | 158.2 | 155.3 | 157.1 | 166.7 | 163.5 | 151.7 | 150.9 | 139.3 | 104.8 |
| 13 | 0 | | 159.2 | 158.3 | 159.7 | 155.3 | 157.7 | 164.9 | 163.5 | 154.2 | 149.3 | 139.3 | 109.3 |
| 18 | 0 | | 159.2 | 157.8 | 158.9 | 155.3 | 160.8 | 163.8 | 163.5 | 157.1 | 149.3 | 134.3 | 109.3 |
| 23 | 0 | | 159.3 | 157.8 | 156.7 | 155.3 | 162.6 | 164.6 | 165.3 | 155.9 | 150.1 | 137.8 | 112.8 |
| 28 | 0 | | 159.3 | 159.0 | 155.6 | 155.3 | 162.6 | 164.6 | 163.1 | 154.0 | 147.6 | 149.4 | 118.0 |
| 33 | 0 | | 159.3 | 159.0 | 155.6 | 156.2 | 164.1 | 164.6 | 162.7 | 151.0 | 145.8 | 151.1 | 114.7 |
| 38 | 0 | | 158.6 | 158.3 | 155.9 | 157.1 | 164.1 | 163.9 | 162.5 | 149.5 | 149.5 | 135.2 | 109.7 |
| 43 | 0 | | 157.8 | 158.3 | 155.1 | 157.1 | 164.1 | 163.9 | 159.3 | 150.5 | 146.8 | 124.1 | 119.1 |
| 48 | 0 | | 157.8 | 158.3 | 155.1 | 157.1 | 164.1 | 163.9 | 156.8 | 152.5 | 142.4 | 121.9 | 114.0 |
| 53 | 0 | | 157.9 | 158.6 | 155.1 | 157.1 | 164.1 | 163.9 | 154.9 | 150.9 | 139.4 | 121.9 | 115.8 |
| 58 | 0 | | 157.9 | 158.2 | 155.1 | 157.1 | 164.1 | 164.2 | 151.0 | 152.6 | 135.5 | 114.8 | 113.5 |

| Thermometer | | | 57.6 | 57.5 | 57.1 | 58.3 | 59.2 | 59.2 | 59.4 | 60.8 | 60.9 | 60.4 | 59.6 |
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|
|-------------|--|--|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|------------|-------------|--|--|--|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | | | |
| | | | | Dry. | Wet. | Direction. | Force. | | | | | | |
| D. | H. | M. | In. | | | | | | | | | | |
| 24 | 10 | 0 | 29.733 | 51.5 | 48.3 | N. W. | Very light. | Overcast with dense cir.-cum. and haze. | | | | | |
| | 11 | 0 | 29.751 | 51.2 | 47.5 | N. W. | Very light. | Overcast with dense cir.-cum. and haze. | | | | | |
| | 12 | 0 | 29.755 | 50.0 | 47.5 | N. W. | Very light. | Overcast with dense cir.-cum. and haze. | | | | | |
| | 13 | 0 | 29.773 | 47.5 | 46.2 | W. N. W. | Very light. | Generally overcast; cir.-cum. and haze. | | | | | |
| | 14 | 0 | 29.785 | 46.9 | 46.1 | W. N. W. | Very light. | Generally overcast; cir.-cum. clear in zenith and N. W. | | | | | |
| | 15 | 0 | 29.787 | 46.1 | 45.7 | W. N. W. | Very light. | Clear in N. N. W. and zenith; remainder unclouded; cir.-strat. and haze; arch of auroral light in N. | | | | | |
| | 16 | 0 | 29.789 | 44.9 | 44.1 | W. N. W. | Very light. | Generally clouded with cir.-cum.; clear spaces; auroral light in N. | | | | | |
| | 17 | 0 | 29.777 | 45.7 | 44.2 | W. by N. | Very light. | Zenith clear; cum.-strat. round horizon; auroral light in N. | | | | | |
| | 18 | 0 | 29.777 | 45.7 | 44.4 | W. by N. | Very light. | Overcast, cir.-cum., cum.-strat., and haze; clear in N.; auroral light in N. [altitude about 4°.] | | | | | |
| | 19 | 0 | 29.771 | 44.7 | 43.5 | — | Calm. | Cir.-strat. round horizon; sheet of uniform auroral light in N.; | | | | | |
| | 20 | 0 | 29.755 | 44.2 | 43.2 | W. N. W. | Very light. | Cir.-strat. dispersed round horizon; arch of auroral light in N.; pulsations ascending to 35°. | | | | | |

MAGNETICAL OBSERVATIONS.

September 24th and 25th.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 100.6 | 116.0 | 126.5 | 117.2 | 114.5 | 84.2 | 99.3 | 105.2 | 112.2 | 91.6 | 100.1 | 107.8 | 109.6 |
| 109.0 | 116.7 | 123.2 | 116.2 | 108.4 | 86.0 | 101.0 | 106.7 | 110.0 | 90.2 | 100.7 | 107.7 | 109.3 |
| 109.8 | 117.0 | 122.3 | 118.5 | 102.4 | 87.8 | 103.4 | 107.4 | 110.1 | 88.8 | 101.6 | 107.8 | 110.1 |
| 114.4 | 117.0 | 120.9 | 118.0 | 97.3 | 89.0 | 106.1 | 107.9 | 112.2 | 90.4 | 102.0 | 107.8 | 110.8 |
| 117.1 | 120.0 | 118.3 | 119.5 | 88.4 | 91.4 | 105.6 | 107.9 | 104.6 | 96.2 | 102.7 | 108.0 | 110.9 |
| 121.1 | 120.7 | 117.0 | 118.0 | 85.0 | 91.6 | 102.7 | 108.9 | 102.2 | 94.4 | 103.0 | 108.3 | 110.9 |
| 120.0 | 119.9 | 116.0 | 120.0 | 84.2 | 93.2 | 105.6 | 109.0 | 101.7 | 94.3 | 104.0 | 108.3 | 110.8 |
| 123.0 | 123.9 | 116.0 | 120.5 | 80.8 | 97.0 | 105.7 | 109.6 | 101.9 | 95.0 | 104.1 | 108.9 | 111.0 |
| 121.8 | 126.6 | 115.0 | 122.0 | 80.4 | 99.5 | 106.0 | 110.7 | 101.9 | 95.0 | 105.5 | 108.8 | 111.0 |
| 121.4 | 128.2 | 116.9 | 118.2 | 78.5 | 99.0 | 107.0 | 112.3 | 98.6 | 96.2 | 105.2 | 109.0 | 110.9 |
| 118.1 | 130.0 | 117.0 | 119.8 | 76.0 | 98.8 | 106.2 | 112.7 | 97.0 | 97.9 | 107.6 | 109.0 | 111.0 |
| 118.5 | 127.8 | 117.5 | 116.2 | 78.5 | 101.0 | 104.1 | 111.1 | 94.5 | 98.9 | 107.1 | 109.8 | 111.0 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 492.6 | 425.6 | 420.0 | 414.0 | 443.5 | 454.5 | 410.3 | 424.3 | 441.7 | 455.7 | 422.9 | 414.9 | 419.5 |
| 487.3 | 421.5 | 420.0 | 414.0 | 448.0 | 443.8 | 413.8 | 424.0 | 444.2 | 453.3 | 423.0 | 412.5 | 420.3 |
| 486.4 | 422.0 | 419.0 | 414.0 | 447.7 | 430.4 | 416.3 | 423.2 | 447.5 | 452.7 | 424.4 | 415.2 | 418.8 |
| 472.7 | 425.5 | 415.5 | 416.0 | 462.2 | 424.8 | 419.9 | 422.8 | 449.6 | 450.7 | 425.0 | 413.0 | 418.8 |
| 469.0 | 421.5 | 414.0 | 412.8 | 467.8 | 419.5 | 417.8 | 424.2 | 449.0 | 442.7 | 422.8 | 415.8 | 417.5 |
| 465.9 | 421.0 | 413.5 | 417.3 | 472.9 | 419.0 | 423.9 | 422.1 | 448.7 | 445.6 | 422.1 | 416.0 | 414.0 |
| 448.4 | 423.8 | 413.0 | 413.5 | 470.6 | 420.8 | 426.8 | 425.4 | 448.9 | 441.4 | 425.0 | 418.8 | 414.0 |
| 431.9 | 423.0 | 412.0 | 421.3 | 467.8 | 415.7 | 426.0 | 427.3 | 446.8 | 435.9 | 419.4 | 415.8 | 417.0 |
| 426.5 | 423.5 | 414.0 | 422.0 | 465.5 | 416.0 | 425.6 | 430.1 | 449.1 | 432.5 | 420.9 | 408.0 | 416.8 |
| 420.4 | 424.3 | 413.0 | 430.0 | 463.6 | 415.9 | 422.6 | 432.7 | 453.9 | 430.2 | 419.8 | 406.8 | 420.5 |
| 420.0 | 421.0 | 413.0 | 437.5 | 473.0 | 413.8 | 419.0 | 434.2 | 456.8 | 428.8 | 418.1 | 409.8 | 421.0 |
| 418.4 | 420.0 | 413.0 | 447.5 | 465.7 | 410.3 | 421.8 | 437.0 | 456.1 | 426.5 | 416.5 | 415.0 | 424.0 |
| 57.4 | 57.0 | 56.6 | 56.2 | 56.4 | 56.8 | 56.8 | 57.0 | 57.8 | 58.5 | 58.8 | 59.3 | 60.0 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 116.3 | 144.3 | 154.6 | 162.0 | 154.8 | 140.2 | 151.2 | 156.2 | 156.8 | 161.0 | 160.9 | 161.2 | 159.6 |
| 120.3 | 147.1 | 157.2 | 162.0 | 153.5 | 142.2 | 151.3 | 156.2 | 156.0 | 162.3 | 160.3 | 161.2 | 159.3 |
| 120.3 | 147.1 | 153.2 | 162.6 | 155.7 | 143.8 | 153.7 | 156.2 | 157.9 | 161.5 | 160.3 | 161.5 | 159.5 |
| 126.3 | 148.0 | 154.8 | 162.6 | 150.0 | 144.5 | 153.7 | 156.2 | 157.9 | 162.6 | 160.3 | 161.5 | 159.5 |
| 128.0 | 149.4 | 155.2 | 163.0 | 146.8 | 144.5 | 153.9 | 156.5 | 159.0 | 163.8 | 160.0 | 161.2 | 160.0 |
| 128.4 | 149.4 | 155.1 | 162.2 | 144.1 | 144.5 | 153.7 | 156.7 | 159.2 | 162.0 | 160.0 | 161.2 | 160.7 |
| 133.3 | 150.3 | 155.1 | 162.2 | 142.6 | 147.2 | 153.7 | 156.7 | 159.4 | 162.0 | 160.0 | 159.9 | 160.7 |
| 135.0 | 150.3 | 155.1 | 160.7 | 142.6 | 148.0 | 155.2 | 156.9 | 161.0 | 161.5 | 160.6 | 160.8 | 160.7 |
| 137.0 | 150.3 | 155.4 | 159.6 | 142.7 | 148.0 | 155.2 | 154.8 | 160.8 | 161.5 | 160.6 | 162.3 | 160.0 |
| 139.3 | 150.9 | 155.4 | 157.0 | 140.5 | 148.1 | 155.8 | 155.0 | 160.3 | 161.5 | 160.6 | 162.5 | 160.3 |
| 144.3 | 154.1 | 160.8 | 155.3 | 137.6 | 150.0 | 158.1 | 156.2 | 160.3 | 160.9 | 160.6 | 161.3 | 160.3 |
| 144.3 | 154.1 | 161.3 | 154.4 | 137.6 | 150.0 | 157.8 | 156.6 | 161.0 | 160.9 | 161.2 | 160.2 | 160.0 |
| 59.3 | 58.6 | 58.8 | 58.1 | 57.3 | 57.7 | 57.5 | 57.9 | 58.6 | 59.1 | 59.2 | 58.6 | 59.4 ^a |

^a At 25^d 10^h Thermometer of H. F. 60°+2; of V. F. 60°+0.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|-------------|-------------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 24 | 21 | 0 | 29.750 | 43.9 | 42.7 | W. N. W. | Very light. | Clear and unclouded; aurora gone. |
| | 22 | 0 | 29.748 | 41.9 | 41.9 | W. N. W. | Very light. | Clear, save a few cir.-strat. in E. horizon; faint auroral light in N. |
| | 23 | 0 | 29.742 | 40.2 | 40.1 | W. N. W. | Very light. | Clear, except cum.-strat. and cir. round horizon. |
| 25 | 0 | 0 | 29.748 | 42.2 | 40.6 | W. N. W. | Very light. | Generally overcast with cir.-cum. and cir.; clear spaces. |
| | 1 | 0 | 29.745 | 44.9 | 43.1 | W. by N. | Very light. | Light cir. and haze; a few clear spaces. |
| | 2 | 0 | 29.742 | 47.7 | 45.8 | W. | Very light. | Overcast with dense cir.-cum. and haze. |
| | 3 | 0 | 29.748 | 51.4 | 48.7 | S. W. by W. | Very light. | Overcast with cir.-cum. and cum.-strat.; a few clear spaces. |
| | 4 | 0 | 29.736 | 55.2 | 50.1 | S. W. by W. | Very light. | Generally overcast, light cir.-cum. and cum.-strat.; clear spaces. |
| | 5 | 0 | 29.709 | 56.4 | 51.0 | W. by S. | Very light. | Light cir.-cum. generally dispersed; dense cir.-cum. in N. W. |
| | 6 | 0 | 29.687 | 58.6 | 51.2 | W. | Light. | Light cir.-cum. generally dispersed; dense cir.-cum. rising in N. W. |
| | 7 | 0 | 29.676 | 56.9 | 51.5 | W. | Moderate. | Clouded, cum.-strat. and cir.-cum. |
| | 8 | 0 | 29.676 | 56.9 | 50.5 | N. by W. | Moderate. | Clouded, cum.-strat. and cir.-cum. |
| | 9 | 0 | 29.642 | 57.5 | 52.7 | W. N. W. | Moderate. | Clouded, cir.-cum. and cum. |

| October 22nd and 23rd. | | | MAGNETICAL OBSERVATIONS. | | | | | | | | | |
|------------------------|----|----------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | | Angular Value of one Scale Division = 0'·721. | | | | | DECLINATION. | | | | |
| | | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 113·0 | 113·2 | 112·8 | 113·0 | 114·2 | 113·2 | 114·0 | 111·9 | 113·8 | 112·9 | 113·2 |
| 5 | 0 | 113·1 | 113·0 | 113·1 | 112·8 | 114·0 | 114·0 | 114·4 | 111·8 | 113·8 | 113·8 | 113·2 |
| 10 | 0 | 113·0 | 114·0 | 113·5 | 112·7 | 114·2 | 114·0 | 115·0 | 111·8 | 114·0 | 113·6 | 113·7 |
| 15 | 0 | 113·0 | 113·3 | 114·0 | 113·0 | 113·5 | 113·6 | 115·0 | 112·0 | 113·6 | 113·0 | 113·9 |
| 20 | 0 | 112·8 | 113·1 | 114·0 | 113·2 | 113·0 | 115·0 | 114·6 | 112·4 | 111·8 | 112·3 | 113·2 |
| 25 | 0 | 113·0 | 113·3 | 114·0 | 113·2 | 112·4 | 115·2 | 114·2 | 112·1 | 111·8 | 112·1 | 112·2 |
| 30 | 0 | 113·1 | 113·5 | 114·0 | 113·2 | 112·0 | 114·4 | 113·8 | 111·8 | 112·2 | 112·0 | 111·2 |
| 35 | 0 | 113·1 | 113·2 | 113·2 | 113·0 | 112·0 | 114·0 | 114·0 | 111·4 | 112·0 | 112·2 | 112·0 |
| 40 | 0 | 113·3 | 113·0 | 113·0 | 113·2 | 111·4 | 111·8 | 114·2 | 111·5 | 112·2 | 113·0 | 112·8 |
| 45 | 0 | 113·0 | 112·8 | 113·0 | 114·4 | 112·0 | 111·4 | 114·0 | 111·4 | 112·0 | 113·0 | 113·6 |
| 50 | 0 | 112·8 | 112·7 | 113·1 | 114·7 | 112·4 | 112·8 | 113·9 | 111·8 | 112·2 | 113·2 | 113·4 |
| 55 | 0 | 113·7 | 112·3 | 113·0 | 114·8 | 112·4 | 112·2 | 113·7 | 112·4 | 112·8 | 113·5 | 114·0 |

| M. S. | | One Scale Division = ·000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|-------|---|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 2 | 0 | 395·0 | 397·0 | 401·0 | 400·0 | 401·0 | 404·7 | 398·7 | 403·2 | 403·0 | 400·4 | 398·6 |
| 7 | 0 | 394·0 | 396·0 | 401·0 | 399·8 | 401·6 | 404·0 | 401·0 | 403·2 | 402·6 | 398·8 | 398·5 |
| 12 | 0 | 394·0 | 398·5 | 401·0 | 400·8 | 401·0 | 403·6 | 401·0 | 403·2 | 402·0 | 399·3 | 398·1 |
| 17 | 0 | 396·4 | 399·8 | 400·0 | 400·0 | 401·8 | 404·3 | 400·8 | 403·2 | 402·0 | 399·6 | 397·8 |
| 22 | 0 | 397·0 | 398·6 | 399·0 | 400·0 | 402·6 | 398·4 | 402·0 | 402·3 | 402·5 | 398·9 | 396·9 |
| 27 | 0 | 397·0 | 398·0 | 399·0 | 400·0 | 402·0 | 398·5 | 401·9 | 403·0 | 402·8 | 399·4 | 397·9 |
| 32 | 0 | 397·0 | 395·5 | 399·0 | 399·6 | 402·6 | 396·4 | 402·6 | 402·8 | 403·2 | 399·5 | 399·0 |
| 37 | 0 | 396·0 | 396·0 | 400·8 | 400·2 | 402·8 | 393·8 | 403·2 | 402·8 | 402·1 | 399·6 | 399·5 |
| 42 | 0 | 394·5 | 394·5 | 401·0 | 402·0 | 403·4 | 397·0 | 403·6 | 403·1 | 401·1 | 399·4 | 400·0 |
| 47 | 0 | 394·3 | 396·6 | 401·9 | 401·8 | 404·0 | 397·6 | 404·0 | 403·6 | 401·6 | 399·1 | 399·9 |
| 52 | 0 | 396·9 | 399·0 | 401·0 | 402·2 | 403·8 | 399·0 | 403·8 | 404·9 | 401·0 | 399·0 | 399·0 |
| 57 | 0 | 396·5 | 399·0 | 400·0 | 401·2 | 404·0 | 401·2 | 402·6 | 404·8 | 400·9 | 399·0 | 399·3 |

| Thermometer | | 50° | 51° | 52° | 52·4 | 52·3 | 52° | 51·7 | 51° | 51·2 | 51° | 51·2 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
| | | 50·5 | 51·0 | 52·0 | 52·4 | 52·3 | 52·0 | 51·7 | 51·6 | 51·2 | 51·0 | 51·2 |

| M. S. | | One Scale Division = ·000062 part of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|-------|---|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 3 | 0 | 163·0 | 170·9 | 162·7 | 159·6 | 161·3 | 165·9 | 164·0 | 166·4 | 166·9 | 166·6 | 162·0 |
| 8 | 0 | 166·7 | 170·9 | 162·7 | 159·6 | 162·7 | 165·9 | 165·0 | 166·5 | 166·9 | 164·2 | 161·8 |
| 13 | 0 | 167·7 | 170·9 | 161·8 | 159·9 | 163·6 | 166·1 | 165·4 | 166·5 | 166·1 | 163·0 | 161·8 |
| 18 | 0 | 169·0 | 170·4 | 161·5 | 159·8 | 163·6 | 166·1 | 164·6 | 165·8 | 166·1 | 163·0 | 161·6 |
| 23 | 0 | 169·0 | 168·9 | 161·5 | 159·8 | 164·3 | 166·1 | 164·6 | 165·8 | 166·1 | 162·6 | 161·3 |
| 28 | 0 | 170·2 | 167·6 | 161·5 | 159·8 | 164·5 | 164·7 | 165·5 | 166·5 | 166·1 | 162·4 | 161·1 |
| 33 | 0 | 170·2 | 166·8 | 161·5 | 159·6 | 164·6 | 165·0 | 165·5 | 166·5 | 166·1 | 162·4 | 160·2 |
| 38 | 0 | 170·9 | 165·9 | 161·5 | 159·0 | 164·6 | 164·0 | 165·5 | 166·5 | 165·9 | 161·8 | 160·0 |
| 43 | 0 | 171·4 | 165·4 | 161·0 | 159·1 | 165·4 | 164·1 | 166·4 | 166·5 | 166·4 | 161·8 | 160·5 |
| 48 | 0 | 171·4 | 164·5 | 160·7 | 159·1 | 165·4 | 164·0 | 166·4 | 166·6 | 166·5 | 162·0 | 160·4 |
| 53 | 0 | 170·9 | 163·8 | 160·7 | 159·1 | 165·7 | 164·0 | 166·4 | 166·6 | 166·6 | 161·8 | 160·8 |
| 58 | 0 | 170·9 | 163·2 | 160·7 | 159·5 | 165·7 | 164·0 | 166·4 | 166·6 | 166·6 | 161·8 | 160·8 |

| Thermometer | | 50° | 50·3 | 52·6 | 53·9 | 53·3 | 54° | 52·3 | 52° | 51·7 | 51° | 52·3 |
|-------------|--|------|------|------|------|------|------|------|------|------|------|------|
| | | 50·1 | 50·3 | 52·6 | 53·9 | 53·3 | 54·0 | 52·3 | 52·1 | 51·7 | 51·5 | 52·3 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|--------|--|
| | | | | Dry. | Wet. | Direction. | Force. | |
| D. | H. | M. | In. | ° | ° | | | |
| 22 | 10 | 0 | 30·129 | 41·2 | 36·2 | — | Calm. | Clear. |
| | 11 | 0 | 30·107 | 37·9 | 35·2 | — | Calm. | Clear. |
| | 12 | 0 | 30·108 | 36·2 | 33·7 | — | Calm. | Clear. |
| | 13 | 0 | 30·094 | 29·8 | 28·2 | — | Calm. | Clear. |
| | 14 | 0 | 30·098 | 27·8 | 27·2 | — | Calm. | Clear. |
| | 15 | 0 | 30·090 | 26·8 | 27·1 | — | Calm. | Clear. |
| | 16 | 0 | 30·091 | 26·6 | 25·9 | — | Calm. | Clear. |
| | 17 | 0 | 30·065 | 27·0 | 26·1 | — | Calm. | Unclouded, save light cir. strat. in N. and N.E. |
| | 18 | 0 | 30·036 | 25·3 | 24·9 | — | Calm. | Generally clear; light cir. dispersed. |
| | 19 | 0 | 30·052 | 25·4 | 24·9 | — | Calm. | Clear, except light cir.-strat. in N. and S.E. |
| | 20 | 0 | 30·026 | 24·6 | 23·9 | — | Calm. | Clear. |
| | 21 | 0 | 30·018 | 24·2 | 23·1 | — | Calm. | Clear. |

MAGNETICAL OBSERVATIONS.

October 22nd and 23rd.

DECLINATION.

Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 115.0 | 115.3 | 115.7 | 115.0 | 116.0 | 116.1 | 116.0 | 114.0 | 112.0 | 111.6 | 111.7 | 111.0 | 111.1 |
| 115.1 | 115.4 | 115.8 | 115.2 | 116.0 | 116.9 | 116.2 | 114.0 | 112.0 | 111.5 | 111.6 | 111.0 | 111.1 |
| 115.2 | 115.3 | 115.5 | 115.4 | 116.2 | 116.3 | 115.8 | 114.0 | 111.8 | 111.5 | 111.4 | 111.0 | 111.1 |
| 115.0 | 115.8 | 115.0 | 115.6 | 116.3 | 116.9 | 115.6 | 113.2 | 112.0 | 111.5 | 111.4 | 111.0 | 111.2 |
| 115.4 | 115.9 | 114.4 | 115.7 | 115.4 | 116.1 | 115.2 | 113.0 | 112.0 | 111.5 | 111.3 | 111.0 | 111.3 |
| 115.6 | 116.0 | 114.0 | 115.0 | 115.0 | 116.1 | 115.0 | 112.4 | 112.0 | 111.4 | 111.2 | 111.0 | 111.3 |
| 115.5 | 116.0 | 113.9 | 116.0 | 117.6 | 116.9 | 115.2 | 112.4 | 111.8 | 111.4 | 111.2 | 110.9 | 111.5 |
| 115.6 | 115.9 | 113.8 | 116.0 | 116.1 | 116.9 | 115.0 | 112.5 | 111.2 | 111.6 | 111.2 | 110.9 | 111.6 |
| 115.8 | 115.7 | 114.1 | 116.0 | 116.2 | 116.0 | 114.8 | 112.6 | 111.2 | 111.6 | 111.0 | 111.0 | 111.7 |
| 116.0 | 116.1 | 113.9 | 116.4 | 115.8 | 117.0 | 114.7 | 112.8 | 111.2 | 111.8 | 111.0 | 111.0 | 111.6 |
| 116.0 | 115.5 | 113.9 | 115.0 | 115.6 | 116.2 | 114.4 | 112.4 | 111.2 | 111.8 | 111.0 | 111.0 | 111.8 |
| 115.7 | 115.0 | 114.8 | 114.8 | 116.0 | 116.0 | 114.2 | 112.2 | 111.4 | 111.8 | 111.0 | 111.0 | 111.7 |

HORIZONTAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 398.2 | 396.3 | 398.6 | 397.5 | 398.1 | 400.0 | 403.0 | 407.0 | 409.8 | 409.6 | 410.0 | 407.9 | 405.2 |
| 397.6 | 395.6 | 398.0 | 397.0 | 398.0 | 400.0 | 402.8 | 407.6 | 409.8 | 410.0 | 409.8 | 407.8 | 405.0 |
| 397.1 | 396.2 | 397.5 | 397.2 | 397.5 | 400.9 | 403.6 | 402.2 | 409.6 | 410.0 | 409.8 | 407.8 | 405.0 |
| 396.9 | 396.3 | 397.4 | 398.0 | 397.0 | 400.5 | 404.0 | 406.6 | 410.0 | 410.2 | 409.6 | 407.8 | 405.0 |
| 398.0 | 396.5 | 397.9 | 397.7 | 398.1 | 401.0 | 403.8 | 406.7 | 409.6 | 410.6 | 409.1 | 407.0 | 405.0 |
| 397.5 | 396.5 | 398.4 | 398.9 | 400.3 | 401.3 | 404.0 | 407.8 | 409.2 | 410.6 | 409.7 | 406.9 | 404.8 |
| 396.9 | 396.0 | 398.3 | 397.5 | 397.8 | 401.2 | 404.6 | 407.6 | 409.8 | 410.0 | 409.8 | 407.0 | 404.6 |
| 397.3 | 395.8 | 398.9 | 397.6 | 399.0 | 401.6 | 405.0 | 408.6 | 410.0 | 410.9 | 410.0 | 407.0 | 404.2 |
| 397.2 | 395.7 | 397.9 | 397.0 | 398.0 | 402.0 | 405.3 | 408.8 | 411.0 | 410.2 | 408.7 | 406.9 | 404.0 |
| 397.0 | 394.5 | 396.8 | 395.5 | 399.0 | 401.8 | 406.0 | 408.8 | 410.3 | 410.0 | 408.9 | 406.3 | 404.0 |
| 396.7 | 395.0 | 398.0 | 396.1 | 399.6 | 402.0 | 406.2 | 408.8 | 409.9 | 410.0 | 408.2 | 406.2 | 404.0 |
| 396.9 | 397.1 | 397.5 | 397.9 | 400.0 | 402.4 | 406.0 | 408.6 | 410.0 | 410.1 | 407.9 | 406.0 | 404.0 |
| 51.3 | 51.2 | 50.5 | 50.2 | 49.6 | 50.0 | 50.5 | 51.4 | 51.8 | 52.4 | 53.0 | 53.4 | 54.1 ^a |

VERTICAL FORCE.

Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| 162.0 | 164.4 | 163.5 | 165.8 | 171.0 | 172.0 | 169.6 | 167.5 | 165.8 | 166.3 | 165.0 | 165.2 | 164.5 |
| 162.0 | 164.4 | 163.6 | 165.8 | 171.6 | 173.2 | 170.0 | 167.5 | 167.0 | 167.4 | 164.8 | 164.9 | 164.5 |
| 162.8 | 164.4 | 163.8 | 165.8 | 171.6 | 172.5 | 168.6 | 167.0 | 166.7 | 167.4 | 164.8 | 165.6 | 164.0 |
| 162.8 | 164.4 | 163.8 | 166.4 | 171.2 | 172.5 | 168.6 | 165.2 | 166.5 | 167.6 | 165.0 | 165.3 | 164.0 |
| 163.5 | 164.6 | 164.5 | 167.4 | 171.2 | 171.8 | 168.6 | 165.2 | 166.5 | 166.0 | 165.0 | 165.3 | 164.0 |
| 163.3 | 163.0 | 164.5 | 167.4 | 171.2 | 171.0 | 168.6 | 167.2 | 166.5 | 166.9 | 165.0 | 165.3 | 163.9 |
| 163.5 | 163.0 | 164.5 | 168.7 | 171.2 | 171.0 | 165.7 | 167.2 | 166.5 | 166.3 | 164.8 | 165.3 | 164.0 |
| 163.3 | 162.6 | 164.6 | 168.7 | 171.2 | 171.0 | 164.6 | 167.3 | 166.5 | 165.8 | 164.9 | 165.2 | 164.0 |
| 163.3 | 162.6 | 165.1 | 170.3 | 171.2 | 170.4 | 166.0 | 167.7 | 166.5 | 166.8 | 164.9 | 165.2 | 163.5 |
| 163.3 | 163.0 | 165.1 | 171.0 | 171.2 | 170.4 | 168.5 | 165.1 | 166.3 | 165.2 | 164.8 | 165.3 | 163.5 |
| 164.0 | 163.0 | 165.1 | 171.0 | 171.2 | 170.4 | 166.8 | 165.8 | 167.0 | 165.2 | 165.5 | 165.0 | 163.5 |
| 164.0 | 163.0 | 165.1 | 171.0 | 171.2 | 169.6 | 166.8 | 165.8 | 166.4 | 165.0 | 165.4 | 165.0 | 163.3 |
| 52.5 | 52.2 | 51.5 | 51.3 | 50.3 | 50.3 | 50.6 | 51.3 | 51.7 | 51.9 | 52.9 | 53.1 | 53.3 ^a |

^a At 23^d 10^h Thermometer of H. F. 54.7; of V. F. 54.1.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|------------------|---------------|------|------------|--------|--------------------------------|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 22 | 22 | 0 | 30.014 | 23.6 | 23.2 | — | Calm. | Clear. |
| | 23 | 0 | 30.015 | 23.6 | 22.7 | — | Calm. | Clear. |
| 23 | 0 | 0 | 30.012 | 23.1 | 22.4 | — | Calm. | Unclouded; haze round horizon. |
| | 1 | 0 | 30.017 | 23.9 | 23.2 | — | Calm. | Clear. |
| | 2 | 0 | 30.011 | 30.9 | 29.7 | — | Calm. | Unclouded; slight mist. |
| | 3 | 0 | 30.015 | 37.3 | 32.3 | — | Calm. | Unclouded; hazy. |
| | 4 | 0 | 30.008 | 42.9 | 40.6 | — | Calm. | Unclouded; hazy. |
| | 5 | 0 | 29.978 | 43.4 | 39.0 | — | Calm. | Unclouded; haze round horizon. |
| | 6 | 0 | 29.953 | 44.7 | 42.5 | — | Calm. | Unclouded; haze round horizon. |
| | 7 | 0 | 29.930 | 47.4 | 44.5 | — | Calm. | Unclouded; haze round horizon. |
| | 8 | 0 | 29.897 | 48.7 | 44.7 | — | Calm. | Unclouded; haze round horizon. |
| | 9 | 0 | 29.889 | 49.2 | 45.0 | — | Calm. | Unclouded; haze round horizon. |

| November 28th and 29th. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-------------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'.721. | | | | | DECLINATION. | | | | | |
| M. | S. | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| | | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 114.8 | 116.2 | 116.6 | 116.3 | 117.0 | 124.0 | 118.8 | 116.1 | 114.2 | 109.7 | 113.9 |
| 5 | 0 | 115.0 | 116.2 | 116.5 | 116.7 | 117.2 | 122.0 | 118.2 | 116.5 | 113.2 | 111.2 | 114.8 |
| 10 | 0 | 115.0 | 116.0 | 117.0 | 117.1 | 117.2 | 120.2 | 117.5 | 116.4 | 112.9 | 113.2 | 115.9 |
| 15 | 0 | 115.2 | 116.2 | 117.2 | 116.8 | 117.2 | 117.6 | 117.1 | 116.2 | 113.7 | 114.0 | 115.9 |
| 20 | 0 | 115.5 | 116.6 | 115.9 | 117.0 | 116.1 | 116.2 | 116.0 | 115.0 | 112.0 | 113.6 | 115.2 |
| 25 | 0 | 115.4 | 116.8 | 116.8 | 116.9 | 116.4 | 117.6 | 116.4 | 114.7 | 111.0 | 112.0 | 114.2 |
| 30 | 0 | 115.6 | 116.8 | 117.3 | 116.8 | 117.1 | 117.7 | 117.3 | 115.2 | 112.0 | 111.0 | 113.6 |
| 35 | 0 | 116.0 | 116.4 | 116.8 | 117.0 | 119.3 | 117.4 | 117.9 | 115.0 | 112.0 | 111.0 | 114.0 |
| 40 | 0 | 115.4 | 116.2 | 116.8 | 117.0 | 121.7 | 117.0 | 117.3 | 114.2 | 111.0 | 112.3 | 114.1 |
| 45 | 0 | 115.8 | 116.4 | 115.9 | 117.0 | 122.8 | 118.1 | 116.8 | 113.8 | 109.8 | 113.2 | 115.7 |
| 50 | 0 | 116.1 | 116.8 | 117.0 | 117.2 | 124.2 | 119.4 | 115.7 | 114.4 | 108.5 | 114.0 | 116.1 |
| 55 | 0 | 116.2 | 117.0 | 116.9 | 117.0 | 125.0 | 119.4 | 115.7 | 114.0 | 108.4 | 114.0 | 117.4 |

| | | One Scale Division = .000087 parts of the H. F. | | | | | HORIZONTAL FORCE. | | | | | |
|----|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| M. | S. | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 2 | 0 | 376.1 | 376.0 | 376.0 | 378.9 | 380.9 | 395.0 | 384.7 | 389.0 | 388.3 | 389.0 | 381.1 |
| 7 | 0 | 375.8 | 376.2 | 376.0 | 377.3 | 382.7 | 394.0 | 384.8 | 388.0 | 388.0 | 387.9 | 382.0 |
| 12 | 0 | 374.9 | 376.0 | 377.1 | 378.9 | 382.1 | 391.4 | 385.0 | 388.0 | 387.0 | 884.2 | 386.0 |
| 17 | 0 | 374.8 | 374.8 | 380.1 | 379.1 | 382.0 | 388.7 | 383.9 | 387.4 | 386.8 | 382.5 | 385.0 |
| 22 | 0 | 374.8 | 375.0 | 377.1 | 378.3 | 382.4 | 388.7 | 385.7 | 386.3 | 384.5 | 382.5 | 385.8 |
| 27 | 0 | 374.8 | 374.6 | 377.2 | 379.2 | 384.5 | 389.3 | 388.1 | 389.0 | 385.1 | 383.0 | 384.5 |
| 32 | 0 | 375.9 | 374.7 | 379.2 | 379.6 | 388.4 | 388.8 | 388.0 | 389.0 | 386.0 | 384.5 | 383.5 |
| 37 | 0 | 375.0 | 376.9 | 377.9 | 381.8 | 391.7 | 388.0 | 388.0 | 389.3 | 387.3 | 385.1 | 384.0 |
| 42 | 0 | 375.7 | 376.4 | 378.2 | 379.7 | 394.5 | 388.4 | 387.5 | 388.0 | 386.0 | 384.5 | 386.5 |
| 47 | 0 | 375.8 | 375.2 | 375.8 | 380.3 | 895.1 | 386.6 | 388.4 | 390.0 | 387.1 | 384.5 | 389.0 |
| 52 | 0 | 375.6 | 375.0 | 378.0 | 381.4 | 397.4 | 384.7 | 387.5 | 390.6 | 387.0 | 384.5 | 390.5 |
| 57 | 0 | 375.6 | 375.9 | 379.3 | 380.7 | 396.9 | 384.0 | 388.0 | 390.0 | 387.8 | 382.5 | 386.5 |

| Thermometer | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 41.4 | 42.0 | 42.8 | 43.0 | 43.0 | 42.7 | 42.6 | 42.4 | 42.4 | 42.3 | 42.0 |

| | | One Scale Division = .000062 parts of the V. F. | | | | | VERTICAL FORCE. | | | | | |
|----|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| M. | S. | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| 3 | 0 | 182.3 | 177.4 | 174.0 | 173.4 | 174.0 | 174.4 | 173.8 | 177.7 | 176.9 | 175.1 | 176.6 |
| 8 | 0 | 181.5 | 176.9 | 173.9 | 173.3 | 174.6 | 174.9 | 174.1 | 177.7 | 176.9 | 175.1 | 176.6 |
| 13 | 0 | 182.8 | 176.2 | 173.8 | 173.4 | 174.2 | 174.9 | 174.1 | 177.2 | 176.9 | 175.4 | 175.8 |
| 18 | 0 | 182.1 | 175.7 | 173.8 | 173.4 | 174.2 | 174.8 | 175.4 | 177.6 | 176.9 | 175.4 | 176.6 |
| 23 | 0 | 182.1 | 175.6 | 173.8 | 173.4 | 173.5 | 174.0 | 174.6 | 177.6 | 176.7 | 175.4 | 176.6 |
| 28 | 0 | 182.3 | 175.5 | 173.8 | 173.4 | 173.5 | 173.9 | 175.3 | 177.5 | 176.3 | 175.4 | 177.4 |
| 33 | 0 | 182.3 | 175.5 | 173.8 | 173.4 | 173.2 | 173.9 | 175.9 | 177.2 | 176.7 | 175.2 | 177.4 |
| 38 | 0 | 181.8 | 174.6 | 173.8 | 173.4 | 173.2 | 173.9 | 175.9 | 177.2 | 176.7 | 175.2 | 176.8 |
| 43 | 0 | 180.6 | 174.6 | 174.2 | 173.4 | 173.2 | 173.9 | 176.7 | 177.2 | 176.3 | 175.2 | 176.1 |
| 48 | 0 | 180.4 | 174.6 | 174.2 | 174.0 | 173.2 | 173.9 | 177.1 | 176.9 | 176.0 | 175.7 | 175.8 |
| 53 | 0 | 178.8 | 174.4 | 173.5 | 173.9 | 173.2 | 174.6 | 177.6 | 176.9 | 176.0 | 175.7 | 175.8 |
| 58 | 0 | 177.8 | 174.4 | 173.5 | 174.0 | 174.4 | 174.1 | 177.6 | 176.9 | 176.0 | 176.6 | 175.8 |

| Thermometer | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 41.1 | 42.2 | 43.4 | 44.6 | 44.6 | 45.3 | 45.6 | 43.8 | 43.6 | 43.7 | 43.8 |

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|---|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 28 | 10 | 0 | 29.815 | 16.2 | 14.9 | W. by S. | Very light. | Generally clouded with dense cir-cum. & cum-strat.; clear spaces. |
| | 11 | 0 | 29.835 | 15.8 | 14.3 | W. by S. | Very light. | Generally clouded with dense cir-cum. & cum-strat.; clear spaces. |
| | 12 | 0 | 29.864 | 16.6 | 15.2 | — | Calm. | Overcast with cir-cum., cum-strat., and haze. |
| | 13 | 0 | 29.890 | 17.0 | 15.9 | — | Calm. | Overcast with cir-cum. and haze; particles of snow falling. |
| | 14 | 0 | 29.922 | 17.8 | 16.7 | W by S. | Very light. | Overcast with cir-cum. and haze; particles of snow falling. |
| | 15 | 0 | 29.936 | 17.0 | 15.4 | W. by S. | Very light. | Cir-strat. and haze round horizon; zenith clear. |
| | 16 | 0 | 29.944 | 14.6 | 12.9 | W. by N. | Very light. | Clear and unclouded. |
| | 17 | 0 | 29.966 | 12.0 | 10.2 | — | Calm. | Clear and unclouded. |
| | 18 | 0 | 29.970 | 10.0 | 8.7 | — | Calm. | Clear and unclouded. |
| | 19 | 0 | 29.983 | 12.0 | 10.5 | W. N. W. | Very light. | Clear, save low range of cir. on S. horizon. |
| | 20 | 0 | 29.989 | 12.6 | 10.7 | W. N. W. | Very light. | Clouded in S. horizon; remainder quite clear. |
| | 21 | 0 | 29.999 | 12.1 | 10.4 | N.W. by W. | Very light. | Clouded in S. horizon; remainder quite clear. |

MAGNETICAL OBSERVATIONS. November 28th and 29th.

DECLINATION. Angular Value of one Scale Division = 0'.721.

| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . |
|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sc. Div. 115.9 | Sc. Div. 110.1 | Sc. Div. 116.2 | Sc. Div. 115.4 | Sc. Div. 117.0 | Sc. Div. 115.0 | Sc. Div. 114.8 | Sc. Div. 115.1 | Sc. Div. 107.9 | Sc. Div. 109.8 | Sc. Div. 106.0 | Sc. Div. 109.0 | Sc. Div. 112.0 |
| 117.0 | 111.0 | 116.4 | 116.2 | 116.2 | 113.8 | 114.8 | 113.8 | 108.0 | 108.0 | 106.4 | 109.2 | 112.2 |
| 116.9 | 112.0 | 116.2 | 116.0 | 115.2 | 114.2 | 114.3 | 114.4 | 107.8 | 107.8 | 108.0 | 109.4 | 112.2 |
| 116.0 | 112.8 | 115.6 | 116.2 | 115.2 | 114.6 | 115.4 | 114.4 | 107.9 | 107.0 | 107.9 | 109.5 | 112.0 |
| 115.2 | 113.2 | 116.3 | 116.2 | 113.5 | 114.2 | 115.8 | 112.1 | 107.9 | 108.0 | 107.9 | 108.4 | 112.7 |
| 114.9 | 114.0 | 116.7 | 116.2 | 115.2 | 113.4 | 116.0 | 112.0 | 108.8 | 107.4 | 108.0 | 109.7 | 112.4 |
| 113.1 | 114.2 | 117.0 | 116.2 | 115.8 | 113.4 | 115.1 | 110.9 | 110.0 | 108.3 | 108.0 | 109.2 | 112.6 |
| 113.6 | 115.0 | 117.3 | 116.0 | 115.2 | 113.5 | 116.1 | 110.8 | 110.7 | 108.8 | 108.0 | 110.0 | 112.1 |
| 113.4 | 116.2 | 116.0 | 116.2 | 115.0 | 112.9 | 116.0 | 110.9 | 110.5 | 107.9 | 108.0 | 110.8 | 112.0 |
| 110.6 | 115.7 | 115.7 | 116.2 | 114.2 | 114.2 | 115.4 | 110.0 | 109.3 | 108.0 | 108.2 | 110.2 | 112.4 |
| 109.0 | 115.0 | 115.0 | 117.0 | 113.8 | 114.8 | 116.1 | 110.0 | 109.7 | 107.6 | 108.3 | 110.6 | 112.8 |
| 109.3 | 115.4 | 114.7 | 117.0 | 114.2 | 114.5 | 114.2 | 109.0 | 109.2 | 107.1 | 109.2 | 111.0 | 112.6 |

HORIZONTAL FORCE. Change in the Magnetic moment of the Bar for 1° Fah°. = .000234.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 387.5 | 387.0 | 379.8 | 379.0 | 382.8 | 385.4 | 388.4 | 388.2 | 405.0 | 395.0 | 385.5 | 380.5 | 381.6 |
| 385.0 | 386.0 | 379.0 | 378.6 | 385.0 | 386.4 | 388.4 | 389.3 | 407.5 | 395.1 | 388.0 | 382.4 | 380.8 |
| 384.5 | 386.0 | 378.8 | 378.3 | 381.8 | 389.1 | 388.6 | 389.9 | 407.0 | 397.9 | 384.0 | 381.0 | 381.4 |
| 384.0 | 384.6 | 378.3 | 378.0 | 382.9 | 389.6 | 388.9 | 389.1 | 407.0 | 398.0 | 385.5 | 381.9 | 381.6 |
| 383.9 | 383.8 | 378.0 | 378.0 | 383.9 | 391.2 | 389.4 | 390.7 | 406.1 | 392.9 | 386.5 | 380.7 | 380.8 |
| 388.0 | 382.6 | 377.4 | 378.0 | 381.5 | 393.0 | 387.9 | 391.8 | 404.0 | 391.0 | 382.0 | 381.0 | 380.4 |
| 387.5 | 383.0 | 377.3 | 378.6 | 380.9 | 393.3 | 388.8 | 395.0 | 399.9 | 392.5 | 386.0 | 380.5 | 381.4 |
| 387.3 | 382.7 | 377.3 | 378.4 | 381.6 | 392.5 | 388.8 | 397.4 | 400.0 | 386.5 | 385.5 | 381.0 | 381.5 |
| 387.5 | 381.9 | 377.0 | 380.4 | 381.4 | 393.3 | 389.3 | 398.0 | 398.2 | 388.0 | 382.9 | 381.8 | 381.6 |
| 388.5 | 382.0 | 377.6 | 380.4 | 382.5 | 388.8 | 388.5 | 401.3 | 398.0 | 386.5 | 383.7 | 380.4 | 381.5 |
| 388.5 | 381.2 | 379.3 | 380.6 | 385.0 | 388.1 | 389.1 | 400.6 | 397.7 | 386.0 | 380.7 | 380.5 | 381.0 |
| 388.5 | 381.6 | 380.0 | 380.5 | 385.7 | 388.2 | 391.4 | 403.9 | 396.6 | 390.3 | 381.8 | 382.5 | 380.8 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 42.0 | 42.0 | 41.7 | 41.6 | 41.6 | 40.8 | 40.6 | 41.0 | 41.5 | 41.8 | 42.5 | 42.6 | 42.4 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

VERTICAL FORCE. Change in the Magnetic moment of the Bar for 1° Fah°. = .00007.

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 175.8 | 177.8 | 179.1 | 179.1 | 179.3 | 177.7 | 179.0 | 180.8 | 178.7 | 181.5 | 180.0 | 179.5 | 179.5 |
| 176.6 | 177.8 | 179.4 | 179.1 | 178.1 | 177.4 | 179.0 | 179.4 | 178.7 | 181.2 | 180.0 | 179.5 | 179.5 |
| 176.6 | 177.8 | 179.4 | 179.1 | 178.1 | 177.4 | 179.7 | 179.4 | 178.7 | 181.2 | 180.0 | 179.5 | 179.5 |
| 176.5 | 177.8 | 179.1 | 179.1 | 178.2 | 177.4 | 179.9 | 179.7 | 179.2 | 180.7 | 180.0 | 179.5 | 179.5 |
| 176.5 | 177.8 | 179.1 | 179.0 | 177.5 | 177.4 | 179.9 | 179.4 | 179.5 | 180.8 | 180.0 | 179.3 | 179.5 |
| 176.5 | 177.8 | 179.1 | 179.0 | 177.5 | 176.9 | 179.9 | 179.3 | 179.9 | 180.8 | 180.6 | 179.5 | 179.5 |
| 176.5 | 177.8 | 179.1 | 179.6 | 177.7 | 177.3 | 180.0 | 179.1 | 180.2 | 180.5 | 179.5 | 179.5 | 179.5 |
| 177.8 | 177.6 | 179.1 | 179.6 | 177.7 | 177.1 | 180.2 | 178.9 | 180.2 | 180.5 | 179.5 | 179.5 | 179.7 |
| 177.8 | 177.6 | 179.1 | 179.6 | 177.7 | 178.9 | 180.2 | 178.9 | 180.7 | 180.5 | 179.5 | 179.5 | 179.7 |
| 177.8 | 178.6 | 179.1 | 179.6 | 177.2 | 179.6 | 180.2 | 178.7 | 180.7 | 180.4 | 179.5 | 179.5 | 179.7 |
| 177.8 | 178.6 | 179.1 | 179.6 | 177.2 | 179.3 | 179.0 | 178.7 | 180.8 | 180.4 | 179.5 | 179.5 | 179.7 |
| 177.8 | 178.6 | 179.1 | 179.6 | 177.2 | 179.5 | 179.1 | 178.7 | 180.8 | 180.4 | 179.5 | 179.5 | 179.7 |

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| 43.7 | 43.6 | 42.8 | 42.8 | 42.9 | 42.6 | 42.0 | 41.6 | 41.6 | 42.0 | 42.6 | 42.8 | 42.6 ^a |
|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|

^a At 29^d 10^h Thermometer of H. F. 42^d.0; of V. F. 42^d.6.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|---------------|------|------------|-------------|---|
| D. | H. | M. | | Dry. | Wet. | Direction. | Force. | |
| 28 | 22 | 0 | In. 30.019 | 12.1 | 10.7 | N.W. by W. | Very light. | Clouded in S. horizon; cir.-cum. and haze; remainder quite clear. |
| | 23 | 0 | 30.025 | 13.6 | 11.9 | W. N. W. | Very light. | Partially clouded; cir.-cum. and haze. |
| 29 | 0 | 0 | 30.044 | 14.3 | 12.9 | N.W. by W. | Very light. | Partially clouded; cir.-cum. and haze. |
| | 1 | 0 | 30.062 | 15.4 | 13.9 | — | Calm. | Densely overcast; cir.-cum. and haze. |
| | 2 | 0 | 30.098 | 16.2 | 14.9 | — | Calm. | Densely overcast; cir.-cum., cum.-strat., and haze. |
| | 3 | 0 | 30.112 | 17.3 | 15.7 | W. by N. | Very light. | Overcast with cir.-cum., cir.-strat. and haze. |
| | 4 | 0 | 30.126 | 19.6 | 16.7 | W. N. W. | Very light. | Overcast with cir.-cum., cir.-strat. and haze. |
| | 5 | 0 | 30.129 | 20.9 | 18.1 | W. N. W. | Very light. | Overspread dense haze. |
| | 6 | 0 | 30.107 | 21.8 | 20.2 | — | Calm. | Densely overcast; snowing slightly. |
| | 7 | 0 | 30.097 | 21.6 | 20.3 | N. N. E. | Very light. | Overcast; dense haze; moderate snow (constant). |
| | 8 | 0 | 30.080 | 21.0 | 20.3 | N. N. E. | Very light. | Overcast; dense haze; moderate snow (constant). |
| | 9 | 0 | 30.084 | 20.8 | 20.3 | N. N. E. | Very light. | Overcast; dense haze; moderate snow (constant). |

| December 17th and 18th. | | MAGNETICAL OBSERVATIONS. | | | | | | | | | | |
|-------------------------|----|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mean Göttingen Time. | | Angular Value of one Scale Division = 0'·721. | | | | | | DECLINATION. | | | | |
| | | 10 ^h . | 11 ^h . | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | 18 ^h . | 19 ^h . | 20 ^h . |
| M. | S. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. |
| 0 | 0 | 114·5 | 115·2 | 115·2 | 127·6 | 115·9 | 116·7 | 117·2 | 116·0 | 115·0 | 115·0 | 108·6 |
| 5 | 0 | 114·1 | 115·5 | 115·0 | 127·1 | 115·9 | 116·8 | 117·1 | 116·3 | 115·8 | 115·3 | 110·2 |
| 10 | 0 | 114·6 | 115·9 | 115·0 | 125·3 | 116·1 | 116·3 | 117·0 | 116·9 | 116·0 | 115·4 | 111·6 |
| 15 | 0 | 114·0 | 116·0 | 115·0 | 123·9 | 117·0 | 116·6 | 117·0 | 117·0 | 115·5 | 114·8 | 112·2 |
| 20 | 0 | 114·5 | 115·0 | 115·0 | 122·2 | 117·1 | 117·0 | 116·2 | 117·1 | 115·9 | 114·0 | 112·0 |
| 25 | 0 | 114·4 | 115·0 | 115·8 | 121·5 | 117·0 | 117·1 | 116·1 | 119·8 | 115·3 | 113·8 | 111·2 |
| 30 | 0 | 114·8 | 115·2 | 116·0 | 120·6 | 116·7 | 117·0 | 117·0 | 117·6 | 116·0 | 113·7 | 111·8 |
| 35 | 0 | 115·0 | 115·2 | 117·0 | 118·8 | 116·2 | 117·8 | 116·2 | 114·1 | 115·1 | 111·8 | 112·2 |
| 40 | 0 | 115·0 | 115·7 | 116·1 | 117·5 | 116·2 | 117·0 | 116·0 | 113·0 | 115·6 | 110·2 | 112·4 |
| 45 | 0 | 115·0 | 116·0 | 117·0 | 116·5 | 116·0 | 117·0 | 117·0 | 114·0 | 116·2 | 107·2 | 112·8 |
| 50 | 0 | 115·0 | 116·0 | 120·0 | 115·8 | 116·0 | 117·0 | 117·0 | 114·8 | 116·2 | 105·0 | 112·4 |
| 55 | 0 | 115·3 | 115·2 | 123·8 | 115·2 | 116·2 | 117·0 | 116·1 | 115·0 | 116·3 | 106·2 | 112·6 |

| | | One Scale Division = ·000087 parts of the H. F. | | | | | | HORIZONTAL FORCE. | | | | |
|----|----|---|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 2 | 0 | 385·6 | 386·4 | 390·0 | 394·0 | 390·0 | 391·1 | 392·2 | 394·6 | 392·0 | 393·5 | 398·0 |
| 7 | 0 | 386·5 | 386·2 | 391·0 | 391·9 | 389·0 | 391·0 | 391·0 | 394·8 | 391·1 | 293·8 | 397·7 |
| 12 | 0 | 386·8 | 386·0 | 390·8 | 392·8 | 388·9 | 391·0 | 391·0 | 394·0 | 391·0 | 394·6 | 392·6 |
| 17 | 0 | 385·8 | 385·4 | 392·0 | 392·0 | 388·2 | 390·4 | 391·0 | 394·0 | 392·0 | 395·0 | 392·8 |
| 22 | 0 | 387·4 | 386·0 | 392·6 | 391·0 | 388·2 | 391·0 | 392·0 | 391·5 | 391·4 | 394·4 | 392·6 |
| 27 | 0 | 386·5 | 386·0 | 396·0 | 390·6 | 389·0 | 390·8 | 391·6 | 385·5 | 391·0 | 395·0 | 392·0 |
| 32 | 0 | 387·0 | 387·0 | 397·8 | 389·0 | 388·6 | 390·2 | 392·5 | 386·0 | 391·0 | 394·8 | 391·8 |
| 37 | 0 | 386·9 | 387·4 | 398·0 | 388·0 | 389·0 | 391·0 | 391·0 | 388·0 | 393·1 | 396·0 | 392·0 |
| 42 | 0 | 386·6 | 384·4 | 398·2 | 388·1 | 389·4 | 391·0 | 392·0 | 390·0 | 395·0 | 398·4 | 391·8 |
| 47 | 0 | 386·6 | 386·6 | 401·2 | 388·6 | 389·5 | 390·6 | 392·0 | 390·0 | 393·5 | 401·8 | 391·8 |
| 52 | 0 | 386·2 | 387·9 | 401·2 | 388·5 | 390·5 | 391·0 | 392·5 | 389·2 | 393·0 | 401·7 | 391·0 |
| 57 | 0 | 386·9 | 390·0 | 400·0 | 389·3 | 390·4 | 391·0 | 393·0 | 390·0 | 393·5 | 401·5 | 391·3 |

| Thermometer | 47·0 | 48·3 | 48·4 | 48·4 | 48·8 | 49·2 | 49·8 | 50·0 | 50·0 | 50·0 | 50·5 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

| | | One Scale Division = ·000062 part of the V. F. | | | | | | VERTICAL FORCE. | | | | |
|----|----|--|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| M. | S. | | | | | | | | | | | |
| 3 | 0 | 173·9 | 168·7 | 168·6 | 167·4 | 168·2 | 164·5 | 161·8 | 163·7 | 163·1 | 163·8 | 161·1 |
| 8 | 0 | 173·9 | 168·7 | 167·4 | 167·4 | 168·2 | 164·2 | 161·9 | 163·7 | 163·4 | 163·7 | 161·0 |
| 13 | 0 | 173·7 | 168·5 | 167·4 | 167·4 | 168·2 | 164·2 | 161·9 | 164·1 | 163·4 | 163·8 | 160·8 |
| 18 | 0 | 173·7 | 168·4 | 167·4 | 167·4 | 168·7 | 164·2 | 162·3 | 164·1 | 163·4 | 163·8 | 160·7 |
| 23 | 0 | 172·8 | 168·4 | 167·2 | 167·4 | 168·7 | 163·2 | 162·5 | 164·1 | 163·4 | 163·7 | 160·6 |
| 28 | 0 | 172·8 | 168·0 | 166·6 | 167·4 | 168·7 | 163·2 | 162·9 | 163·6 | 163·4 | 163·7 | 159·7 |
| 33 | 0 | 171·0 | 167·7 | 166·6 | 167·2 | 168·7 | 162·6 | 162·9 | 163·6 | 163·4 | 163·7 | 159·6 |
| 38 | 0 | 171·0 | 167·7 | 167·3 | 167·2 | 168·7 | 162·6 | 163·7 | 163·6 | 163·3 | 163·7 | 159·6 |
| 43 | 0 | 170·6 | 167·5 | 167·3 | 167·8 | 168·7 | 162·6 | 163·7 | 163·6 | 163·3 | 163·3 | 159·6 |
| 48 | 0 | 169·5 | 167·8 | 166·8 | 167·8 | 168·7 | 162·0 | 163·7 | 163·1 | 163·8 | 162·3 | 159·7 |
| 53 | 0 | 169·5 | 167·3 | 167·0 | 168·2 | 165·5 | 162·0 | 163·7 | 163·1 | 163·8 | 162·3 | 159·7 |
| 58 | 0 | 168·7 | 168·6 | 167·0 | 168·2 | 165·5 | 162·0 | 163·7 | 163·1 | 163·8 | 162·5 | 159·7 |

| Thermometer | 46·8 | 49·3 | 49·6 | 49·7 | 49·1 | 49·6 | 51·0 | 50·6 | 50·5 | 50·5 | 51·1 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
|-------------|------|------|------|------|------|------|------|------|------|------|------|

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

| Mean Göttingen Time. | | | Barometer at 32°. | | Thermometers. | | Wind. | | Weather. |
|----------------------|----|----|-------------------|------|---------------|------|-------------|-----------|---|
| D. | H. | M. | In. | ° | Dry. | Wet. | Direction. | Force. | |
| 17 | 10 | 0 | 29·396 | 37·3 | 34·7 | | S by E. | Light. | Clouded; cir.-cum., cum.-strat. and haze. |
| | 11 | 0 | 29·382 | 37·4 | 34·7 | | S. S. W. | Fresh. | Clouded; cir.-strat. and haze. [G. M. T.] |
| | 12 | 0 | 29·393 | 34·6 | 33·9 | | S. S. W. | Moderate. | Densely overcast (very dark), slight rain between 11 and 12 hours |
| | 13 | 0 | 29·386 | 35·0 | 33·9 | | S. S. W. | Moderate. | Densely clouded (very dark), spitting rain. |
| | 14 | 0 | 29·361 | 35·6 | 34·2 | | S. S. W. | Brisk. | Densely clouded. |
| | 15 | 0 | 29·354 | 36·0 | 33·2 | | S. S. W. | Fresh. | Densely clouded; cir.-cum. and haze. |
| | 16 | 0 | 29·350 | 36·0 | 34·5 | | S. S. W. | Brisk. | Densely overcast; cir.-cum. and haze. |
| | 17 | 0 | 29·326 | 36·4 | 34·0 | | S. S. W. | Brisk. | Densely overcast; cir.-cum. and haze. |
| | 18 | 0 | 29·318 | 36·1 | 34·9 | | S. S. W. | Fresh. | Densely clouded; cir.-cum. and haze; spitting rain. |
| | 19 | 0 | 29·318 | 35·9 | 35·1 | | S. S. W. | Brisk. | Densely clouded; cir.-cum. and haze; spitting rain. |
| | 20 | 0 | 29·327 | 35·6 | 34·9 | | S. W. by S. | Brisk. | Densely clouded; cir.-cum. and haze; clouds moving rapidly. |
| | 21 | 0 | 29·351 | 34·6 | 34·4 | | S. S. W. | Fresh. | Dense cir.-cum. and haze. |

| MAGNETICAL OBSERVATIONS. | | | | | | | | | | | | December 17th and 18th. | |
|--------------------------|-------------------|-------------------|------------------|------------------|------------------|---|------------------|------------------|------------------|------------------|------------------|-------------------------|--|
| DECLINATION. | | | | | | Angular Value of one Scale Division = 0'·721. | | | | | | | |
| 21 ^h . | 22 ^h . | 23 ^h . | 0 ^h . | 1 ^h . | 2 ^h . | 3 ^h . | 4 ^h . | 5 ^h . | 6 ^h . | 7 ^h . | 8 ^h . | 9 ^h . | |
| Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | Sc. Div. | |
| 112·2 | 116·8 | 110·8 | 108·0 | 113·6 | 114·4 | 111·8 | 114·2 | 112·0 | 110·4 | 110·0 | 110·2 | 111·5 | |
| 112·0 | 117·0 | 110·8 | 108·9 | 113·0 | 114·2 | 112·3 | 113·0 | 111·0 | 110·5 | 109·8 | 111·0 | 112·0 | |
| 112·2 | 117·0 | 111·0 | 108·1 | 112·8 | 114·2 | 113·1 | 113·0 | 110·8 | 111·2 | 109·7 | 110·6 | 111·6 | |
| 113·2 | 117·2 | 111·4 | 109·0 | 113·6 | 114·0 | 113·0 | 113·2 | 110·5 | 111·2 | 109·2 | 110·7 | 112·0 | |
| 113·6 | 117·2 | 112·2 | 110·0 | 114·2 | 113·0 | 114·0 | 115·0 | 110·1 | 111·8 | 109·4 | 111·4 | 112·0 | |
| 113·2 | 115·0 | 112·0 | 110·9 | 114·0 | 112·0 | 114·1 | 115·0 | 109·6 | 111·7 | 109·9 | 112·0 | 112·0 | |
| 114·0 | 114·0 | 112·7 | 112·4 | 113·2 | 112·0 | 115·0 | 115·6 | 110·1 | 111·4 | 110·0 | 112·0 | 112·0 | |
| 114·8 | 112·3 | 112·6 | 112·8 | 112·8 | 112·0 | 115·0 | 115·0 | 109·9 | 111·2 | 109·8 | 111·9 | 112·2 | |
| 116·0 | 111·4 | 111·0 | 113·5 | 113·5 | 112·0 | 114·5 | 115·0 | 110·2 | 110·6 | 109·2 | 112·0 | 112·2 | |
| 117·0 | 111·8 | 109·8 | 114·0 | 113·2 | 111·4 | 114·9 | 113·8 | 109·7 | 110·0 | 109·7 | 111·5 | 112·0 | |
| 117·0 | 111·6 | 109·2 | 113·4 | 114·0 | 111·9 | 115·0 | 111·8 | 109·8 | 109·7 | 110·2 | 111·8 | 112·3 | |
| 116·5 | 110·8 | 108·0 | 114·0 | 115·0 | 111·8 | 114·1 | 111·4 | 109·2 | 109·2 | 110·2 | 111·7 | 112·4 | |

| HORIZONTAL FORCE. | | | | | | | | | | | | Change in the Magnetic moment of the Bar for 1° Fah. = ·000234. | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|--|
| 390·5 | 390·8 | 394·4 | 391·2 | 392·2 | 390·0 | 397·0 | 399·0 | 402·0 | 405·8 | 400·6 | 404·0 | 396·0 | |
| 391·0 | 390·6 | 394·8 | 389·2 | 392·3 | 391·5 | 396·5 | 398·0 | 401·8 | 408·3 | 399·8 | 402·2 | 394·2 | |
| 390·8 | 390·6 | 395·0 | 389·8 | 392·0 | 392·2 | 395·8 | 399·0 | 403·5 | 407·6 | 401·8 | 403·2 | 393·8 | |
| 390·6 | 389·8 | 393·3 | 388·6 | 391·8 | 393·2 | 396·5 | 401·0 | 404·0 | 406·8 | 401·8 | 401·3 | 393·4 | |
| 390·9 | 390·6 | 393·0 | 388·0 | 389·6 | 394·0 | 397·8 | 400·0 | 403·5 | 405·4 | 401·4 | 399·9 | 393·3 | |
| 390·0 | 392·8 | 393·5 | 388·6 | 388·6 | 393·5 | 398·5 | 401·0 | 404·5 | 404·0 | 403·0 | 399·1 | 393·0 | |
| 389·7 | 393·5 | 393·1 | 390·0 | 389·0 | 393·5 | 397·3 | 400·3 | 404·5 | 401·6 | 401·6 | 398·2 | 393·2 | |
| 390·2 | 394·0 | 393·2 | 391·2 | 387·7 | 396·0 | 397·0 | 399·6 | 405·5 | 400·8 | 401·0 | 397·9 | 392·6 | |
| 390·2 | 394·0 | 395·2 | 391·2 | 388·0 | 396·7 | 398·0 | 399·0 | 405·5 | 400·0 | 400·8 | 398·8 | 393·7 | |
| 390·4 | 396·0 | 396·0 | 392·0 | 389·4 | 396·7 | 398·0 | 400·0 | 406·3 | 397·8 | 404·8 | 397·0 | 393·6 | |
| 391·0 | 394·9 | 396·2 | 392·2 | 391·0 | 397·0 | 397·4 | 401·0 | 407·0 | 399·8 | 405·0 | 397·1 | 393·0 | |
| 390·6 | 395·1 | 394·8 | 392·0 | 389·6 | 397·5 | 399·5 | 401·5 | 407·0 | 400·6 | 404·4 | 395·8 | 392·4 | |
| 50·2 | 50·2 | 49·6 | 49·2 | 49·0 | 48·5 | 48·5 | 48·5 | 49·5 | 49·4 | 49·5 | 49·6 | 50·0 | |

| VERTICAL FORCE. | | | | | | | | | | | | Change in the Magnetic moment of the Bar for 1° Fah. = ·00007. | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| 160·6 | 160·1 | 159·9 | 162·8 | 160·3 | 163·6 | 164·8 | 164·8 | 163·5 | 164·3 | 166·1 | 167·5 | 167·5 | |
| 160·7 | 160·1 | 159·9 | 162·2 | 161·5 | 163·7 | 164·8 | 165·0 | 163·5 | 164·7 | 166·5 | 167·5 | 167·5 | |
| 160·7 | 160·1 | 159·9 | 162·2 | 161·5 | 163·9 | 164·8 | 165·0 | 163·5 | 164·4 | 163·8 | 167·7 | 167·8 | |
| 160·9 | 159·8 | 159·9 | 160·5 | 161·5 | 164·4 | 164·8 | 165·0 | 163·5 | 164·7 | 167·5 | 168·6 | 168·4 | |
| 160·7 | 159·8 | 160·4 | 160·5 | 161·2 | 164·4 | 164·8 | 165·0 | 163·5 | 164·7 | 167·5 | 168·1 | 168·0 | |
| 161·7 | 159·5 | 160·4 | 160·5 | 161·2 | 164·8 | 164·7 | 164·8 | 163·5 | 165·9 | 167·3 | 168·1 | 168·0 | |
| 161·6 | 158·0 | 160·4 | 160·3 | 161·9 | 164·8 | 164·7 | 164·8 | 163·5 | 165·5 | 167·1 | 168·1 | 168·0 | |
| 160·8 | 159·2 | 160·5 | 159·7 | 161·7 | 164·8 | 164·7 | 164·8 | 163·5 | 164·8 | 167·1 | 167·8 | 168·0 | |
| 160·5 | 159·2 | 160·5 | 159·7 | 162·4 | 165·2 | 164·7 | 164·8 | 164·1 | 166·7 | 166·7 | 167·8 | 168·5 | |
| 159·6 | 159·8 | 160·5 | 160·5 | 162·2 | 165·2 | 164·7 | 163·9 | 164·1 | 166·7 | 166·7 | 167·8 | 166·9 | |
| 159·6 | 159·1 | 160·7 | 160·5 | 162·4 | 164·8 | 164·7 | 163·9 | 164·3 | 166·7 | 166·6 | 168·8 | 167·0 | |
| 159·7 | 159·1 | 161·3 | 160·4 | 163·6 | 164·8 | 164·5 | 163·5 | 164·3 | 166·1 | 167·4 | 168·8 | 167·0 | |
| 50·7 | 50·8 | 50·7 | 50·5 | 50·5 | 49·7 | 49·1 | 49·0 | 49·3 | 49·3 | 49·5 | 49·5 | 49·5 | |

* At 18^d 10^h Thermometer of H. F. 49°·6; of V. F. 49°·6.

| METEOROLOGICAL OBSERVATIONS. | | | | | | | | | | | |
|------------------------------|----|----|-------------------|---------------|------|-------------|-----------|---|--|--|--|
| Mean Göttingen Time. | | | Barometer at 32°. | Thermometers. | | Wind. | | Weather. | | | |
| D. | H. | M. | In. | Dry. | Wet. | Direction | Force. | | | | |
| 17 | 22 | 0 | 29·347 | 34·4 | 34·3 | W S. W. | Brisk. | Cir.-cum., with a few clear spaces. | | | |
| | 23 | 0 | 29·359 | 34·1 | 31·3 | S. W. by W. | Moderate. | Mostly overcast with cir.-cum. and cum.-strat.; clear spaces. | | | |
| 18 | 0 | 0 | 29·355 | 34·0 | 30·9 | S. W. by W. | Moderate. | Overcast with cir.-cum. and cum.-strat. | | | |
| | 1 | 0 | 29·374 | 32·8 | 29·7 | S S. W. | Moderate. | Overcast with cir.-cum. detached. | | | |
| | 2 | 0 | 29·393 | 33·1 | 30·7 | S. W. | Light. | Overcast with cir.-cum.; cir.-strat. and haze. | | | |
| | 3 | 0 | 29·400 | 33·6 | 31·1 | S. W. | Light. | Clouded cum.-strat. and cir.-cum. | | | |
| | 4 | 0 | 29·410 | 35·0 | 31·2 | S. W. | Moderate. | Generally clouded; cir.-cum. and cum.-strat.; clear spaces. | | | |
| | 5 | 0 | 29·398 | 35·0 | 31·1 | S. S. W. | Moderate. | Partially clouded; cir.-cum. widely dispersed. | | | |
| | 6 | 0 | 29·362 | 35·4 | 31·1 | W. by S. | Moderate. | Cir.-cum. and cir. round horizon; remainder clear. | | | |
| | 7 | 0 | 29·351 | 35·3 | 30·9 | W. by S. | Moderate. | Light cir.-cum. and cum.-strat. dispersed. | | | |
| | 8 | 0 | 29·327 | 35·6 | 31·9 | S. S. W. | Moderate. | Light cir.-cum. and cum.-strat. dispersed. | | | |
| | 9 | 0 | 29·313 | 34·6 | 31·1 | S. S. W. | Moderate. | Light cir.-cum. and cum.-strat. dispersed. | | | |

TORONTO, 1845.

METEOROLOGICAL OBSERVATIONS

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 1 | 2.380 | 2.399 | 2.435 | 2.468 | 2.483 | 2.477 | 2.477 | 2.483 | 2.514 | 2.544 | 2.584 | 2.618 |
| | 2 | 2.832 | 2.842 | 2.858 | 2.867 | 2.884 | 2.869 | 2.855 | 2.842 | 2.848 | 2.868 | 2.858 | 2.856 |
| | 3 | 2.567 | 2.525 | 2.487 | 2.476 | 2.438 | 2.384 | 2.325 | 2.285 | 2.249 | 2.225 | 2.207 | 2.187 |
| | 4 | 2.534 | 2.565 | 2.587 | 2.593 | 2.593 | 2.559 | 2.525 | 2.518 | 2.525 | 2.522 | 2.514 | 2.504 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 2.698 | 2.737 | 2.759 | 2.763 | 2.738 | 2.739 | 2.712 | 2.682 | 2.656 | 2.666 | 2.656 | 2.631 |
| | 7 | 2.193 | 2.141 | 2.163 | 2.153 | 2.161 | 2.154 | 2.160 | 2.171 | 2.182 | 2.218 | 2.245 | 2.290 |
| | 8 | 2.501 | 2.502 | 2.518 | 2.525 | 2.525 | 2.526 | 2.510 | 2.519 | 2.524 | 2.539 | 2.543 | 2.537 |
| | 9 | 2.385 | 2.395 | 2.399 | 2.422 | 2.420 | 2.403 | 2.378 | 2.330 | 2.311 | 2.305 | 2.296 | 2.284 |
| | 10 | 2.562 | 2.591 | 2.616 | 2.634 | 2.635 | 2.618 | 2.597 | 2.584 | 2.583 | 2.592 | 2.598 | 2.598 |
| | 11 | 2.541 | 2.545 | 2.550 | 2.550 | 2.540 | 2.530 | 2.482 | 2.461 | 2.451 | 2.451 | 2.451 | 2.439 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 2.122 | 2.119 | 2.119 | 2.111 | 2.129 | 2.143 | 2.150 | 2.188 | 2.215 | 2.265 | 2.324 | 2.370 |
| | 14 | 2.687 | 2.719 | 2.776 | 2.799 | 2.839 | 2.833 | 2.827 | 2.841 | 2.843 | 2.857 | 2.848 | 2.853 |
| | 15 | 2.728 | 2.739 | 2.738 | 2.764 | 2.777 | 2.746 | 2.728 | 2.735 | 2.742 | 2.737 | 2.777 | 2.780 |
| | 16 | 2.822 | 2.830 | 2.852 | 2.854 | 2.876 | 2.846 | 2.830 | 2.812 | 2.810 | 2.796 | 2.808 | 2.796 |
| | 17 | 2.522 | 2.498 | 2.477 | 2.482 | 2.464 | 2.444 | 2.411 | 2.387 | 2.349 | 2.371 | 2.303 | 2.367 |
| | 18 | 2.753 | 2.791 | 2.816 | 2.854 | 2.883 | 2.918 | 2.920 | 2.933 | 2.977 | 3.015 | 3.046 | 3.094 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 2.798 | 2.798 | 2.798 | 2.773 | 2.785 | 2.781 | 2.752 | 2.733 | 2.728 | 2.728 | 2.722 | 2.706 |
| | 21 | 2.524 | 2.516 | 2.516 | 2.503 | 2.507 | 2.506 | 2.484 | 2.485 | 2.493 | 2.511 | 2.521 | 2.532 |
| | 22 | 2.823 | 2.851 | 2.875 | 2.909 | 2.931 | 2.946 | 2.948 | 2.954 | 2.957 | 2.964 | 2.978 | 2.994 |
| | 23 | 3.028 | 3.016 | 3.000 | 2.992 | 2.975 | 2.908 | 2.865 | 2.829 | 2.821 | 2.815 | 2.807 | 2.785 |
| | 24 | 2.638 | 2.630 | 2.629 | 2.619 | 2.613 | 2.573 | 2.551 | 2.517 | 2.502 | 2.488 | 2.482 | 2.456 |
| | 25 | 2.441 | 2.461 | 2.492 | 2.500 | 2.514 | 2.502 | 2.494 | 2.500 | 2.498 | 2.524 | 2.541 | 2.557 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 2.693 | 2.661 | 2.686 | 2.692 | 2.694 | 2.699 | 2.653 | 2.644 | 2.638 | 2.639 | 2.631 | 2.617 |
| | 28 | 2.480 | 2.461 | 2.455 | 2.445 | 2.431 | 2.410 | 2.373 | 2.357 | 2.351 | 2.348 | 2.350 | 2.374 |
| | 29 | 2.618 | 2.618 | 2.620 | 2.623 | 2.633 | 2.630 | 2.626 | 2.626 | 2.638 | 2.668 | 2.676 | 2.695 |
| | 30 | 2.842 | 2.862 | 2.884 | 2.860 | 2.860 | 2.840 | 2.796 | 2.775 | 2.745 | 2.721 | 2.715 | 2.708 |
| | 31 | 2.692 | 2.728 | 2.768 | 2.800 | 2.844 | 2.867 | 2.882 | 2.900 | 2.917 | 2.941 | 2.969 | 2.999 |
| Hourly Means | 2.6076 | 2.6126 | 2.6249 | 2.6308 | 2.6360 | 2.6241 | 2.6041 | 2.5960 | 2.5951 | 2.6044 | 2.6093 | 2.6158 | |
| FEBRUARY. | 1 | 3.123 | 3.123 | 3.135 | 3.164 | 3.146 | 3.138 | 3.116 | 3.076 | 3.059 | 3.063 | 3.065 | 3.048 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 3.016 | 2.996 | 2.987 | 2.981 | 2.949 | 2.944 | 2.916 | 2.890 | 2.846 | 2.823 | 2.789 | 2.771 |
| | 4 | 2.200 | 2.164 | 2.156 | 2.147 | 2.146 | 2.140 | 2.133 | 2.109 | 2.109 | 2.119 | 2.135 | 2.147 |
| | 5 | 2.114 | 2.079 | 2.070 | 2.074 | 2.070 | 2.106 | 2.109 | 2.101 | 2.111 | 2.125 | 2.123 | 2.221 |
| | 6 | 2.459 | 2.479 | 2.511 | 2.524 | 2.546 | 2.542 | 2.514 | 2.495 | 2.501 | 2.529 | 2.555 | 2.572 |
| | 7 | 2.712 | 2.726 | 2.746 | 2.778 | 2.785 | 2.792 | 2.788 | 2.781 | 2.779 | 2.781 | 2.778 | 2.788 |
| | 8 | 2.932 | 2.955 | 2.983 | 2.989 | 2.987 | 2.996 | 2.990 | 2.974 | 2.960 | 2.957 | 2.940 | 2.926 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 2.731 | 2.728 | 2.710 | 2.696 | 2.664 | 2.641 | 2.608 | 2.564 | 2.500 | 2.464 | 2.414 | 2.412 |
| | 11 | 2.368 | 2.376 | 2.381 | 2.382 | 2.364 | 2.357 | 2.337 | 2.299 | 2.277 | 2.256 | 2.228 | 2.195 |
| | 12 | 2.162 | 2.218 | 2.270 | 2.319 | 2.375 | 2.435 | 2.483 | 2.518 | 2.548 | 2.600 | 2.651 | 2.698 |
| | 13 | 3.085 | 3.098 | 3.114 | 3.141 | 3.131 | 3.124 | 3.115 | 3.108 | 3.110 | 3.100 | 3.096 | 3.082 |
| | 14 | 2.892 | 2.891 | 2.874 | 2.858 | 2.844 | 2.814 | 2.792 | 2.731 | 2.711 | 2.684 | 2.658 | 2.640 |
| | 15 | 2.471 | 2.478 | 2.476 | 2.464 | 2.448 | 2.465 | 2.444 | 2.424 | 2.406 | 2.406 | 2.396 | 2.404 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 2.628 | 2.632 | 2.638 | 2.633 | 2.632 | 2.628 | 2.609 | 2.600 | 2.608 | 2.612 | 2.626 | 2.627 |
| | 18 | 2.771 | 2.777 | 2.793 | 2.797 | 2.802 | 2.807 | 2.800 | 2.772 | 2.763 | 2.755 | 2.749 | 2.749 |
| | 19 | 2.719 | 2.713 | 2.723 | 2.741 | 2.731 | 2.722 | 2.716 | 2.680 | 2.651 | 2.646 | 2.646 | 2.646 |
| | 20 | 2.501 | 2.503 | 2.509 | 2.509 | 2.500 | 2.498 | 2.478 | 2.450 | 2.448 | 2.426 | 2.426 | 2.400 |
| | 21 | 2.387 | 2.407 | 2.426 | 2.444 | 2.456 | 2.450 | 2.435 | 2.429 | 2.442 | 2.451 | 2.463 | 2.491 |
| | 22 | 2.623 | 2.641 | 2.675 | 2.675 | 2.675 | 2.672 | 2.658 | 2.628 | 2.638 | 2.616 | 2.600 | 2.580 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 2.488 | 2.506 | 2.512 | 2.521 | 2.513 | 2.508 | 2.451 | 2.475 | 2.454 | 2.452 | 2.441 | 2.446 |
| | 25 | 2.426 | 2.430 | 2.428 | 2.414 | 2.402 | 2.385 | 2.365 | 2.336 | 2.313 | 2.303 | 2.294 | 2.283 |
| | 26 | 2.427 | 2.438 | 2.442 | 2.451 | 2.441 | 2.422 | 2.428 | 2.428 | 2.436 | 2.448 | 2.458 | 2.474 |
| | 27 | 2.480 | 2.488 | 2.502 | 2.507 | 2.500 | 2.489 | 2.478 | 2.462 | 2.460 | 2.472 | 2.480 | 2.496 |
| | 28 | 2.665 | 2.668 | 2.672 | 2.662 | 2.652 | 2.641 | 2.573 | 2.573 | 2.559 | 2.515 | 2.480 | 2.466 |
| Hourly Means | 2.5992 | 2.6047 | 2.6139 | 2.6196 | 2.6150 | 2.6132 | 2.5973 | 2.5793 | 2.5704 | 2.5668 | 2.5621 | 2.5651 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.640 | 2.660 | 2.672 | 2.692 | 2.725 | 2.728 | 2.728 | 2.728 | 2.726 | 2.766 | 2.782 | 2.801 | 2.6046 |
| 2.656 | 2.845 | 2.829 | 2.818 | 2.814 | 2.788 | 2.748 | 2.734 | 2.726 | 2.682 | 2.626 | 2.583 | 2.8053 |
| 2.175 | 2.197 | 2.261 | 2.312 | 2.349 | 2.371 | 2.389 | 2.400 | 2.406 | 2.471 | 2.471 | 2.514 | 2.3613 |
| 2.504 | 2.491 | 2.481 | 2.443 | 2.431 | 2.401 | — | — | — | — | — | — | 2.5458 |
| — | — | — | — | — | — | 2.599 | 2.609 | 2.635 | 2.647 | 2.656 | 2.664 | 2.5719 |
| 2.610 | 2.592 | 2.584 | 2.562 | 2.517 | 2.483 | 2.443 | 2.392 | 2.338 | 2.302 | 2.264 | 2.201 | 2.3098 |
| 2.324 | 2.358 | 2.390 | 2.402 | 2.424 | 2.438 | 2.448 | 2.458 | 2.480 | 2.502 | 2.490 | 2.491 | 2.4961 |
| 2.531 | 2.531 | 2.531 | 2.521 | 2.497 | 2.486 | 2.463 | 2.444 | 2.436 | 2.415 | 2.396 | 2.386 | 2.4127 |
| 2.303 | 2.333 | 2.372 | 2.426 | 2.454 | 2.475 | 2.506 | 2.525 | 2.541 | 2.547 | 2.547 | 2.548 | 2.5947 |
| 2.606 | 2.600 | 2.596 | 2.609 | 2.609 | 2.599 | 2.595 | 2.599 | 2.595 | 2.572 | 2.548 | 2.536 | 2.4228 |
| 2.437 | 2.445 | 2.439 | 2.429 | 2.413 | 2.393 | — | — | — | — | — | — | 2.3628 |
| — | — | — | — | — | — | 2.366 | 2.334 | 2.292 | 2.250 | 2.202 | 2.156 | 2.7912 |
| 2.424 | 2.462 | 2.482 | 2.505 | 2.525 | 2.513 | 2.525 | 2.539 | 2.577 | 2.603 | 2.634 | 2.664 | 2.7724 |
| 2.846 | 2.829 | 2.811 | 2.799 | 2.797 | 2.785 | 2.761 | 2.737 | 2.741 | 2.731 | 2.720 | 2.711 | 2.7585 |
| 2.794 | 2.810 | 2.810 | 2.808 | 2.798 | 2.791 | 2.777 | 2.783 | 2.804 | 2.798 | 2.790 | 2.784 | 2.4896 |
| 2.798 | 2.787 | 2.781 | 2.773 | 2.752 | 2.730 | 2.700 | 2.672 | 2.642 | 2.595 | 2.555 | 2.487 | 2.9539 |
| 2.380 | 2.420 | 2.426 | 2.479 | 2.514 | 2.544 | 2.564 | 2.590 | 2.638 | 2.683 | 2.713 | 2.725 | 2.6857 |
| 3.110 | 3.144 | 3.151 | 3.158 | 3.186 | 3.206 | — | — | — | — | — | — | 2.5798 |
| — | — | — | — | — | — | 2.842 | 2.828 | 2.818 | 2.827 | 2.817 | 2.806 | 2.9779 |
| 2.700 | 2.680 | 2.658 | 2.655 | 2.644 | 2.632 | 2.605 | 2.569 | 2.567 | 2.567 | 2.542 | 2.536 | 2.8061 |
| 2.542 | 2.568 | 2.582 | 2.606 | 2.618 | 2.640 | 2.658 | 2.665 | 2.697 | 2.721 | 2.741 | 2.779 | 2.4909 |
| 3.000 | 3.010 | 3.016 | 3.036 | 3.038 | 3.035 | 3.029 | 3.031 | 3.048 | 3.029 | 3.033 | 3.035 | 2.5773 |
| 2.755 | 2.757 | 2.739 | 2.727 | 2.725 | 2.728 | 2.709 | 2.694 | 2.692 | 2.686 | 2.655 | 2.639 | 2.6166 |
| 2.440 | 2.426 | 2.428 | 2.416 | 2.421 | 2.421 | 2.421 | 2.405 | 2.415 | 2.426 | 2.435 | 2.430 | 2.4598 |
| 2.572 | 2.591 | 2.605 | 2.610 | 2.605 | 2.616 | — | — | — | — | — | — | 2.6980 |
| — | — | — | — | — | — | 2.727 | 2.705 | 2.717 | 2.695 | 2.695 | 2.693 | 2.7330 |
| 2.639 | 2.624 | 2.624 | 2.608 | 2.590 | 2.588 | 2.570 | 2.566 | 2.528 | 2.520 | 2.506 | 2.488 | 2.9815 |
| 2.404 | 2.428 | 2.466 | 2.482 | 2.492 | 2.508 | 2.515 | 2.543 | 2.567 | 2.583 | 2.602 | 2.609 | 2.6166 |
| 2.718 | 2.724 | 2.727 | 2.739 | 2.744 | 2.747 | 2.746 | 2.753 | 2.773 | 2.785 | 2.803 | 2.823 | 2.4598 |
| 2.706 | 2.704 | 2.699 | 2.687 | 2.670 | 2.653 | 2.638 | 2.634 | 2.635 | 2.641 | 2.648 | 2.670 | 2.6980 |
| 3.030 | 3.045 | 3.064 | 3.085 | 3.104 | 3.120 | 3.135 | 3.135 | 3.149 | 3.139 | 3.121 | 3.121 | 2.7330 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2.9815 |
| 2.6239 | 2.6319 | 2.6379 | 2.6440 | 2.6465 | 2.6451 | 2.6373 | 2.6323 | 2.6364 | 2.6364 | 2.6293 | 2.6252 | 2.6244 |
| 3.054 | 3.054 | 3.048 | 3.048 | 3.046 | 3.046 | — | — | — | — | — | — | 3.0769 |
| — | — | — | — | — | — | 3.069 | 3.061 | 3.050 | 3.047 | 3.041 | 3.026 | 2.6777 |
| 2.710 | 2.682 | 2.610 | 2.513 | 2.483 | 2.429 | 2.403 | 2.392 | 2.344 | 2.302 | 2.263 | 2.225 | 2.1438 |
| 2.159 | 2.163 | 2.153 | 2.161 | 2.160 | 2.154 | 2.143 | 2.147 | 2.138 | 2.124 | 2.128 | 2.117 | 2.2218 |
| 2.249 | 2.273 | 2.293 | 2.319 | 2.327 | 2.330 | 2.330 | 2.335 | 2.360 | 2.376 | 2.399 | 2.429 | 2.5755 |
| 2.576 | 2.600 | 2.612 | 2.603 | 2.604 | 2.604 | 2.623 | 2.640 | 2.662 | 2.674 | 2.688 | 2.698 | 2.8133 |
| 2.809 | 2.832 | 2.843 | 2.847 | 2.852 | 2.852 | 2.852 | 2.852 | 2.872 | 2.876 | 2.889 | 2.908 | 2.9005 |
| 2.926 | 2.932 | 2.942 | 2.943 | 2.923 | 2.922 | — | — | — | — | — | — | 2.4676 |
| — | — | — | — | — | — | 2.729 | 2.731 | 2.741 | 2.758 | 2.748 | 2.727 | 2.2207 |
| 2.398 | 2.366 | 2.353 | 2.332 | 2.322 | 2.310 | 2.320 | 2.335 | 2.343 | 2.341 | 2.354 | 2.316 | 2.6824 |
| 2.193 | 2.181 | 2.161 | 2.129 | 2.121 | 2.111 | 2.097 | 2.097 | 2.089 | 2.089 | 2.095 | 2.115 | 3.0444 |
| 2.733 | 2.798 | 2.873 | 2.885 | 2.896 | 2.917 | 2.933 | 2.967 | 2.996 | 3.011 | 3.032 | 3.059 | 2.6624 |
| 3.068 | 3.056 | 3.020 | 3.007 | 2.999 | 2.991 | 2.969 | 2.961 | 2.949 | 2.919 | 2.912 | 2.910 | 2.4955 |
| 2.618 | 2.617 | 2.591 | 2.589 | 2.564 | 2.552 | 2.544 | 2.513 | 2.504 | 2.479 | 2.467 | 2.471 | 2.6222 |
| 2.404 | 2.470 | 2.454 | 2.489 | 2.493 | 2.498 | — | — | — | — | — | — | 2.6663 |
| — | — | — | — | — | — | 2.644 | 2.644 | 2.638 | 2.629 | 2.626 | 2.622 | 2.7573 |
| 2.644 | 2.666 | 2.682 | 2.695 | 2.711 | 2.723 | 2.723 | 2.719 | 2.725 | 2.735 | 2.737 | 2.759 | 2.6300 |
| 2.755 | 2.755 | 2.751 | 2.736 | 2.744 | 2.730 | 2.746 | 2.734 | 2.731 | 2.721 | 2.717 | 2.721 | 2.4229 |
| 2.636 | 2.627 | 2.618 | 2.601 | 2.571 | 2.557 | 2.551 | 2.541 | 2.536 | 2.522 | 2.515 | 2.512 | 2.5050 |
| 2.400 | 2.400 | 2.384 | 2.372 | 2.358 | 2.346 | 2.342 | 2.370 | 2.376 | 2.377 | 2.379 | 2.397 | 2.5516 |
| 2.509 | 2.512 | 2.526 | 2.548 | 2.556 | 2.550 | 2.576 | 2.594 | 2.625 | 2.605 | 2.615 | 2.623 | 2.4610 |
| 2.555 | 2.531 | 2.506 | 2.470 | 2.443 | 2.425 | — | — | — | — | — | — | 2.3594 |
| — | — | — | — | — | — | 2.400 | 2.422 | 2.435 | 2.437 | 2.455 | 2.478 | 2.4654 |
| 2.456 | 2.456 | 2.456 | 2.446 | 2.433 | 2.436 | 2.438 | 2.448 | 2.448 | 2.428 | 2.428 | 2.424 | 2.5374 |
| 2.291 | 2.297 | 2.301 | 2.302 | 2.326 | 2.338 | 2.356 | 2.364 | 2.385 | 2.393 | 2.460 | 2.434 | 2.4567 |
| 2.475 | 2.483 | 2.484 | 2.498 | 2.502 | 2.504 | 2.501 | 2.499 | 2.493 | 2.480 | 2.478 | 2.479 | 2.5748 |
| 2.514 | 2.516 | 2.531 | 2.570 | 2.585 | 2.596 | 2.596 | 2.618 | 2.618 | 2.631 | 2.649 | 2.660 | 2.4567 |
| 2.438 | 2.411 | 2.415 | 2.393 | 2.346 | 2.294 | 2.265 | 2.236 | 2.211 | 2.232 | 2.277 | 2.317 | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2.5654 | 2.5699 | 2.5670 | 2.5623 | 2.5569 | 2.5506 | 2.5479 | 2.5508 | 2.5529 | 2.5494 | 2.5563 | 2.5595 | 2.5748 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 2.349 | 2.395 | 2.411 | 2.432 | 2.460 | 2.472 | 2.473 | 2.467 | 2.487 | 2.508 | 2.511 | 2.526 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 2.367 | 2.435 | 2.485 | 2.527 | 2.574 | 2.612 | 2.654 | 2.676 | 2.712 | 2.733 | 2.755 | 2.782 |
| | 4 | 2.834 | 2.839 | 2.846 | 2.838 | 2.826 | 2.807 | 2.783 | 2.756 | 2.720 | 2.699 | 2.684 | 2.648 |
| | 5 | 2.030 | 2.042 | 2.056 | 2.057 | 2.073 | 2.139 | 2.185 | 2.234 | 2.303 | 2.375 | 2.420 | 2.467 |
| | 6 | 2.886 | 2.916 | 2.934 | 2.945 | 2.950 | 2.950 | 2.922 | 2.904 | 2.870 | 2.847 | 2.826 | 2.804 |
| | 7 | 2.696 | 2.688 | 2.694 | 2.705 | 2.682 | 2.657 | 2.626 | 2.619 | 2.579 | 2.575 | 2.555 | 2.521 |
| | 8 | 2.379 | 2.405 | 2.419 | 2.439 | 2.457 | 2.473 | 2.468 | 2.471 | 2.497 | 2.518 | 2.538 | 2.560 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 2.701 | 2.701 | 2.698 | 2.698 | 2.679 | 2.668 | 2.624 | 2.596 | 2.580 | 2.569 | 2.559 | 2.535 |
| | 11 | 2.646 | 2.678 | 2.714 | 2.743 | 2.779 | 2.806 | 2.814 | 2.806 | 2.801 | 2.799 | 2.797 | 2.797 |
| | 12 | 2.799 | 2.796 | 2.796 | 2.784 | 2.777 | 2.766 | 2.760 | 2.762 | 2.734 | 2.734 | 2.729 | 2.727 |
| | 13 | 2.788 | 2.803 | 2.803 | 2.822 | 2.824 | 2.818 | 2.808 | 2.783 | 2.758 | 2.748 | 2.736 | 2.724 |
| | 14 | 2.484 | 2.460 | 2.450 | 2.417 | 2.385 | 2.362 | 2.327 | 2.284 | 2.266 | 2.266 | 2.302 | 2.332 |
| | 15 | 2.497 | 2.498 | 2.498 | 2.498 | 2.484 | 2.476 | 2.476 | 2.462 | 2.440 | 2.444 | 2.430 | 2.430 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 2.941 | 2.957 | 2.966 | 2.977 | 2.988 | 2.011 | 2.025 | 2.026 | 2.034 | 2.048 | 2.074 | 2.084 |
| | 18 | 2.179 | 2.210 | 2.194 | 2.201 | 2.200 | 2.202 | 2.209 | 2.227 | 2.235 | 2.267 | 2.281 | 2.320 |
| | 19 | 2.440 | 2.440 | 2.454 | 2.456 | 2.458 | 2.442 | 2.444 | 2.432 | 2.417 | 2.443 | 2.456 | 2.481 |
| | 20 | 2.595 | 2.605 | 2.623 | 2.645 | 2.671 | 2.675 | 2.678 | 2.667 | 2.696 | 2.710 | 2.721 | 2.747 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 2.850 | 2.854 | 2.869 | 2.861 | 2.871 | 2.857 | 2.839 | 2.830 | 2.810 | 2.791 | 2.768 | 2.744 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 2.490 | 2.506 | 2.528 | 2.532 | 2.542 | 2.556 | 2.569 | 2.591 | 2.601 | 2.619 | 2.644 | 2.684 |
| | 25 | 2.916 | 2.950 | 2.962 | 2.982 | 2.984 | 2.976 | 2.962 | 2.937 | 2.919 | 2.916 | 2.908 | 2.911 |
| | 26 | 2.928 | 2.929 | 2.919 | 2.911 | 2.864 | 2.813 | 2.765 | 2.727 | 2.710 | 2.675 | 2.657 | 2.633 |
| | 27 | 2.667 | 2.691 | 2.706 | 2.719 | 2.714 | 2.706 | 2.699 | 2.679 | 2.651 | 2.651 | 2.642 | 2.634 |
| | 28 | 2.693 | 2.725 | 2.744 | 2.757 | 2.766 | 2.766 | 2.775 | 2.772 | 2.769 | 2.769 | 2.758 | 2.778 |
| | 29 | 2.762 | 2.757 | 2.761 | 2.744 | 2.752 | 2.732 | 2.705 | 2.673 | 2.658 | 2.654 | 2.654 | 2.654 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 2.646 | 2.655 | 2.647 | 2.634 | 2.622 | 2.589 | 2.564 | 2.539 | 2.494 | 2.460 | 2.430 | 2.393 |
| Hourly Means | 2.5825 | 2.5974 | 2.6071 | 2.6130 | 2.6153 | 2.6132 | 2.6062 | 2.5968 | 2.5896 | 2.5942 | 2.5946 | 2.5980 | |
| APRIL. | 1 | 2.201 | 2.235 | 2.322 | 2.351 | 2.384 | 2.407 | 2.434 | 2.451 | 2.463 | 2.479 | 2.497 | 2.516 |
| | 2 | 2.385 | 2.359 | 2.340 | 2.305 | 2.282 | 2.279 | 2.340 | 2.372 | 2.438 | 2.488 | 2.526 | 2.556 |
| | 3 | 2.856 | 2.885 | 2.886 | 2.902 | 2.900 | 2.883 | 2.860 | 2.826 | 2.783 | 2.757 | 2.747 | 2.699 |
| | 4 | 2.270 | 2.308 | 2.357 | 2.382 | 2.412 | 2.420 | 2.435 | 2.461 | 2.471 | 2.463 | 2.473 | 2.489 |
| | 5 | 2.654 | 2.662 | 2.651 | 2.631 | 2.629 | 2.615 | 2.594 | 2.594 | 2.586 | 2.594 | 2.612 | 2.621 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 2.523 | 2.530 | 2.531 | 2.548 | 2.570 | 2.573 | 2.573 | 2.574 | 2.582 | 2.595 | 2.610 | 2.634 |
| | 8 | 2.762 | 2.782 | 2.782 | 2.789 | 2.805 | 2.811 | 2.819 | 2.822 | 2.810 | 2.821 | 2.830 | 2.846 |
| | 9 | 2.911 | 2.912 | 2.901 | 2.882 | 2.865 | 2.831 | 2.776 | 2.758 | 2.726 | 2.681 | 2.633 | 2.612 |
| | 10 | 2.154 | 2.172 | 2.176 | 2.167 | 2.177 | 2.196 | 2.219 | 2.235 | 2.275 | 2.284 | 2.314 | 2.346 |
| | 11 | 2.597 | 2.614 | 2.650 | 2.667 | 2.686 | 2.689 | 2.690 | 2.692 | 2.697 | 2.705 | 2.714 | 2.721 |
| | 12 | 2.866 | 2.880 | 2.890 | 2.900 | 2.899 | 2.884 | 2.862 | 2.840 | 2.814 | 2.809 | 2.799 | 2.796 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 2.685 | 2.713 | 2.715 | 2.718 | 2.713 | 2.693 | 2.658 | 2.640 | 2.625 | 2.595 | 2.581 | 2.588 |
| | 15 | 2.670 | 2.689 | 2.696 | 2.690 | 2.697 | 2.682 | 2.662 | 2.647 | 2.637 | 2.624 | 2.611 | 2.612 |
| | 16 | 2.506 | 2.504 | 2.503 | 2.494 | 2.486 | 2.480 | 2.484 | 2.475 | 2.457 | 2.466 | 2.452 | 2.444 |
| | 17 | 2.485 | 2.515 | 2.511 | 2.517 | 2.539 | 2.527 | 2.535 | 2.551 | 2.561 | 2.567 | 2.579 | 2.591 |
| | 18 | 2.613 | 2.653 | 2.665 | 2.669 | 2.667 | 2.675 | 2.685 | 2.658 | 2.666 | 2.648 | 2.650 | 2.618 |
| | 19 | 2.528 | 2.528 | 2.528 | 2.521 | 2.480 | 2.510 | 2.500 | 2.500 | 2.480 | 2.468 | 2.460 | 2.480 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 2.724 | 2.746 | 2.751 | 2.752 | 2.752 | 2.752 | 2.743 | 2.752 | 2.760 | 2.764 | 2.770 | 2.753 |
| | 22 | 2.723 | 2.731 | 2.734 | 2.736 | 2.729 | 2.714 | 2.694 | 2.685 | 2.650 | 2.647 | 2.623 | 2.614 |
| | 23 | 2.494 | 2.496 | 2.512 | 2.501 | 2.494 | 2.494 | 2.477 | 2.448 | 2.440 | 2.436 | 2.422 | 2.417 |
| | 24 | 2.550 | 2.576 | 2.590 | 2.586 | 2.593 | 2.575 | 2.560 | 2.548 | 2.537 | 2.541 | 2.539 | 2.562 |
| | 25 | 2.530 | 2.547 | 2.540 | 2.534 | 2.492 | 2.497 | 2.479 | 2.495 | 2.387 | 2.355 | 2.355 | 2.352 |
| | 26 | 2.435 | 2.447 | 2.437 | 2.431 | 2.425 | 2.421 | 2.398 | 2.388 | 2.371 | 2.346 | 2.341 | 2.329 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 2.724 | 2.756 | 2.756 | 2.760 | 2.756 | 2.753 | 2.736 | 2.737 | 2.717 | 2.713 | 2.702 | 2.702 |
| | 29 | 2.846 | 2.868 | 2.869 | 2.894 | 2.895 | 2.899 | 2.884 | 2.883 | 2.863 | 2.869 | 2.896 | 2.878 |
| | 30 | 2.739 | 2.749 | 2.736 | 2.724 | 2.724 | 2.696 | 2.666 | 2.657 | 2.635 | 2.588 | 2.593 | 2.577 |
| | Hourly Means | 2.5935 | 2.6099 | 2.6165 | 2.6173 | 2.6173 | 2.6137 | 2.6066 | 2.6042 | 2.5935 | 2.5886 | 2.5896 | 2.5905 |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.534 | 2.546 | 2.562 | 2.552 | 2.547 | 2.554 | — | — | — | — | — | — | 2.4157 |
| — | — | — | — | — | — | 2.111 | 2.133 | 2.155 | 2.216 | 2.256 | 2.321 | 2.7127 |
| 2.810 | 2.828 | 2.828 | 2.830 | 2.830 | 2.807 | 2.824 | 2.828 | 2.818 | 2.792 | 2.788 | 2.810 | 2.5781 |
| 2.606 | 2.560 | 2.536 | 2.536 | 2.500 | 2.428 | 2.400 | 2.317 | 2.267 | 2.190 | 2.142 | 2.112 | 2.4562 |
| 2.513 | 2.573 | 2.597 | 2.645 | 2.684 | 2.722 | 2.741 | 2.770 | 2.796 | 2.813 | 2.843 | 2.870 | 2.8089 |
| 2.782 | 2.773 | 2.753 | 2.731 | 2.717 | 2.712 | 2.702 | 2.695 | 2.717 | 2.689 | 2.693 | 2.695 | 2.5375 |
| 2.503 | 2.503 | 2.501 | 2.501 | 2.477 | 2.441 | 2.431 | 2.443 | 2.411 | 2.371 | 2.351 | 2.371 | — |
| 2.564 | 2.595 | 2.615 | 2.615 | 2.603 | 2.614 | — | — | — | — | — | — | 2.5600 |
| — | — | — | — | — | — | 2.715 | 2.717 | 2.700 | 2.696 | 2.684 | 2.697 | 2.5863 |
| 2.535 | 2.535 | 2.535 | 2.543 | 2.529 | 2.513 | 2.511 | 2.530 | 2.527 | 2.542 | 2.572 | 2.592 | 2.7898 |
| 2.805 | 2.803 | 2.807 | 2.814 | 2.814 | 2.823 | 2.834 | 2.834 | 2.819 | 2.809 | 2.807 | 2.807 | 2.7587 |
| 2.735 | 2.745 | 2.753 | 2.767 | 2.763 | 2.752 | 2.749 | 2.749 | 2.756 | 2.740 | 2.761 | 2.774 | 2.7023 |
| 2.720 | 2.714 | 2.700 | 2.681 | 2.664 | 2.648 | 2.626 | 2.597 | 2.558 | 2.522 | 2.508 | 2.502 | 2.4177 |
| 2.398 | 2.432 | 2.461 | 2.468 | 2.482 | 2.478 | 2.479 | 2.482 | 2.479 | 2.478 | 2.477 | 2.477 | — |
| 2.432 | 2.446 | 2.446 | 2.444 | 2.450 | 2.442 | — | — | — | — | — | — | 2.3432 |
| — | — | — | — | — | — | 2.036 | 2.032 | 2.006 | 2.982 | 2.949 | 2.939 | 2.0775 |
| 2.104 | 2.114 | 2.136 | 2.155 | 2.154 | 2.148 | 2.146 | 2.153 | 2.149 | 2.143 | 2.153 | 2.173 | 2.3130 |
| 2.347 | 2.375 | 2.392 | 2.408 | 2.408 | 2.408 | 2.410 | 2.406 | 2.406 | 2.402 | 2.402 | 2.424 | 2.4881 |
| 2.499 | 2.526 | 2.542 | 2.538 | 2.532 | 2.519 | 2.507 | 2.519 | 2.529 | 2.535 | 2.540 | 2.565 | — |
| 2.769 | 2.783 | 2.790 | 2.797 | 2.797 | 2.823 | — | — | — | — | — | — | 2.7341 |
| — | — | — | — | — | — | — | — | 2.849 | 2.837 | 2.836 | 2.836 | — |
| 2.737 | 2.740 | 2.742 | 2.742 | 2.738 | 2.736 | — | — | — | — | — | — | 2.7093 |
| — | — | — | — | — | — | 2.414 | 2.422 | 2.430 | 2.440 | 2.460 | 2.478 | — |
| 2.721 | 2.754 | 2.774 | 2.790 | 2.800 | 2.819 | 2.825 | 2.828 | 2.830 | 2.840 | 2.884 | 2.890 | 2.6924 |
| 2.924 | 2.949 | 2.954 | 2.962 | 2.962 | 2.962 | 2.954 | 2.957 | 2.945 | 2.943 | 2.940 | 2.923 | 2.9458 |
| 2.613 | 2.591 | 2.583 | 2.591 | 2.589 | 2.589 | 2.575 | 2.595 | 2.603 | 2.607 | 2.621 | 2.633 | 2.6967 |
| 2.632 | 2.627 | 2.605 | 2.612 | 2.611 | 2.612 | 2.605 | 2.615 | 2.617 | 2.617 | 2.638 | 2.662 | 2.6505 |
| 2.778 | 2.786 | 2.791 | 2.793 | 2.792 | 2.793 | 2.764 | 2.756 | 2.749 | 2.738 | 2.744 | 2.741 | 2.7624 |
| 2.665 | 2.665 | 2.678 | 2.684 | 2.684 | 2.684 | — | — | — | — | — | — | 2.6850 |
| — | — | — | — | — | — | 2.659 | 2.657 | 2.643 | 2.630 | 2.638 | 2.646 | — |
| 2.368 | 2.334 | 2.309 | 2.294 | 2.272 | 2.260 | 2.226 | 2.150 | 2.146 | 2.142 | 2.114 | 2.175 | 2.3943 |
| 2.6038 | 2.6119 | 2.6156 | 2.6197 | 2.6160 | 2.6115 | 2.5518 | 2.5494 | 2.5562 | 4.5486 | 2.5520 | 2.5645 | 2.5922 |
| 2.550 | 2.570 | 2.579 | 2.577 | 2.581 | 2.585 | 2.529 | 2.529 | 2.514 | 2.506 | 2.457 | 2.399 | 2.4632 |
| 2.596 | 2.600 | 2.622 | 2.613 | 2.605 | 2.622 | 2.639 | 2.677 | 2.733 | 2.753 | 2.777 | 2.816 | 2.5301 |
| 2.626 | 2.564 | 2.509 | 2.442 | 2.360 | 2.286 | 2.201 | 2.166 | 2.148 | 2.132 | 2.165 | 2.216 | 2.5750 |
| 2.507 | 2.524 | 2.560 | 2.565 | 2.572 | 2.584 | 2.596 | 2.609 | 2.609 | 2.611 | 2.631 | 2.646 | 2.4981 |
| 2.626 | 2.625 | 2.644 | 2.644 | 2.634 | 2.639 | — | — | — | — | — | — | 2.6037 |
| — | — | — | — | — | — | 2.582 | 2.585 | 2.564 | 2.510 | 2.502 | 2.491 | — |
| 2.656 | 2.680 | 2.709 | 2.715 | 2.712 | 2.713 | 2.703 | 2.694 | 2.711 | 2.720 | 2.733 | 2.741 | 2.6387 |
| 2.864 | 2.880 | 2.891 | 2.901 | 2.899 | 2.916 | 2.919 | 2.922 | 2.918 | 2.905 | 2.905 | 2.905 | 2.8543 |
| 2.582 | 2.544 | 2.522 | 2.484 | 2.455 | 2.416 | 2.359 | 2.315 | 2.286 | 2.224 | 2.175 | 2.155 | 2.5835 |
| 2.370 | 2.401 | 2.425 | 2.446 | 2.458 | 2.468 | 2.478 | 2.479 | 2.479 | 2.503 | 2.525 | 2.559 | 2.3469 |
| 2.730 | 2.752 | 2.780 | 2.798 | 2.799 | 2.811 | 2.813 | 2.815 | 2.823 | 2.835 | 2.834 | 2.839 | 2.7396 |
| 2.771 | 2.737 | 2.737 | 2.717 | 2.713 | 2.697 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.581 | 2.587 | 2.603 | 2.614 | 2.636 | 2.668 | 2.7625 |
| 2.590 | 2.588 | 2.614 | 2.631 | 2.631 | 2.632 | 2.635 | 2.632 | 2.641 | 2.642 | 2.649 | 2.652 | 2.6442 |
| 2.595 | 2.597 | 2.604 | 2.603 | 2.576 | 2.574 | 2.575 | 2.555 | 2.548 | 2.543 | 2.533 | 2.514 | 2.6139 |
| 2.438 | 2.431 | 2.431 | 2.445 | 2.445 | 2.455 | 2.447 | 2.435 | 2.451 | 2.451 | 2.471 | 2.525 | 2.4657 |
| 2.601 | 2.599 | 2.617 | 2.617 | 2.619 | 2.605 | 2.627 | 2.669 | 2.657 | 2.638 | 2.635 | 2.679 | 2.5850 |
| 2.620 | 2.598 | 2.604 | 2.612 | 2.597 | 2.585 | 2.557 | 2.571 | 2.555 | 2.511 | 2.505 | 2.510 | 2.6122 |
| 2.494 | 2.498 | 2.514 | 2.537 | 2.537 | 2.541 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.652 | 2.648 | 2.656 | 2.678 | 2.688 | 2.702 | 2.5470 |
| 2.747 | 2.763 | 2.769 | 2.775 | 2.773 | 2.760 | 2.755 | 2.741 | 2.738 | 2.746 | 2.752 | 2.736 | 2.7531 |
| 2.600 | 2.590 | 2.576 | 2.543 | 2.529 | 2.535 | 2.535 | 2.497 | 2.497 | 2.488 | 2.490 | 2.494 | 2.6106 |
| 2.486 | 2.496 | 2.466 | 2.483 | 2.483 | 2.501 | 2.507 | 2.508 | 2.516 | 2.522 | 2.516 | 2.530 | 2.4852 |
| 2.570 | 2.550 | 2.618 | 2.626 | 2.620 | 2.616 | 2.614 | 2.641 | 2.654 | 2.657 | 2.622 | 2.557 | 2.5880 |
| 6.334 | 2.324 | 2.356 | 2.385 | 2.378 | 2.374 | 2.377 | 2.366 | 2.377 | 2.373 | 2.399 | 2.401 | 2.4170 |
| 2.308 | 2.304 | 2.320 | 2.327 | 2.337 | 2.341 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.643 | 2.661 | 2.681 | 2.687 | 2.699 | 2.714 | 2.4496 |
| 2.710 | 2.730 | 2.742 | 2.756 | 2.753 | 2.750 | 2.767 | 2.757 | 2.767 | 2.782 | 2.818 | 2.836 | 2.7492 |
| 2.870 | 2.880 | 2.879 | 2.864 | 2.836 | 2.833 | 2.833 | 2.820 | 2.800 | 2.782 | 2.746 | 2.738 | 2.8510 |
| 2.544 | 2.544 | 2.544 | 2.556 | 2.564 | 2.564 | 2.544 | 2.544 | 2.516 | 2.536 | 2.541 | 2.562 | 2.6101 |
| 2.5917 | 2.5911 | 2.6012 | 2.6024 | 2.5948 | 2.5924 | 2.5949 | 2.5932 | 2.5939 | 2.5903 | 2.5925 | 2.5994 | 2.5991 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MAY. | 1 | 2.566 | 2.572 | 2.569 | 2.568 | 2.555 | 2.548 | 2.536 | 2.514 | 2.496 | 2.464 | 2.461 | 2.492 |
| | 2 | 2.655 | 2.682 | 2.697 | 2.715 | 2.717 | 2.703 | 2.696 | 2.678 | 2.654 | 2.643 | 2.633 | 2.620 |
| | 3 | 2.675 | 2.655 | 2.664 | 2.663 | 2.644 | 2.610 | 2.589 | 2.559 | 2.538 | 2.524 | 2.526 | 2.518 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 2.832 | 2.850 | 2.843 | 2.843 | 2.845 | 2.833 | 2.801 | 2.801 | 2.761 | 2.749 | 2.718 | 2.736 |
| | 6 | 2.705 | 2.685 | 2.667 | 2.646 | 2.620 | 2.592 | 2.551 | 2.517 | 2.477 | 2.441 | 2.398 | 2.374 |
| | 7 | 2.318 | 2.320 | 2.352 | 2.395 | 2.435 | 2.451 | 2.471 | 2.495 | 2.514 | 2.539 | 2.550 | 2.583 |
| | 8 | 2.857 | 2.868 | 2.867 | 2.872 | 2.870 | 2.856 | 2.836 | 2.814 | 2.788 | 2.770 | 2.763 | 2.748 |
| | 9 | 2.744 | 2.758 | 2.782 | 2.788 | 2.806 | 2.810 | 2.826 | 2.835 | 2.837 | 2.843 | 2.852 | 2.870 |
| | 10 | 2.939 | 2.928 | 2.915 | 2.922 | 2.915 | 2.899 | 2.876 | 2.870 | 2.843 | 2.815 | 2.804 | 2.790 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 2.711 | 2.725 | 2.719 | 2.716 | 2.719 | 2.709 | 2.688 | 2.669 | 2.651 | 2.632 | 2.623 | 2.606 |
| | 13 | 2.637 | 2.645 | 2.641 | 2.634 | 2.626 | 2.611 | 2.588 | 2.571 | 2.547 | 2.525 | 2.510 | 2.506 |
| | 14 | 2.417 | 2.405 | 2.397 | 2.373 | 2.363 | 2.364 | 2.352 | 2.358 | 2.348 | 2.328 | 2.322 | 2.287 |
| | 15 | 2.466 | 2.466 | 2.491 | 2.520 | 2.565 | 2.585 | 2.601 | 2.603 | 2.598 | 2.600 | 2.606 | 2.621 |
| | 16 | 2.844 | 2.855 | 2.872 | 2.857 | 2.855 | 2.840 | 2.820 | 2.813 | 2.808 | 2.794 | 2.779 | 2.771 |
| | 17 | 2.790 | 2.801 | 2.805 | 2.792 | 2.781 | 2.760 | 2.743 | 2.727 | 2.698 | 2.682 | 2.665 | 2.657 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 2.447 | 2.466 | 2.466 | 2.473 | 2.462 | 2.451 | 2.440 | 2.408 | 2.406 | 2.428 | 2.422 | 2.406 |
| | 20 | 2.572 | 2.595 | 2.601 | 2.603 | 2.609 | 2.608 | 2.608 | 2.606 | 2.600 | 2.594 | 2.584 | 2.591 |
| | 21 | 2.762 | 2.776 | 2.784 | 2.790 | 2.786 | 2.779 | 2.761 | 2.759 | 2.744 | 2.733 | 2.719 | 2.715 |
| | 22 | 2.693 | 2.685 | 2.649 | 2.656 | 2.662 | 2.661 | 2.659 | 2.660 | 2.632 | 2.616 | 2.616 | 2.612 |
| | 23 | 2.671 | 2.678 | 2.684 | 2.681 | 2.680 | 2.654 | 2.637 | 2.611 | 2.586 | 2.569 | 2.548 | 2.517 |
| | 24 | 2.757 | 2.769 | 2.773 | 2.765 | 2.752 | 2.752 | 2.736 | 2.726 | 2.725 | 2.724 | 2.736 | 2.734 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 2.390 | 2.380 | 2.350 | 2.341 | 2.335 | 2.340 | 2.326 | 2.327 | 2.323 | 2.333 | 2.345 | 2.355 |
| | 27 | 2.511 | 2.511 | 2.517 | 2.504 | 2.497 | 2.468 | 2.439 | 2.457 | 2.446 | 2.424 | 2.413 | 2.402 |
| | 28 | 2.262 | 2.252 | 2.242 | 2.269 | 2.230 | 2.267 | 2.207 | 2.193 | 2.208 | 2.186 | 2.179 | 2.006 |
| | 29 | 2.662 | 2.685 | 2.718 | 2.732 | 2.756 | 2.756 | 2.757 | 2.765 | 2.773 | 2.793 | 2.798 | 2.802 |
| | 30 | 2.971 | 2.993 | 3.008 | 3.012 | 3.001 | 2.998 | 2.979 | 2.963 | 2.941 | 2.929 | 2.915 | 2.897 |
| | 31 | 2.932 | 2.946 | 2.957 | 2.946 | 2.941 | 2.938 | 2.917 | 2.888 | 2.870 | 2.855 | 2.850 | 2.823 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2.6587 | 2.6649 | 2.6678 | 2.6695 | 2.6677 | 2.6609 | 2.6459 | 2.6366 | 2.6227 | 2.6123 | 2.6054 | 2.6015 | |
| JUNE. | 2 | 2.648 | 2.652 | 2.650 | 2.654 | 2.645 | 2.640 | 2.636 | 2.603 | 2.594 | 2.585 | 2.579 | 2.582 |
| | 3 | 2.632 | 2.640 | 2.652 | 2.661 | 2.656 | 2.652 | 2.651 | 2.626 | 2.621 | 2.616 | 2.603 | 2.595 |
| | 4 | 2.672 | 2.671 | 2.669 | 2.657 | 2.657 | 2.650 | 2.627 | 2.605 | 2.589 | 2.554 | 2.528 | 2.529 |
| | 5 | 2.588 | 2.612 | 2.630 | 2.655 | 2.682 | 2.711 | 2.713 | 2.719 | 2.719 | 2.713 | 2.720 | 2.726 |
| | 6 | 2.817 | 2.831 | 2.831 | 2.835 | 2.825 | 2.825 | 2.819 | 2.816 | 2.813 | 2.787 | 2.791 | 2.769 |
| | 7 | 2.727 | 2.749 | 2.749 | 2.741 | 2.739 | 2.723 | 2.701 | 2.702 | 2.689 | 2.664 | 2.629 | 2.621 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 2.574 | 2.579 | 2.593 | 2.604 | 2.599 | 2.592 | 2.596 | 2.594 | 2.583 | 2.573 | 2.571 | 2.568 |
| | 10 | 2.713 | 2.715 | 2.710 | 2.715 | 2.712 | 2.696 | 2.675 | 2.662 | 2.632 | 2.624 | 2.602 | 2.596 |
| | 11 | 2.517 | 2.557 | 2.567 | 2.571 | 2.573 | 2.578 | 2.583 | 2.576 | 2.562 | 2.568 | 2.559 | 2.561 |
| | 12 | 2.284 | 2.276 | 2.256 | 2.266 | 2.222 | 2.240 | 2.205 | 2.213 | 2.213 | 2.217 | 2.209 | 2.182 |
| | 13 | 2.393 | 2.401 | 2.437 | 2.445 | 2.432 | 2.416 | 2.415 | 2.423 | 2.396 | 2.398 | 2.395 | 2.394 |
| | 14 | 2.517 | 2.538 | 2.548 | 2.556 | 2.566 | 2.572 | 2.575 | 2.585 | 2.605 | 2.620 | 2.637 | 2.655 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 2.631 | 2.623 | 2.649 | 2.650 | 2.642 | 2.630 | 2.648 | 2.623 | 2.613 | 2.585 | 2.601 | 2.581 |
| | 17 | 2.760 | 2.762 | 2.768 | 2.767 | 2.777 | 2.777 | 2.777 | 2.777 | 2.779 | 2.773 | 2.782 | 2.788 |
| | 18 | 2.867 | 2.871 | 2.875 | 2.869 | 2.867 | 2.862 | 2.840 | 2.837 | 2.819 | 2.808 | 2.786 | 2.771 |
| | 19 | 2.838 | 2.848 | 2.859 | 2.858 | 2.870 | 2.875 | 2.868 | 2.857 | 2.849 | 2.855 | 2.847 | 2.817 |
| | 20 | 2.791 | 2.777 | 2.763 | 2.759 | 2.737 | 2.718 | 2.691 | 2.681 | 2.656 | 2.635 | 2.621 | 2.602 |
| | 21 | 2.520 | 2.536 | 2.546 | 2.554 | 2.577 | 2.581 | 2.579 | 2.571 | 2.568 | 2.562 | 2.562 | 2.569 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 2.415 | 2.421 | 2.430 | 2.425 | 2.418 | 2.408 | 2.399 | 2.392 | 2.401 | 2.404 | 2.411 | 2.421 |
| | 24 | 2.428 | 2.420 | 2.443 | 2.430 | 2.428 | 2.417 | 2.376 | 2.359 | 2.398 | 2.380 | 2.392 | 2.394 |
| | 25 | 2.641 | 2.661 | 2.661 | 2.671 | 2.662 | 2.662 | 2.657 | 2.656 | 2.657 | 2.638 | 2.626 | 2.622 |
| | 26 | 2.662 | 2.668 | 2.662 | 2.661 | 2.666 | 2.651 | 2.625 | 2.620 | 2.616 | 2.603 | 2.597 | 2.567 |
| | 27 | 2.694 | 2.708 | 2.716 | 2.717 | 2.707 | 2.696 | 2.677 | 2.661 | 2.639 | 2.628 | 2.610 | 2.612 |
| | 28 | 2.542 | 2.548 | 2.522 | 2.476 | 2.460 | 2.451 | 2.450 | 2.438 | 2.414 | 2.416 | 2.398 | 2.398 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 2.541 | 2.557 | 2.560 | 2.570 | 2.596 | 2.614 | 2.614 | 2.623 | 2.625 | 2.633 | 2.631 | 2.631 |
| | Hourly Means | 2.6165 | 2.6248 | 2.6298 | 2.6307 | 2.6286 | 2.6255 | 2.6159 | 2.6088 | 2.6020 | 2.5936 | 2.5875 | 2.5817 |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.498 | 2.489 | 2.503 | 2.520 | 2.524 | 2.524 | 2.515 | 2.501 | 2.499 | 2.558 | 2.584 | 2.621 | 2.5282 |
| 2.600 | 2.597 | 2.624 | 2.646 | 2.647 | 2.645 | 2.646 | 2.638 | 2.637 | 2.648 | 2.658 | 2.665 | 2.6560 |
| 2.518 | 2.528 | 2.538 | 2.542 | 2.536 | 2.533 | — | — | — | — | — | — | 2.6144 |
| — | — | — | — | — | — | 2.674 | 2.681 | 2.704 | 2.747 | 2.779 | 2.800 | — |
| 2.734 | 2.734 | 2.756 | 2.768 | 2.768 | 2.755 | 2.745 | 2.740 | 2.728 | 2.710 | 2.696 | 2.705 | 2.7688 |
| 2.350 | 2.361 | 2.344 | 2.350 | 2.333 | 2.325 | 2.309 | 2.303 | 2.286 | 2.262 | 2.262 | 2.287 | 2.4352 |
| 2.606 | 2.655 | 2.725 | 2.717 | 2.730 | 2.747 | 2.765 | 2.780 | 2.797 | 2.806 | 2.824 | 2.844 | 2.6009 |
| 2.718 | 2.722 | 2.711 | 2.731 | 2.742 | 2.717 | 2.718 | 2.710 | 2.692 | 2.692 | 2.692 | 2.718 | 2.7697 |
| 2.871 | 2.885 | 2.897 | 2.910 | 2.901 | 2.916 | 2.904 | 2.908 | 2.908 | 2.910 | 2.911 | 2.927 | 2.8583 |
| 2.773 | 2.783 | 2.721 | 2.766 | 2.766 | 2.767 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.695 | 2.671 | 2.678 | 2.672 | 2.675 | 2.693 | 2.7990 |
| 2.608 | 2.608 | 2.616 | 2.626 | 2.631 | 2.639 | 2.633 | 2.621 | 2.619 | 2.616 | 2.623 | 2.634 | 2.6517 |
| 2.519 | 2.486 | 2.491 | 2.482 | 2.475 | 2.479 | 2.467 | 2.454 | 2.447 | 2.426 | 2.406 | 2.406 | 2.5241 |
| 2.278 | 2.298 | 2.309 | 2.298 | 2.284 | 2.284 | 2.279 | 2.264 | 2.294 | 2.320 | 2.349 | 2.434 | 2.3335 |
| 2.639 | 2.668 | 2.691 | 2.718 | 2.737 | 2.742 | 2.763 | 2.769 | 2.781 | 2.794 | 2.795 | 2.816 | 2.6515 |
| 2.763 | 2.763 | 2.765 | 2.776 | 2.776 | 2.784 | 2.785 | 2.777 | 2.783 | 2.779 | 2.772 | 2.779 | 2.8004 |
| 2.654 | 2.636 | 2.630 | 2.639 | 2.631 | 2.631 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.388 | 2.396 | 2.404 | 2.397 | 2.401 | 2.434 | 2.6313 |
| 2.416 | 2.410 | 2.470 | 2.442 | 2.483 | 2.483 | 2.484 | 2.494 | 2.510 | 2.521 | 2.541 | 2.556 | 2.4619 |
| 2.615 | 2.635 | 2.656 | 2.686 | 2.699 | 2.709 | 2.704 | 2.707 | 2.709 | 2.720 | 2.735 | 2.752 | 2.6458 |
| 2.716 | 2.710 | 2.716 | 2.730 | 2.726 | 2.726 | 2.722 | 2.720 | 2.697 | 2.694 | 2.689 | 2.694 | 2.7353 |
| 2.608 | 2.617 | 2.617 | 2.613 | 2.613 | 2.618 | 2.618 | 2.630 | 2.630 | 2.634 | 2.637 | 2.663 | 2.6375 |
| 2.527 | 2.546 | 2.567 | 2.597 | 2.604 | 2.637 | 2.644 | 2.669 | 2.712 | 2.722 | 2.739 | 2.753 | 2.6347 |
| 2.744 | 2.744 | 2.746 | 2.762 | 2.768 | 2.777 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.502 | 2.496 | 2.462 | 2.431 | 2.426 | 2.398 | 2.6752 |
| 2.382 | 2.385 | 2.415 | 2.429 | 2.442 | 2.452 | 2.461 | 2.461 | 2.466 | 2.473 | 2.488 | 2.498 | 2.3957 |
| 2.394 | 2.378 | 2.372 | 2.379 | 2.368 | 2.364 | 2.349 | — | — | — | 2.262 | 2.269 | 2.4154 |
| 2.249 | 2.272 | 2.316 | 2.377 | 2.395 | 2.448 | 2.489 | 2.510 | 2.552 | 2.583 | 2.591 | 2.639 | 2.3384 |
| 2.825 | 2.829 | 2.841 | 2.861 | 2.882 | 2.883 | 2.874 | 2.891 | 2.899 | 2.914 | 2.932 | 2.952 | 2.8158 |
| 2.894 | 2.895 | 2.900 | 2.901 | 2.896 | 2.891 | 2.892 | 2.898 | 2.899 | 2.899 | 2.911 | 2.932 | 2.9340 |
| 2.814 | 2.811 | 2.813 | 2.817 | 2.818 | 2.818 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.642 | 2.644 | 2.637 | 2.639 | 2.648 | 2.648 | 2.8172 |
| 2.6042 | 2.6091 | 5.6204 | 2.6327 | 2.6361 | 2.6405 | 2.6173 | 2.6282 | 2.6319 | 2.6372 | 2.6306 | 2.6488 | 2.6355 |
| 2.576 | 2.583 | 2.583 | 2.596 | 2.592 | 2.585 | 2.579 | 2.581 | 2.584 | 2.584 | 2.605 | 2.624 | 2.6058 |
| 2.596 | 2.602 | 2.608 | 2.631 | 2.631 | 2.637 | 2.639 | 2.648 | 2.650 | 2.667 | 2.667 | 2.673 | 2.6356 |
| 2.503 | 2.488 | 2.472 | 2.495 | 2.497 | 2.471 | 2.461 | 2.447 | 2.455 | 2.474 | 2.498 | 2.556 | 2.5510 |
| 2.743 | 2.744 | 2.750 | 2.773 | 2.780 | 2.795 | 2.785 | 2.782 | 2.774 | 2.784 | 2.795 | 2.808 | 2.7292 |
| 2.745 | 2.739 | 2.742 | 2.748 | 2.744 | 2.742 | 2.737 | 2.723 | 2.728 | 2.729 | 2.737 | 2.745 | 2.7757 |
| 2.597 | 2.583 | 2.583 | 2.566 | 2.570 | 2.564 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.433 | 2.447 | 2.467 | 2.489 | 2.509 | 2.548 | 2.6162 |
| 2.572 | 2.589 | 2.590 | 2.616 | 2.635 | 2.655 | 2.657 | 2.661 | 2.666 | 2.670 | 2.679 | 2.699 | 2.6131 |
| 2.590 | 2.566 | 2.557 | 2.546 | 2.525 | 2.497 | 2.471 | 2.473 | 2.418 | 2.450 | 2.465 | 2.495 | 2.5877 |
| 2.535 | 2.513 | 2.499 | 2.482 | 2.464 | 2.442 | 2.417 | 2.368 | 2.357 | 2.323 | 2.311 | 2.287 | 2.4904 |
| 2.202 | 2.205 | 2.216 | 2.241 | 2.241 | 2.264 | 2.272 | 2.284 | 2.304 | 2.323 | 2.345 | 2.369 | 2.2520 |
| 2.390 | 2.417 | 2.421 | 2.424 | 2.420 | 2.452 | 2.459 | 2.457 | 2.457 | 2.465 | 2.467 | 2.509 | 2.4285 |
| 2.680 | 2.694 | 2.727 | 2.749 | 2.763 | 2.779 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.496 | 2.528 | 2.552 | 2.572 | 2.578 | 2.605 | 2.6124 |
| 2.570 | 2.554 | 2.544 | 2.574 | 2.600 | 2.665 | 2.638 | 2.667 | 2.685 | 2.684 | 2.694 | 2.720 | 2.6280 |
| 2.800 | 2.795 | 2.810 | 2.823 | 2.821 | 2.822 | 2.822 | 2.818 | 2.829 | 2.834 | 2.841 | 2.852 | 2.7981 |
| 2.769 | 2.772 | 2.778 | 2.794 | 2.794 | 2.791 | 2.793 | 2.806 | 2.807 | 2.807 | 2.809 | 2.826 | 2.8174 |
| 2.805 | 2.801 | 2.795 | 2.803 | 2.796 | 2.801 | 2.802 | 2.786 | 2.782 | 2.780 | 2.781 | 2.795 | 2.8237 |
| 2.581 | 2.575 | 2.565 | 2.573 | 2.569 | 2.552 | 2.534 | 2.552 | 2.546 | 2.533 | 2.528 | 2.528 | 2.6278 |
| 2.572 | 2.588 | 2.588 | 2.603 | 2.612 | 2.613 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.399 | 2.385 | 2.382 | 2.374 | 2.385 | 2.396 | 2.5255 |
| 2.423 | 2.435 | 2.384 | 2.382 | 2.434 | 2.429 | 2.427 | 2.422 | 2.418 | 2.410 | 2.419 | 2.417 | 2.4144 |
| 2.406 | 2.416 | 2.442 | 2.463 | 2.484 | 2.498 | 2.527 | 2.540 | 2.559 | 2.573 | 2.600 | 2.628 | 2.4584 |
| 2.607 | 2.615 | 2.621 | 2.623 | 2.632 | 2.629 | 2.629 | 2.622 | 2.630 | 2.632 | 2.643 | 2.655 | 2.6397 |
| 2.576 | 2.590 | 2.598 | 2.613 | 2.624 | 2.625 | 2.631 | 2.627 | 2.624 | 2.629 | 2.662 | 2.680 | 2.6282 |
| 2.611 | 2.603 | 2.603 | 2.602 | 2.600 | 2.592 | 2.559 | 2.564 | 2.545 | 2.535 | 2.522 | 2.518 | 2.6216 |
| 2.398 | 2.380 | 2.380 | 2.378 | 2.372 | 2.360 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.512 | 2.513 | 2.524 | 2.514 | 2.528 | 2.533 | 2.4544 |
| 2.633 | 2.637 | 2.631 | 2.635 | 2.628 | 2.620 | 2.609 | 2.586 | 2.584 | 2.577 | 2.577 | 2.587 | 2.6041 |
| 2.5792 | 2.5794 | 2.5795 | 2.5893 | 2.5931 | 2.5952 | 2.5715 | 2.5715 | 2.5731 | 2.5765 | 2.5858 | 2.6021 | 2.5976 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 2.586 | 2.577 | 2.564 | 2.562 | 2.539 | 2.508 | 2.486 | 2.464 | 2.434 | 2.456 | 2.416 | 2.382 |
| | 2 | 2.383 | 2.391 | 2.392 | 2.428 | 2.420 | 2.418 | 2.418 | 2.406 | 2.400 | 2.405 | 2.399 | 2.381 |
| | 3 | 2.472 | 2.477 | 2.483 | 2.490 | 2.501 | 2.503 | 2.502 | 2.498 | 2.494 | 2.499 | 2.511 | 2.513 |
| | 4 | 2.635 | 2.645 | 2.646 | 2.664 | 2.671 | 2.673 | 2.684 | 2.667 | 2.665 | 2.662 | 2.651 | 2.649 |
| | 5 | 2.747 | 2.765 | 2.759 | 2.757 | 2.755 | 2.752 | 2.743 | 2.735 | 2.718 | 2.709 | 2.696 | 2.669 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 2.559 | 2.543 | 2.529 | 2.527 | 2.523 | 2.523 | 2.510 | 2.530 | 2.543 | 2.547 | 2.558 | 2.564 |
| | 8 | 2.643 | 2.643 | 2.650 | 2.631 | 2.634 | 2.624 | 2.611 | 2.612 | 2.609 | 2.596 | 2.572 | 2.574 |
| | 9 | 2.755 | 2.769 | 2.773 | 2.783 | 2.798 | 2.798 | 2.784 | 2.781 | 2.767 | 2.755 | 2.730 | 2.714 |
| | 10 | 2.778 | 2.774 | 2.783 | 2.779 | 2.777 | 2.772 | 2.753 | 2.740 | 2.717 | 2.702 | 2.691 | 2.677 |
| | 11 | 2.634 | 2.647 | 2.659 | 2.646 | 2.635 | 2.634 | 2.609 | 2.602 | 2.588 | 2.578 | 2.558 | 2.539 |
| | 12 | 2.516 | 2.498 | 2.492 | 2.482 | 2.429 | 2.422 | 2.404 | 2.393 | 2.380 | 2.355 | 2.345 | 2.347 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 2.371 | 2.381 | 2.379 | 2.377 | 2.376 | 2.365 | 2.371 | 2.363 | 2.358 | 2.346 | 2.335 | 2.331 |
| | 15 | 2.360 | 2.391 | 2.410 | 2.429 | 2.440 | 2.444 | 2.443 | 2.440 | 2.428 | 2.427 | 2.410 | 2.417 |
| | 16 | 2.451 | 2.456 | 2.462 | 2.450 | 2.456 | 2.438 | 2.422 | 2.411 | 2.398 | 2.373 | 2.357 | 2.344 |
| | 17 | 2.241 | 2.267 | 2.289 | 2.317 | 2.340 | 2.348 | 2.363 | 2.366 | 2.376 | 2.390 | 2.396 | 2.413 |
| | 18 | 2.649 | 2.665 | 2.685 | 2.698 | 2.710 | 2.715 | 2.711 | 2.706 | 2.703 | 2.704 | 2.690 | 2.684 |
| | 19 | 2.724 | 2.720 | 2.725 | 2.733 | 2.723 | 2.721 | 2.700 | 2.705 | 2.691 | 2.678 | 2.663 | 2.655 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 2.472 | 2.475 | 2.473 | 2.462 | 2.460 | 2.437 | 2.409 | 2.391 | 2.364 | 2.337 | 2.328 | 2.287 |
| | 22 | 2.438 | 2.444 | 2.444 | 2.439 | 2.425 | 2.422 | 2.414 | 2.404 | 2.412 | 2.422 | 2.442 | 2.448 |
| | 23 | 2.541 | 2.553 | 2.559 | 2.569 | 2.571 | 2.565 | 2.565 | 2.573 | 2.569 | 2.575 | 2.579 | 2.595 |
| | 24 | 2.611 | 2.619 | 2.615 | 2.620 | 2.638 | 2.628 | 2.613 | 2.583 | 2.573 | 2.568 | 2.567 | 2.562 |
| | 25 | 2.551 | 2.553 | 2.548 | 2.545 | 2.544 | 2.529 | 2.510 | 2.508 | 2.488 | 2.469 | 2.463 | 2.459 |
| | 26 | 2.432 | 2.437 | 2.430 | 2.425 | 2.421 | 2.416 | 2.408 | 2.393 | 2.371 | 2.358 | 2.352 | 2.342 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 2.432 | 2.458 | 2.462 | 2.459 | 2.454 | 2.452 | 2.452 | 2.440 | 2.423 | 2.423 | 2.407 | 2.412 |
| | 29 | 2.319 | 2.324 | 2.316 | 2.278 | 2.250 | 2.228 | 2.200 | 2.178 | 2.162 | 2.138 | 2.133 | 2.117 |
| | 30 | 2.172 | 2.196 | 2.229 | 2.252 | 2.275 | 2.305 | 2.324 | 2.326 | 2.356 | 2.361 | 2.369 | 2.384 |
| | 31 | 2.514 | 2.528 | 2.548 | 2.564 | 2.578 | 2.576 | 2.589 | 2.589 | 2.586 | 2.594 | 2.598 | 2.607 |
| Hourly Means | 2.5180 | 2.5258 | 2.5298 | 2.5321 | 2.5312 | 2.5265 | 2.5184 | 2.5113 | 2.5027 | 2.4973 | 2.4895 | 2.4830 | |
| AUGUST. | 1 | 2.730 | 2.748 | 2.766 | 2.772 | 2.791 | 2.797 | 2.780 | 2.772 | 2.761 | 2.767 | 2.767 | 2.769 |
| | 2 | 2.891 | 2.900 | 2.906 | 2.910 | 2.917 | 2.916 | 2.909 | 2.897 | 2.862 | 2.860 | 2.841 | 2.841 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 2.796 | 2.807 | 2.801 | 2.794 | 2.801 | 2.796 | 2.770 | 2.761 | 2.753 | 2.738 | 2.730 | 2.719 |
| | 5 | 2.752 | 2.762 | 2.761 | 2.765 | 2.762 | 2.755 | 2.741 | 2.708 | 2.694 | 2.679 | 2.666 | 2.659 |
| | 6 | 2.654 | 2.662 | 2.660 | 2.657 | 2.668 | 2.672 | 2.661 | 2.652 | 2.636 | 2.620 | 2.604 | 2.595 |
| | 7 | 2.635 | 2.642 | 2.646 | 2.642 | 2.652 | 2.657 | 2.638 | 2.632 | 2.610 | 2.597 | 2.583 | 2.567 |
| | 8 | 2.623 | 2.645 | 2.658 | 2.667 | 2.677 | 2.682 | 2.674 | 2.653 | 2.640 | 2.617 | 2.615 | 2.622 |
| | 9 | 2.664 | 2.664 | 2.664 | 2.661 | 2.660 | 2.658 | 2.652 | 2.644 | 2.631 | 2.615 | 2.615 | 2.582 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 2.299 | 2.308 | 2.312 | 2.324 | 2.330 | 2.316 | 2.302 | 2.302 | 2.305 | 2.295 | 2.293 | 2.301 |
| | 12 | 2.454 | 2.472 | 2.480 | 2.489 | 2.487 | 2.483 | 2.482 | 2.478 | 2.466 | 2.463 | 2.471 | 2.479 |
| | 13 | 2.563 | 2.565 | 2.566 | 2.567 | 2.573 | 2.559 | 2.544 | 2.528 | 2.522 | 2.516 | 2.506 | 2.503 |
| | 14 | 2.685 | 2.699 | 2.716 | 2.718 | 2.726 | 2.722 | 2.718 | 2.716 | 2.710 | 2.703 | 2.700 | 2.704 |
| | 15 | 2.746 | 2.738 | 2.743 | 2.747 | 2.749 | 2.738 | 2.736 | 2.723 | 2.719 | 2.707 | 2.697 | 2.683 |
| | 16 | 2.675 | 2.691 | 2.701 | 2.707 | 2.713 | 2.715 | 2.717 | 2.708 | 2.698 | 2.691 | 2.684 | 2.683 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 2.477 | 2.483 | 2.486 | 2.490 | 2.493 | 2.486 | 2.497 | 2.497 | 2.501 | 2.506 | 2.514 | 2.526 |
| | 19 | 2.678 | 2.695 | 2.709 | 2.721 | 2.729 | 2.704 | 2.716 | 2.717 | 2.700 | 2.691 | 2.691 | 2.685 |
| | 20 | 2.647 | 2.655 | 2.655 | 2.641 | 2.644 | 2.634 | 2.624 | 2.605 | 2.578 | 2.571 | 2.570 | 2.574 |
| | 21 | 2.558 | 2.556 | 2.548 | 2.545 | 2.544 | 2.542 | 2.541 | 2.541 | 2.535 | 2.527 | 2.527 | 2.515 |
| | 22 | 2.633 | 2.642 | 2.652 | 2.659 | 2.669 | 2.663 | 2.658 | 2.638 | 2.631 | 2.614 | 2.603 | 2.603 |
| | 23 | 2.628 | 2.641 | 2.646 | 2.640 | 2.635 | 2.641 | 2.640 | 2.637 | 2.621 | 2.611 | 2.597 | 2.594 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 2.717 | 2.722 | 2.736 | 2.737 | 2.733 | 2.704 | 2.689 | 2.661 | 2.647 | 2.617 | 2.618 | 2.586 |
| | 26 | 2.645 | 2.653 | 2.664 | 2.662 | 2.662 | 2.665 | 2.659 | 2.646 | 2.640 | 2.624 | 2.620 | 2.618 |
| | 27 | 2.509 | 2.575 | 2.547 | 2.549 | 2.576 | 2.576 | 2.588 | 2.596 | 2.596 | 2.598 | 2.594 | 2.620 |
| | 28 | 2.834 | 2.840 | 2.849 | 2.873 | 2.890 | 2.897 | 2.895 | 2.898 | 2.888 | 2.862 | 2.847 | 2.843 |
| | 29 | 2.745 | 2.743 | 2.709 | 2.689 | 2.674 | 2.656 | 2.634 | 2.621 | 2.584 | 2.553 | 2.535 | 2.517 |
| | 30 | 2.461 | 2.467 | 2.479 | 2.486 | 2.484 | 2.472 | 2.480 | 2.471 | 2.468 | 2.413 | 2.474 | 2.477 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 2.6423 | 2.6529 | 2.6562 | 2.6582 | 2.6630 | 2.6579 | 2.6517 | 2.6424 | 2.6306 | 2.6175 | 2.6139 | 2.6102 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.386 | 2.383 | 2.381 | 2.367 | 2.349 | 2.343 | 2.339 | 2.335 | 2.335 | 2.337 | 2.337 | 2.349 | 2.4256 |
| 2.387 | 2.390 | 2.390 | 2.404 | 2.404 | 2.421 | 2.429 | 2.424 | 2.432 | 2.434 | 2.446 | 2.451 | 2.4105 |
| 2.517 | 2.533 | 2.553 | 2.572 | 2.583 | 2.598 | 2.588 | 2.584 | 2.581 | 2.587 | 2.599 | 2.621 | 2.5358 |
| 2.655 | 2.665 | 2.665 | 2.679 | 2.687 | 2.679 | 2.676 | 2.698 | 2.705 | 2.718 | 2.731 | 2.737 | 2.6753 |
| 2.666 | 2.670 | 2.672 | 2.681 | 2.693 | 2.697 | — | — | — | — | — | — | 2.6806 |
| — | — | — | — | — | — | 2.590 | 2.588 | 2.576 | 2.564 | 2.568 | 2.564 | — |
| 2.565 | 2.586 | 2.602 | 2.612 | 2.616 | 2.609 | 2.611 | 2.620 | 2.613 | 2.624 | 2.615 | 2.641 | 2.5737 |
| 2.573 | 2.579 | 2.594 | 2.624 | 2.636 | 2.645 | 2.669 | 2.694 | 2.714 | 2.717 | 2.734 | 2.750 | 2.6387 |
| 2.711 | 2.709 | 2.697 | 2.712 | 2.711 | 2.715 | 2.719 | 2.738 | 2.748 | 2.756 | 2.742 | 2.769 | 2.7473 |
| 2.663 | 2.647 | 2.677 | 2.684 | 2.686 | 2.681 | 2.673 | 2.657 | 2.656 | 2.640 | 2.641 | 2.633 | 2.7034 |
| 2.541 | 2.531 | 2.527 | 2.534 | 2.527 | 2.528 | 2.516 | 2.508 | 2.505 | 2.501 | 2.497 | 2.503 | 2.5645 |
| 2.344 | 2.341 | 2.339 | 2.340 | 2.345 | 2.359 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.307 | 2.317 | 2.328 | 2.329 | 2.341 | 2.371 | 2.3802 |
| 2.335 | 2.341 | 2.337 | 2.358 | 2.357 | 2.351 | 2.342 | 2.352 | 2.358 | 2.352 | 2.357 | 2.362 | 2.3565 |
| 2.421 | 2.421 | 2.414 | 2.430 | 2.432 | 2.428 | 2.448 | 2.445 | 2.447 | 2.465 | 2.450 | 2.455 | 2.4290 |
| 2.340 | 2.344 | 2.356 | 2.351 | 2.332 | 2.321 | 2.306 | 2.272 | 2.254 | 2.231 | 2.223 | 2.220 | 2.3570 |
| 2.427 | 2.441 | 2.454 | 2.479 | 2.523 | 2.541 | 2.552 | 2.568 | 2.585 | 2.595 | 2.608 | 2.630 | 2.4379 |
| 2.690 | 2.690 | 2.698 | 2.689 | 2.685 | 2.709 | 2.710 | 2.716 | 2.711 | 2.711 | 2.701 | 2.715 | 2.6977 |
| 2.651 | 2.647 | 2.637 | 2.662 | 2.650 | 2.630 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.415 | 2.417 | 2.427 | 2.431 | 2.427 | 2.478 | 2.6212 |
| 2.345 | 2.335 | 2.337 | 2.373 | 2.369 | 2.378 | 2.381 | 2.398 | 2.406 | 2.404 | 2.414 | 2.430 | 2.3944 |
| 2.460 | 2.476 | 2.485 | 2.508 | 2.510 | 2.511 | 2.501 | 2.508 | 2.506 | 2.503 | 2.513 | 2.529 | 2.4652 |
| 2.599 | 2.603 | 2.605 | 2.622 | 2.622 | 2.614 | 2.608 | 2.604 | 2.605 | 2.585 | 2.592 | 2.605 | 2.5866 |
| 2.564 | 2.564 | 2.570 | 2.572 | 2.570 | 2.564 | 2.555 | 2.552 | 2.553 | 2.543 | 2.537 | 2.547 | 2.5787 |
| 2.455 | 2.455 | 2.457 | 2.463 | 2.459 | 2.459 | 2.452 | 2.455 | 2.445 | 2.441 | 2.443 | 2.435 | 2.4827 |
| 2.346 | 2.346 | 2.360 | 2.368 | 2.366 | 2.357 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.428 | 2.428 | 2.420 | 2.414 | 2.414 | 2.418 | 2.3937 |
| 2.414 | 2.416 | 2.417 | 2.419 | 2.410 | 2.412 | 2.411 | 2.411 | 2.402 | 2.381 | 2.365 | 2.329 | 2.4192 |
| 2.111 | 2.121 | 2.123 | 2.113 | 2.101 | 2.115 | 2.115 | 2.117 | 2.117 | 2.113 | 2.127 | 2.147 | 2.1693 |
| 2.400 | 2.416 | 2.440 | 2.460 | 2.465 | 2.477 | 2.468 | 2.470 | 2.467 | 2.472 | 2.478 | 2.508 | 2.3779 |
| 2.608 | 2.620 | 2.630 | 2.644 | 2.651 | 2.659 | 2.671 | 2.687 | 2.692 | 2.696 | 2.706 | 2.723 | 2.6191 |
| 2.4879 | 2.4915 | 2.4969 | 2.5081 | 2.5089 | 2.5111 | 2.4993 | 2.5023 | 2.5033 | 2.5016 | 2.5039 | 2.5156 | 2.5082 |
| 2.791 | 2.791 | 2.813 | 2.825 | 2.832 | 2.842 | 2.846 | 2.861 | 2.851 | 2.861 | 2.868 | 2.876 | 2.8028 |
| 2.845 | 2.855 | 2.861 | 2.867 | 2.872 | 2.864 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.795 | 2.790 | 2.778 | 2.776 | 2.776 | 2.782 | 2.8546 |
| 2.713 | 2.711 | 2.713 | 2.732 | 2.753 | 2.746 | 2.747 | 2.745 | 2.740 | 2.738 | 2.732 | 2.739 | 2.7531 |
| 2.658 | 2.662 | 2.663 | 2.664 | 2.659 | 2.655 | 2.655 | 2.660 | 2.651 | 2.642 | 2.643 | 2.655 | 2.6905 |
| 2.599 | 2.603 | 2.602 | 2.616 | 2.620 | 2.623 | 2.618 | 2.629 | 2.628 | 2.625 | 2.633 | 2.628 | 2.6319 |
| 2.582 | 2.582 | 2.588 | 2.604 | 2.604 | 2.604 | 2.600 | 2.595 | 2.607 | 2.601 | 2.602 | 2.595 | 2.6110 |
| 2.622 | 2.616 | 2.637 | 2.643 | 2.636 | 2.642 | 2.651 | 2.647 | 2.643 | 2.645 | 2.643 | 2.647 | 2.6435 |
| 2.578 | 2.584 | 2.593 | 2.591 | 2.581 | 2.581 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.328 | 2.314 | 2.306 | 2.300 | 2.294 | 2.289 | 2.5437 |
| 2.318 | 2.347 | 2.360 | 2.369 | 2.372 | 2.370 | 2.367 | 2.383 | 2.394 | 2.395 | 2.397 | 2.421 | 2.3409 |
| 2.492 | 2.497 | 2.510 | 2.520 | 2.532 | 2.533 | 2.544 | 2.550 | 2.554 | 2.548 | 2.544 | 2.557 | 2.5035 |
| 2.497 | 2.510 | 2.538 | 2.552 | 2.558 | 2.580 | 2.582 | 2.587 | 2.605 | 2.616 | 2.636 | 2.673 | 2.5602 |
| 2.706 | 2.709 | 2.715 | 2.726 | 2.727 | 2.725 | 2.727 | 2.719 | 2.721 | 2.721 | 2.736 | 2.732 | 2.7159 |
| 2.660 | 2.658 | 2.665 | 2.675 | 2.672 | 2.667 | 2.663 | 2.654 | 2.654 | 2.654 | 2.657 | 2.661 | 2.6944 |
| 2.681 | 2.681 | 2.696 | 2.705 | 2.715 | 2.717 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.524 | 2.507 | 2.483 | 2.472 | 2.468 | 2.475 | 2.6461 |
| 2.542 | 2.554 | 2.574 | 2.594 | 2.594 | 2.622 | 2.632 | 2.637 | 2.641 | 2.643 | 2.647 | 2.667 | 2.5543 |
| 2.675 | 2.663 | 2.665 | 2.662 | 2.658 | 2.662 | 2.658 | 2.644 | 2.635 | 2.631 | 2.647 | 2.642 | 2.6783 |
| 2.570 | 2.547 | 2.547 | 2.556 | 2.556 | 2.554 | 2.550 | 2.541 | 2.543 | 2.540 | 2.538 | 2.538 | 2.5824 |
| 2.522 | 2.533 | 2.551 | 2.571 | 2.572 | 2.577 | 2.584 | 2.586 | 2.586 | 2.591 | 2.593 | 2.614 | 2.5566 |
| 2.609 | 2.609 | 2.621 | 2.609 | 2.614 | 2.620 | 2.623 | 2.605 | 2.608 | 2.598 | 2.591 | 2.604 | 2.6240 |
| 2.603 | 2.609 | 2.632 | 2.652 | 2.667 | 2.675 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.713 | 2.705 | 2.687 | 2.688 | 2.692 | 2.717 | 2.6488 |
| 2.572 | 2.552 | 2.552 | 2.569 | 2.577 | 2.585 | 2.593 | 2.603 | 2.596 | 2.599 | 2.606 | 2.620 | 2.6330 |
| 2.608 | 2.590 | 2.590 | 2.597 | 2.589 | 2.574 | 2.561 | 2.539 | 2.524 | 2.526 | 2.519 | 2.517 | 2.6038 |
| 2.638 | 2.664 | 2.680 | 2.710 | 2.714 | 2.718 | 2.736 | 2.748 | 2.753 | 2.758 | 2.767 | 2.793 | 2.6501 |
| 2.835 | 2.827 | 2.840 | 2.826 | 2.815 | 2.813 | 2.803 | 2.769 | 2.759 | 2.747 | 2.739 | 2.733 | 2.8301 |
| 2.514 | 2.512 | 2.506 | 2.533 | 2.494 | 2.494 | 2.490 | 2.486 | 2.470 | 2.460 | 2.454 | 2.457 | 2.5637 |
| 2.493 | 2.508 | 2.541 | 2.551 | 2.553 | 2.560 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.610 | 2.595 | 2.582 | 2.575 | 2.591 | 2.575 | 2.5153 |
| 2.6124 | 2.6144 | 2.6251 | 2.6353 | 2.6360 | 2.6386 | 2.6231 | 2.6192 | 2.6153 | 2.6135 | 2.6159 | 2.6235 | 2.6320 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | 2.580 | 2.581 | 2.593 | 2.579 | 2.559 | 2.537 | 2.519 | 2.495 | 2.461 | 2.425 | 2.425 | 2.420 |
| | 2 | 2.263 | 2.271 | 2.268 | 2.263 | 2.272 | 2.260 | 2.246 | 2.224 | 2.221 | 2.205 | 2.205 | 2.216 |
| | 3 | 2.233 | 2.259 | 2.276 | 2.282 | 2.277 | 2.278 | 2.275 | 2.273 | 2.267 | 2.258 | 2.252 | 2.265 |
| | 4 | 2.314 | 2.314 | 2.306 | 2.305 | 2.310 | 2.302 | 2.294 | 2.293 | 2.304 | 2.321 | 2.341 | 2.372 |
| | 5 | 2.515 | 2.525 | 2.531 | 2.547 | 2.549 | 2.539 | 2.527 | 2.520 | 2.537 | 2.531 | 2.526 | 2.550 |
| | 6 | 2.682 | 2.694 | 2.692 | 2.698 | 2.686 | 2.668 | 2.652 | 2.627 | 2.601 | 2.550 | 2.554 | 2.514 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 2.709 | 2.733 | 2.743 | 2.755 | 2.776 | 2.783 | 2.779 | 2.775 | 2.765 | 2.757 | 2.755 | 2.746 |
| | 9 | 2.486 | 2.520 | 2.464 | 2.492 | 2.496 | 2.502 | 2.509 | 2.488 | 2.502 | 2.501 | 2.507 | 2.531 |
| | 10 | 2.640 | 2.644 | 2.642 | 2.643 | 2.639 | 2.642 | 2.644 | 2.646 | 2.655 | 2.658 | 2.684 | 2.702 |
| | 11 | 2.833 | 2.840 | 2.848 | 2.877 | 2.879 | 2.866 | 2.860 | 2.847 | 2.842 | 2.837 | 2.844 | 2.857 |
| | 12 | 3.000 | 3.014 | 3.022 | 3.023 | 3.022 | 3.025 | 3.011 | 3.001 | 2.958 | 2.950 | 2.965 | 2.959 |
| | 13 | 2.777 | 2.758 | 2.726 | 2.696 | 2.668 | 2.642 | 2.620 | 2.582 | 2.545 | 2.475 | 2.417 | 2.357 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 2.457 | 2.451 | 2.443 | 2.446 | 2.469 | 2.473 | 2.471 | 2.466 | 2.468 | 2.475 | 2.502 | 2.535 |
| | 16 | 2.781 | 2.801 | 2.817 | 2.839 | 2.846 | 2.849 | 2.851 | 2.833 | 2.821 | 2.806 | 2.794 | 2.794 |
| | 17 | 2.802 | 2.805 | 2.799 | 2.781 | 2.753 | 2.724 | 2.698 | 2.657 | 2.614 | 2.584 | 2.574 | 2.539 |
| | 18 | 2.439 | 2.435 | 2.431 | 2.427 | 2.439 | 2.427 | 2.401 | 2.408 | 2.412 | 2.409 | 2.427 | 2.452 |
| | 19 | 2.614 | 2.622 | 2.628 | 2.609 | 2.621 | 2.608 | 2.596 | 2.584 | 2.558 | 2.542 | 2.521 | 2.528 |
| | 20 | 2.385 | 2.312 | 2.312 | 2.288 | 2.262 | 2.232 | 2.222 | 2.190 | 2.151 | 2.190 | 2.204 | 2.224 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 2.696 | 2.716 | 2.726 | 2.742 | 2.719 | 2.723 | 2.728 | 2.702 | 2.681 | 2.667 | 2.667 | 2.661 |
| | 23 | 2.514 | 2.494 | 2.470 | 2.464 | 2.437 | 2.407 | 2.387 | 2.364 | 2.358 | 2.342 | 2.340 | 2.327 |
| | 24 | 2.502 | 2.530 | 2.552 | 2.593 | 2.625 | 2.645 | 2.665 | 2.680 | 2.695 | 2.713 | 2.733 | 2.751 |
| | 25 | 2.748 | 2.745 | 2.742 | 2.748 | 2.736 | 2.709 | 2.687 | 2.676 | 2.656 | 2.642 | 2.631 | 2.631 |
| | 26 | 2.533 | 2.533 | 2.525 | 2.515 | 2.503 | 2.487 | 2.487 | 2.461 | 2.444 | 2.446 | 2.473 | 2.485 |
| | 27 | 2.721 | 2.727 | 2.745 | 2.781 | 2.791 | 2.795 | 2.788 | 2.782 | 2.777 | 2.774 | 2.775 | 2.773 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 2.626 | 2.632 | 2.631 | 2.625 | 2.609 | 2.539 | 2.530 | 2.554 | 2.528 | 2.528 | 2.510 | 2.469 |
| | 30 | 2.348 | 2.326 | 2.328 | 2.320 | 2.310 | 2.307 | 2.294 | 2.273 | 2.259 | 2.251 | 2.221 | 2.239 |
| | Hourly Means | 2.5845 | 2.5878 | 2.5869 | 2.5899 | 2.5867 | 2.5757 | 2.5670 | 2.5539 | 2.5415 | 2.5322 | 2.5326 | 2.5355 |
| OCTOBER. | 1 | 2.302 | 2.313 | 2.318 | 2.331 | 2.335 | 2.339 | 2.347 | 2.347 | 2.349 | 2.371 | 2.389 | 2.427 |
| | 2 | 2.674 | 2.698 | 2.702 | 2.718 | 2.730 | 2.717 | 2.703 | 2.682 | 2.671 | 2.647 | 2.647 | 2.647 |
| | 3 | 2.719 | 2.753 | 2.777 | 2.809 | 2.823 | 2.845 | 2.863 | 2.863 | 2.863 | 2.866 | 2.872 | 2.868 |
| | 4 | 2.826 | 2.804 | 2.785 | 2.756 | 2.737 | 2.715 | 2.685 | 2.653 | 2.622 | 2.596 | 2.581 | 2.547 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 2.924 | 2.944 | 2.960 | 2.960 | 2.965 | 2.951 | 2.945 | 2.905 | 2.901 | 2.890 | 2.901 | 2.873 |
| | 7 | 2.800 | 2.816 | 2.802 | 2.791 | 2.802 | 2.791 | 2.786 | 2.768 | 2.750 | 2.766 | 2.750 | 2.746 |
| | 8 | 2.768 | 2.774 | 2.764 | 2.763 | 2.754 | 2.738 | 2.711 | 2.670 | 2.645 | 2.621 | 2.601 | 2.577 |
| | 9 | 2.414 | 2.414 | 2.424 | 2.445 | 2.464 | 2.509 | 2.523 | 2.536 | 2.548 | 2.559 | 2.578 | 2.591 |
| | 10 | 2.581 | 2.571 | 2.583 | 2.562 | 2.561 | 2.537 | 2.516 | 2.488 | 2.466 | 2.450 | 2.439 | 2.414 |
| | 11 | 2.434 | 2.450 | 2.468 | 2.469 | 2.473 | 2.479 | 2.475 | 2.463 | 2.463 | 2.459 | 2.459 | 2.439 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 2.700 | 2.726 | 2.750 | 2.764 | 2.767 | 2.772 | 2.779 | 2.779 | 2.744 | 2.757 | 2.765 | 2.750 |
| | 14 | 2.746 | 2.784 | 2.796 | 2.834 | 2.844 | 2.848 | 2.854 | 2.876 | 2.884 | 2.894 | 2.907 | 2.911 |
| | 15 | 3.030 | 3.048 | 3.054 | 3.072 | 3.070 | 3.078 | 3.074 | 3.074 | 3.067 | 3.085 | 3.095 | 3.102 |
| | 16 | 3.177 | 3.189 | 3.206 | 3.209 | 3.200 | 3.186 | 3.170 | 3.127 | 3.102 | 3.074 | 3.060 | 3.051 |
| | 17 | 3.004 | 3.011 | 3.010 | 3.011 | 3.007 | 2.993 | 2.960 | 2.938 | 2.910 | 2.898 | 2.876 | 2.885 |
| | 18 | 2.858 | 2.886 | 2.886 | 2.873 | 2.857 | 2.838 | 2.814 | 2.784 | 2.762 | 2.762 | 2.704 | 2.687 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 2.919 | 2.938 | 2.959 | 2.961 | 2.957 | 2.949 | 2.939 | 2.936 | 2.930 | 2.944 | 2.961 | 2.994 |
| | 21 | 3.148 | 3.158 | 3.164 | 3.205 | 3.213 | 3.223 | 3.215 | 3.203 | 3.209 | 3.209 | 3.209 | 3.209 |
| | 22 | 3.233 | 3.233 | 3.239 | 3.242 | 3.240 | 3.227 | 3.198 | 3.182 | 3.166 | 3.137 | 3.129 | 3.107 |
| | 23 | 3.012 | 3.017 | 3.011 | 3.015 | 3.008 | 2.978 | 2.953 | 2.930 | 2.897 | 2.888 | 2.878 | 2.884 |
| | 24 | 2.885 | 2.901 | 2.907 | 2.915 | 2.912 | 2.907 | 2.898 | 2.890 | 2.892 | 2.900 | 2.903 | 2.904 |
| | 25 | 2.959 | 2.981 | 2.981 | 2.985 | 2.989 | 2.992 | 2.953 | 2.951 | 2.943 | 2.943 | 2.941 | 2.941 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 2.907 | 2.907 | 2.917 | 2.920 | 2.921 | 2.913 | 2.898 | 2.885 | 2.872 | 2.856 | 2.855 | 2.847 |
| | 28 | 2.883 | 2.889 | 2.893 | 2.893 | 2.892 | 2.884 | 2.858 | 2.841 | 2.821 | 2.812 | 2.804 | 2.788 |
| | 29 | 2.762 | 2.758 | 2.758 | 2.746 | 2.726 | 2.707 | 2.672 | 2.633 | 2.600 | 2.580 | 2.564 | 2.574 |
| | 30 | 2.589 | 2.605 | 2.619 | 2.638 | 2.644 | 2.644 | 2.644 | 2.645 | 2.649 | 2.665 | 2.686 | 2.706 |
| | 31 | 2.621 | 2.617 | 2.599 | 2.591 | 2.579 | 2.539 | 2.499 | 2.451 | 2.421 | 2.403 | 2.391 | 3.372 |
| Hourly Means | 2.8102 | 2.8217 | 2.8271 | 2.8325 | 2.8322 | 2.8259 | 2.8123 | 2.7963 | 2.7832 | 2.7790 | 2.7757 | 2.7719 | |

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2.401 | 2.395 | 2.417 | 2.414 | 2.392 | 2.360 | 2.308 | 2.290 | — | — | — | — | 2.4575 |
| 2.207 | 2.209 | 2.195 | 2.197 | 2.180 | 2.200 | 2.204 | 2.202 | 2.202 | 2.204 | 2.205 | 2.215 | 2.222 |
| 2.298 | 2.311 | 2.324 | 2.340 | 2.346 | 2.349 | 2.320 | 2.333 | 2.337 | 2.318 | 2.310 | 2.310 | 2.2955 |
| 2.392 | 2.407 | 2.441 | 2.445 | 2.457 | 2.461 | 2.464 | 2.469 | 2.470 | 2.481 | 2.493 | 2.508 | 2.3860 |
| 2.551 | 2.569 | 2.593 | 2.611 | 2.617 | 2.631 | 2.638 | 2.657 | 2.670 | 2.656 | 2.651 | 2.675 | 2.5798 |
| 2.506 | 2.500 | 2.462 | 2.448 | 2.432 | 2.386 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.625 | 2.640 | 2.646 | 2.654 | 2.669 | 2.682 | 2.5945 |
| 2.728 | 2.717 | 2.705 | 2.685 | 2.672 | 2.654 | 2.625 | 2.591 | 2.565 | 2.536 | 2.520 | 2.485 | 2.6900 |
| 2.539 | 2.551 | 2.569 | 2.571 | 2.576 | 2.578 | 2.591 | 2.584 | 2.594 | 2.595 | 2.601 | 2.632 | 2.5408 |
| 2.729 | 2.734 | 2.756 | 2.761 | 2.766 | 2.779 | 2.773 | 2.786 | 2.787 | 2.789 | 2.799 | 2.824 | 2.7134 |
| 2.863 | 2.877 | 2.893 | 2.910 | 2.922 | 2.924 | 2.942 | 2.943 | 2.943 | 2.949 | 2.952 | 2.982 | 2.8887 |
| 2.947 | 2.938 | 2.692 | 2.913 | 2.895 | 2.892 | 2.883 | 2.875 | 2.851 | 2.818 | 2.802 | 2.776 | 2.9361 |
| 2.320 | 2.298 | 2.300 | 2.296 | 2.300 | 2.313 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.497 | 2.495 | 2.488 | 2.478 | 2.470 | 2.454 | 2.4988 |
| 2.563 | 2.572 | 2.606 | 2.622 | 2.628 | 2.642 | 2.643 | 2.663 | 2.664 | 2.670 | 2.705 | 2.737 | 2.5571 |
| 2.795 | 2.795 | 2.802 | 2.792 | 2.784 | 2.795 | 2.785 | 2.801 | 2.803 | 2.792 | 2.798 | 2.800 | 2.8072 |
| 2.521 | 2.509 | 2.509 | 2.512 | 2.500 | 2.498 | 2.500 | 2.480 | 2.452 | 2.442 | 2.434 | 2.438 | 2.5885 |
| 2.468 | 2.485 | 2.504 | 2.520 | 2.529 | 2.540 | 2.547 | 2.558 | 2.562 | 2.575 | 2.581 | 2.587 | 2.4818 |
| 2.510 | 2.522 | 2.527 | 2.514 | 2.486 | 2.458 | 2.443 | 2.429 | 2.399 | 2.391 | 2.383 | 2.355 | 2.5187 |
| 2.242 | 2.276 | 2.279 | 2.290 | 2.296 | 2.300 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.619 | 2.627 | 2.636 | 2.646 | 2.656 | 2.669 | 2.3545 |
| 2.656 | 2.665 | 2.661 | 2.647 | 2.641 | 2.625 | 2.607 | 2.605 | 2.599 | 2.557 | 2.552 | 2.530 | 2.6572 |
| 2.334 | 2.342 | 2.344 | 2.357 | 2.365 | 2.357 | 2.359 | 2.359 | 2.375 | 2.393 | 2.425 | 2.468 | 2.3909 |
| 2.755 | 2.773 | 2.785 | 2.787 | 2.789 | 2.777 | 2.777 | 2.771 | 2.755 | 2.750 | 2.748 | 2.742 | 2.7039 |
| 2.621 | 2.631 | 2.632 | 2.624 | 2.620 | 2.614 | 2.603 | 2.585 | 2.575 | 2.562 | 2.558 | 2.542 | 2.6466 |
| 2.499 | 2.527 | 2.555 | 2.561 | 2.582 | 2.589 | 2.600 | 2.616 | 2.624 | 2.645 | 2.664 | 2.697 | 2.5438 |
| 2.769 | 2.777 | 2.781 | 2.764 | 2.767 | 2.765 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.657 | 2.652 | 2.640 | 2.636 | 2.636 | 2.624 | 2.7374 |
| 2.481 | 2.474 | 2.466 | 2.461 | 2.451 | 2.441 | 2.427 | 2.429 | 2.405 | 2.391 | 2.380 | 2.363 | 2.4990 |
| 2.242 | 2.244 | 2.272 | 2.273 | 2.278 | 2.276 | 2.278 | 2.276 | 2.284 | 2.284 | 2.285 | 2.289 | 2.2815 |
| 2.5360 | 2.5422 | 2.5502 | 2.5506 | 2.5489 | 2.5463 | 2.5660 | 2.5660 | 2.5730 | 2.5685 | 2.5711 | 2.5754 | 2.5611 |
| 2.447 | 2.477 | 2.501 | 2.520 | 2.549 | 2.551 | 2.552 | 2.580 | 2.593 | 2.619 | 2.644 | 2.656 | 2.4524 |
| 2.639 | 2.655 | 2.651 | 2.651 | 2.641 | 2.641 | 2.637 | 2.628 | 2.622 | 2.636 | 2.636 | 2.679 | 2.6647 |
| 2.868 | 2.880 | 2.880 | 2.876 | 2.872 | 2.872 | 2.862 | 2.867 | 2.855 | 2.837 | 2.837 | 2.825 | 2.8438 |
| 2.543 | 2.521 | 2.493 | 2.490 | 2.466 | 2.466 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.836 | 2.864 | 2.872 | 2.873 | 2.890 | 2.908 | 2.6887 |
| 2.882 | 2.890 | 2.898 | 2.906 | 2.879 | 2.863 | 2.839 | 2.832 | 2.819 | 2.813 | 2.801 | 2.790 | 2.8888 |
| 2.747 | 2.759 | 2.777 | 2.763 | 2.753 | 2.761 | 2.771 | 2.755 | 2.771 | 2.770 | 2.776 | 2.776 | 2.7728 |
| 2.540 | 2.512 | 2.492 | 2.452 | 2.426 | 2.410 | 2.396 | 2.386 | 2.374 | 2.368 | 2.364 | 2.374 | 2.5617 |
| 2.591 | 2.604 | 2.612 | 2.604 | 2.604 | 2.606 | 2.601 | 2.625 | 2.613 | 2.609 | 2.591 | 2.588 | 2.5522 |
| 2.396 | 2.390 | 2.384 | 2.379 | 2.379 | 2.367 | 2.363 | 2.360 | 2.364 | 2.368 | 2.370 | 2.404 | 2.4455 |
| 2.437 | 2.435 | 2.417 | 2.363 | 2.355 | 2.336 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.536 | 2.554 | 2.576 | 2.609 | 2.633 | 2.661 | 2.4768 |
| 2.748 | 2.745 | 2.743 | 2.745 | 2.745 | 2.726 | 2.720 | 2.712 | 2.707 | 2.698 | 2.690 | 2.702 | 2.7389 |
| 2.930 | 2.948 | 2.943 | 2.958 | 2.954 | 2.962 | 2.971 | 2.973 | 2.975 | 2.978 | 2.991 | 3.006 | 2.9070 |
| 3.112 | 3.118 | 3.124 | 3.133 | 3.137 | 3.148 | 3.142 | 3.158 | 3.168 | 3.170 | 3.172 | 3.174 | 3.1085 |
| 3.033 | 3.020 | 3.014 | 3.020 | 3.036 | 3.037 | 3.027 | 3.018 | 3.009 | 3.004 | 3.004 | 3.004 | 3.0824 |
| 2.879 | 2.886 | 2.897 | 2.885 | 2.885 | 2.885 | 2.875 | 2.868 | 2.867 | 2.858 | 2.862 | 2.858 | 2.9170 |
| 2.692 | 2.685 | 2.677 | 2.653 | 2.633 | 2.625 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.876 | 2.876 | 2.878 | 2.895 | 2.909 | 2.913 | 2.7926 |
| 3.014 | 3.040 | 3.057 | 3.078 | 3.101 | 3.098 | 3.099 | 3.102 | 3.110 | 3.111 | 3.121 | 3.148 | 3.0194 |
| 3.209 | 3.206 | 3.206 | 3.209 | 3.205 | 3.205 | 3.200 | 3.213 | 3.219 | 3.215 | 3.223 | 3.230 | 3.2044 |
| 3.108 | 3.094 | 3.098 | 3.090 | 3.091 | 3.065 | 3.056 | 3.052 | 3.026 | 3.018 | 3.014 | 3.015 | 3.1275 |
| 2.883 | 2.867 | 2.869 | 2.864 | 2.870 | 2.870 | 2.868 | 2.868 | 2.862 | 2.861 | 2.861 | 2.879 | 2.9155 |
| 2.917 | 2.919 | 2.929 | 2.936 | 2.937 | 2.938 | 2.946 | 2.947 | 2.945 | 2.939 | 2.949 | 2.949 | 2.9194 |
| 2.951 | 2.943 | 2.947 | 2.947 | 2.945 | 2.946 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2.878 | 2.878 | 2.869 | 2.873 | 2.873 | 2.891 | 2.9375 |
| 2.855 | 2.860 | 2.873 | 2.881 | 2.875 | 2.874 | 2.874 | 2.872 | 2.874 | 2.876 | 2.876 | 2.878 | 2.8819 |
| 2.800 | 2.832 | 2.801 | 2.803 | 2.801 | 2.800 | 2.795 | 2.793 | 2.794 | 2.788 | 2.787 | 2.775 | 2.8261 |
| 2.578 | 2.564 | 2.566 | 2.574 | 2.572 | 2.563 | 2.557 | 2.567 | 2.578 | 2.572 | 2.578 | 2.582 | 2.6221 |
| 2.717 | 2.717 | 2.724 | 2.724 | 2.718 | 2.696 | 2.691 | 2.681 | 2.669 | 2.657 | 2.651 | 2.631 | 2.6671 |
| 2.378 | 2.350 | 2.344 | 2.343 | 2.336 | 2.338 | 2.346 | 2.354 | 2.365 | 2.365 | 2.366 | 2.368 | 2.4307 |
| 2.7739 | 2.7747 | 2.7747 | 2.7721 | 2.7691 | 2.7648 | 2.7894 | 2.7920 | 2.7916 | 2.7919 | 2.7951 | 2.8024 | 2.7941 |

| BAROMETRIC PRESSURE. | | | | | | | | | | | | | |
|--|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Barometer at 32° = 27 English inches + the numbers in the Table. | | | | | | | | | | | | | |
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 2.394 | 2.396 | 2.395 | 2.375 | 2.357 | 2.341 | 2.321 | 2.305 | 2.283 | 2.286 | 2.294 | 2.302 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 2.079 | 2.081 | 2.085 | 2.078 | 2.082 | 2.082 | 2.087 | 2.094 | 2.109 | 2.139 | 2.162 | 2.178 |
| | 4 | 2.306 | 2.318 | 2.336 | 2.342 | 2.357 | 2.363 | 2.353 | 2.349 | 2.348 | 2.353 | 2.365 | 2.391 |
| | 5 | 2.279 | 2.275 | 2.275 | 2.277 | 2.267 | 2.267 | 2.259 | 2.267 | 2.263 | 2.283 | 2.287 | 2.295 |
| | 6 | 2.275 | 2.291 | 2.289 | 2.291 | 2.285 | 2.285 | 2.289 | 2.286 | 2.301 | 2.332 | 2.362 | 2.411 |
| | 7 | 2.619 | 2.637 | 2.637 | 2.621 | 2.619 | 2.605 | 2.575 | 2.557 | 2.534 | 2.524 | 2.510 | 2.496 |
| | 8 | 2.327 | 2.341 | 2.346 | 2.362 | 2.370 | 2.391 | 2.400 | 2.400 | 2.406 | 2.423 | 2.433 | 2.453 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 2.333 | 2.340 | 2.352 | 2.384 | 2.389 | 2.388 | 2.375 | 2.370 | 2.362 | 2.360 | 2.363 | 2.378 |
| | 11 | 2.483 | 2.501 | 2.527 | 2.551 | 2.567 | 2.567 | 2.555 | 2.555 | 2.559 | 2.579 | 2.591 | 2.613 |
| | 12 | 2.685 | 2.708 | 2.734 | 2.756 | 2.764 | 2.768 | 2.757 | 2.723 | 2.715 | 2.717 | 2.709 | 2.721 |
| | 13 | 2.690 | 2.688 | 2.690 | 2.675 | 2.658 | 2.618 | 2.578 | 2.537 | 2.510 | 2.499 | 2.468 | 2.468 |
| | 14 | 2.397 | 2.404 | 2.404 | 2.392 | 2.398 | 2.354 | 2.345 | 2.358 | 2.383 | 2.409 | 2.450 | 2.482 |
| | 15 | 2.674 | 2.699 | 2.717 | 2.721 | 2.732 | 2.714 | 2.675 | 2.657 | 2.611 | 2.597 | 2.589 | 2.551 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 2.504 | 2.508 | 2.522 | 2.528 | 2.538 | 2.530 | 2.513 | 2.503 | 2.503 | 2.499 | 2.505 | 2.511 |
| | 18 | 2.498 | 2.493 | 2.493 | 2.505 | 2.505 | 2.449 | 2.427 | 2.393 | 2.377 | 2.357 | 2.327 | 2.319 |
| | 19 | 2.283 | 2.300 | 2.314 | 2.315 | 2.322 | 2.326 | 2.318 | 2.312 | 2.317 | 2.325 | 2.327 | 2.345 |
| | 20 | 2.210 | 2.200 | 2.201 | 2.178 | 2.170 | 2.157 | 2.123 | 2.104 | 2.076 | 2.062 | 2.053 | 2.104 |
| | 21 | 2.254 | 2.274 | 2.305 | 2.316 | 2.324 | 2.328 | 2.324 | 2.314 | 2.330 | 2.354 | 2.378 | 2.406 |
| | 22 | 2.567 | 2.579 | 2.591 | 2.606 | 2.603 | 2.595 | 2.576 | 2.573 | 2.541 | 2.511 | 2.491 | 2.475 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 2.771 | 2.802 | 2.836 | 2.853 | 2.871 | 2.847 | 2.845 | 2.840 | 2.840 | 2.856 | 2.860 | 2.890 |
| | 25 | 2.757 | 2.729 | 2.691 | 2.661 | 2.671 | 2.670 | 2.663 | 2.666 | 2.679 | 2.699 | 2.723 | 2.748 |
| | 26 | 3.003 | 3.006 | 3.008 | 2.987 | 2.971 | 2.943 | 2.913 | 2.877 | 2.850 | 2.814 | 2.791 | 2.752 |
| | 27 | 2.458 | 2.463 | 2.450 | 2.447 | 2.447 | 2.441 | 2.432 | 2.412 | 2.412 | 2.437 | 2.451 | 2.477 |
| | 28 | 2.661 | 2.708 | 2.712 | 2.735 | 2.771 | 2.777 | 2.766 | 2.776 | 2.782 | 2.792 | 2.815 | 2.835 |
| | 29 | 3.044 | 3.062 | 3.098 | 3.112 | 3.126 | 3.129 | 3.107 | 3.097 | 3.080 | 3.084 | 3.082 | 3.078 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 2.5020 | 2.5121 | 2.5203 | 2.5227 | 2.5266 | 2.5174 | 2.5030 | 2.4930 | 2.4868 | 2.4916 | 2.4954 | 2.5072 |
| DECEMBER. | 1 | 2.770 | 2.755 | 2.729 | 2.670 | 2.658 | 2.634 | 2.603 | 2.563 | 2.538 | 2.530 | 2.551 | 2.546 |
| | 2 | 2.718 | 2.755 | 2.784 | 2.810 | 2.833 | 2.824 | 2.815 | 2.807 | 2.809 | 2.826 | 2.840 | 2.852 |
| | 3 | 2.960 | 2.962 | 2.971 | 2.957 | 2.963 | 2.949 | 2.926 | 2.898 | 2.882 | 2.868 | 2.840 | 2.832 |
| | 4 | 2.546 | 2.536 | 2.522 | 2.500 | 2.478 | 2.454 | 2.445 | 2.438 | 2.417 | 2.421 | 2.414 | 2.387 |
| | 5 | 2.346 | 2.366 | 2.388 | 2.412 | 2.424 | 2.442 | 2.454 | 2.488 | 2.505 | 2.523 | 2.548 | 2.594 |
| | 6 | 2.899 | 2.915 | 2.933 | 2.947 | 2.965 | 2.966 | 2.953 | 2.945 | 2.945 | 2.945 | 2.965 | 2.981 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 2.681 | 2.669 | 2.660 | 2.644 | 2.621 | 2.579 | 2.542 | 2.531 | 2.498 | 2.481 | 2.467 | 2.443 |
| | 9 | 2.303 | 2.317 | 2.312 | 2.298 | 2.302 | 2.293 | 2.259 | 2.242 | 2.228 | 2.234 | 2.234 | 2.246 |
| | 10 | 2.547 | 2.573 | 2.597 | 2.614 | 2.619 | 2.605 | 2.595 | 2.583 | 2.579 | 2.581 | 2.598 | 2.600 |
| | 11 | 2.868 | 2.904 | 2.946 | 2.962 | 2.993 | 2.995 | 2.985 | 2.989 | 2.996 | 3.012 | 3.022 | 3.042 |
| | 12 | 3.178 | 3.188 | 3.204 | 3.210 | 3.215 | 3.214 | 3.203 | 3.194 | 3.182 | 3.181 | 3.195 | 3.184 |
| | 13 | 3.059 | 3.041 | 3.023 | 3.011 | 3.009 | 2.994 | 2.955 | 2.933 | 2.894 | 2.880 | 2.864 | 2.826 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 2.526 | 2.518 | 2.514 | 2.502 | 2.519 | 2.501 | 2.487 | 2.466 | 2.446 | 2.458 | 2.476 | 2.494 |
| | 16 | 2.651 | 2.668 | 2.678 | 2.672 | 2.682 | 2.674 | 2.644 | 2.640 | 2.645 | 2.672 | 2.684 | 2.669 |
| | 17 | 2.599 | 2.599 | 2.604 | 2.610 | 2.572 | 2.566 | 2.524 | 2.468 | 2.422 | 2.403 | 2.396 | 2.382 |
| | 18 | 2.355 | 2.374 | 2.393 | 2.400 | 2.410 | 2.398 | 2.362 | 2.351 | 2.327 | 2.313 | 2.304 | 2.288 |
| | 19 | 2.384 | 2.385 | 2.375 | 2.372 | 2.374 | 2.379 | 2.381 | 2.394 | 2.401 | 2.435 | 2.450 | 2.483 |
| | 20 | 2.682 | 2.694 | 2.711 | 2.716 | 2.710 | 2.688 | 2.677 | 2.674 | 2.667 | 2.667 | 2.666 | 2.683 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 2.600 | 2.606 | 2.609 | 2.607 | 2.621 | 2.632 | 2.624 | 2.637 | 2.635 | 2.653 | 2.682 | 2.708 |
| | 23 | 2.846 | 2.856 | 2.860 | 2.872 | 2.894 | 2.898 | 2.893 | 2.875 | 2.876 | 2.890 | 2.906 | 2.917 |
| | 24 | 2.945 | 2.947 | 2.969 | 2.986 | 2.978 | 2.967 | 2.938 | 2.916 | 2.909 | 2.912 | 2.906 | 2.900 |
| | 25 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 2.942 | 2.974 | 3.004 | 3.018 | 3.061 | 3.065 | 3.046 | 3.022 | 3.009 | 3.003 | 3.012 | 3.023 |
| | 27 | 2.864 | 2.856 | 2.838 | 2.813 | 2.787 | 2.732 | 2.691 | 2.638 | 2.582 | 2.578 | 2.579 | 2.579 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 2.416 | 2.426 | 2.430 | 2.427 | 2.424 | 2.416 | 2.391 | 2.383 | 2.382 | 2.388 | 2.411 | 2.427 |
| | 30 | 2.557 | 2.571 | 2.589 | 2.615 | 2.652 | 2.649 | 2.637 | 2.638 | 2.648 | 2.680 | 2.700 | 2.701 |
| | 31 | 2.980 | 2.988 | 2.996 | 3.008 | 3.040 | 3.005 | 2.992 | 2.963 | 2.960 | 2.968 | 2.959 | 2.949 |
| Hourly Means | 2.7008 | 2.7093 | 2.7169 | 2.7174 | 2.7232 | 2.7123 | 2.6932 | 2.6798 | 2.6685 | 2.6732 | 2.6796 | 2.6822 | |

^a Christmas-day.

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 2·314 | 2·316 | 2·313 | 2·297 | 2·299 | 2·290 | — | — | — | — | — | — | 2·2916 |
| — | — | — | — | — | — | 2·269 | 2·223 | 2·220 | 2·163 | 2·152 | 2·094 | 2·1733 |
| 2·189 | 2·199 | 2·211 | 2·220 | 2·237 | 2·238 | 2·238 | 2·250 | 2·268 | 2·276 | 2·280 | 2·298 | 2·3440 |
| 2·374 | 2·374 | 2·374 | 2·370 | 2·356 | 2·346 | 2·338 | 2·320 | 2·317 | 2·311 | 2·303 | 2·291 | 2·2883 |
| 2·307 | 2·311 | 2·315 | 2·321 | 2·319 | 2·315 | 2·311 | 2·299 | 2·294 | 2·289 | 2·270 | 2·275 | 2·4330 |
| 2·460 | 2·499 | 2·512 | 2·535 | 2·553 | 2·567 | 2·569 | 2·595 | 2·595 | 2·595 | 2·601 | 2·615 | 2·4938 |
| 2·496 | 2·486 | 2·463 | 2·445 | 2·435 | 2·415 | 2·391 | 2·381 | 2·371 | 2·357 | 2·351 | 2·325 | — |
| 2·467 | 2·479 | 2·487 | 2·451 | 2·450 | 2·446 | — | — | — | — | — | — | 2·3985 |
| — | — | — | — | — | — | 2·364 | 2·356 | 2·359 | 2·349 | 2·354 | 2·351 | 2·4047 |
| 2·446 | 2·412 | 2·434 | 2·441 | 2·449 | 2·433 | 2·443 | 2·431 | 2·451 | 2·451 | 2·461 | 2·467 | 2·6034 |
| 2·625 | 2·629 | 2·639 | 2·649 | 2·657 | 2·658 | 2·658 | 2·656 | 2·657 | 2·662 | 2·672 | 2·672 | 2·7227 |
| 2·727 | 2·714 | 2·728 | 2·728 | 2·728 | 2·724 | 2·724 | 2·710 | 2·710 | 2·702 | 2·696 | 2·696 | 2·5020 |
| 2·469 | 2·459 | 2·438 | 2·411 | 2·402 | 2·398 | 2·383 | 2·407 | 2·411 | 2·409 | 2·401 | 2·381 | 2·5013 |
| 2·504 | 2·536 | 2·566 | 2·570 | 2·596 | 2·598 | 2·612 | 2·622 | 2·631 | 2·655 | 2·689 | 2·676 | — |
| 2·545 | 2·539 | 2·495 | 2·453 | 2·428 | 2·400 | — | — | — | — | — | — | 2·5732 |
| — | — | — | — | — | — | 2·477 | 2·491 | 2·497 | 2·498 | 2·498 | 2·500 | 2·5111 |
| 2·511 | 2·513 | 2·508 | 2·510 | 2·507 | 2·511 | 2·508 | 2·512 | 2·513 | 2·507 | 2·504 | 2·498 | 2·3217 |
| 2·290 | 2·241 | 2·193 | 2·164 | 2·176 | 2·176 | 2·162 | 2·186 | 2·214 | 2·245 | 2·255 | 2·277 | 2·3110 |
| 2·356 | 2·351 | 2·355 | 2·325 | 2·317 | 2·317 | 2·303 | 2·297 | 2·273 | 2·271 | 2·261 | 2·235 | 2·1455 |
| 2·120 | 2·122 | 2·110 | 2·128 | 2·129 | 2·131 | 2·149 | 2·155 | 2·178 | 2·193 | 2·209 | 2·229 | 2·4060 |
| 2·428 | 2·436 | 2·450 | 2·458 | 2·463 | 2·477 | 2·485 | 2·495 | 2·521 | 2·522 | 2·541 | 2·560 | — |
| 2·424 | 2·336 | 2·287 | 2·242 | 2·206 | 2·170 | — | — | — | — | — | — | 2·5171 |
| — | — | — | — | — | — | 2·622 | 2·640 | 2·654 | 2·682 | 2·704 | 2·736 | 2·8524 |
| 2·876 | 2·884 | 2·888 | 2·884 | 2·883 | 2·887 | 2·885 | 2·861 | 2·851 | 2·835 | 2·820 | 2·793 | 2·7946 |
| 2·779 | 2·801 | 2·836 | 2·844 | 2·872 | 2·896 | 2·908 | 2·928 | 2·934 | 2·958 | 2·968 | 2·989 | 2·7414 |
| 2·714 | 2·673 | 2·624 | 2·600 | 2·602 | 2·589 | 2·562 | 2·532 | 2·522 | 2·500 | 2·484 | 2·476 | 2·5006 |
| 2·483 | 2·511 | 2·531 | 2·540 | 2·543 | 2·540 | 2·544 | 2·555 | 2·579 | 2·607 | 2·617 | 2·638 | 2·8599 |
| 2·864 | 2·890 | 2·922 | 2·936 | 2·944 | 2·966 | 2·970 | 2·983 | 2·989 | 2·999 | 3·019 | 3·025 | — |
| 3·068 | 3·075 | 3·075 | 3·061 | 3·060 | 3·048 | — | — | — | — | — | — | 3·0199 |
| — | — | — | — | — | — | 2·888 | 2·862 | 2·839 | 2·822 | 2·795 | 2·786 | — |
| 2·5134 | 2·5114 | 2·5102 | 2·5033 | 2·5044 | 2·5014 | 2·5105 | 2·5099 | 2·5139 | 2·5143 | 2·5162 | 2·5153 | 2·5084 |
| 2·563 | 2·557 | 2·565 | 2·569 | 2·579 | 2·583 | 2·590 | 2·598 | 2·605 | 2·632 | 2·649 | 2·682 | 2·6133 |
| 2·866 | 2·874 | 2·892 | 2·911 | 2·913 | 2·927 | 2·937 | 2·943 | 2·962 | 2·978 | 2·982 | 2·964 | 2·8676 |
| 2·830 | 2·820 | 2·814 | 2·747 | 2·743 | 2·725 | 2·710 | 2·664 | 2·642 | 2·623 | 2·583 | 2·564 | 2·8114 |
| 2·386 | 2·368 | 2·353 | 2·342 | 2·326 | 2·290 | 2·266 | 2·246 | 2·230 | 2·252 | 2·281 | 2·296 | 2·3831 |
| 2·631 | 2·674 | 2·698 | 2·716 | 2·731 | 2·750 | 2·762 | 2·771 | 2·816 | 2·839 | 2·865 | 2·883 | 2·6094 |
| 2·991 | 3·022 | 3·047 | 3·049 | 3·065 | 3·082 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 2·740 | 2·738 | 2·734 | 2·687 | 2·9325 |
| 2·434 | 2·421 | 2·389 | 2·397 | 2·402 | 2·390 | 2·387 | 2·351 | 2·359 | 2·363 | 2·333 | 2·345 | 2·4745 |
| 2·250 | 2·246 | 2·243 | 2·233 | 2·272 | 2·296 | 2·340 | 2·387 | 2·440 | 2·472 | 2·491 | 2·515 | 2·3105 |
| 2·590 | 2·603 | 2·611 | 2·641 | 2·661 | 2·692 | 2·710 | 2·737 | 2·747 | 2·787 | 2·813 | 2·838 | 2·6467 |
| 3·052 | 3·058 | 3·068 | 3·074 | 3·088 | 3·096 | 3·103 | 3·115 | 3·127 | 3·139 | 3·153 | 3·163 | 3·0396 |
| 3·184 | 3·190 | 3·182 | 3·162 | 3·152 | 3·152 | 3·137 | 3·121 | 3·117 | 3·111 | 3·100 | 3·067 | 3·1676 |
| 2·804 | 2·780 | 2·768 | 2·748 | 2·720 | 2·700 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2·544 | 2·540 | 2·538 | 2·534 | 2·517 | 2·508 | 2·7996 |
| 2·524 | 2·548 | 2·554 | 2·576 | 2·577 | 2·582 | 2·592 | 2·586 | 2·599 | 2·601 | 2·607 | 2·631 | 2·5368 |
| 2·681 | 2·693 | 2·694 | 2·700 | 2·708 | 2·675 | 2·676 | 2·670 | 2·653 | 2·645 | 2·612 | 2·609 | 2·6665 |
| 2·393 | 2·386 | 2·361 | 2·354 | 2·350 | 2·326 | 2·318 | 2·318 | 2·327 | 2·351 | 2·347 | 2·359 | 2·4306 |
| 2·286 | 2·278 | 2·265 | 2·229 | 2·217 | 2·259 | 2·238 | 2·312 | 2·337 | 2·380 | 2·381 | 2·376 | 2·3264 |
| 2·509 | 2·538 | 2·544 | 2·571 | 2·583 | 2·603 | 2·613 | 2·618 | 2·640 | 2·646 | 2·654 | 2·668 | 2·5000 |
| 2·683 | 2·683 | 2·673 | 2·654 | 2·651 | 2·645 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2·586 | 2·592 | 2·600 | 2·586 | 2·587 | 2·593 | 2·6570 |
| 2·724 | 2·740 | 2·756 | 2·762 | 2·780 | 2·796 | 2·800 | 2·802 | 2·812 | 2·813 | 2·819 | 2·823 | 2·7100 |
| 2·933 | 2·948 | 2·948 | 2·953 | 2·955 | 2·976 | 2·973 | 2·941 | 2·951 | 2·949 | 2·949 | 2·938 | 2·9165 |
| 2·898 | 2·892 | 2·876 | 2·866 | 2·864 | 2·841 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2·871 | 2·878 | 2·900 | 2·902 | 2·910 | 2·924 | 2·9123 |
| 3·026 | 2·999 | 3·011 | 3·002 | 2·988 | 2·973 | 2·952 | 2·932 | 2·911 | 2·903 | 2·881 | 2·882 | 2·9850 |
| 2·589 | 2·587 | 2·575 | 2·566 | 2·566 | 2·572 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 2·400 | 2·384 | 2·391 | 2·399 | 2·391 | 2·407 | 2·5985 |
| 2·443 | 2·466 | 2·484 | 2·486 | 2·486 | 2·494 | 2·494 | 2·520 | 2·546 | 2·546 | 2·532 | 2·541 | 2·4566 |
| 2·737 | 2·765 | 2·783 | 2·813 | 2·823 | 2·839 | 2·838 | 2·864 | 2·904 | 2·916 | 2·940 | 2·963 | 2·7426 |
| 2·946 | 2·922 | 2·922 | 2·885 | 2·857 | 2·842 | 2·832 | 2·820 | 2·793 | 2·768 | 2·748 | 2·726 | 2·9112 |
| 2·6905 | 2·6945 | 2·6952 | 2·6925 | 2·6945 | 2·6964 | 2·6668 | 2·6684 | 2·6803 | 2·6874 | 2·6830 | 2·6905 | 2·6918 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 1 | 39.0 | 38.0 | 37.7 | 37.4 | 38.4 | 39.4 | 40.2 | 40.4 | 38.8 | 38.6 | 35.8 | 34.8 |
| | 2 | 28.0 | 28.0 | 28.0 | 29.0 | 30.8 | 31.8 | 34.2 | 33.8 | 31.4 | 30.5 | 30.2 | 28.4 |
| | 3 | 33.6 | 33.2 | 34.8 | 35.8 | 36.4 | 36.7 | 37.4 | 37.4 | 38.0 | 38.6 | 40.4 | 39.8 |
| | 4 | 34.7 | 33.7 | 33.2 | 34.6 | 35.0 | 37.4 | 38.6 | 38.6 | 39.6 | 39.2 | 36.6 | 35.4 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 18.2 | 17.8 | 17.6 | 17.8 | 17.6 | 18.0 | 18.3 | 20.0 | 20.8 | 20.6 | 20.0 | 19.3 |
| | 7 | 22.6 | 24.4 | 25.4 | 19.6 | 21.6 | 21.2 | 22.2 | 22.4 | 24.5 | 24.6 | 27.5 | 27.6 |
| | 8 | 24.4 | 25.0 | 25.4 | 26.4 | 27.9 | 29.4 | 30.4 | 31.3 | 31.2 | 31.7 | 28.4 | 29.8 |
| | 9 | 33.4 | 34.2 | 32.8 | 35.2 | 37.7 | 38.3 | 38.7 | 37.2 | 38.4 | 38.8 | 38.6 | 38.2 |
| | 10 | 28.8 | 29.7 | 29.2 | 29.8 | 31.4 | 31.6 | 31.8 | 32.8 | 34.2 | 32.4 | 31.7 | 30.8 |
| | 11 | 25.0 | 25.0 | 25.0 | 25.9 | 27.6 | 29.0 | 30.0 | 30.2 | 30.6 | 30.0 | 29.4 | 28.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 23.9 | 18.8 | 18.8 | 17.6 | 18.2 | 18.8 | 18.0 | 19.0 | 19.6 | 20.6 | 20.2 | 19.6 |
| | 14 | 16.6 | 15.6 | 14.8 | 15.4 | 15.4 | 15.4 | 16.4 | 17.9 | 18.2 | 18.8 | 18.4 | 17.0 |
| | 15 | 23.0 | 23.2 | 24.0 | 25.2 | 27.2 | 29.1 | 30.8 | 32.0 | 32.6 | 32.6 | 31.8 | 31.2 |
| | 16 | 30.7 | 30.2 | 29.2 | 28.4 | 28.0 | 27.6 | 27.2 | 26.2 | 26.4 | 26.0 | 25.6 | 24.4 |
| | 17 | 19.6 | 20.4 | 20.3 | 20.7 | 20.4 | 21.5 | 22.0 | 22.8 | 23.2 | 22.6 | 21.2 | 19.6 |
| | 18 | 20.6 | 19.4 | 19.5 | 20.6 | 21.5 | 21.3 | 21.6 | 20.4 | 20.8 | 19.6 | 18.0 | 15.8 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 21.4 | 21.4 | 21.6 | 22.2 | 24.0 | 25.2 | 26.4 | 27.8 | 29.3 | 29.5 | 29.6 | 28.8 |
| | 21 | 29.2 | 29.4 | 30.4 | 29.8 | 29.5 | 29.9 | 30.9 | 32.2 | 33.6 | 33.4 | 32.2 | 32.2 |
| | 22 | 31.6 | 31.2 | 31.3 | 31.3 | 32.6 | 34.4 | 34.8 | 35.6 | 36.4 | 35.6 | 37.2 | 31.8 |
| | 23 | 18.6 | 18.3 | 22.8 | 30.4 | 32.2 | 33.1 | 35.6 | 34.8 | 34.6 | 35.0 | 35.0 | 35.0 |
| | 24 | 35.0 | 35.4 | 35.4 | 36.2 | 36.8 | 37.0 | 37.2 | 37.8 | 37.4 | 37.0 | 36.2 | 34.9 |
| | 25 | 27.6 | 25.2 | 24.4 | 23.7 | 23.0 | 25.6 | 27.4 | 27.9 | 29.8 | 29.5 | 28.2 | 25.8 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 20.4 | 21.0 | 22.4 | 25.2 | 31.2 | 36.1 | 37.0 | 37.2 | 37.3 | 37.4 | 37.2 | 36.0 |
| | 28 | 36.7 | 35.8 | 36.5 | 37.4 | 38.2 | 39.0 | 38.8 | 39.0 | 38.2 | 39.5 | 38.6 | 40.0 |
| | 29 | 29.6 | 28.8 | 28.2 | 28.8 | 30.4 | 31.6 | 31.6 | 31.2 | 29.8 | 27.9 | 27.4 | 25.6 |
| | 30 | 16.3 | 16.0 | 14.7 | 15.4 | 18.0 | 18.8 | 19.8 | 21.0 | 21.3 | 20.4 | 19.4 | 18.2 |
| | 31 | 15.4 | 12.6 | 12.8 | 13.6 | 13.8 | 12.8 | 13.0 | 12.4 | 12.7 | 13.5 | 11.9 | 10.0 |
| Hourly Means | 26.07 | 25.62 | 25.79 | 26.42 | 27.59 | 28.52 | 29.27 | 29.60 | 29.91 | 29.77 | 29.14 | 28.08 | |
| FEBRUARY. | 1 | -2.0 | -1.6 | -1.4 | 0.6 | 3.1 | 5.2 | 7.9 | 8.8 | 10.3 | 11.4 | 11.8 | 10.4 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 17.8 | 17.7 | 17.8 | 20.3 | 18.4 | 18.9 | 20.4 | 22.2 | 21.8 | 21.5 | 21.8 | 21.4 |
| | 4 | 23.2 | 23.6 | 24.0 | 24.2 | 25.2 | 26.0 | 26.0 | 20.2 | 19.4 | 17.8 | 16.6 | 15.2 |
| | 5 | 12.0 | 11.2 | 12.0 | 13.2 | 14.8 | 15.4 | 16.2 | 17.4 | 16.4 | 16.4 | 16.2 | 16.0 |
| | 6 | 4.6 | 3.4 | 3.6 | 5.2 | 6.4 | 7.2 | 10.4 | 11.9 | 12.5 | 12.1 | 11.9 | 11.6 |
| | 7 | 13.8 | 12.6 | 13.8 | 16.2 | 17.9 | 19.9 | 21.6 | 23.5 | 25.0 | 25.6 | 25.6 | 23.8 |
| | 8 | 10.2 | 8.2 | 8.5 | 11.2 | 13.2 | 16.4 | 17.8 | 19.4 | 21.0 | 20.5 | 21.0 | 17.8 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 25.6 | 25.6 | 25.9 | 27.8 | 30.6 | 30.6 | 31.2 | 32.0 | 32.2 | 32.4 | 32.2 | 32.0 |
| | 11 | 26.2 | 25.6 | 25.8 | 27.4 | 29.8 | 32.2 | 34.0 | 34.2 | 34.2 | 33.8 | 33.3 | 32.6 |
| | 12 | 37.0 | 36.6 | 35.0 | 33.4 | 31.2 | 27.1 | 23.7 | 22.2 | 21.4 | 19.2 | 17.9 | 15.2 |
| | 13 | -2.4 | -3.4 | -2.0 | 1.4 | 3.1 | 5.2 | 7.9 | 8.2 | 8.4 | 9.6 | 10.1 | 10.0 |
| | 14 | 13.3 | 13.9 | 16.2 | 17.0 | 18.2 | 20.3 | 22.8 | 24.6 | 27.2 | 28.0 | 28.6 | 29.2 |
| | 15 | 35.0 | 35.2 | 36.1 | 36.6 | 37.4 | 37.6 | 38.0 | 38.5 | 39.2 | 38.6 | 38.1 | 38.2 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 32.6 | 32.6 | 33.2 | 34.2 | 35.2 | 36.0 | 37.0 | 38.2 | 38.0 | 38.2 | 36.4 | 35.7 |
| | 18 | 33.0 | 32.8 | 33.0 | 33.6 | 34.4 | 35.2 | 35.8 | 35.2 | 35.0 | 35.7 | 35.3 | 34.4 |
| | 19 | 32.7 | 33.0 | 33.3 | 34.0 | 34.2 | 35.7 | 37.1 | 36.7 | 36.3 | 35.8 | 36.6 | 35.2 |
| | 20 | 33.8 | 35.2 | 36.8 | 39.4 | 41.0 | 42.6 | 41.8 | 41.4 | 42.2 | 40.1 | 40.0 | 40.0 |
| | 21 | 33.2 | 33.8 | 34.6 | 36.4 | 38.6 | 41.2 | 41.8 | 43.8 | 43.2 | 43.8 | 44.0 | 43.2 |
| | 22 | 35.4 | 35.6 | 36.4 | 38.9 | 39.9 | 40.6 | 42.4 | 41.8 | 41.8 | 40.8 | 40.4 | 38.6 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 35.1 | 34.2 | 36.2 | 38.7 | 40.8 | 40.5 | 41.3 | 41.9 | 42.3 | 42.4 | 41.0 | 39.7 |
| | 25 | 34.9 | 35.2 | 38.2 | 43.4 | 43.8 | 46.4 | 47.0 | 47.1 | 47.3 | 47.1 | 46.5 | 45.3 |
| | 26 | 34.4 | 35.5 | 36.1 | 37.4 | 38.1 | 38.2 | 38.5 | 37.6 | 37.5 | 37.5 | 36.8 | 36.4 |
| | 27 | 26.2 | 25.2 | 28.0 | 32.6 | 35.8 | 36.3 | 37.4 | 37.2 | 39.6 | 36.9 | 35.9 | 33.3 |
| | 28 | 25.4 | 24.8 | 25.2 | 26.5 | 27.7 | 30.0 | 31.3 | 31.8 | 32.5 | 32.6 | 32.0 | 31.2 |
| Hourly Means | 23.79 | 23.60 | 24.48 | 26.24 | 27.45 | 28.53 | 29.55 | 29.83 | 30.19 | 29.95 | 29.58 | 28.60 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 34.7 | 34.6 | 34.6 | 34.2 | 33.6 | 32.7 | 31.8 | 31.3 | 31.0 | 30.6 | 29.6 | 28.4 | 35.23 |
| 29.0 | 28.8 | 29.6 | 30.2 | 31.0 | 31.6 | 31.8 | 31.8 | 32.4 | 32.8 | 33.0 | 33.8 | 30.83 |
| 42.0 | 43.4 | 41.8 | 40.0 | 38.0 | 37.0 | 36.6 | 36.6 | 36.4 | 36.3 | 36.4 | 35.3 | 37.58 |
| 34.4 | 33.8 | 34.3 | 35.6 | 36.2 | 36.6 | — | — | — | — | — | — | 31.88 |
| — | — | — | — | — | — | 22.2 | 21.6 | 19.5 | 18.7 | 18.4 | 17.2 | — |
| 18.2 | 17.6 | 16.8 | 16.6 | 16.8 | 17.5 | 18.3 | 19.6 | 20.6 | 20.2 | 20.4 | 21.4 | 18.75 |
| 27.0 | 26.2 | 24.8 | 25.4 | 26.0 | 26.6 | 25.0 | 24.0 | 22.6 | 22.9 | 26.3 | 23.6 | 24.33 |
| 28.2 | 30.6 | 28.8 | 30.4 | 30.7 | 30.0 | 30.0 | 31.4 | 32.8 | 33.0 | 33.4 | 33.8 | 29.77 |
| 36.6 | 33.2 | 31.4 | 27.6 | 26.0 | 25.6 | 26.0 | 25.4 | 26.0 | 25.6 | 24.0 | 27.4 | 32.35 |
| 30.4 | 30.0 | 29.6 | 29.2 | 29.0 | 26.0 | 23.0 | 23.8 | 25.6 | 25.7 | 25.2 | 25.0 | 29.03 |
| 28.0 | 27.6 | 27.2 | 25.8 | 23.6 | 20.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 17.2 | 17.2 | 18.8 | 22.3 | 23.4 | 23.4 | 25.47 |
| 17.8 | 12.8 | 12.9 | 14.0 | 14.0 | 16.8 | 18.0 | 17.7 | 17.0 | 15.3 | 18.4 | 17.4 | 17.72 |
| 17.6 | 20.6 | 19.0 | 18.0 | 18.4 | 18.2 | 19.6 | 20.2 | 22.4 | 21.8 | 21.6 | 22.4 | 18.32 |
| 31.0 | 31.0 | 31.8 | 31.6 | 31.6 | 32.0 | 31.6 | 31.4 | 31.0 | 31.2 | 30.8 | 31.2 | 29.95 |
| 24.0 | 23.4 | 22.8 | 22.4 | 21.8 | 21.6 | 22.0 | 22.0 | 21.9 | 21.3 | 20.8 | 20.3 | 24.76 |
| 19.0 | 18.9 | 19.6 | 19.3 | 19.3 | 19.8 | 19.7 | 20.5 | 20.6 | 19.8 | 19.3 | 19.8 | 20.41 |
| 13.9 | 12.0 | 10.4 | 9.7 | 7.8 | 3.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 21.4 | 21.0 | 21.0 | 21.4 | 21.4 | 21.4 | 17.67 |
| 28.8 | 28.8 | 28.6 | 28.8 | 29.4 | 29.6 | 29.6 | 29.6 | 28.8 | 28.8 | 28.8 | 28.4 | 27.30 |
| 31.7 | 32.4 | 31.8 | 32.0 | 30.0 | 31.2 | 31.6 | 31.6 | 31.6 | 31.4 | 30.8 | 30.8 | 31.23 |
| 27.6 | 25.2 | 22.2 | 20.6 | 19.5 | 18.7 | 18.8 | 18.8 | 19.0 | 17.8 | 14.2 | 14.8 | 26.71 |
| 35.0 | 35.4 | 35.6 | 35.6 | 34.9 | 35.8 | 36.1 | 36.0 | 35.3 | 34.8 | 34.8 | 34.6 | 32.89 |
| 35.0 | 35.3 | 35.2 | 35.0 | 35.4 | 35.6 | 35.6 | 35.1 | 34.8 | 33.4 | 30.8 | 29.2 | 35.28 |
| 24.8 | 24.0 | 23.6 | 23.6 | 22.5 | 21.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 20.2 | 21.0 | 22.2 | 21.0 | 21.0 | 19.4 | 24.29 |
| 35.4 | 35.2 | 35.1 | 35.4 | 35.6 | 35.4 | 35.4 | 35.5 | 35.4 | 35.4 | 36.0 | 36.8 | 33.54 |
| 38.0 | 37.0 | 36.0 | 34.2 | 33.4 | 33.4 | 33.4 | 33.1 | 32.0 | 30.6 | 30.2 | 29.8 | 35.78 |
| 25.0 | 24.3 | 24.0 | 22.7 | 21.8 | 21.0 | 20.4 | 19.4 | 19.0 | 19.7 | 19.0 | 17.4 | 25.19 |
| 16.2 | 18.2 | 17.6 | 17.0 | 16.0 | 16.8 | 14.6 | 13.4 | 11.9 | 12.8 | 14.8 | 15.4 | 16.83 |
| 8.4 | 7.6 | 5.6 | 4.0 | 2.8 | 1.4 | 0.2 | -1.0 | -1.4 | -2.0 | -1.6 | -1.8 | 7.36 |
| 27.32 | 26.96 | 26.33 | 25.89 | 25.37 | 25.07 | 24.82 | 24.74 | 24.75 | 24.58 | 24.49 | 24.32 | 26.68 |
| 8.2 | 6.5 | 4.4 | 4.2 | 5.2 | 7.4 | — | — | — | — | — | — | 8.23 |
| — | — | — | — | — | — | 16.6 | 16.4 | 15.8 | 15.0 | 15.4 | 17.2 | — |
| 19.2 | 19.6 | 22.4 | 22.6 | 22.4 | 22.8 | 23.2 | 24.7 | 23.2 | 23.6 | 23.3 | 23.4 | 21.27 |
| 14.0 | 14.2 | 12.8 | 12.0 | 12.2 | 12.2 | 11.6 | 12.0 | 12.4 | 13.4 | 14.2 | 13.0 | 17.32 |
| 16.6 | 16.2 | 15.4 | 14.7 | 13.4 | 12.4 | 11.7 | 10.9 | 10.4 | 9.6 | 8.2 | 6.0 | 13.45 |
| 12.6 | 14.0 | 15.8 | 16.8 | 18.6 | 19.0 | 18.2 | 17.6 | 16.8 | 16.0 | 15.8 | 14.8 | 12.37 |
| 21.8 | 19.8 | 19.0 | 18.4 | 13.4 | 18.4 | 17.4 | 16.0 | 15.7 | 11.8 | 9.2 | 11.5 | 18.19 |
| 12.8 | 9.0 | 6.0 | 11.4 | 10.6 | 13.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 23.2 | 23.8 | 24.0 | 24.2 | 24.8 | 24.7 | 16.40 |
| 32.0 | 32.4 | 32.5 | 31.0 | 31.6 | 30.8 | 28.8 | 29.2 | 29.0 | 28.2 | 27.4 | 26.6 | 29.90 |
| 32.6 | 32.4 | 31.2 | 31.2 | 30.8 | 30.4 | 31.1 | 31.0 | 31.4 | 31.5 | 32.5 | 28.2 | 30.98 |
| 13.6 | 12.7 | 12.2 | 12.4 | 11.0 | 8.2 | 6.4 | 4.8 | 3.0 | 1.6 | -0.6 | -2.2 | 16.79 |
| 9.6 | 9.0 | 9.2 | 10.4 | 11.8 | 16.4 | 16.6 | 10.4 | 10.6 | 11.3 | 10.9 | 11.4 | 8.07 |
| 29.6 | 30.2 | 31.0 | 31.8 | 32.4 | 33.0 | 33.5 | 33.8 | 34.2 | 35.2 | 34.6 | 34.8 | 27.22 |
| 38.4 | 38.2 | 37.2 | 35.5 | 35.4 | 37.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33.6 | 33.0 | 33.6 | 33.0 | 32.6 | 32.6 | 36.20 |
| 36.4 | 34.9 | 32.5 | 34.4 | 34.8 | 34.0 | 34.4 | 34.6 | 34.6 | 33.8 | 33.9 | 33.4 | 34.96 |
| 32.6 | 31.4 | 31.6 | 31.1 | 27.8 | 27.6 | 28.2 | 31.0 | 32.0 | 32.2 | 32.8 | 32.6 | 32.68 |
| 34.0 | 34.8 | 35.2 | 36.6 | 38.0 | 36.4 | 36.2 | 36.4 | 35.4 | 35.2 | 33.6 | 32.8 | 35.22 |
| 40.2 | 40.4 | 40.4 | 39.8 | 39.4 | 38.6 | 38.0 | 39.2 | 37.0 | 35.8 | 34.8 | 32.4 | 38.76 |
| 42.8 | 43.0 | 42.6 | 39.6 | 37.6 | 37.8 | 39.8 | 38.0 | 38.2 | 37.2 | 36.4 | 36.4 | 39.46 |
| 38.4 | 38.5 | 38.3 | 37.5 | 37.0 | 37.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.1 | 37.6 | 35.9 | 33.6 | 32.9 | 33.6 | 37.96 |
| 38.3 | 39.1 | 36.9 | 35.1 | 35.5 | 38.3 | 38.7 | 37.1 | 35.3 | 35.5 | 35.4 | 34.6 | 38.10 |
| 45.0 | 46.5 | 42.8 | 45.5 | 47.3 | 45.8 | 43.5 | 42.0 | 40.3 | 37.9 | 35.6 | 34.3 | 42.86 |
| 35.4 | 33.9 | 33.1 | 31.5 | 32.0 | 31.3 | 30.1 | 29.5 | 29.5 | 28.7 | 27.5 | 27.4 | 33.91 |
| 31.4 | 30.6 | 29.4 | 28.4 | 28.5 | 28.5 | 27.6 | 27.7 | 27.4 | 27.2 | 26.8 | 26.8 | 31.03 |
| 32.2 | 32.0 | 32.3 | 32.3 | 31.5 | 31.5 | 32.0 | 32.3 | 32.3 | 25.6 | 30.1 | 32.3 | 30.35 |
| 27.82 | 27.47 | 26.84 | 26.84 | 26.80 | 27.03 | 27.44 | 27.04 | 26.58 | 25.71 | 25.34 | 24.94 | 27.15 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 33.6 | 33.9 | 34.9 | 37.7 | 38.1 | 39.1 | 40.4 | 42.1 | 43.1 | 43.5 | 43.3 | 39.4 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 33.7 | 32.7 | 31.8 | 31.2 | 30.6 | 30.4 | 31.5 | 32.2 | 31.3 | 31.9 | 32.0 | 32.1 |
| | 4 | 25.0 | 28.7 | 32.7 | 34.7 | 36.4 | 38.1 | 38.3 | 40.2 | 41.3 | 38.8 | 37.0 | 36.6 |
| | 5 | 31.8 | 33.4 | 33.5 | 33.8 | 35.0 | 36.4 | 37.1 | 39.4 | 40.4 | 43.3 | 45.1 | 44.6 |
| | 6 | 26.7 | 27.7 | 31.5 | 33.6 | 35.6 | 36.3 | 37.4 | 37.2 | 38.9 | 38.6 | 37.9 | 35.5 |
| | 7 | 32.3 | 34.4 | 36.3 | 38.2 | 40.2 | 40.9 | 40.5 | 40.5 | 39.7 | 40.0 | 40.2 | 39.5 |
| | 8 | 39.4 | 40.3 | 45.9 | 45.9 | 50.6 | 52.2 | 54.0 | 54.3 | 53.5 | 53.5 | 52.0 | 49.7 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 26.8 | 27.2 | 28.6 | 30.7 | 33.3 | 34.9 | 36.7 | 37.9 | 36.5 | 35.9 | 35.7 | 34.3 |
| | 11 | 28.8 | 28.6 | 30.3 | 33.6 | 36.1 | 35.7 | 36.3 | 36.6 | 36.7 | 36.9 | 36.1 | 34.9 |
| | 12 | 33.3 | 34.1 | 35.1 | 40.0 | 38.7 | 38.7 | 38.9 | 39.1 | 44.7 | 41.9 | 40.6 | 39.6 |
| | 13 | 29.7 | 31.0 | 32.0 | 36.1 | 38.7 | 40.6 | 41.1 | 43.3 | 43.3 | 43.1 | 41.2 | 40.6 |
| | 14 | 35.5 | 36.7 | 37.4 | 38.5 | 39.1 | 40.3 | 42.5 | 43.1 | 41.9 | 36.6 | 34.5 | 34.4 |
| | 15 | 18.0 | 18.6 | 19.2 | 20.6 | 22.0 | 22.1 | 22.1 | 23.5 | 23.5 | 23.5 | 22.9 | 23.1 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 24.9 | 25.7 | 27.0 | 29.9 | 28.7 | 29.6 | 31.5 | 32.2 | 33.9 | 33.4 | 33.6 | 33.4 |
| | 18 | 25.0 | 24.9 | 24.7 | 25.9 | 27.5 | 28.7 | 28.9 | 26.5 | 27.2 | 26.0 | 26.1 | 25.4 |
| | 19 | 19.6 | 20.7 | 21.7 | 23.7 | 24.1 | 24.5 | 25.9 | 26.8 | 27.5 | 24.1 | 24.8 | 23.9 |
| | 20 | 25.4 | 26.4 | 27.5 | 28.4 | 30.4 | 31.0 | 31.6 | 32.5 | 31.8 | 32.1 | 32.2 | 31.0 |
| | 21 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 27.9 | 30.1 | 32.3 | 34.9 | 39.3 | 39.6 | 40.3 | 40.9 | 42.4 | 42.3 | 42.6 | 39.6 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 35.9 | 36.2 | 37.2 | 37.1 | 38.2 | 38.6 | 39.6 | 41.1 | 40.7 | 40.9 | 40.5 | 39.3 |
| | 25 | 32.7 | 32.7 | 35.5 | 39.7 | 42.3 | 42.9 | 44.7 | 45.7 | 46.3 | 45.4 | 45.4 | 45.1 |
| | 26 | 33.9 | 35.6 | 38.5 | 41.2 | 41.9 | 44.4 | 47.9 | 45.4 | 48.4 | 48.9 | 48.4 | 47.9 |
| | 27 | 38.7 | 38.9 | 46.9 | 51.0 | 54.5 | 54.0 | 54.3 | 58.0 | 56.2 | 51.7 | 48.7 | 46.6 |
| | 28 | 39.7 | 42.3 | 43.7 | 45.7 | 47.7 | 52.2 | 52.2 | 50.4 | 52.2 | 50.2 | 50.8 | 48.3 |
| | 29 | 33.4 | 35.9 | 42.6 | 45.6 | 49.1 | 52.6 | 56.2 | 59.0 | 61.1 | 61.5 | 61.5 | 58.7 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 44.3 | 49.1 | 52.7 | 55.3 | 56.6 | 58.5 | 61.4 | 59.8 | 60.3 | 59.8 | 62.5 | 59.0 |
| Hourly Means | 31.04 | 32.23 | 34.38 | 36.52 | 38.19 | 39.29 | 40.45 | 41.11 | 41.71 | 40.55 | 40.62 | 39.30 | |
| APRIL. | 1 | 49.1 | 45.5 | 41.7 | 40.9 | 39.2 | 38.7 | 39.4 | 40.3 | 40.5 | 40.6 | 40.4 | 39.7 |
| | 2 | 37.2 | 38.4 | 41.7 | 46.5 | 48.5 | 50.0 | 44.9 | 46.3 | 44.6 | 44.9 | 43.2 | 43.2 |
| | 3 | 26.2 | 27.9 | 29.2 | 31.0 | 32.6 | 34.7 | 36.4 | 38.2 | 39.5 | 39.3 | 37.1 | 36.5 |
| | 4 | 38.3 | 39.5 | 40.2 | 41.1 | 41.6 | 43.4 | 43.4 | 43.1 | 41.3 | 42.4 | 40.5 | 39.2 |
| | 5 | 24.6 | 26.2 | 27.0 | 31.7 | 32.3 | 34.3 | 34.9 | 33.9 | 34.2 | 31.5 | 29.6 | 29.3 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 24.1 | 24.1 | 25.6 | 26.2 | 26.7 | 28.2 | 30.8 | 33.7 | 32.3 | 32.0 | 32.0 | 30.7 |
| | 8 | 19.4 | 20.9 | 23.0 | 24.3 | 26.2 | 26.8 | 28.2 | 30.1 | 31.3 | 32.9 | 32.9 | 33.9 |
| | 9 | 21.0 | 24.0 | 28.7 | 33.9 | 35.6 | 37.5 | 39.3 | 39.5 | 41.2 | 40.5 | 41.2 | 39.5 |
| | 10 | 34.9 | 40.0 | 45.7 | 50.0 | 50.2 | 50.5 | 48.9 | 46.4 | 44.1 | 43.5 | 43.7 | 42.9 |
| | 11 | 33.5 | 33.9 | 34.1 | 35.5 | 37.3 | 40.3 | 41.5 | 42.7 | 44.1 | 44.9 | 44.1 | 42.3 |
| | 12 | 30.4 | 35.1 | 39.1 | 42.6 | 45.4 | 47.3 | 45.4 | 46.3 | 47.7 | 47.7 | 46.3 | 45.4 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 39.1 | 42.2 | 46.3 | 49.6 | 52.9 | 54.8 | 56.0 | 55.4 | 56.4 | 57.4 | 56.8 | 61.4 |
| | 15 | 33.1 | 41.3 | 49.5 | 56.8 | 58.6 | 57.6 | 57.7 | 58.6 | 58.2 | 61.1 | 60.1 | 60.1 |
| | 16 | 45.9 | 45.6 | 45.7 | 46.3 | 47.6 | 47.9 | 46.7 | 45.7 | 44.9 | 44.5 | 44.7 | 44.5 |
| | 17 | 39.4 | 40.0 | 40.2 | 40.4 | 40.7 | 40.7 | 42.1 | 42.5 | 43.3 | 44.3 | 43.9 | 44.1 |
| | 18 | 41.3 | 42.3 | 41.0 | 42.1 | 42.9 | 43.4 | 43.9 | 45.3 | 45.3 | 45.5 | 46.6 | 45.9 |
| | 19 | 45.7 | 43.9 | 43.2 | 43.1 | 44.7 | 44.3 | 44.1 | 43.7 | 44.1 | 44.7 | 44.9 | 45.1 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 42.3 | 43.3 | 44.7 | 44.9 | 46.1 | 45.2 | 46.2 | 46.3 | 47.5 | 48.9 | 48.5 | 47.3 |
| | 22 | 39.3 | 44.3 | 46.1 | 48.5 | 50.4 | 50.8 | 50.4 | 51.4 | 51.3 | 50.7 | 52.4 | 52.6 |
| | 23 | 49.2 | 53.0 | 54.6 | 56.7 | 60.1 | 63.0 | 63.7 | 65.8 | 63.1 | 62.1 | 60.3 | 58.7 |
| | 24 | 50.3 | 52.0 | 55.0 | 59.0 | 61.3 | 65.1 | 66.4 | 66.5 | 66.7 | 66.7 | 63.3 | 60.3 |
| | 25 | 43.9 | 44.1 | 43.6 | 43.5 | 46.0 | 44.9 | 46.5 | 45.1 | 47.3 | 48.9 | 44.9 | 43.9 |
| | 26 | 41.5 | 42.4 | 44.9 | 44.9 | 45.9 | 49.5 | 54.0 | 52.8 | 53.2 | 53.8 | 56.3 | 57.4 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 43.5 | 46.9 | 50.7 | 53.3 | 55.7 | 58.0 | 60.6 | 61.9 | 61.7 | 62.1 | 59.4 | 56.4 |
| | 29 | 50.2 | 53.8 | 56.3 | 59.4 | 59.6 | 58.8 | 58.6 | 58.6 | 59.0 | 57.5 | 58.0 | 58.7 |
| | 30 | 46.9 | 45.5 | 47.1 | 51.3 | 52.8 | 53.5 | 55.5 | 58.0 | 60.5 | 59.8 | 60.1 | 57.6 |
| Hourly Means | 38.09 | 39.85 | 41.73 | 43.98 | 45.42 | 46.51 | 47.13 | 47.62 | 47.82 | 48.01 | 47.35 | 46.79 | |

^a Good Friday.

| STANDARD THERMOMETER. | | | | | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 35.6 | 34.9 | 35.9 | 35.4 | 34.9 | 35.7 | — | — | — | — | — | — | 37.02 |
| — | — | — | — | — | — | 35.4 | 35.3 | 33.9 | 34.3 | 34.3 | 33.9 | 30.07 |
| 31.0 | 29.3 | 28.6 | 29.3 | 29.8 | 28.8 | 29.6 | 29.2 | 27.5 | 26.1 | 26.2 | 24.8 | 35.91 |
| 36.6 | 36.7 | 37.9 | 37.9 | 37.9 | 37.7 | 37.7 | 35.1 | 35.1 | 33.9 | 34.1 | 33.5 | 35.71 |
| 42.1 | 39.7 | 38.2 | 36.3 | 34.3 | 32.6 | 32.3 | 31.3 | 30.1 | 30.1 | 28.5 | 27.7 | 33.94 |
| 33.5 | 33.1 | 33.4 | 33.1 | 33.3 | 33.1 | 33.2 | 33.6 | 33.0 | 33.6 | 33.0 | 31.8 | 38.85 |
| 39.1 | 39.6 | 40.6 | 40.3 | 39.4 | 39.2 | 39.1 | 38.9 | 38.3 | 37.9 | 38.2 | 39.2 | 42.65 |
| 47.4 | 45.9 | 44.6 | 43.4 | 42.1 | 40.6 | — | — | — | — | — | — | 32.60 |
| — | — | — | — | — | — | 28.5 | 28.2 | 28.2 | 28.0 | 28.4 | 27.0 | 33.10 |
| 33.7 | 33.9 | 33.9 | 33.4 | 33.2 | 32.3 | 31.9 | 30.3 | 30.1 | 30.1 | 30.6 | 30.4 | 36.07 |
| 32.4 | 33.5 | 32.9 | 32.0 | 31.0 | 30.5 | 31.0 | 31.2 | 31.7 | 32.3 | 32.4 | 32.9 | 36.85 |
| 39.1 | 38.5 | 37.7 | 35.9 | 35.1 | 32.0 | 30.5 | 29.9 | 29.1 | 30.3 | 32.0 | 30.8 | 31.01 |
| 37.9 | 37.3 | 36.7 | 36.4 | 34.9 | 35.3 | 34.4 | 33.4 | 34.4 | 34.7 | 33.9 | 34.3 | 21.40 |
| 31.8 | 29.7 | 26.7 | 24.7 | 24.0 | 23.1 | 22.5 | 21.9 | 21.2 | 20.4 | 19.2 | 18.6 | 29.42 |
| 22.7 | 19.8 | 18.7 | 17.7 | 13.0 | 11.2 | — | — | — | — | — | — | 24.05 |
| — | — | — | — | — | — | 25.7 | 25.3 | 25.1 | 24.8 | 25.4 | 25.0 | 22.58 |
| 32.7 | 31.7 | 30.6 | 29.3 | 28.5 | 28.7 | 28.0 | 27.7 | 27.4 | 26.7 | 26.0 | 25.0 | 29.97 |
| 24.6 | 23.5 | 22.3 | 21.4 | 21.1 | 20.8 | 21.1 | 21.4 | 21.4 | 21.4 | 20.9 | 20.4 | 36.20 |
| 22.7 | 21.9 | 20.4 | 19.8 | 19.6 | 20.6 | 20.6 | 20.6 | 21.7 | 21.2 | 21.1 | 24.5 | 33.33 |
| 31.2 | 31.0 | 31.0 | 30.6 | 29.8 | 28.4 | — | — | — | — | — | — | 38.07 |
| — | — | — | — | — | — | — | — | 29.1 | 29.1 | 29.3 | 29.3 | 45.18 |
| 36.3 | 34.7 | 34.4 | 33.9 | 32.4 | 30.6 | — | — | — | — | — | — | 45.27 |
| — | — | — | — | — | — | 35.9 | 35.7 | 35.6 | 35.5 | 35.7 | 35.9 | 43.87 |
| 36.9 | 36.7 | 37.3 | 36.5 | 35.7 | 34.8 | 34.1 | 33.4 | 32.9 | 32.9 | 31.0 | 32.5 | 49.26 |
| 40.6 | 40.0 | 38.6 | 35.9 | 34.1 | 32.4 | 32.9 | 32.7 | 33.3 | 33.2 | 30.1 | 31.4 | 54.88 |
| 46.7 | 45.1 | 44.9 | 43.6 | 52.0 | 49.2 | 47.9 | 48.3 | 48.9 | 47.7 | 44.3 | 43.4 | 37.63 |
| 45.1 | 44.9 | 42.3 | 39.3 | 40.0 | 40.3 | 40.3 | 39.7 | 40.2 | 39.3 | 38.4 | 37.2 | 36.61 |
| 45.2 | 42.9 | 42.3 | 41.1 | 40.0 | 40.3 | 40.5 | 40.2 | 38.6 | 37.6 | 34.9 | 33.9 | 35.85 |
| 58.7 | 55.0 | 49.4 | 50.4 | 47.7 | 47.7 | — | — | — | — | — | — | 34.90 |
| — | — | — | — | — | — | 44.2 | 43.4 | 41.7 | 41.4 | 41.4 | 44.1 | 34.34 |
| 57.2 | 56.0 | 57.0 | 54.8 | 54.8 | 52.3 | 50.3 | 50.4 | 50.8 | 51.0 | 51.0 | 52.2 | 33.53 |
| — | — | — | — | — | — | — | — | — | — | — | — | 33.65 |
| 37.63 | 36.61 | 35.85 | 34.90 | 34.34 | 33.53 | 33.65 | 33.21 | 32.77 | 32.54 | 32.01 | 31.99 | 33.21 |
| 39.3 | 38.1 | 35.7 | 30.8 | 29.3 | 29.1 | 28.2 | 27.4 | 27.4 | 27.8 | 33.2 | 35.4 | 36.57 |
| 41.3 | 39.7 | 37.5 | 32.2 | 30.5 | 36.7 | 34.9 | 36.2 | 28.0 | 27.4 | 27.4 | 26.8 | 38.67 |
| 33.3 | 33.3 | 33.1 | 32.9 | 33.3 | 33.4 | 33.4 | 32.9 | 32.8 | 32.9 | 32.3 | 35.3 | 33.65 |
| 38.3 | 36.9 | 33.9 | 32.3 | 31.7 | 31.0 | 30.4 | 29.7 | 28.2 | 27.0 | 25.7 | 24.7 | 36.00 |
| 28.5 | 26.6 | 25.0 | 22.9 | 23.3 | 22.9 | — | — | — | — | — | — | 26.50 |
| — | — | — | — | — | — | 17.5 | 17.5 | 15.7 | 19.6 | 22.7 | 24.3 | 25.37 |
| 27.6 | 25.2 | 23.3 | 22.5 | 21.6 | 21.1 | 20.9 | 19.8 | 20.0 | 20.0 | 21.2 | 19.4 | 25.70 |
| 32.0 | 29.1 | 27.6 | 25.4 | 24.1 | 23.7 | 22.7 | 21.9 | 20.9 | 20.8 | 19.4 | 19.4 | 35.42 |
| 38.1 | 37.5 | 37.3 | 35.9 | 34.3 | 33.5 | 33.5 | 33.9 | 36.5 | 36.7 | 36.3 | 34.7 | 41.18 |
| 41.3 | 40.3 | 39.4 | 38.9 | 38.3 | 37.9 | 36.5 | 35.9 | 35.4 | 35.7 | 34.9 | 32.9 | 35.04 |
| 39.1 | 35.9 | 34.3 | 33.1 | 30.4 | 28.3 | 28.2 | 26.4 | 27.2 | 27.6 | 28.4 | 27.8 | 41.78 |
| 43.1 | 41.1 | 39.4 | 39.3 | 39.1 | 38.9 | — | — | — | — | — | — | 47.83 |
| — | — | — | — | — | — | 42.5 | 41.9 | 40.5 | 40.5 | 39.5 | 38.3 | 50.85 |
| 59.5 | 58.0 | 50.7 | 47.5 | 45.9 | 41.1 | 37.1 | 36.5 | 36.1 | 37.9 | 36.5 | 32.9 | 43.24 |
| 56.2 | 49.5 | 46.1 | 43.9 | 43.3 | 48.3 | 51.2 | 50.5 | 46.3 | 42.9 | 44.1 | 45.3 | 42.07 |
| 43.9 | 41.3 | 41.1 | 40.2 | 40.1 | 40.3 | 40.2 | 40.4 | 40.3 | 40.0 | 40.0 | 40.0 | 44.53 |
| 43.5 | 42.9 | 42.9 | 43.2 | 42.9 | 42.5 | 41.9 | 41.5 | 41.9 | 41.9 | 41.5 | 41.5 | 43.82 |
| 45.7 | 46.1 | 46.3 | 45.5 | 45.1 | 44.7 | 44.7 | 44.9 | 45.5 | 44.4 | 45.2 | 45.1 | 42.18 |
| 45.3 | 45.1 | 45.7 | 44.7 | 43.9 | 43.5 | — | — | — | — | — | — | 48.12 |
| — | — | — | — | — | — | 42.4 | 42.3 | 42.2 | 41.9 | 41.7 | 41.6 | 55.66 |
| 45.3 | 44.2 | 42.7 | 39.7 | 37.3 | 39.3 | 37.3 | 35.4 | 34.9 | 35.5 | 34.1 | 35.3 | 56.50 |
| 48.7 | 46.9 | 47.3 | 46.5 | 47.6 | 47.4 | 47.3 | 47.9 | 46.7 | 46.7 | 46.3 | 47.3 | 43.60 |
| 58.0 | 50.5 | 54.0 | 51.0 | 49.5 | 49.1 | 50.4 | 54.0 | 54.2 | 53.2 | 51.2 | 50.4 | 48.27 |
| 58.0 | 57.2 | 56.8 | 56.2 | 56.0 | 56.2 | 54.3 | 49.5 | 46.1 | 45.3 | 44.1 | 43.6 | 53.27 |
| 44.9 | 42.4 | 42.9 | 42.1 | 41.7 | 42.2 | 42.3 | 41.4 | 40.9 | 40.9 | 40.9 | 41.1 | 53.37 |
| 57.6 | 51.8 | 51.0 | 51.0 | 53.0 | 54.2 | — | — | — | — | — | — | 53.73 |
| — | — | — | — | — | — | 44.9 | 41.7 | 41.3 | 38.7 | 38.1 | 38.6 | 42.45 |
| 57.6 | 55.0 | 50.5 | 54.5 | 53.4 | 52.8 | 51.0 | 49.7 | 48.3 | 43.9 | 44.6 | 46.9 | — |
| 55.3 | 53.0 | 52.0 | 50.8 | 50.0 | 48.7 | 47.6 | 47.9 | 47.7 | 47.2 | 46.4 | 45.7 | — |
| 54.2 | 53.7 | 54.7 | 55.2 | 55.4 | 52.2 | 52.2 | 54.6 | 53.6 | 54.6 | 50.6 | 50.0 | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 45.22 | 43.13 | 41.97 | 40.70 | 40.04 | 39.96 | 38.98 | 38.53 | 37.64 | 37.35 | 37.17 | 37.09 | 42.45 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 5 | 3 | 4 | 5 | |
| MAY. | 1 | 51.0 | 57.0 | 58.5 | 59.6 | 62.3 | 63.3 | 64.8 | 65.8 | 66.7 | 67.1 | 66.6 | 62.8 |
| | 2 | 42.3 | 43.9 | 44.5 | 45.6 | 47.4 | 50.0 | 52.3 | 53.7 | 55.2 | 56.5 | 57.6 | 57.6 |
| | 3 | 46.9 | 50.5 | 51.7 | 55.3 | 58.5 | 60.3 | 62.1 | 60.1 | 57.8 | 58.2 | 56.4 | 57.4 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 35.9 | 37.4 | 39.5 | 42.1 | 44.5 | 45.9 | 49.1 | 48.4 | 50.3 | 50.8 | 52.0 | 49.4 |
| | 6 | 39.5 | 45.1 | 47.7 | 50.2 | 53.2 | — | — | — | — | 54.5 | 56.0 | 54.7 |
| | 7 | 45.2 | 42.1 | 40.5 | 40.8 | 43.5 | 44.8 | 45.1 | 45.5 | 47.5 | 48.2 | 48.8 | 47.0 |
| | 8 | 33.4 | 37.7 | 40.1 | 43.6 | 44.5 | 44.8 | 47.3 | 50.0 | 50.3 | 49.6 | 46.6 | 47.4 |
| | 9 | 44.8 | 49.4 | 51.7 | 52.6 | 52.4 | 53.0 | 52.4 | 52.8 | 54.6 | 54.8 | 56.2 | 56.8 |
| | 10 | 46.4 | 48.0 | 50.4 | 52.8 | 52.8 | 57.6 | 57.4 | 56.2 | 57.2 | 57.0 | 58.5 | 61.0 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 57.8 | 64.4 | 68.4 | 69.4 | 70.6 | 73.4 | 74.6 | 76.6 | 77.1 | 74.9 | 73.6 | 73.9 |
| | 13 | 55.3 | 59.2 | 62.3 | 70.3 | 73.5 | 73.1 | 73.7 | 74.4 | 73.9 | 71.0 | 70.6 | 66.8 |
| | 14 | 58.3 | 61.2 | 60.5 | 61.3 | 63.8 | 65.4 | 62.5 | 64.6 | 65.0 | 65.0 | 64.1 | 65.0 |
| | 15 | 43.8 | 40.5 | 38.9 | 37.7 | 39.9 | 41.0 | 43.3 | 45.8 | 48.4 | 48.4 | 49.4 | 48.8 |
| | 16 | 34.5 | 37.7 | 38.5 | 40.8 | 44.2 | 45.2 | 45.8 | 45.6 | 45.0 | 46.8 | 48.0 | 50.3 |
| | 17 | 39.9 | 47.2 | 51.0 | 56.3 | 57.4 | 57.5 | 57.1 | 57.8 | 59.2 | 59.1 | 59.8 | 59.1 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 54.2 | 58.8 | 61.7 | 64.6 | 67.2 | 67.4 | 67.0 | 65.6 | 61.0 | 61.8 | 60.8 | 60.2 |
| | 20 | 43.8 | 45.4 | 47.0 | 49.2 | 50.8 | 52.6 | 54.5 | 54.1 | 54.8 | 55.4 | 55.6 | 54.4 |
| | 21 | 43.2 | 45.8 | 49.1 | 51.0 | 54.8 | 55.8 | 56.4 | 58.4 | 60.0 | 61.0 | 62.4 | 61.3 |
| | 22 | 43.2 | 45.3 | 47.5 | 50.2 | 52.0 | 51.8 | 49.4 | 48.8 | 47.6 | 47.3 | 47.7 | 47.3 |
| | 23 | 40.1 | 45.6 | 49.2 | 54.2 | 56.5 | 56.3 | 57.0 | 58.4 | 59.4 | 58.8 | 60.3 | 61.0 |
| | 24 | 40.2 | 41.8 | 43.0 | 45.3 | 48.2 | 49.5 | 50.0 | 51.2 | 51.6 | 50.4 | 49.3 | 50.0 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 51.9 | 53.5 | 60.2 | 62.8 | 68.0 | 71.1 | 73.1 | 74.7 | 75.6 | 76.0 | 75.6 | 74.4 |
| | 27 | 53.0 | 55.2 | 58.8 | 63.4 | 65.5 | 67.4 | 69.8 | 71.3 | 70.5 | 67.6 | 67.4 | 65.9 |
| | 28 | 56.7 | 58.2 | 60.6 | 60.4 | 63.3 | 57.8 | 59.2 | 60.5 | 61.8 | 68.3 | 69.8 | 69.0 |
| | 29 | 36.4 | 35.7 | 36.1 | 36.9 | 37.7 | 39.6 | 42.8 | 41.9 | 43.0 | 42.5 | 42.3 | 43.1 |
| | 30 | 35.9 | 38.9 | 42.0 | 44.8 | 48.2 | 48.7 | 48.3 | 49.8 | 51.1 | 52.8 | 54.7 | 54.4 |
| | 31 | 42.8 | 48.0 | 52.4 | 54.2 | 57.6 | 59.0 | 60.8 | 63.0 | 63.4 | 64.5 | 64.6 | 62.6 |
| Hourly Means | 45.05 | 47.91 | 50.07 | 52.42 | 54.75 | 55.86 | 56.76 | 57.50 | 58.00 | 58.09 | 58.32 | 57.84 | |
| JUNE. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | 53.1 | 54.8 | 56.6 | 62.2 | 66.2 | 64.8 | 63.8 | 68.2 | 68.4 | 71.1 | 70.0 | 71.3 |
| | 3 | 60.8 | 62.5 | 62.5 | 62.8 | 65.0 | 70.9 | 73.9 | 73.4 | 71.8 | 70.9 | 71.4 | 70.0 |
| | 4 | 59.8 | 66.1 | 68.6 | 65.0 | 67.2 | 71.4 | 75.5 | 73.4 | 67.3 | 66.3 | 70.4 | 70.3 |
| | 5 | 53.5 | 54.2 | 55.0 | 56.3 | 59.2 | 59.8 | 61.3 | 63.1 | 65.3 | 66.6 | 64.8 | 63.8 |
| | 6 | 50.8 | 53.3 | 54.4 | 57.2 | 59.0 | 57.5 | 56.3 | 55.4 | 55.3 | 54.4 | 55.0 | 54.6 |
| | 7 | 50.2 | 55.3 | 52.3 | 51.1 | 54.2 | 56.1 | 58.4 | 58.8 | 59.3 | 58.8 | 62.3 | 61.6 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 68.7 | 70.7 | 71.7 | 74.3 | 77.0 | 79.6 | 80.6 | 82.2 | 83.2 | 83.2 | 84.0 | 83.4 |
| | 10 | 60.8 | 67.6 | 71.4 | 68.3 | 71.4 | 74.1 | 76.2 | 78.5 | 76.3 | 72.9 | 71.8 | 69.8 |
| | 11 | 60.5 | 61.3 | 63.8 | 64.9 | 66.5 | 67.8 | 71.1 | 71.6 | 71.9 | 72.1 | 70.6 | 69.0 |
| | 12 | 59.2 | 59.0 | 59.3 | 60.1 | 64.8 | 68.8 | 71.3 | 69.2 | 70.1 | 69.2 | 73.7 | 75.0 |
| | 13 | 60.1 | 61.7 | 64.0 | 66.3 | 69.1 | 68.1 | 71.6 | 69.6 | 71.4 | 71.0 | 69.4 | 72.7 |
| | 14 | 53.3 | 55.1 | 58.1 | 61.4 | 64.0 | 64.4 | 66.0 | 66.0 | 66.4 | 64.4 | 66.2 | 66.3 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 52.4 | 54.6 | 55.8 | 58.8 | 57.8 | 59.4 | 58.8 | 59.3 | 58.0 | 57.2 | 56.0 | 55.3 |
| | 17 | 46.4 | 50.3 | 53.2 | 55.4 | 56.2 | 58.3 | 59.7 | 61.0 | 61.8 | 63.2 | 64.0 | 65.2 |
| | 18 | 50.3 | 54.7 | 58.0 | 60.9 | 61.5 | 64.8 | 66.0 | 65.7 | 65.4 | 67.0 | 66.6 | 64.4 |
| | 19 | 53.3 | 56.8 | 62.4 | 64.3 | 66.5 | 67.5 | 68.3 | 69.3 | 69.9 | 71.2 | 72.0 | 72.0 |
| | 20 | 53.7 | 57.5 | 62.3 | 65.0 | 67.8 | 70.1 | 69.6 | 70.1 | 71.0 | 69.3 | 68.9 | 66.8 |
| | 21 | 61.8 | 63.0 | 65.4 | 66.8 | 68.5 | 69.9 | 70.5 | 71.4 | 72.0 | 72.0 | 71.5 | 70.4 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 57.6 | 61.3 | 64.9 | 68.3 | 71.8 | 72.4 | 71.6 | 79.0 | 80.7 | 81.0 | 81.0 | 81.0 |
| | 24 | 64.5 | 68.6 | 71.7 | 73.4 | 74.4 | 76.2 | 77.0 | 75.8 | 73.6 | 80.3 | 78.4 | 78.9 |
| | 25 | 57.0 | 59.9 | 61.2 | 63.8 | 64.6 | 64.8 | 65.0 | 65.0 | 65.3 | 65.1 | 67.2 | 68.6 |
| | 26 | 51.2 | 55.8 | 60.8 | 65.3 | 65.7 | 65.5 | 67.6 | 70.1 | 69.8 | 70.1 | 71.1 | 71.0 |
| | 27 | 56.6 | 62.2 | 66.2 | 67.9 | 68.2 | 68.3 | 68.5 | 71.3 | 72.5 | 74.0 | 74.6 | 74.8 |
| | 28 | 58.1 | 56.9 | 57.2 | 59.2 | 61.1 | 61.3 | 62.5 | 60.6 | 61.3 | 59.5 | 61.5 | 62.8 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 56.2 | 59.0 | 60.1 | 58.8 | 59.2 | 58.1 | 59.5 | 58.5 | 58.8 | 58.8 | 58.8 | 59.4 |
| Hourly Means | 56.40 | 59.29 | 61.48 | 63.11 | 65.08 | 66.40 | 67.62 | 68.26 | 68.27 | 68.38 | 68.85 | 68.74 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 60.9 | 58.6 | 57.8 | 52.6 | 50.6 | 49.7 | 47.9 | 47.7 | 47.3 | 45.1 | 42.7 | 40.9 | 56.14 |
| 57.6 | 51.8 | 48.3 | 45.6 | 45.9 | 45.9 | 44.3 | 42.9 | 45.1 | 43.3 | 42.3 | 44.1 | 48.49 |
| 58.3 | 58.0 | 57.6 | 56.0 | 55.0 | 55.0 | — | — | — | — | — | — | 51.95 |
| — | — | — | — | — | — | 43.4 | 41.9 | 39.6 | 37.1 | 35.4 | 34.2 | 41.19 |
| 47.6 | 44.9 | 40.9 | 39.6 | 37.1 | 34.9 | 34.9 | 33.7 | 32.2 | 32.6 | 32.3 | 32.5 | 45.31 |
| 50.0 | 45.4 | 41.2 | 39.6 | 40.2 | 41.0 | 40.8 | 39.1 | 40.4 | 42.4 | 42.6 | 42.6 | 40.28 |
| 45.6 | 41.8 | 39.9 | 38.1 | 37.1 | 35.9 | 34.7 | 32.8 | 31.7 | 30.3 | 30.1 | 29.7 | 43.15 |
| 44.8 | 43.6 | 43.9 | 44.6 | 44.3 | 43.2 | 43.0 | 41.8 | 38.3 | 38.3 | 36.5 | 37.9 | 48.40 |
| 54.6 | 52.0 | 46.5 | 43.3 | 43.2 | 42.2 | 40.6 | 40.3 | 40.3 | 41.5 | 42.3 | 43.2 | 54.08 |
| 61.2 | 57.3 | 52.8 | 50.0 | 48.6 | 47.1 | — | — | — | — | — | — | 65.26 |
| — | — | — | — | — | — | 57.0 | 56.0 | 54.6 | 53.3 | 52.6 | 52.1 | 63.08 |
| 69.6 | 66.8 | 63.8 | 60.4 | 60.0 | 58.6 | 58.4 | 56.4 | 54.8 | 53.8 | 54.8 | 54.1 | 59.15 |
| 63.6 | 62.4 | 62.4 | 60.0 | 56.6 | 56.4 | 56.6 | 55.4 | 54.3 | 52.4 | 54.8 | 54.8 | 40.71 |
| 66.0 | 59.8 | 60.6 | 59.1 | 56.3 | 59.3 | 57.8 | 54.1 | 50.5 | 48.2 | 46.1 | 45.0 | 41.50 |
| 47.4 | 44.6 | 41.8 | 40.2 | 39.1 | 37.4 | 35.4 | 34.3 | 34.3 | 33.6 | 32.3 | 30.7 | 54.09 |
| 50.2 | 47.4 | 43.8 | 40.3 | 39.4 | 37.6 | 36.9 | 36.2 | 36.7 | 35.2 | 34.7 | 35.3 | 56.93 |
| 59.8 | 57.3 | 51.6 | 49.3 | 48.0 | 49.0 | — | — | — | — | — | — | 47.49 |
| — | — | — | — | — | — | 54.6 | 53.6 | 55.2 | 54.4 | 53.0 | 50.9 | 50.90 |
| 62.3 | 60.2 | 61.8 | 54.6 | 50.8 | 49.0 | 48.0 | 47.4 | 47.1 | 46.3 | 45.2 | 43.2 | 43.68 |
| 55.0 | 51.2 | 47.4 | 45.5 | 44.2 | 41.0 | 41.8 | 40.8 | 39.7 | 39.7 | 37.9 | 37.9 | 51.23 |
| 61.0 | 56.3 | 54.4 | 49.3 | 46.2 | 45.4 | 44.3 | 43.3 | 41.8 | 40.5 | 39.5 | 40.5 | 47.04 |
| 47.4 | 47.6 | 44.2 | 40.8 | 39.2 | 38.1 | 37.2 | 38.0 | 35.5 | 34.3 | 34.1 | 33.7 | 62.73 |
| 61.8 | 59.0 | 55.8 | 52.8 | 50.6 | 48.6 | 46.6 | 43.2 | 41.4 | 38.9 | 37.5 | 36.6 | 61.11 |
| 48.4 | 48.0 | 44.2 | 41.2 | 39.7 | 38.1 | — | — | — | — | — | — | 53.27 |
| — | — | — | — | — | — | 49.2 | 50.4 | 49.3 | 49.0 | 49.6 | 51.4 | 37.53 |
| 72.7 | 68.2 | 58.4 | 55.3 | 55.1 | 57.1 | 56.2 | 56.4 | 54.4 | 53.4 | 51.3 | 50.2 | 44.16 |
| 66.8 | 64.0 | 57.4 | 55.6 | 53.3 | 51.8 | 50.4 | — | — | — | 53.3 | 55.0 | 53.77 |
| 61.2 | 52.5 | 47.7 | 45.5 | 45.3 | 43.8 | 42.8 | 41.5 | 39.5 | 38.5 | 37.7 | 36.9 | — |
| 43.0 | 40.2 | 38.3 | 36.7 | 36.5 | 35.5 | 34.7 | 33.2 | 32.2 | 31.1 | 30.3 | 31.1 | — |
| 51.6 | 47.5 | 45.4 | 44.4 | 41.9 | 38.9 | 36.6 | 37.9 | 39.5 | 36.5 | 34.7 | 35.4 | — |
| 59.6 | 57.0 | 54.2 | 51.4 | 49.0 | 46.3 | 47.5 | 47.3 | 47.3 | 45.9 | 45.2 | 46.8 | — |
| 56.59 | 53.46 | 50.45 | 47.84 | 46.41 | 45.44 | 45.24 | 44.06 | 43.19 | 42.14 | 41.81 | 41.73 | 50.45 |
| — | — | — | — | — | — | — | — | — | — | — | — | 62.78 |
| 70.9 | 67.0 | 64.8 | 61.7 | 60.8 | 60.3 | 60.8 | 58.5 | 59.2 | 57.8 | 57.3 | 57.0 | 63.42 |
| 69.0 | 68.1 | 61.8 | 59.8 | 61.0 | 57.6 | 57.5 | 57.1 | 55.2 | 52.8 | 52.8 | 53.4 | 64.69 |
| 68.3 | 66.2 | 62.2 | 60.1 | 59.8 | 59.6 | 60.1 | 60.6 | 60.6 | 59.6 | 59.8 | 54.4 | 56.96 |
| 60.0 | 58.6 | 58.1 | 55.3 | 54.4 | 54.0 | 53.4 | 52.2 | 52.3 | 49.4 | 48.8 | 47.6 | 52.20 |
| 55.4 | 54.4 | 52.8 | 51.8 | 50.0 | 48.3 | 46.4 | 45.9 | 45.0 | 46.1 | 46.5 | 47.0 | 59.76 |
| 59.5 | 57.0 | 55.8 | 54.9 | 55.0 | 54.2 | — | — | — | — | — | — | 70.06 |
| — | — | — | — | — | — | 71.9 | 72.3 | 71.4 | 49.7 | 67.9 | 66.2 | 66.93 |
| 74.9 | 71.1 | 67.7 | 64.8 | 63.5 | 63.0 | 60.3 | 57.4 | 56.2 | 55.9 | 53.4 | 54.6 | 63.99 |
| 67.6 | 66.5 | 65.2 | 64.6 | 63.6 | 64.2 | 63.2 | 58.6 | 58.0 | 58.4 | 58.0 | 59.2 | 65.63 |
| 67.3 | 66.0 | 61.6 | 59.0 | 58.6 | 58.4 | 58.8 | 58.6 | 58.6 | 59.0 | 59.7 | 59.1 | 63.58 |
| 73.9 | 71.9 | 67.0 | 64.2 | 64.1 | 63.5 | 65.3 | 64.8 | 63.3 | 60.3 | 58.8 | 58.3 | 57.78 |
| 69.1 | 67.3 | 63.6 | 61.8 | 60.6 | 58.8 | 57.2 | 56.0 | 55.4 | 54.6 | 53.4 | 53.2 | 53.03 |
| 64.7 | 61.1 | 53.6 | 49.4 | 47.5 | 46.4 | — | — | — | — | — | — | 54.55 |
| — | — | — | — | — | — | 54.6 | 54.5 | 52.6 | 51.3 | 49.6 | 49.9 | 58.05 |
| 54.8 | 54.3 | 54.6 | 55.5 | 52.8 | 52.6 | 49.5 | 46.2 | 44.2 | 42.7 | 41.1 | 41.1 | 60.00 |
| 64.4 | 62.8 | 59.3 | 54.6 | 52.9 | 53.0 | 50.5 | 46.6 | 44.2 | 42.6 | 41.3 | 42.2 | 64.40 |
| 61.2 | 58.8 | 56.8 | 58.2 | 56.8 | 54.6 | 55.3 | 54.7 | 49.5 | 48.8 | 46.8 | 46.3 | 62.60 |
| 70.2 | 67.3 | 59.3 | 55.0 | 52.4 | 51.3 | 50.4 | 50.6 | 49.2 | 46.8 | 45.6 | 48.4 | 69.08 |
| 64.8 | 64.0 | 63.8 | 63.3 | 64.4 | 64.7 | 62.5 | 61.4 | 61.0 | 60.9 | 60.8 | 61.8 | 69.36 |
| 66.8 | 65.3 | 60.9 | 58.2 | 55.0 | 54.6 | — | — | — | — | — | — | 58.03 |
| — | — | — | — | — | — | 56.1 | 55.4 | 54.6 | 51.0 | 50.5 | 50.7 | 60.60 |
| 78.2 | 75.0 | 71.3 | 70.7 | 66.8 | 64.3 | 63.1 | 60.6 | 59.3 | 58.4 | 59.4 | 60.1 | 64.15 |
| 76.8 | 72.6 | 69.6 | 67.8 | 66.5 | 65.0 | 63.2 | 61.3 | 60.1 | 58.5 | 56.0 | 54.4 | 58.25 |
| 66.9 | 63.9 | 57.0 | 54.8 | 53.8 | 49.9 | 48.5 | 45.6 | 48.3 | 47.8 | 45.2 | 43.6 | 55.07 |
| 74.5 | 68.7 | 64.3 | 58.8 | 54.0 | 51.6 | 50.3 | 48.1 | 48.5 | 48.9 | 51.4 | 51.4 | — |
| 72.0 | 69.0 | 62.1 | 60.6 | 58.0 | 56.4 | 56.5 | 56.6 | 56.6 | 56.0 | 55.0 | 55.8 | — |
| 62.5 | 61.8 | 59.4 | 56.4 | 55.9 | 56.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.0 | 55.3 | 54.1 | 53.0 | 52.5 | 53.2 | — |
| 57.2 | 54.6 | 53.4 | 52.8 | 53.0 | 51.6 | 48.6 | 48.6 | 48.6 | 49.2 | 49.2 | 49.6 | — |
| 66.84 | 64.53 | 61.04 | 58.96 | 57.65 | 56.56 | 56.80 | 55.50 | 54.64 | 53.58 | 52.83 | 52.74 | 61.40 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 51.2 | 54.5 | 57.4 | 59.6 | 59.4 | 59.6 | 59.1 | 58.4 | 55.6 | 55.3 | 55.6 | 57.6 |
| | 2 | 58.7 | 57.6 | 59.5 | 60.9 | 61.8 | 65.6 | 64.8 | 66.1 | 65.6 | 63.3 | 63.2 | 62.2 |
| | 3 | 50.9 | 54.3 | 56.4 | 59.1 | 60.4 | 62.5 | 63.9 | 62.8 | 65.8 | 65.8 | 66.3 | 65.3 |
| | 4 | 53.1 | 54.0 | 56.8 | 57.0 | 60.7 | 61.7 | 64.3 | 66.1 | 65.8 | 66.8 | 66.8 | 67.3 |
| | 5 | 52.6 | 56.6 | 61.9 | 67.1 | 67.8 | 69.6 | 70.4 | 71.2 | 72.4 | 73.7 | 71.4 | 71.4 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 65.8 | 71.7 | 76.0 | 77.8 | 80.7 | 82.0 | 83.6 | 83.4 | 82.2 | 82.6 | 81.2 | 80.0 |
| | 8 | 59.5 | 65.8 | 71.0 | 76.4 | 74.6 | 76.4 | 79.5 | 81.0 | 81.9 | 83.7 | 83.7 | 83.4 |
| | 9 | 62.2 | 65.5 | 68.4 | 69.7 | 70.1 | 69.9 | 70.3 | 73.2 | 75.2 | 74.5 | 76.3 | 75.7 |
| | 10 | 53.8 | 61.3 | 69.0 | 73.5 | 75.0 | 76.9 | 79.9 | 76.8 | 79.0 | 79.5 | 78.2 | 76.8 |
| | 11 | 59.3 | 68.3 | 72.7 | 78.0 | 80.3 | 83.5 | 86.3 | 86.8 | 88.0 | 89.3 | 88.0 | 83.6 |
| | 12 | 66.2 | 74.2 | 77.0 | 80.3 | 84.2 | 90.2 | 92.0 | 92.8 | 94.6 | 95.0 | 94.5 | 94.2 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 73.0 | 76.8 | 77.3 | 83.6 | 82.2 | 84.9 | 86.6 | 86.5 | 88.1 | 88.4 | 89.0 | 87.3 |
| | 15 | 69.8 | 74.4 | 76.2 | 79.7 | 82.1 | 84.3 | 84.0 | 85.7 | 87.0 | 88.0 | 88.1 | 87.0 |
| | 16 | 64.1 | 74.6 | 77.6 | 79.4 | 81.9 | 84.5 | 87.5 | 88.2 | 84.7 | 86.4 | 85.0 | 84.3 |
| | 17 | 71.8 | 73.7 | 75.9 | 79.0 | 80.4 | 81.7 | 83.2 | 85.2 | 86.5 | 86.8 | 86.5 | 83.2 |
| | 18 | 62.2 | 65.3 | 67.6 | 70.4 | 72.4 | 74.3 | 76.0 | 77.6 | 74.2 | 78.6 | 78.6 | 79.6 |
| | 19 | 61.2 | 62.3 | 64.4 | 63.8 | 64.8 | 71.4 | 71.7 | 71.0 | 72.5 | 75.4 | 73.0 | 72.0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 70.1 | 74.2 | 74.8 | 78.2 | 79.8 | 83.5 | 82.4 | 84.3 | 86.0 | 86.4 | 87.5 | 84.8 |
| | 22 | 63.3 | 66.1 | 70.2 | 74.3 | 76.8 | 78.3 | 76.5 | 77.2 | 78.3 | 78.0 | 73.0 | 73.3 |
| | 23 | 59.0 | 60.3 | 62.2 | 62.2 | 64.3 | 66.8 | 67.0 | 67.3 | 68.0 | 68.0 | 66.6 | 67.6 |
| | 24 | 57.8 | 57.3 | 57.6 | 58.2 | 59.8 | 60.1 | 62.8 | 66.3 | 68.3 | 70.1 | 70.7 | 69.3 |
| | 25 | 56.6 | 63.5 | 68.5 | 70.7 | 73.8 | 73.6 | 75.3 | 75.2 | 76.2 | 75.8 | 76.5 | 74.0 |
| | 26 | 56.4 | 62.3 | 69.0 | 69.3 | 72.5 | 72.5 | 75.2 | 76.8 | 78.0 | 79.0 | 78.2 | 76.7 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 62.5 | 62.6 | 65.3 | 69.2 | 69.6 | 70.8 | 69.3 | 70.3 | 72.7 | 73.5 | 73.8 | 73.0 |
| | 29 | 58.0 | 59.6 | 59.3 | 60.2 | 61.8 | 62.8 | 63.8 | 65.4 | 68.0 | 70.5 | 67.5 | 65.3 |
| | 30 | 57.3 | 57.6 | 57.6 | 58.0 | 58.4 | 58.2 | 59.9 | 61.8 | 59.4 | 59.4 | 61.3 | 58.3 |
| | 31 | 51.4 | 55.2 | 60.1 | 63.2 | 65.2 | 64.6 | 66.2 | 66.4 | 67.9 | 68.3 | 68.5 | 68.3 |
| Hourly Means | 60.29 | 64.06 | 67.03 | 69.59 | 71.14 | 72.97 | 74.13 | 74.96 | 75.63 | 76.37 | 75.89 | 74.87 | |
| AUGUST. | 1 | 56.2 | 59.8 | 63.7 | 66.5 | 67.0 | 70.7 | 69.5 | 73.0 | 72.7 | 67.6 | 67.6 | 67.5 |
| | 2 | 49.3 | 58.3 | 64.0 | 66.3 | 68.5 | 69.5 | 69.9 | 66.4 | 71.5 | 71.8 | 72.5 | 69.8 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 56.0 | 64.8 | 68.8 | 71.0 | 74.1 | 78.0 | 76.0 | 78.0 | 80.8 | 79.2 | 78.2 | 75.4 |
| | 5 | 59.1 | 66.2 | 71.0 | 72.6 | 74.4 | 77.3 | 79.6 | 81.0 | 80.4 | 80.2 | 78.2 | 76.7 |
| | 6 | 61.2 | 67.5 | 71.0 | 76.5 | 77.0 | 77.5 | 79.4 | 80.5 | 79.8 | 78.0 | 76.5 | 78.3 |
| | 7 | 58.4 | 68.6 | 72.4 | 76.4 | 77.4 | 78.5 | 79.8 | 81.9 | 83.7 | 83.5 | 84.8 | 79.5 |
| | 8 | 67.0 | 66.2 | 66.9 | 67.5 | 69.3 | 71.4 | 76.6 | 76.8 | 78.5 | 76.2 | 76.3 | 74.6 |
| | 9 | 65.0 | 70.6 | 74.8 | 78.2 | 78.6 | 79.6 | 79.6 | 81.0 | 81.8 | 82.4 | 82.8 | 81.6 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 66.3 | 67.3 | 68.6 | 69.0 | 72.1 | 76.1 | 77.2 | 71.2 | 72.0 | 72.7 | 74.4 | 77.3 |
| | 12 | 61.8 | 65.8 | 69.6 | 71.8 | 74.4 | 76.2 | 73.8 | 72.6 | 75.7 | 78.2 | 77.9 | 79.4 |
| | 13 | 57.8 | 61.5 | 63.3 | 64.1 | 65.0 | 65.6 | 65.0 | 66.2 | 68.6 | 67.0 | 70.4 | 68.8 |
| | 14 | 58.4 | 62.0 | 65.5 | 68.2 | 71.2 | 71.9 | 72.8 | 73.0 | 73.4 | 75.0 | 75.0 | 72.7 |
| | 15 | 57.3 | 64.0 | 69.2 | 72.0 | 72.5 | 74.0 | 73.5 | 73.8 | 74.2 | 74.3 | 74.7 | 74.2 |
| | 16 | 60.7 | 67.8 | 72.2 | 74.7 | 77.2 | 76.7 | 76.6 | 78.6 | 78.8 | 78.0 | 78.2 | 77.6 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 68.5 | 69.6 | 70.5 | 72.8 | 75.0 | 77.6 | 75.6 | 78.2 | 77.0 | 80.4 | 82.2 | 80.7 |
| | 19 | 66.9 | 66.7 | 66.7 | 68.1 | 68.6 | 71.0 | 72.4 | 72.7 | 73.8 | 73.0 | 74.5 | 73.8 |
| | 20 | 62.6 | 66.6 | 69.6 | 74.5 | 76.2 | 77.4 | 78.5 | 79.5 | 79.0 | 79.4 | 77.0 | 75.5 |
| | 21 | 63.8 | 71.0 | 73.8 | 76.7 | 78.0 | 79.5 | 79.5 | 79.0 | 81.2 | 81.5 | 79.0 | 78.0 |
| | 22 | 63.2 | 67.0 | 70.6 | 73.0 | 73.4 | 76.0 | 78.4 | 77.6 | 78.8 | 79.8 | 80.2 | 77.0 |
| | 23 | 61.9 | 65.0 | 73.2 | 77.2 | 78.4 | 80.6 | 79.4 | 80.8 | 80.6 | 80.8 | 78.7 | 78.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 55.8 | 61.8 | 68.8 | 71.4 | 74.0 | 77.2 | 76.2 | 76.2 | 77.8 | 78.8 | 77.5 | 78.0 |
| | 26 | 63.2 | 66.6 | 70.2 | 72.8 | 75.0 | 74.8 | 74.2 | 75.0 | 75.0 | 75.0 | 74.5 | 74.7 |
| | 27 | 61.7 | 61.9 | 61.4 | 61.3 | 61.5 | 63.3 | 64.3 | 66.2 | 66.4 | 66.0 | 65.6 | 65.4 |
| | 28 | 55.3 | 58.0 | 61.8 | 63.2 | 64.7 | 65.0 | 67.0 | 66.6 | 67.4 | 67.2 | 67.4 | 68.1 |
| | 29 | 58.5 | 65.0 | 67.4 | 70.7 | 71.8 | 74.6 | 74.6 | 73.0 | 75.5 | 78.4 | 77.4 | 75.5 |
| | 30 | 66.8 | 67.4 | 67.0 | 69.2 | 72.0 | 73.0 | 74.5 | 75.6 | 76.7 | 77.7 | 74.8 | 73.5 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 60.87 | 65.27 | 68.54 | 70.99 | 72.59 | 74.35 | 74.77 | 75.17 | 76.22 | 76.23 | 76.01 | 75.09 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 57.4 | 57.8 | 57.8 | 57.2 | 57.0 | 57.1 | 57.3 | 55.8 | 56.1 | 56.0 | 55.6 | 55.5 | 56.83 |
| 59.9 | 59.3 | 57.8 | 58.0 | 58.6 | 58.1 | 56.0 | 50.8 | 47.9 | 46.1 | 45.9 | 49.4 | 58.21 |
| 64.1 | 60.4 | 57.0 | 55.8 | 55.1 | 54.2 | 53.8 | 52.4 | 51.2 | 50.1 | 50.0 | 49.3 | 57.79 |
| 66.1 | 63.4 | 57.2 | 55.4 | 53.2 | 53.4 | 52.3 | 52.0 | 49.1 | 46.5 | 45.6 | 46.3 | 57.54 |
| 68.1 | 66.2 | 63.2 | 60.5 | 60.2 | 60.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 63.4 | 61.4 | 61.0 | 60.6 | 59.9 | 61.8 | 64.72 |
| 79.8 | 75.2 | 71.7 | 68.6 | 67.2 | 62.8 | 62.2 | 59.4 | 56.3 | 55.6 | 56.2 | 56.8 | 71.62 |
| 80.4 | 76.4 | 72.0 | 70.7 | 68.8 | 67.3 | 63.7 | 62.0 | 58.4 | 58.0 | 54.4 | 56.0 | 71.04 |
| 73.1 | 67.3 | 59.4 | 56.3 | 54.6 | 54.0 | 55.0 | 50.7 | 49.5 | 48.7 | 48.0 | 48.3 | 63.16 |
| 75.2 | 68.9 | 62.9 | 58.5 | 57.4 | 57.4 | 57.2 | 54.8 | 54.6 | 53.8 | 52.5 | 51.3 | 66.01 |
| 80.7 | 76.6 | 71.6 | 68.1 | 66.1 | 65.8 | 65.2 | 64.0 | 63.0 | 61.8 | 62.3 | 60.1 | 73.72 |
| 92.7 | 88.7 | 80.6 | 77.5 | 79.0 | 79.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 74.4 | 74.0 | 76.1 | 74.6 | 72.0 | 71.9 | 82.32 |
| 84.4 | 80.0 | 75.5 | 73.0 | 70.0 | 67.7 | 65.6 | 64.2 | 63.5 | 63.7 | 62.3 | 62.4 | 76.50 |
| 84.0 | 78.0 | 70.2 | 67.4 | 68.7 | 66.6 | 64.5 | 63.6 | 65.4 | 63.4 | 60.7 | 62.5 | 75.05 |
| 85.3 | 81.2 | 77.5 | 74.2 | 72.0 | 70.5 | 71.2 | 71.3 | 71.2 | 70.1 | 69.9 | 69.1 | 77.57 |
| 83.6 | 79.8 | 73.4 | 67.4 | 71.2 | 68.3 | 66.7 | 64.6 | 60.9 | 57.2 | 55.7 | 56.8 | 74.15 |
| 78.0 | 74.0 | 64.9 | 60.6 | 57.2 | 56.1 | 55.0 | 54.0 | 54.7 | 54.6 | 56.3 | 57.2 | 66.64 |
| 69.6 | 67.2 | 65.2 | 62.9 | 61.8 | 63.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 73.2 | 71.2 | 69.5 | 69.2 | 67.2 | 64.9 | 67.85 |
| 69.9 | 75.0 | 69.0 | 68.0 | 71.5 | 68.2 | 67.8 | 63.6 | 62.6 | 58.7 | 58.8 | 60.1 | 73.55 |
| 72.0 | 70.6 | 68.6 | 64.8 | 62.7 | 60.4 | 59.6 | 59.9 | 58.8 | 58.1 | 57.5 | 57.0 | 68.14 |
| 67.0 | 65.2 | 63.2 | 62.8 | 61.1 | 59.4 | 56.3 | 58.3 | 57.0 | 58.3 | 57.8 | 57.4 | 62.63 |
| 71.0 | 64.7 | 58.4 | 58.9 | 59.6 | 57.0 | 55.0 | 52.6 | 54.2 | 54.0 | 53.5 | 54.2 | 60.48 |
| 72.0 | 68.2 | 63.7 | 61.5 | 58.2 | 55.6 | 56.0 | 54.5 | 55.1 | 55.0 | 55.1 | 51.4 | 65.25 |
| 74.2 | 67.9 | 66.8 | 67.1 | 67.0 | 66.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 61.2 | 60.1 | 60.3 | 60.9 | 60.2 | 61.0 | 68.31 |
| 69.9 | 67.0 | 63.3 | 61.9 | 55.0 | 52.4 | 51.3 | 53.0 | 54.2 | 54.8 | 54.8 | 56.0 | 63.59 |
| 66.1 | 64.2 | 64.1 | 63.3 | 61.6 | 61.2 | 59.9 | 57.2 | 56.1 | 59.0 | 59.8 | 58.8 | 62.23 |
| 58.0 | 57.8 | 56.2 | 55.1 | 54.3 | 53.3 | 52.5 | 52.0 | 50.9 | 50.4 | 48.3 | 47.2 | 55.97 |
| 65.4 | 62.2 | 58.2 | 57.5 | 56.5 | 55.1 | 53.3 | 50.7 | 48.8 | 50.7 | 51.5 | 52.4 | 59.48 |
| 72.89 | 69.75 | 65.53 | 63.44 | 62.43 | 61.17 | 60.35 | 58.82 | 58.01 | 57.40 | 56.73 | 56.86 | 66.68 |
| 64.3 | 62.3 | 59.5 | 54.8 | 53.0 | 51.6 | 53.5 | 47.6 | 46.5 | 44.7 | 44.9 | 44.8 | 59.55 |
| 69.4 | 63.0 | 58.5 | 59.2 | 56.0 | 57.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 58.8 | 57.8 | 56.0 | 55.0 | 54.4 | 52.0 | 62.29 |
| 76.4 | 72.4 | 69.2 | 63.8 | 60.7 | 58.6 | 57.0 | 55.6 | 55.0 | 54.2 | 54.6 | 52.6 | 67.10 |
| 77.3 | 72.8 | 67.8 | 64.3 | 62.2 | 62.4 | 60.5 | 57.8 | 57.3 | 57.3 | 56.3 | 56.6 | 68.72 |
| 76.7 | 72.7 | 66.2 | 63.8 | 61.2 | 60.6 | 59.8 | 58.8 | 58.1 | 57.2 | 56.6 | 56.3 | 68.80 |
| 75.7 | 73.7 | 68.8 | 66.5 | 65.8 | 65.6 | 66.1 | 66.4 | 66.1 | 64.4 | 64.3 | 69.6 | 72.41 |
| 74.8 | 72.0 | 69.2 | 66.9 | 65.5 | 65.3 | 65.3 | 65.8 | 65.3 | 64.9 | 64.9 | 63.4 | 69.61 |
| 78.6 | 72.6 | 69.2 | 67.4 | 65.9 | 65.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 67.1 | 67.3 | 66.1 | 66.3 | 66.2 | 66.3 | 73.11 |
| 76.5 | 71.6 | 69.3 | 68.3 | 67.2 | 66.7 | 64.9 | 63.3 | 63.1 | 62.8 | 61.3 | 60.1 | 69.14 |
| 75.6 | 72.2 | 67.2 | 60.5 | 57.3 | 57.3 | 56.8 | 55.2 | 54.6 | 54.1 | 54.0 | 53.5 | 66.48 |
| 68.6 | 65.8 | 64.8 | 62.4 | 62.0 | 63.7 | 62.4 | 60.4 | 58.6 | 55.2 | 58.8 | 58.2 | 63.51 |
| 71.7 | 65.9 | 60.9 | 58.4 | 56.0 | 56.1 | 55.8 | 56.8 | 57.8 | 56.5 | 57.2 | 57.3 | 64.56 |
| 71.0 | 68.2 | 65.1 | 62.6 | 61.4 | 61.4 | 60.3 | 59.9 | 60.3 | 60.2 | 60.1 | 58.8 | 66.79 |
| 76.5 | 67.5 | 64.6 | 64.0 | 62.2 | 60.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 67.3 | 67.5 | 67.6 | 68.0 | 68.0 | 67.8 | 70.77 |
| 76.2 | 75.0 | 72.7 | 71.1 | 69.9 | 68.2 | 69.0 | 68.3 | 68.1 | 65.9 | 65.5 | 65.9 | 72.66 |
| 70.0 | 66.6 | 64.6 | 65.3 | 62.6 | 62.6 | 63.0 | 63.4 | 63.0 | 62.7 | 62.9 | 62.8 | 67.40 |
| 74.0 | 71.7 | 69.2 | 68.2 | 67.0 | 65.6 | 65.0 | 64.1 | 64.2 | 63.2 | 62.1 | 61.9 | 70.50 |
| 76.8 | 73.0 | 72.4 | 72.5 | 71.3 | 70.4 | 68.2 | 66.2 | 65.3 | 64.9 | 64.4 | 63.0 | 72.89 |
| 75.0 | 69.2 | 65.5 | 62.7 | 61.3 | 59.6 | 59.4 | 61.4 | 61.4 | 60.4 | 60.3 | 61.3 | 68.85 |
| 76.5 | 72.2 | 69.5 | 74.3 | 72.0 | 70.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.4 | 60.6 | 60.5 | 58.3 | 53.4 | 53.5 | 70.58 |
| 75.5 | 73.0 | 71.7 | 70.5 | 69.9 | 65.0 | 62.2 | 60.2 | 60.9 | 60.9 | 60.4 | 59.3 | 69.29 |
| 71.6 | 68.6 | 64.0 | 63.8 | 63.4 | 62.0 | 61.8 | 61.6 | 61.4 | 61.3 | 61.8 | 61.9 | 68.09 |
| 65.2 | 65.2 | 63.4 | 62.3 | 60.1 | 57.5 | 56.7 | 55.8 | 54.2 | 55.0 | 55.2 | 55.2 | 61.28 |
| 66.0 | 63.2 | 63.0 | 62.9 | 62.9 | 63.4 | 63.3 | 62.5 | 62.2 | 61.1 | 56.4 | 56.1 | 63.11 |
| 74.4 | 73.2 | 73.0 | 70.4 | 68.6 | 69.0 | 68.8 | 68.6 | 66.6 | 66.0 | 66.0 | 66.3 | 70.55 |
| 69.9 | 66.1 | 64.2 | 62.4 | 60.5 | 59.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.5 | 52.4 | 52.2 | 51.4 | 51.6 | 52.3 | 65.19 |
| 73.24 | 69.60 | 66.67 | 64.97 | 63.30 | 62.53 | 61.69 | 60.97 | 60.48 | 59.69 | 59.29 | 59.11 | 67.82 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|----------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | 54.4 | 56.8 | 62.8 | 64.5 | 67.6 | 69.4 | 69.7 | 67.8 | 68.5 | 66.8 | 65.9 | 64.7 |
| | 2 | 62.4 | 65.5 | 68.0 | 68.8 | 69.3 | 70.3 | 72.0 | 72.8 | 73.8 | 72.8 | 72.7 | 70.3 |
| | 3 | 57.1 | 61.6 | 65.1 | 69.1 | 72.0 | 74.2 | 76.6 | 76.4 | 77.6 | 78.6 | 79.2 | 79.0 |
| | 4 | 61.1 | 62.2 | 65.2 | 67.3 | 70.1 | 72.6 | 75.1 | 77.6 | 78.4 | 77.3 | 76.0 | 72.9 |
| | 5 | 55.2 | 58.6 | 61.3 | 62.6 | 65.6 | 68.5 | 70.2 | 69.7 | 61.2 | 63.7 | 64.8 | 61.3 |
| | 6 | 46.1 | 53.5 | 54.5 | 57.4 | 60.3 | 65.6 | 63.7 | 65.2 | 66.8 | 64.3 | 64.7 | 65.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 42.3 | 47.5 | 51.2 | 54.3 | 55.8 | 57.3 | 58.0 | 58.0 | 58.8 | 58.8 | 59.2 | 58.2 |
| | 9 | 49.3 | 51.3 | 52.8 | 58.1 | 61.4 | 64.0 | 65.5 | 66.6 | 66.2 | 66.3 | 65.7 | 63.8 |
| | 10 | 50.2 | 54.1 | 56.5 | 59.3 | 62.2 | 59.2 | 55.3 | 59.6 | 61.5 | 63.4 | 62.2 | 61.4 |
| | 11 | 41.6 | 49.8 | 52.9 | 56.4 | 58.8 | 60.9 | 60.3 | 61.8 | 59.0 | 62.7 | 60.1 | 60.2 |
| | 12 | 41.6 | 48.2 | 51.1 | 56.2 | 56.2 | 56.3 | 57.0 | 57.3 | 57.3 | 58.1 | 57.8 | 56.2 |
| | 13 | 53.6 | 54.2 | 55.2 | 57.0 | 57.6 | 58.0 | 56.5 | 56.4 | 56.4 | 57.4 | 59.1 | 61.1 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 52.6 | 56.0 | 58.6 | 61.9 | 66.4 | 68.3 | 69.6 | 69.6 | 69.2 | 69.0 | 67.2 | 64.7 |
| | 16 | 38.8 | 44.6 | 49.6 | 53.0 | 55.8 | 56.8 | 57.0 | 56.3 | 57.2 | 57.8 | 58.8 | 57.3 |
| | 17 | 39.7 | 43.8 | 48.2 | 53.6 | 57.8 | 58.9 | 61.0 | 62.5 | 63.8 | 63.3 | 65.2 | 63.3 |
| | 18 | 61.3 | 62.6 | 62.6 | 66.2 | 69.9 | 71.3 | 71.6 | 72.0 | 74.7 | 73.8 | 69.9 | 67.1 |
| | 19 | 46.2 | 50.1 | 52.2 | 57.2 | 58.3 | 59.3 | 59.5 | 60.1 | 61.1 | 61.6 | 62.4 | 58.4 |
| | 20 | 53.3 | 53.8 | 54.8 | 57.0 | 56.2 | 55.0 | 55.2 | 57.0 | 57.8 | 56.0 | 55.6 | 55.3 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 35.0 | 40.0 | 44.0 | 48.3 | 50.9 | 53.2 | 51.8 | 50.7 | 54.8 | 52.8 | 54.0 | 51.3 |
| | 23 | 49.3 | 49.6 | 50.5 | 50.1 | 50.1 | 49.7 | 50.1 | 50.4 | 51.3 | 52.2 | 52.5 | 52.4 |
| | 24 | 48.1 | 49.2 | 50.2 | 50.1 | 51.3 | 51.8 | 52.3 | 52.8 | 51.8 | 51.8 | 51.5 | 51.2 |
| | 25 | 42.3 | 45.0 | 47.8 | 51.4 | 55.2 | 56.4 | 58.6 | 56.9 | 56.9 | 57.5 | 56.3 | 53.2 |
| | 26 | 47.6 | 50.9 | 52.3 | 53.1 | 53.4 | 51.0 | 52.0 | 53.0 | 57.0 | 59.0 | 58.2 | 57.8 |
| | 27 | 38.4 | 42.5 | 48.6 | 52.2 | 54.6 | 55.0 | 56.6 | 57.0 | 56.8 | 55.0 | 54.1 | 52.0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 56.4 | 59.6 | 64.3 | 65.5 | 66.6 | 69.0 | 69.6 | 69.2 | 68.2 | 66.6 | 67.0 | 65.2 |
| | 30 | 59.0 | 58.8 | 58.8 | 59.2 | 59.8 | 60.9 | 62.3 | 65.3 | 63.5 | 63.8 | 60.9 | 60.4 |
| | Hourly Means | 49.34 | 52.68 | 55.35 | 58.07 | 60.12 | 61.27 | 61.81 | 62.38 | 62.68 | 62.71 | 62.35 | 60.91 |
| OCTOBER. | 1 | 52.1 | 52.2 | 51.9 | 57.7 | 57.7 | 59.1 | 59.0 | 58.7 | 58.9 | 56.9 | 55.0 | 53.9 |
| | 2 | 47.4 | 49.0 | 51.5 | 53.5 | 56.1 | 57.2 | 57.5 | 58.7 | 57.5 | 58.9 | 58.1 | 57.2 |
| | 3 | 56.3 | 54.4 | 53.5 | 53.5 | 54.1 | 54.7 | 55.1 | 55.8 | 56.3 | 56.3 | 55.2 | 54.1 |
| | 4 | 50.4 | 49.6 | 49.9 | 51.4 | 53.2 | 53.6 | 56.7 | 56.6 | 57.2 | 58.1 | 57.0 | 56.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 33.2 | 37.8 | 42.0 | 46.0 | 48.5 | 50.1 | 50.2 | 50.4 | 50.4 | 50.0 | 49.5 | 47.3 |
| | 7 | 38.4 | 39.9 | 46.6 | 51.7 | 54.1 | 54.5 | 55.1 | 54.3 | 54.1 | 54.1 | 53.5 | 52.9 |
| | 8 | 47.6 | 49.1 | 51.7 | 53.5 | 56.5 | 58.1 | 58.3 | 57.3 | 56.1 | 54.9 | 54.5 | 54.6 |
| | 9 | 57.7 | 57.9 | 60.2 | 59.7 | 62.7 | 61.1 | 62.2 | 62.5 | 62.9 | 63.1 | 62.7 | 60.8 |
| | 10 | 51.9 | 53.3 | 56.5 | 57.1 | 57.5 | 59.5 | 59.7 | 59.3 | 59.1 | 58.9 | 58.6 | 58.3 |
| | 11 | 56.2 | 56.2 | 55.4 | 55.1 | 54.9 | 54.2 | 54.8 | 56.0 | 55.7 | 55.5 | 55.1 | 54.6 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 38.1 | 38.4 | 42.7 | 45.5 | 48.2 | 51.2 | 52.0 | 52.9 | 53.8 | 53.4 | 53.3 | 51.9 |
| | 14 | 50.8 | 47.2 | 46.0 | 45.6 | 46.3 | 47.8 | 49.4 | 48.6 | 48.4 | 46.8 | 46.4 | 43.0 |
| | 15 | 27.7 | 28.6 | 34.6 | 38.1 | 38.9 | 41.1 | 40.6 | 43.3 | 42.8 | 40.9 | 40.3 | 38.8 |
| | 16 | 33.5 | 33.5 | 37.3 | 41.7 | 43.4 | 44.8 | 45.0 | 46.0 | 45.3 | 45.8 | 45.4 | 43.3 |
| | 17 | 34.6 | 36.4 | 39.7 | 42.7 | 48.0 | 49.8 | 51.2 | 50.9 | 51.7 | 52.1 | 50.9 | 48.3 |
| | 18 | 35.4 | 36.3 | 42.2 | 49.8 | 50.8 | 52.6 | 55.1 | 56.5 | 57.5 | 57.9 | 55.0 | 52.3 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 38.9 | 38.9 | 38.7 | 39.1 | 39.9 | 42.2 | 40.8 | 41.2 | 40.8 | 38.9 | 37.3 | 36.3 |
| | 21 | 24.6 | 26.9 | 29.5 | 31.8 | 33.4 | 33.1 | 34.9 | 35.1 | 34.3 | 33.2 | 32.7 | 31.0 |
| | 22 | 21.7 | 22.5 | 28.7 | 35.3 | 37.2 | 37.9 | 38.5 | 39.3 | 39.3 | 40.5 | 41.3 | 38.2 |
| | 23 | 23.8 | 24.6 | 31.3 | 37.6 | 43.0 | 43.5 | 44.8 | 47.4 | 48.7 | 49.2 | 48.9 | 44.5 |
| | 24 | 42.4 | 42.5 | 44.8 | 47.9 | 50.9 | 53.9 | 52.7 | 52.5 | 51.9 | 51.9 | 50.2 | 45.3 |
| | 25 | 41.0 | 42.5 | 44.0 | 47.2 | 48.6 | 50.2 | 50.8 | 50.5 | 49.5 | 48.4 | 47.5 | 46.7 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 37.7 | 37.6 | 43.5 | 50.6 | 52.9 | 55.7 | 57.5 | 58.7 | 60.0 | 60.2 | 58.5 | 55.3 |
| | 28 | 44.1 | 45.5 | 48.3 | 52.7 | 55.2 | 57.3 | 58.4 | 59.0 | 59.8 | 59.8 | 58.3 | 55.9 |
| | 29 | 36.7 | 37.3 | 40.8 | 49.3 | 52.7 | 55.0 | 57.1 | 59.8 | 59.8 | 60.3 | 61.8 | 58.7 |
| | 30 | 55.8 | 57.2 | 58.2 | 59.1 | 58.3 | 59.0 | 60.8 | 54.9 | 53.1 | 52.4 | 52.3 | 50.0 |
| | 31 | 49.4 | 50.0 | 50.8 | 50.8 | 52.7 | 53.7 | 54.1 | 54.1 | 56.5 | 55.1 | 55.4 | 54.6 |
| Hourly Means | 41.75 | 42.42 | 45.19 | 48.29 | 50.21 | 51.51 | 52.31 | 52.60 | 52.64 | 52.35 | 51.65 | 49.77 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 64.1 | 63.1 | 63.4 | 63.3 | 63.3 | 62.7 | 62.7 | 63.7 | — | — | — | — | 64.25 |
| 67.0 | 65.2 | 63.6 | 62.4 | 60.1 | 60.1 | 60.1 | 59.6 | 58.5 | 58.2 | 57.4 | 55.0 | 65.25 |
| 76.7 | 70.3 | 64.8 | 62.3 | 64.4 | 64.7 | 63.0 | 58.8 | 55.8 | 57.8 | 56.8 | 60.2 | 67.59 |
| 69.9 | 66.2 | 64.0 | 61.2 | 59.0 | 57.3 | 55.2 | 55.2 | 55.0 | 55.2 | 54.8 | 54.4 | 65.13 |
| 60.8 | 59.0 | 57.4 | 53.8 | 51.8 | 53.2 | 53.4 | 53.0 | 51.0 | 51.2 | 50.3 | 49.6 | 58.63 |
| 64.4 | 63.3 | 63.6 | 63.4 | 63.1 | 63.0 | — | — | — | — | — | — | 57.19 |
| — | — | — | — | — | — | 48.3 | 46.5 | 45.5 | 42.9 | 39.9 | 41.5 | — |
| 55.8 | 48.4 | 46.2 | 46.8 | 47.0 | 46.8 | 49.8 | 54.6 | 53.0 | 51.2 | 48.3 | 48.0 | 52.30 |
| 62.5 | 60.6 | 58.3 | 55.2 | 54.3 | 54.0 | 52.2 | 50.7 | 49.9 | 48.6 | 49.2 | 49.2 | 57.32 |
| 59.4 | 57.0 | 54.6 | 49.9 | 48.9 | 49.2 | 48.3 | 45.3 | 45.1 | 46.6 | 41.4 | 41.2 | 53.83 |
| 57.0 | 52.3 | 51.2 | 50.5 | 45.8 | 45.4 | 45.4 | 43.4 | 43.8 | 42.6 | 41.6 | 41.4 | 51.87 |
| 53.8 | 49.9 | 48.5 | 47.2 | 46.8 | 44.8 | 49.2 | 47.3 | 52.6 | 53.6 | 53.5 | 53.4 | 52.25 |
| 61.6 | 62.4 | 62.1 | 62.0 | 52.2 | 51.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.1 | 49.8 | 52.2 | 51.8 | 51.4 | 51.5 | 55.89 |
| 60.9 | 57.5 | 55.3 | 52.3 | 50.5 | 50.1 | 49.7 | 49.0 | 47.9 | 47.3 | 46.7 | 40.3 | 57.53 |
| 54.2 | 49.4 | 47.6 | 45.8 | 44.8 | 43.3 | 42.2 | 41.4 | 41.4 | 42.4 | 39.7 | 38.4 | 48.90 |
| 62.4 | 62.0 | 61.2 | 62.8 | 61.0 | 61.9 | 60.7 | 62.0 | 60.4 | 61.4 | 59.6 | 59.3 | 58.99 |
| 63.5 | 59.4 | 57.8 | 55.0 | 52.8 | 52.2 | 51.4 | 50.9 | 50.1 | 48.2 | 46.8 | 46.2 | 60.72 |
| 57.5 | 52.8 | 52.8 | 53.2 | 52.8 | 52.8 | 52.8 | 52.4 | 53.2 | 53.1 | 53.3 | 53.0 | 55.25 |
| 55.5 | 52.8 | 52.3 | 50.4 | 49.9 | 49.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 39.4 | 38.6 | 38.3 | 38.2 | 37.6 | 35.4 | 50.20 |
| 50.3 | 49.3 | 50.6 | 51.2 | 51.5 | 50.1 | 49.2 | 48.5 | 48.0 | 48.3 | 48.1 | 49.9 | 49.24 |
| 50.9 | 48.8 | 49.1 | 49.3 | 49.5 | 49.4 | 47.1 | 48.7 | 48.5 | 48.5 | 47.6 | 46.5 | 49.67 |
| 50.1 | 47.6 | 47.0 | 46.2 | 45.0 | 45.8 | 45.8 | 44.8 | 44.3 | 44.0 | 43.0 | 40.2 | 48.16 |
| 50.7 | 47.8 | 48.0 | 47.9 | 47.2 | 47.0 | 48.4 | 45.8 | 46.6 | 46.5 | 47.7 | 46.8 | 50.33 |
| 54.8 | 52.6 | 49.0 | 49.3 | 48.5 | 47.8 | 47.3 | 44.8 | 42.0 | 40.6 | 40.4 | 39.2 | 50.07 |
| 51.2 | 50.7 | 48.3 | 47.8 | 49.2 | 48.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.0 | 56.0 | 58.5 | 58.1 | 57.8 | 57.4 | 52.62 |
| 64.5 | 64.2 | 64.7 | 64.4 | 63.8 | 63.6 | 61.8 | 62.7 | 60.5 | 59.8 | 59.2 | 59.0 | 63.98 |
| 58.6 | 58.6 | 56.6 | 56.3 | 55.8 | 54.8 | 55.8 | 53.9 | 52.3 | 53.4 | 52.7 | 52.7 | 58.09 |
| 59.16 | 56.58 | 55.31 | 54.22 | 53.04 | 52.67 | 51.78 | 51.05 | 50.18 | 49.98 | 48.99 | 48.39 | 55.92 |
| 52.3 | 49.4 | 47.2 | 46.2 | 44.6 | 43.5 | 42.8 | 42.0 | 42.8 | 42.5 | 45.5 | 46.7 | 50.78 |
| 56.7 | 56.2 | 55.3 | 54.8 | 54.6 | 54.6 | 52.7 | 54.7 | 55.7 | 56.4 | 56.1 | 55.9 | 55.26 |
| 52.9 | 52.1 | 51.7 | 51.9 | 51.7 | 51.5 | 51.4 | 51.2 | 51.3 | 51.2 | 51.2 | 50.4 | 53.24 |
| 54.9 | 54.2 | 52.3 | 51.3 | 51.1 | 51.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.5 | 33.3 | 32.3 | 32.2 | 32.7 | 32.0 | 48.41 |
| 41.2 | 38.7 | 37.5 | 37.5 | 36.9 | 37.3 | 35.7 | 35.7 | 35.6 | 36.9 | 36.2 | 36.8 | 41.73 |
| 51.7 | 51.1 | 51.5 | 50.4 | 50.0 | 50.1 | 50.4 | 48.4 | 48.2 | 47.7 | 47.6 | 48.6 | 50.20 |
| 55.0 | 55.5 | 55.3 | 55.4 | 55.5 | 55.7 | 55.8 | 56.7 | 57.2 | 58.5 | 58.7 | 57.9 | 55.39 |
| 54.5 | 51.7 | 49.8 | 50.6 | 52.7 | 52.3 | 52.1 | 50.2 | 48.5 | 47.6 | 46.2 | 50.9 | 55.86 |
| 58.5 | 59.0 | 59.4 | 59.5 | 59.3 | 58.9 | 58.3 | 56.3 | 55.9 | 55.5 | 55.1 | 55.7 | 57.55 |
| 53.9 | 53.7 | 53.3 | 51.8 | 51.2 | 49.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 38.1 | 36.7 | 35.3 | 33.9 | 37.9 | 39.4 | 49.92 |
| 51.5 | 51.5 | 51.7 | 51.5 | 52.4 | 52.9 | 53.2 | 53.2 | 53.6 | 53.4 | 53.3 | 53.2 | 50.53 |
| 41.3 | 40.5 | 40.5 | 40.2 | 40.1 | 40.1 | 36.7 | 35.2 | 34.4 | 33.1 | 31.7 | 29.1 | 42.05 |
| 36.8 | 35.7 | 32.9 | 32.3 | 31.0 | 31.4 | 30.5 | 30.4 | 30.5 | 30.4 | 32.3 | 33.3 | 35.13 |
| 36.5 | 37.3 | 34.7 | 34.4 | 36.3 | 36.3 | 35.5 | 31.8 | 31.4 | 33.5 | 33.7 | 33.9 | 38.35 |
| 42.6 | 41.4 | 44.1 | 41.6 | 36.9 | 35.1 | 34.4 | 33.9 | 33.4 | 32.9 | 32.9 | 33.6 | 41.63 |
| 51.1 | 50.4 | 49.1 | 48.7 | 47.7 | 45.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.3 | 44.1 | 44.0 | 43.2 | 40.8 | 39.1 | 47.90 |
| 34.2 | 33.1 | 32.2 | 31.4 | 29.9 | 27.4 | 24.7 | 25.2 | 24.6 | 24.7 | 23.1 | 23.0 | 33.60 |
| 29.9 | 27.6 | 27.2 | 28.5 | 28.5 | 28.0 | 25.7 | 24.5 | 25.6 | 24.6 | 24.3 | 20.8 | 28.99 |
| 36.5 | 30.3 | 28.4 | 27.4 | 27.2 | 27.6 | 25.9 | 26.0 | 25.2 | 24.8 | 24.3 | 24.3 | 31.18 |
| 44.7 | 45.1 | 45.5 | 45.6 | 44.3 | 41.6 | 41.8 | 41.2 | 41.5 | 42.2 | 41.7 | 42.0 | 41.85 |
| 41.2 | 40.4 | 40.8 | 42.3 | 41.4 | 40.6 | 40.1 | 40.2 | 40.7 | 40.7 | 39.9 | 39.5 | 44.78 |
| 45.8 | 45.8 | 45.5 | 44.9 | 44.9 | 44.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.1 | 40.8 | 40.8 | 39.7 | 38.7 | 38.3 | 44.90 |
| 51.1 | 50.4 | 46.4 | 45.0 | 44.3 | 43.6 | 43.4 | 42.4 | 42.1 | 41.5 | 40.1 | 40.8 | 48.30 |
| 50.9 | 46.7 | 44.9 | 48.2 | 49.0 | 49.1 | 46.0 | 43.9 | 40.4 | 38.1 | 37.1 | 37.9 | 49.44 |
| 56.7 | 54.1 | 52.9 | 51.1 | 50.6 | 57.2 | 61.2 | 60.4 | 60.4 | 58.4 | 58.9 | 57.7 | 54.54 |
| 49.4 | 49.1 | 48.9 | 48.3 | 48.7 | 48.9 | 48.8 | 48.9 | 48.9 | 49.3 | 49.7 | 49.2 | 52.47 |
| 55.1 | 54.0 | 54.1 | 53.6 | 54.2 | 54.9 | 53.0 | 56.1 | 53.6 | 51.9 | 49.1 | 48.6 | 53.14 |
| 47.66 | 46.48 | 45.67 | 45.35 | 45.00 | 44.79 | 42.89 | 42.35 | 41.99 | 41.66 | 41.44 | 41.43 | 46.56 |

| STANDARD THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 47.5 | 47.3 | 47.2 | 50.9 | 53.2 | 52.7 | 55.5 | 54.7 | 59.2 | 57.7 | 56.9 | 52.1 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 38.3 | 37.9 | 38.9 | 39.9 | 40.8 | 48.9 | 48.5 | 49.1 | 48.2 | 46.1 | 44.0 | 42.8 |
| | 4 | 39.0 | 39.2 | 39.7 | 41.6 | 43.7 | 43.5 | 44.2 | 44.4 | 44.4 | 44.2 | 43.4 | 42.3 |
| | 5 | 39.7 | 39.3 | 39.4 | 40.0 | 40.5 | 43.6 | 44.6 | 44.4 | 42.5 | 42.5 | 42.7 | 43.5 |
| | 6 | 41.8 | 41.8 | 42.8 | 43.7 | 45.3 | 43.9 | 43.6 | 44.4 | 44.2 | 45.0 | 44.2 | 43.0 |
| | 7 | 38.1 | 38.1 | 37.7 | 39.1 | 40.1 | 40.3 | 41.3 | 41.8 | 42.3 | 41.9 | 41.7 | 40.9 |
| | 8 | 36.5 | 36.5 | 36.7 | 36.3 | 35.9 | 35.0 | 34.3 | 34.2 | 34.2 | 34.4 | 34.1 | 34.1 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 34.7 | 36.2 | 38.7 | 39.7 | 41.1 | 43.2 | 45.1 | 45.5 | 46.7 | 45.5 | 45.5 | 40.1 |
| | 11 | 37.3 | 37.3 | 37.4 | 37.4 | 37.9 | 39.1 | 41.4 | 41.4 | 42.5 | 42.5 | 41.9 | 40.1 |
| | 12 | 30.1 | 30.4 | 33.2 | 37.7 | 39.5 | 40.1 | 41.1 | 41.5 | 41.3 | 40.2 | 40.2 | 37.6 |
| | 13 | 36.1 | 36.1 | 37.5 | 43.4 | 45.8 | 49.2 | 49.2 | 50.0 | 49.7 | 50.0 | 48.9 | 47.0 |
| | 14 | 38.2 | 40.2 | 41.2 | 43.2 | 43.5 | 47.8 | 51.2 | 51.5 | 51.5 | 49.2 | 48.2 | 45.8 |
| | 15 | 30.7 | 31.2 | 32.5 | 35.3 | 38.8 | 42.0 | 40.7 | 42.0 | 43.0 | 43.2 | 42.2 | 41.1 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 37.5 | 39.6 | 41.1 | 42.9 | 44.0 | 45.1 | 45.7 | 45.5 | 45.6 | 46.2 | 46.8 | 47.0 |
| | 18 | 47.1 | 47.1 | 48.0 | 48.8 | 49.3 | 52.1 | 51.5 | 52.4 | 51.7 | 52.0 | 52.0 | 52.0 |
| | 19 | 45.4 | 44.7 | 43.6 | 44.4 | 44.0 | 44.0 | 44.2 | 44.4 | 43.5 | 43.0 | 42.5 | 40.7 |
| | 20 | 37.5 | 37.5 | 38.9 | 44.3 | 49.1 | 52.2 | 53.2 | 52.9 | 52.3 | 51.1 | 49.3 | 51.2 |
| | 21 | 35.0 | 33.9 | 34.5 | 36.1 | 36.5 | 38.7 | 38.4 | 37.2 | 37.7 | 36.5 | 34.6 | 33.8 |
| | 22 | 30.3 | 31.4 | 32.4 | 33.3 | 34.1 | 34.6 | 35.5 | 36.1 | 36.8 | 35.9 | 35.7 | 35.4 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 23.3 | 21.9 | 22.5 | 25.5 | 27.4 | 28.8 | 29.1 | 28.0 | 28.5 | 27.4 | 25.8 | 24.0 |
| | 25 | 32.2 | 32.3 | 34.5 | 37.5 | 38.7 | 39.9 | 40.1 | 40.5 | 40.1 | 38.6 | 37.7 | 36.3 |
| | 26 | 32.9 | 32.7 | 32.5 | 32.3 | 32.3 | 32.2 | 32.3 | 32.5 | 32.7 | 32.9 | 32.7 | 32.4 |
| | 27 | 23.1 | 22.5 | 21.9 | 20.6 | 19.8 | 19.8 | 22.0 | 22.8 | 23.3 | 22.5 | 21.8 | 22.1 |
| | 28 | 9.1 | 9.1 | 9.4 | 12.1 | 13.4 | 15.8 | 17.8 | 18.0 | 18.6 | 20.1 | 17.1 | 16.7 |
| | 29 | 15.2 | 16.3 | 17.1 | 18.1 | 20.4 | 21.7 | 22.5 | 22.3 | 21.7 | 21.6 | 22.1 | 23.5 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 34.26 | 34.42 | 35.17 | 36.96 | 38.20 | 39.73 | 40.52 | 40.70 | 40.89 | 40.41 | 39.28 | 38.62 |
| DECEMBER. | 1 | 19.4 | 19.6 | 19.4 | 20.0 | 20.8 | 21.4 | 22.3 | 22.9 | 22.7 | 22.8 | 22.1 | 21.4 |
| | 2 | 10.9 | 10.7 | 12.0 | 13.0 | 15.7 | 16.3 | 16.8 | 17.8 | 18.2 | 18.2 | 16.5 | 11.1 |
| | 3 | 10.4 | 11.4 | 12.5 | 14.9 | 15.5 | 15.9 | 17.0 | 19.4 | 19.6 | 19.9 | 22.0 | 22.5 |
| | 4 | 27.0 | 27.5 | 27.9 | 28.8 | 30.4 | 31.5 | 28.8 | 28.8 | 29.7 | 29.7 | 28.7 | 27.6 |
| | 5 | 22.3 | 22.1 | 22.6 | 23.0 | 24.9 | 25.2 | 26.0 | 26.6 | 25.8 | 25.4 | 24.6 | 23.7 |
| | 6 | 22.6 | 22.4 | 23.9 | 24.6 | 25.6 | 26.4 | 26.4 | 27.2 | 26.9 | 26.8 | 25.6 | 24.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 25.2 | 25.2 | 25.8 | 27.3 | 28.2 | 30.3 | 31.0 | 31.4 | 31.8 | 32.3 | 31.8 | 30.5 |
| | 9 | 30.1 | 30.7 | 30.5 | 31.2 | 31.8 | 31.7 | 32.2 | 32.4 | 33.2 | 32.9 | 32.3 | 31.8 |
| | 10 | 16.5 | 15.9 | 14.4 | 16.8 | 17.8 | 18.2 | 17.9 | 17.3 | 17.9 | 18.7 | 17.1 | 16.9 |
| | 11 | 5.9 | 5.3 | 4.6 | 4.0 | 5.6 | 7.3 | 8.9 | 10.2 | 11.1 | 10.3 | 10.0 | 9.4 |
| | 12 | 3.7 | 3.3 | 1.9 | 6.7 | 11.2 | 13.3 | 15.0 | 17.5 | 20.2 | 20.6 | 20.4 | 19.9 |
| | 13 | 16.7 | 14.2 | 16.7 | 25.5 | 29.4 | 30.2 | 30.1 | 30.2 | 30.7 | 30.7 | 30.4 | 31.0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 32.2 | 31.5 | 32.9 | 33.3 | 33.6 | 33.9 | 32.3 | 31.1 | 31.1 | 31.8 | 31.6 | 30.4 |
| | 16 | 23.1 | 22.6 | 25.8 | 27.6 | 30.1 | 32.3 | 33.9 | 34.3 | 34.5 | 34.7 | 33.7 | 31.8 |
| | 17 | 23.9 | 30.3 | 30.7 | 32.6 | 34.5 | 34.7 | 36.2 | 37.4 | 37.1 | 37.3 | 37.6 | 37.7 |
| | 18 | 34.3 | 33.1 | 33.4 | 33.9 | 35.3 | 35.3 | 35.7 | 35.6 | 35.9 | 34.9 | 34.1 | 33.7 |
| | 19 | 6.9 | 8.6 | 10.2 | 12.1 | 14.6 | 14.8 | 14.3 | 13.6 | 13.6 | 13.0 | 13.0 | 13.0 |
| | 20 | 9.5 | 10.0 | 10.6 | 11.5 | 12.1 | 14.0 | 14.4 | 15.5 | 16.3 | 16.2 | 15.7 | 14.9 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 11.3 | 11.8 | 11.8 | 13.5 | 16.5 | 18.4 | 19.8 | 20.0 | 20.6 | 21.0 | 20.6 | 17.4 |
| | 23 | 14.4 | 16.7 | 17.7 | 18.5 | 21.1 | 23.5 | 25.4 | 26.2 | 25.5 | 25.0 | 24.6 | 22.1 |
| | 24 | 19.9 | 19.5 | 19.2 | 20.4 | 22.5 | 25.0 | 26.8 | 27.5 | 28.6 | 28.2 | 27.5 | 26.6 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 17.2 | 16.2 | 15.0 | 15.7 | 17.2 | 17.3 | 19.1 | 20.9 | 21.7 | 22.3 | 21.2 | 15.1 |
| | 27 | 17.1 | 16.8 | 16.6 | 19.6 | 22.9 | 25.6 | 27.6 | 28.4 | 29.3 | 29.1 | 28.7 | 27.6 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 33.1 | 33.1 | 33.9 | 34.7 | 35.2 | 35.5 | 36.1 | 36.6 | 36.9 | 35.9 | 36.3 | 34.9 |
| | 30 | 29.1 | 28.2 | 27.8 | 28.5 | 28.2 | 28.7 | 29.1 | 29.1 | 28.4 | 27.6 | 25.2 | 24.1 |
| | 31 | 11.8 | 11.1 | 12.1 | 13.0 | 15.6 | 19.0 | 21.0 | 22.3 | 24.2 | 24.4 | 23.4 | 23.7 |
| Hourly Means | 19.02 | 19.15 | 19.61 | 21.18 | 22.93 | 24.07 | 24.77 | 25.39 | 25.83 | 25.76 | 25.18 | 23.95 | |

STANDARD THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 51.1 | 48.6 | 41.5 | 42.1 | 39.7 | 39.7 | — | — | — | — | — | — | 46.65 |
| — | — | — | — | — | — | 36.6 | 35.3 | 35.1 | 38.5 | 38.2 | 38.3 | 41.76 |
| 42.3 | 42.8 | 41.8 | 41.0 | 41.1 | 40.7 | 40.0 | 38.1 | 36.5 | 37.5 | 38.5 | 38.5 | 41.58 |
| 41.1 | 41.3 | 41.6 | 40.8 | 40.6 | 40.6 | 40.6 | 40.6 | 40.3 | 40.3 | 40.3 | 40.2 | 41.79 |
| 42.5 | 41.6 | 40.4 | 40.4 | 40.4 | 41.8 | 42.2 | 42.1 | 41.7 | 42.3 | 42.4 | 42.4 | 41.93 |
| 41.5 | 41.3 | 40.8 | 39.9 | 40.2 | 40.1 | 40.2 | 40.5 | 40.1 | 40.0 | 39.9 | 38.1 | 39.90 |
| 40.6 | 40.4 | 40.4 | 40.2 | 40.2 | 40.2 | 40.0 | 39.7 | 39.4 | 38.7 | 37.5 | 36.9 | 34.82 |
| 33.7 | 33.1 | 33.2 | 33.5 | 33.8 | 33.9 | — | — | — | — | — | — | 39.43 |
| — | — | — | — | — | — | 35.5 | 35.1 | 34.7 | 35.3 | 36.3 | 35.4 | 38.07 |
| 36.7 | 34.5 | 33.8 | 38.3 | 38.5 | 38.7 | 37.3 | 38.5 | 37.3 | 36.9 | 36.9 | 37.0 | 36.08 |
| 39.9 | 38.7 | 38.1 | 38.2 | 37.7 | 37.1 | 36.4 | 35.9 | 35.9 | 34.4 | 34.4 | 30.7 | 44.61 |
| 36.9 | 35.2 | 33.9 | 33.9 | 31.2 | 32.0 | 35.3 | 35.3 | 34.6 | 33.4 | 35.3 | 36.1 | 42.00 |
| 45.3 | 44.7 | 44.7 | 44.8 | 45.6 | 48.2 | 48.0 | 44.9 | 44.5 | 40.6 | 37.6 | 38.9 | 38.99 |
| 44.2 | 43.2 | 42.8 | 41.5 | 38.6 | 38.1 | 37.0 | 36.1 | 34.5 | 35.1 | 34.5 | 32.8 | 45.88 |
| 40.8 | 40.3 | 46.3 | 41.2 | 42.2 | 42.3 | — | — | — | — | — | — | 50.21 |
| — | — | — | — | — | — | 37.5 | 37.3 | 36.4 | 36.3 | 36.4 | 36.1 | 39.91 |
| 47.1 | 46.7 | 47.2 | 47.7 | 48.7 | 48.3 | 48.9 | 48.6 | 48.6 | 47.5 | 47.8 | 47.2 | 44.08 |
| 52.7 | 53.3 | 52.9 | 53.4 | 52.2 | 50.0 | 49.3 | 50.1 | 49.1 | 46.7 | 45.9 | 45.4 | 33.40 |
| 41.3 | 41.4 | 38.9 | 33.6 | 31.6 | 31.0 | 31.8 | 33.7 | 36.9 | 36.7 | 38.3 | 38.3 | 32.45 |
| 46.3 | 44.2 | 44.2 | 43.4 | 42.9 | 40.7 | 40.5 | 38.3 | 37.1 | 37.1 | 37.3 | 36.3 | 25.36 |
| 32.9 | 32.7 | 32.0 | 30.6 | 27.6 | 30.4 | 30.4 | 30.8 | 31.3 | 31.2 | 29.8 | 29.0 | 35.02 |
| 35.7 | 36.3 | 36.9 | 37.6 | 37.9 | 38.1 | — | — | — | — | — | — | 31.22 |
| — | — | — | — | — | — | 25.2 | 24.6 | 24.4 | 24.4 | 22.9 | 23.3 | 18.47 |
| 22.8 | 21.9 | 24.0 | 25.4 | 24.6 | 24.0 | 21.6 | 21.6 | 23.8 | 29.9 | 25.6 | 31.2 | 14.88 |
| 36.9 | 36.7 | 36.1 | 36.6 | 33.9 | 31.8 | 29.2 | 29.0 | 29.0 | 29.7 | 30.4 | 32.7 | 20.34 |
| 32.3 | 32.3 | 32.2 | 32.2 | 32.1 | 31.6 | 31.0 | 28.9 | 27.7 | 27.8 | 26.2 | 24.6 | 36.74 |
| 21.9 | 19.1 | 18.4 | 16.1 | 15.1 | 14.4 | 14.1 | 12.9 | 13.6 | 12.9 | 11.8 | 10.7 | — |
| 17.5 | 17.8 | 19.6 | 17.8 | 15.5 | 13.0 | 11.2 | 13.0 | 13.6 | 13.1 | 13.1 | 14.6 | — |
| 23.5 | 23.8 | 23.8 | 21.8 | 21.4 | 21.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 15.9 | 17.1 | 18.9 | 19.0 | 19.4 | 19.3 | — |
| 37.90 | 37.28 | 37.02 | 36.48 | 35.73 | 35.54 | 34.23 | 33.92 | 33.80 | 33.81 | 33.47 | 33.36 | 36.74 |
| 20.9 | 19.9 | 19.3 | 17.1 | 17.1 | 17.3 | 17.8 | 17.8 | 17.6 | 17.8 | 17.6 | 14.0 | 19.54 |
| 4.3 | 3.7 | 2.3 | 2.5 | 2.5 | 7.1 | 5.0 | 2.7 | 2.1 | 3.7 | 7.8 | 10.3 | 9.63 |
| 22.8 | 22.9 | 23.6 | 24.3 | 24.1 | 24.8 | 25.6 | 26.7 | 27.2 | 27.0 | 27.4 | 27.4 | 21.03 |
| 27.2 | 26.4 | 25.2 | 26.0 | 25.8 | 25.4 | 24.6 | 24.6 | 23.7 | 21.7 | 21.4 | 23.1 | 26.73 |
| 22.9 | 22.7 | 21.4 | 20.5 | 21.8 | 22.7 | 21.2 | 23.3 | 24.3 | 24.3 | 23.9 | 23.0 | 23.51 |
| 23.7 | 22.9 | 22.6 | 20.7 | 20.8 | 22.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 24.4 | 24.6 | 24.8 | 25.4 | 24.28 |
| 30.5 | 30.0 | 29.5 | 30.1 | 30.1 | 30.1 | 30.1 | 28.9 | 28.7 | 28.2 | 30.4 | 29.3 | 29.45 |
| 31.7 | 31.1 | 30.9 | 30.3 | 30.1 | 29.3 | 27.8 | 25.0 | 22.8 | 21.0 | 19.2 | 17.6 | 29.07 |
| 16.9 | 16.0 | 15.7 | 16.5 | 16.0 | 15.0 | 14.9 | 15.3 | 10.3 | 7.3 | 5.8 | 7.0 | 15.09 |
| 8.6 | 8.2 | 8.2 | 7.8 | 8.0 | 5.8 | 4.5 | 4.6 | 3.7 | 4.5 | 2.9 | 2.0 | 6.73 |
| 19.9 | 19.3 | 18.6 | 18.7 | 19.9 | 19.6 | 19.4 | 20.2 | 20.0 | 20.8 | 21.6 | 20.6 | 16.35 |
| 31.6 | 32.0 | 31.6 | 32.8 | 32.6 | 32.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.7 | 34.9 | 34.9 | 34.1 | 34.1 | 34.1 | 29.81 |
| 29.8 | 30.1 | 29.0 | 28.5 | 27.8 | 27.8 | 27.2 | 25.2 | 24.6 | 25.0 | 25.2 | 24.6 | 29.60 |
| 30.8 | 30.6 | 29.3 | 28.6 | 28.6 | 27.2 | 26.5 | 25.6 | 21.8 | 20.6 | 26.9 | 27.2 | 28.67 |
| 34.9 | 35.3 | 35.9 | 36.3 | 36.3 | 36.7 | 36.4 | 36.2 | 35.9 | 34.9 | 34.7 | 34.4 | 34.91 |
| 33.3 | 33.9 | 33.9 | 32.9 | 31.7 | 26.4 | 26.6 | 16.8 | 13.0 | 10.1 | 8.5 | 7.6 | 28.75 |
| 12.9 | 12.9 | 12.2 | 11.6 | 11.5 | 10.7 | 10.1 | 8.9 | 8.6 | 8.2 | 7.7 | 7.9 | 11.29 |
| 14.7 | 14.9 | 14.1 | 11.5 | 11.2 | 11.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 12.0 | 11.8 | 10.9 | 12.2 | 11.5 | 11.3 | 12.84 |
| 14.6 | 13.0 | 12.9 | 13.6 | 13.8 | 14.1 | 13.1 | 14.1 | 14.4 | 13.7 | 10.4 | 13.1 | 15.15 |
| 21.7 | 22.0 | 21.6 | 21.4 | 21.0 | 20.9 | 21.4 | 21.2 | 20.8 | 20.2 | 20.2 | 20.2 | 21.39 |
| 26.2 | 26.2 | 26.2 | 26.0 | 25.7 | 25.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 14.6 | 13.4 | 12.9 | 14.6 | 16.5 | 17.1 | 22.37 |
| 14.2 | 11.2 | 9.8 | 10.6 | 15.3 | 13.6 | 13.0 | 13.4 | 10.6 | 15.9 | 17.5 | 17.0 | 15.88 |
| 27.4 | 27.7 | 27.9 | 28.5 | 28.7 | 28.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 33.1 | 32.9 | 32.5 | 32.4 | 33.3 | 33.0 | 27.30 |
| 33.9 | 32.9 | 33.7 | 33.5 | 33.2 | 33.5 | 33.1 | 32.0 | 31.8 | 30.4 | 30.1 | 29.9 | 33.76 |
| 24.1 | 23.8 | 23.8 | 23.7 | 23.4 | 23.6 | 22.2 | 20.0 | 16.1 | 14.9 | 10.7 | 11.3 | 23.82 |
| 24.1 | 24.7 | 24.5 | 25.4 | 26.4 | 27.2 | 27.2 | 27.2 | 27.4 | 27.6 | 27.8 | 27.6 | 22.45 |
| 23.22 | 22.86 | 22.45 | 22.28 | 22.44 | 22.26 | 21.68 | 20.91 | 20.04 | 19.83 | 19.92 | 19.85 | 22.28 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JANUARY. | 1 | 35.0 | 34.6 | 34.6 | 35.8 | 34.2 | 35.8 | 35.6 | 36.0 | 34.3 | 34.8 | 33.0 | 31.2 |
| | 2 | 26.0 | 25.8 | 26.0 | 26.8 | 28.4 | 29.1 | 31.2 | 31.4 | 29.6 | 27.6 | 28.0 | 27.2 |
| | 3 | 32.3 | 32.6 | 33.6 | 35.0 | 35.4 | 36.2 | 37.0 | 37.0 | 37.6 | 38.4 | 40.2 | 39.7 |
| | 4 | 31.2 | 31.2 | 30.0 | 31.4 | 31.8 | 33.4 | 34.0 | 33.0 | 34.0 | 33.8 | 34.6 | 34.6 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 17.0 | 16.6 | 16.4 | 16.4 | 16.5 | 17.0 | 17.2 | 19.2 | 19.8 | 19.6 | 19.0 | 18.0 |
| | 7 | 21.8 | 23.9 | 25.0 | 19.0 | 20.8 | 21.0 | 22.2 | 22.3 | 24.3 | 24.2 | 25.6 | 25.4 |
| | 8 | 22.4 | 23.2 | 23.4 | 25.1 | 26.6 | 28.2 | 29.6 | 29.5 | 29.5 | 29.8 | 25.4 | 27.0 |
| | 9 | 32.4 | 32.6 | 32.0 | 34.1 | 36.4 | 35.7 | 36.6 | 35.6 | 35.8 | 35.4 | 35.4 | 34.0 |
| | 10 | 27.0 | 27.2 | 27.3 | 28.0 | 29.8 | 29.4 | 29.6 | 30.2 | 31.6 | 30.0 | 29.2 | 28.6 |
| | 11 | 23.8 | 24.0 | 23.7 | 25.0 | 26.9 | 27.8 | 28.4 | 28.4 | 28.8 | 27.6 | 27.0 | 26.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 23.4 | 18.4 | 18.4 | 17.0 | 17.6 | 17.0 | 17.8 | 18.2 | 18.3 | 18.8 | 18.6 | 18.2 |
| | 14 | 15.0 | 14.0 | 13.8 | 14.8 | 14.6 | 14.3 | 15.3 | 17.0 | 16.7 | 17.2 | 16.6 | 15.2 |
| | 15 | 22.2 | 22.4 | 22.6 | 24.4 | 26.6 | 28.3 | 30.2 | 31.0 | 31.6 | 31.6 | 30.4 | 29.8 |
| | 16 | 29.8 | 29.0 | 28.0 | 27.5 | 27.0 | 27.3 | 26.6 | 26.0 | 26.2 | 25.3 | 25.0 | 23.8 |
| | 17 | 19.0 | 19.5 | 19.4 | 19.8 | 18.2 | 21.2 | 21.8 | 22.4 | 23.0 | 22.0 | 20.6 | 18.6 |
| | 18 | 18.7 | 17.5 | 18.3 | 19.6 | 19.8 | 20.0 | 20.6 | 19.6 | 19.0 | 17.4 | 16.2 | 14.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 20.4 | 20.2 | 20.6 | 21.2 | 23.0 | 24.4 | 25.6 | 27.1 | 28.2 | 28.2 | 28.2 | 27.6 |
| | 21 | 28.3 | 28.3 | 29.6 | 29.2 | 29.0 | 29.2 | 30.4 | 31.8 | 32.5 | 32.4 | 31.6 | 32.0 |
| | 22 | 28.7 | 28.8 | 29.0 | 29.5 | 31.2 | 32.0 | 32.1 | 32.5 | 33.4 | 32.4 | 32.0 | 31.8 |
| | 23 | 18.0 | 17.6 | 21.8 | 29.8 | 31.6 | 31.7 | 32.1 | 32.4 | 32.6 | 33.0 | 32.6 | 32.8 |
| | 24 | 34.2 | 34.8 | 34.7 | 36.0 | 36.2 | 35.8 | 36.8 | 37.2 | 36.7 | 36.4 | 35.2 | 33.8 |
| | 25 | 26.8 | 23.6 | 22.4 | 21.8 | 22.0 | 23.4 | 25.2 | 24.8 | 26.2 | 26.2 | 25.3 | 23.7 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 19.8 | 20.5 | 21.8 | 24.6 | 30.2 | 32.2 | 33.0 | 34.4 | 34.3 | 34.3 | 34.2 | 33.3 |
| | 28 | 36.0 | 34.2 | 34.7 | 35.2 | 37.0 | 37.6 | 37.6 | 38.2 | 37.6 | 38.6 | 37.7 | 38.6 |
| | 29 | 26.6 | 26.7 | 26.8 | 27.2 | 28.7 | 29.6 | 29.0 | 29.6 | 26.8 | 25.0 | 23.0 | 22.8 |
| | 30 | 14.5 | 14.0 | 13.2 | 13.4 | 17.0 | 17.6 | 18.6 | 20.0 | 20.3 | 18.6 | 17.5 | 16.0 |
| | 31 | 14.4 | 11.4 | 11.4 | 13.0 | 13.2 | 11.5 | 11.3 | 10.2 | 10.4 | 11.4 | 9.7 | 8.3 |
| Hourly Means | 24.62 | 24.17 | 24.39 | 25.21 | 26.29 | 26.95 | 27.61 | 27.96 | 28.11 | 27.78 | 27.10 | 26.37 | |
| FEBRUARY. | 1 | +3.0 | -2.6 | -2.1 | 0.3 | 2.9 | 4.8 | 5.5 | 7.4 | 9.0 | 10.0 | 10.5 | 8.8 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 16.3 | 16.5 | 16.6 | 19.0 | 17.5 | 17.6 | 20.0 | 21.4 | 20.6 | 21.0 | 20.6 | 20.8 |
| | 4 | 22.3 | 22.8 | 23.2 | 23.6 | 24.6 | 25.6 | 25.8 | 19.6 | 18.8 | 17.8 | 15.4 | 13.8 |
| | 5 | 10.4 | 9.8 | 10.6 | 11.6 | 13.0 | 13.8 | 14.4 | 15.3 | 15.0 | 14.2 | 14.6 | 14.7 |
| | 6 | 3.2 | 2.4 | 2.6 | 4.8 | 5.8 | 6.7 | 9.5 | 10.4 | 10.8 | 10.5 | 10.2 | 9.6 |
| | 7 | 12.0 | 10.8 | 11.8 | 15.4 | 16.4 | 18.5 | 19.9 | 21.4 | 23.0 | 23.7 | 23.7 | 21.9 |
| | 8 | 8.2 | 6.5 | 7.2 | 10.4 | 12.6 | 15.6 | 16.0 | 17.4 | 19.6 | 19.5 | 20.0 | 16.5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 23.6 | 23.4 | 24.0 | 27.0 | 30.0 | 29.6 | 30.0 | 31.0 | 30.8 | 30.4 | 29.8 | 29.6 |
| | 11 | 25.3 | 24.6 | 25.2 | 26.8 | 29.0 | 31.0 | 32.6 | 32.8 | 33.2 | 32.0 | 31.6 | 30.5 |
| | 12 | 32.4 | 32.4 | 31.6 | 29.0 | 28.0 | 24.4 | 21.6 | 20.5 | 18.6 | 16.4 | 15.6 | 12.6 |
| | 13 | -3.6 | -4.7 | -2.7 | 0.4 | 2.2 | 4.1 | 5.3 | 6.6 | 7.0 | 8.4 | 8.8 | 8.4 |
| | 14 | 12.0 | 12.5 | 15.2 | 15.8 | 17.0 | 19.2 | 21.6 | 23.3 | 25.6 | 26.6 | 27.0 | 27.6 |
| | 15 | 33.0 | 33.4 | 34.2 | 34.9 | 35.8 | 36.2 | 36.6 | 37.3 | 37.6 | 36.8 | 36.4 | 36.6 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 31.6 | 31.8 | 32.4 | 33.6 | 35.0 | 32.4 | 34.0 | 35.2 | 34.2 | 34.4 | 34.0 | 33.8 |
| | 18 | 30.0 | 29.6 | 30.6 | 31.2 | 32.6 | 33.2 | 34.3 | 33.1 | 33.0 | 34.2 | 33.3 | 32.2 |
| | 19 | 31.2 | 31.4 | 31.5 | 32.2 | 32.7 | 34.6 | 35.2 | 34.8 | 34.6 | 34.0 | 34.4 | 32.8 |
| | 20 | 31.6 | 33.0 | 34.7 | 36.7 | 37.9 | 39.2 | 38.4 | 38.2 | 38.8 | 37.6 | 37.6 | 37.2 |
| | 21 | 32.0 | 32.2 | 33.4 | 35.4 | 37.4 | 40.0 | 40.2 | 41.0 | 39.6 | 39.6 | 40.4 | 39.4 |
| | 22 | 33.4 | 33.4 | 34.2 | 36.8 | — | — | 41.4 | 40.3 | 40.3 | 40.3 | 39.9 | 35.2 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 32.5 | 32.2 | 34.2 | 36.1 | 37.5 | 38.1 | 38.4 | 38.5 | 39.0 | 39.0 | 37.9 | 37.0 |
| | 25 | 32.7 | 34.2 | 37.0 | 40.7 | 40.7 | 42.6 | 43.4 | 42.9 | 42.8 | 42.4 | 41.8 | 41.5 |
| | 26 | 31.6 | 31.7 | 32.2 | 33.4 | 33.9 | 33.0 | 33.2 | 32.7 | 32.9 | 32.8 | 32.9 | 32.0 |
| | 27 | 25.0 | 24.2 | 26.6 | 31.3 | 32.9 | 34.3 | 35.2 | 35.1 | 37.2 | 34.7 | 33.6 | 31.8 |
| | 28 | 24.1 | 23.6 | 24.6 | 25.5 | 24.0 | 29.6 | 29.8 | 31.0 | 31.6 | 32.4 | 28.6 | 29.3 |
| Hourly Means | 21.98 | 21.88 | 22.97 | 24.66 | 25.19 | 26.27 | 27.60 | 27.80 | 28.07 | 27.86 | 27.44 | 26.40 | |

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 30.5 | 30.3 | 31.4 | 33.0 | 30.4 | 30.4 | 29.8 | 29.4 | 29.0 | 28.6 | 27.2 | 25.2 | 32.09 |
| 27.6 | 27.5 | 28.0 | 28.8 | 29.4 | 30.0 | 30.3 | 30.2 | 30.2 | 30.4 | 30.8 | 32.2 | 28.85 |
| 41.6 | 43.0 | 38.6 | 37.0 | 36.2 | 35.0 | 34.4 | 34.6 | 34.4 | 34.4 | 34.0 | 32.2 | 36.27 |
| 33.6 | 31.8 | 31.8 | 31.4 | 31.6 | 31.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 21.4 | 19.4 | 17.8 | 17.0 | 17.0 | 16.6 | 28.92 |
| 17.0 | 16.3 | 15.4 | 15.3 | 15.7 | 16.4 | 17.6 | 19.2 | 20.0 | 19.8 | 20.2 | 20.2 | 17.74 |
| 24.8 | 24.0 | 23.2 | 23.8 | 24.8 | 24.6 | 22.8 | 22.2 | 21.2 | 22.0 | 24.4 | 21.8 | 23.13 |
| 26.4 | 28.4 | 27.2 | 28.2 | 28.8 | 28.8 | 29.7 | 30.6 | 31.4 | 31.8 | 32.0 | 32.4 | 28.14 |
| 33.9 | 32.2 | 28.2 | 25.8 | 24.6 | 23.8 | 24.4 | 24.0 | 24.6 | 24.2 | 22.9 | 25.2 | 30.41 |
| 28.0 | 27.6 | 27.4 | 27.2 | 27.2 | 24.3 | 21.8 | 22.6 | 24.2 | 24.2 | 23.8 | 23.8 | 27.08 |
| 25.8 | 25.6 | 25.0 | 23.2 | 21.8 | 19.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 16.8 | 16.6 | 18.3 | 22.0 | 22.6 | 22.8 | 24.05 |
| 16.7 | 12.0 | 12.3 | 13.6 | 12.5 | 16.0 | 17.2 | 17.2 | 16.0 | 14.3 | 16.8 | 15.8 | 16.75 |
| 16.0 | 19.7 | 18.0 | 17.4 | 17.8 | 17.7 | 18.8 | 19.6 | 21.8 | 21.2 | 21.0 | 21.8 | 17.30 |
| 30.0 | 30.0 | 30.8 | 30.8 | 30.6 | 30.8 | 30.8 | 30.3 | 29.8 | 29.8 | 29.6 | 30.2 | 28.94 |
| 23.0 | 22.4 | 21.8 | 21.4 | 20.6 | 20.8 | 21.2 | 21.2 | 21.0 | 20.5 | 19.8 | 19.6 | 23.95 |
| 17.8 | 17.5 | 18.0 | 17.9 | 17.9 | 18.2 | 18.2 | 18.8 | 19.2 | 18.2 | 17.6 | 18.2 | 19.29 |
| 12.7 | 10.7 | 9.2 | 8.4 | 6.8 | 2.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 20.8 | 20.1 | 20.0 | 20.3 | 20.6 | 20.4 | 16.40 |
| 27.8 | 27.8 | 27.8 | 27.8 | 28.4 | 28.6 | 28.8 | 28.8 | 28.2 | 28.0 | 28.2 | 27.6 | 26.35 |
| 31.4 | 30.0 | 29.7 | 30.2 | 29.8 | 29.6 | 30.6 | 30.4 | 30.6 | 30.3 | 29.6 | 29.0 | 30.23 |
| 26.0 | 23.8 | 21.2 | 19.4 | 18.6 | 18.0 | 18.3 | 18.2 | 18.5 | 17.4 | 13.6 | 14.2 | 25.02 |
| 33.2 | 33.3 | 33.7 | 33.8 | 33.5 | 33.7 | 33.9 | 34.3 | 34.2 | 33.8 | 34.0 | 34.0 | 31.31 |
| 33.9 | 34.0 | 34.2 | 33.8 | 33.6 | 34.0 | 33.8 | 33.2 | 32.4 | 31.6 | 29.3 | 27.4 | 34.17 |
| 23.0 | 22.6 | 21.6 | 21.5 | 20.6 | 19.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 19.6 | 20.4 | 21.6 | 20.2 | 20.2 | 18.6 | 22.54 |
| 33.2 | 33.0 | 33.0 | 33.4 | 33.6 | 33.4 | 33.4 | 33.7 | 33.8 | 33.6 | 34.3 | 34.4 | 31.48 |
| 37.4 | 35.0 | 33.8 | 33.0 | 32.6 | 32.6 | 32.3 | 30.2 | 28.4 | 27.9 | 27.5 | 27.0 | 34.20 |
| 21.8 | 21.6 | 21.2 | 20.2 | 19.2 | 18.8 | 18.6 | 17.8 | 17.2 | 17.4 | 16.8 | 15.2 | 22.82 |
| 15.8 | 17.0 | 16.2 | 15.3 | 14.4 | 14.8 | 13.0 | 11.8 | 10.6 | 11.4 | 13.4 | 14.0 | 15.35 |
| 7.2 | 5.4 | 4.4 | 2.6 | 1.6 | 0.3 | -0.6 | -2.0 | -2.0 | -3.0 | -3.0 | -3.0 | 6.00 |
| 25.78 | 25.28 | 24.56 | 24.23 | 23.80 | 23.49 | 23.62 | 23.44 | 23.42 | 23.23 | 23.11 | 22.84 | 25.14 |
| 6.6 | 5.4 | 3.8 | 3.2 | 3.0 | 6.0 | — | — | — | — | — | — | 7.13 |
| — | — | — | — | — | — | 15.3 | 15.2 | 14.4 | 14.0 | 14.0 | 16.3 | — |
| 18.6 | 18.8 | 21.0 | 21.0 | 20.8 | 21.4 | 21.8 | 22.2 | 22.6 | 22.5 | 22.4 | 22.4 | 20.14 |
| 12.6 | 12.6 | 11.6 | 10.8 | 11.0 | 11.0 | 10.2 | 10.7 | 11.3 | 12.0 | 12.6 | 12.2 | 16.33 |
| 14.4 | 14.2 | 13.8 | 13.2 | 11.8 | 10.6 | 10.4 | 10.2 | 9.4 | 8.8 | 7.0 | 5.2 | 11.93 |
| 10.6 | 12.0 | 13.8 | 15.4 | 17.0 | 17.2 | 16.6 | 15.8 | 15.0 | 14.6 | 13.6 | 12.6 | 10.86 |
| 20.0 | 18.6 | 17.7 | 17.0 | 15.6 | 16.0 | 14.8 | 14.0 | 14.0 | 9.3 | 7.7 | 9.2 | 16.35 |
| 10.8 | 7.6 | 4.6 | 8.4 | 8.8 | 11.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 21.8 | 22.2 | 22.5 | 22.8 | 23.2 | 23.0 | 14.87 |
| 29.8 | 30.4 | 30.6 | 29.4 | 30.2 | 29.2 | 27.4 | 27.6 | 27.6 | 27.0 | 26.3 | 25.4 | 28.34 |
| 31.0 | 31.4 | 29.7 | 29.7 | 29.5 | 29.1 | 29.6 | 29.5 | 30.0 | 30.4 | 31.2 | 31.9 | 29.90 |
| 11.4 | 10.6 | 10.2 | 10.4 | 9.3 | 6.5 | 4.6 | 3.2 | 1.4 | 0.0 | -2.0 | -3.0 | 14.40 |
| 8.0 | 7.5 | 7.7 | 9.4 | 10.6 | 15.0 | 15.0 | 9.2 | 9.4 | 10.2 | 9.8 | 10.2 | 6.76 |
| 27.8 | 28.4 | 28.8 | 29.6 | 30.4 | 31.2 | 31.4 | 31.4 | 31.8 | 32.6 | 32.6 | 33.0 | 25.52 |
| 36.7 | 36.8 | 35.8 | 34.3 | 33.9 | 35.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 31.6 | 31.0 | 31.4 | 31.5 | 31.6 | 31.6 | 34.60 |
| 33.2 | 32.5 | 30.8 | 31.6 | 31.8 | 31.6 | 31.6 | 31.3 | 31.2 | 31.0 | 30.6 | 30.2 | 32.49 |
| 31.6 | 29.6 | 30.0 | 29.6 | 27.2 | 27.2 | 27.0 | 29.8 | 30.8 | 30.8 | 31.2 | 31.2 | 30.97 |
| 31.6 | 31.8 | 32.1 | 33.0 | 34.2 | 33.4 | 33.2 | 33.3 | 33.0 | 32.8 | 31.4 | 31.2 | 32.93 |
| 37.6 | 37.6 | 37.6 | 37.0 | 36.5 | 36.2 | 35.8 | 36.8 | 35.2 | 34.2 | 33.2 | 31.8 | 36.27 |
| 39.0 | 39.4 | 37.8 | 37.0 | 34.0 | 35.0 | 36.4 | 35.2 | 35.2 | 35.0 | 34.0 | 34.0 | 36.77 |
| 35.0 | 35.0 | 35.0 | 34.4 | 34.6 | 34.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.8 | 37.3 | 35.6 | 33.4 | 32.5 | 32.7 | 36.04 |
| 35.8 | 35.8 | 34.7 | 34.1 | 33.9 | 35.8 | 36.0 | 35.1 | 33.9 | 34.3 | 34.1 | 33.4 | 35.72 |
| 41.1 | 41.7 | 39.8 | 40.4 | 40.5 | 41.4 | 38.9 | 37.0 | 36.0 | 34.2 | 32.2 | 32.0 | 39.08 |
| 32.2 | 31.5 | 31.0 | 29.3 | 30.0 | 29.1 | 28.4 | 29.8 | 28.6 | 27.9 | 26.1 | 25.8 | 30.92 |
| 30.4 | 29.8 | 28.6 | 27.9 | 28.0 | 27.3 | 26.4 | 25.8 | 26.1 | 25.5 | 25.4 | 25.4 | 29.52 |
| 30.8 | 30.2 | 29.8 | 30.0 | 30.2 | 30.6 | 31.4 | 32.2 | 32.5 | 25.0 | 28.9 | 30.8 | 29.02 |
| 25.69 | 25.38 | 24.85 | 24.84 | 24.70 | 25.09 | 25.56 | 25.24 | 24.95 | 24.16 | 23.73 | 23.69 | 25.25 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| MARCH. | 1 | 31.5 | 32.0 | 32.0 | 34.2 | 34.1 | 34.9 | 35.3 | 36.4 | 36.9 | 38.3 | 37.0 | 35.8 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 31.7 | 31.5 | 30.2 | 29.6 | 27.6 | 27.3 | 29.8 | 31.3 | 30.5 | 31.0 | 29.1 | 30.5 |
| | 4 | 24.4 | 28.1 | 31.4 | 32.2 | 33.9 | 35.4 | 35.3 | 36.8 | 37.7 | 35.8 | 34.1 | 32.9 |
| | 5 | 33.5 | 32.7 | 33.1 | 34.0 | 34.0 | 34.9 | 35.3 | 37.0 | 37.6 | 39.1 | 39.2 | 38.8 |
| | 6 | 25.7 | 26.5 | 29.5 | 32.4 | 32.4 | 33.3 | 34.1 | 34.3 | 35.6 | 34.9 | 35.5 | 33.3 |
| | 7 | 31.4 | 32.2 | 34.4 | 35.6 | 37.6 | 37.9 | 38.1 | 38.1 | 37.3 | 37.1 | 37.1 | 36.7 |
| | 8 | 38.3 | 38.3 | 45.2 | 45.4 | 44.8 | 43.8 | 44.1 | 42.0 | 41.7 | 42.1 | 41.0 | 39.5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 24.8 | 24.9 | 25.5 | 27.1 | 29.3 | 30.2 | 31.4 | 33.3 | 32.9 | 32.4 | 33.3 | 34.1 |
| | 11 | 26.6 | 26.9 | 29.3 | 28.1 | 32.4 | 34.3 | 31.5 | 31.2 | 32.2 | 32.2 | 32.4 | 32.0 |
| | 12 | 32.2 | 32.0 | 32.5 | 36.5 | 35.6 | 36.2 | 36.5 | 36.7 | 39.7 | 38.1 | 37.3 | 37.2 |
| | 13 | 27.9 | 29.6 | 30.2 | 34.1 | 35.3 | 36.3 | 35.4 | 37.4 | 36.5 | 36.4 | 35.6 | 35.3 |
| | 14 | 34.3 | 35.3 | 36.4 | 37.0 | 37.4 | 38.7 | 40.1 | 40.2 | 38.9 | 34.1 | 33.3 | 32.3 |
| | 15 | 16.3 | 16.4 | 17.3 | 17.5 | 20.5 | 19.3 | 18.9 | 21.0 | 21.9 | 22.4 | 22.0 | 20.5 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 24.0 | 24.7 | 25.6 | 27.9 | 26.8 | 27.7 | 28.8 | 30.3 | 30.6 | 29.8 | 30.5 | 29.7 |
| | 18 | 24.0 | 24.7 | 23.7 | 24.6 | 23.5 | 24.2 | 24.7 | 24.0 | 24.2 | 23.6 | 23.6 | 23.7 |
| | 19 | 18.1 | 18.3 | 19.0 | 21.0 | 20.3 | 20.3 | 21.7 | 21.4 | 23.1 | 21.8 | 21.6 | 21.2 |
| | 20 | 22.9 | 23.6 | 24.4 | 24.8 | 27.6 | 29.8 | 27.8 | 32.7 | 28.5 | 28.5 | 28.5 | 29.1 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 26.6 | 26.6 | 28.4 | 30.0 | 33.1 | 34.4 | 34.9 | 35.3 | 36.9 | 36.2 | 37.4 | 35.8 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 32.5 | 33.1 | 33.3 | 33.4 | 34.5 | 34.6 | 34.2 | 34.5 | 31.6 | 33.4 | 33.1 | 33.1 |
| | 25 | 28.1 | 28.1 | 31.6 | 32.2 | 37.8 | 36.6 | 38.1 | 36.2 | 36.4 | 35.4 | 36.4 | 35.7 |
| | 26 | 32.3 | 32.5 | 36.3 | 37.4 | 38.1 | 39.5 | 41.3 | 39.5 | 41.3 | 41.6 | 41.6 | 41.8 |
| | 27 | 35.6 | 36.2 | 42.6 | 44.7 | 46.2 | 45.7 | 45.2 | 47.6 | 46.0 | 44.5 | 41.8 | 41.0 |
| | 28 | 37.0 | 38.8 | 39.5 | 40.9 | 42.4 | 45.8 | 45.8 | 44.0 | 45.4 | 44.3 | 44.8 | 43.9 |
| | 29 | 32.7 | 35.3 | 40.9 | 42.9 | 45.2 | 46.1 | 49.2 | 50.4 | 51.1 | 49.9 | 50.4 | 49.6 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | 43.0 | 45.7 | 48.0 | 50.4 | 51.3 | 52.3 | 52.6 | 52.4 | 52.5 | 52.3 | 53.6 | 50.7 |
| Hourly Means | 29.42 | 30.16 | 32.01 | 33.36 | 34.47 | 35.18 | 35.60 | 36.16 | 36.40 | 35.81 | 35.61 | 34.97 | |
| APRIL. | 1 | 46.4 | 42.2 | 37.9 | 37.0 | 34.9 | 34.5 | 35.1 | 35.8 | 35.4 | 35.4 | 35.1 | 34.4 |
| | 2 | 35.1 | 36.9 | 40.0 | 42.9 | 42.2 | 42.9 | 41.9 | 38.9 | 37.0 | 37.0 | 36.0 | 34.7 |
| | 3 | 24.8 | 24.0 | 26.6 | 26.9 | 28.1 | 29.6 | 31.5 | 32.3 | 34.1 | 33.7 | 32.9 | 32.6 |
| | 4 | 34.3 | 34.9 | 34.3 | 35.2 | 35.1 | 36.1 | 35.1 | 35.6 | 33.5 | 34.1 | 32.7 | 32.0 |
| | 5 | 21.4 | 22.2 | 22.6 | 27.1 | 27.5 | 30.0 | 28.9 | 32.0 | 27.9 | 29.3 | 27.8 | 28.5 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 23.1 | 22.9 | 23.6 | 22.6 | 23.7 | 26.8 | 30.3 | 33.2 | 32.2 | 30.5 | 31.8 | 30.2 |
| | 8 | 18.2 | 19.8 | 22.1 | 23.3 | 25.4 | 25.7 | 24.2 | 26.4 | 28.1 | 29.6 | 30.4 | 32.3 |
| | 9 | 20.0 | 22.9 | 27.0 | 30.6 | 31.5 | 32.2 | 32.9 | 33.6 | 35.5 | 35.5 | 34.9 | 34.3 |
| | 10 | 31.8 | 34.6 | 38.8 | 40.8 | 41.0 | 41.1 | 39.9 | 40.0 | 37.4 | 37.2 | 36.4 | 36.0 |
| | 11 | 30.2 | 30.0 | 31.4 | 32.4 | 33.4 | 34.7 | 34.7 | 35.1 | 35.4 | 34.4 | 34.6 | 33.5 |
| | 12 | 28.9 | 32.5 | 34.1 | 35.2 | 37.3 | 39.5 | 37.6 | 38.4 | 39.4 | 39.4 | 39.4 | 38.8 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 32.7 | 35.1 | 38.1 | 39.7 | 42.4 | 42.2 | 44.6 | 44.8 | 44.7 | 45.8 | 45.8 | 44.1 |
| | 15 | 29.4 | 32.9 | 39.3 | 43.8 | 46.9 | 46.4 | 45.7 | 47.2 | 46.2 | 48.2 | 47.4 | 47.8 |
| | 16 | 37.9 | 37.9 | 38.0 | 39.5 | 39.2 | 39.3 | 38.3 | 39.7 | 39.7 | 39.9 | 40.5 | 40.2 |
| | 17 | 38.5 | 38.9 | 39.1 | 39.1 | 39.7 | 39.7 | 40.9 | 41.2 | 41.8 | 42.6 | 42.4 | 42.2 |
| | 18 | 40.9 | 41.3 | 39.5 | 41.1 | 41.4 | 41.4 | 41.9 | 43.1 | 43.2 | 43.0 | 43.8 | 43.4 |
| | 19 | 45.2 | 43.4 | 42.4 | 42.2 | 43.9 | 43.8 | 43.4 | 43.1 | 43.4 | 43.8 | 44.3 | 44.0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 41.3 | 42.0 | 42.8 | 43.6 | 44.5 | 43.0 | 43.8 | 43.9 | 44.3 | 45.5 | 44.6 | 43.7 |
| | 22 | 38.2 | 42.1 | 42.9 | 45.8 | 45.7 | 46.2 | 45.8 | 46.8 | 46.0 | 46.2 | 47.6 | 47.2 |
| | 23 | 46.2 | 48.0 | 49.0 | 50.6 | 53.2 | 55.2 | 55.1 | 55.6 | 54.5 | 52.8 | 52.5 | 51.3 |
| | 24 | 49.8 | 51.4 | 54.2 | 57.6 | 59.1 | 61.7 | 62.3 | 62.2 | 62.1 | 61.9 | 59.8 | 56.0 |
| | 25 | 41.4 | 41.2 | 40.9 | 40.5 | 42.1 | 41.4 | 42.4 | 41.1 | 42.6 | 43.7 | 42.0 | 42.4 |
| | 26 | 39.7 | 42.0 | 44.5 | 44.1 | 44.7 | 47.2 | 50.9 | 49.5 | 49.7 | 49.7 | 50.9 | 52.5 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 40.9 | 44.1 | 48.6 | 50.4 | 51.6 | 53.7 | 55.4 | 55.6 | 54.5 | 54.4 | 53.4 | 51.3 |
| | 29 | 42.4 | 44.7 | 46.7 | 47.4 | 48.0 | 50.0 | 52.3 | 50.9 | 51.0 | 48.7 | 50.8 | 50.8 |
| | 30 | 41.6 | 43.2 | 44.7 | 47.7 | 48.2 | 49.7 | 50.7 | 51.9 | 55.1 | 54.2 | 54.3 | 51.9 |
| Hourly Means | 35.40 | 36.58 | 38.04 | 39.50 | 40.41 | 41.31 | 41.75 | 42.23 | 42.10 | 42.17 | 42.00 | 41.39 | |

WET THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 33.4 | 32.5 | 33.4 | 33.5 | 32.9 | 33.4 | — | — | — | — | — | — | 33.96 |
| — | — | — | — | — | — | 34.4 | 32.9 | 32.6 | 32.6 | 32.7 | 32.4 | 28.71 |
| 30.2 | 28.6 | 28.0 | 28.5 | 27.1 | 27.1 | 27.7 | 28.1 | 27.1 | 26.1 | 26.1 | 24.4 | 33.66 |
| 31.7 | 32.3 | 34.4 | 34.9 | 35.1 | 35.8 | 35.6 | 34.5 | 34.7 | 33.6 | 33.7 | 33.6 | 33.04 |
| 36.7 | 35.5 | 33.7 | 31.6 | 30.6 | 29.8 | 29.6 | 29.4 | 27.6 | 27.1 | 26.4 | 25.8 | 31.90 |
| 31.2 | 31.2 | 31.4 | 32.0 | 31.8 | 31.5 | 31.7 | 32.4 | 32.2 | 32.0 | 31.0 | 29.8 | 36.87 |
| 36.6 | 36.8 | 37.6 | 38.2 | 38.4 | 37.6 | 37.9 | 37.6 | 37.2 | 37.3 | 37.6 | 38.5 | — |
| 37.9 | 36.4 | 36.8 | 36.0 | 34.9 | 34.1 | — | — | — | — | — | — | 36.73 |
| — | — | — | — | — | — | 28.1 | 27.3 | 26.1 | 26.1 | 26.5 | 25.2 | — |
| 30.6 | 31.7 | 32.0 | 31.8 | 31.7 | 31.2 | 30.2 | 29.4 | 29.3 | 29.3 | 28.7 | 28.1 | 30.13 |
| 30.8 | 31.8 | 30.5 | 30.6 | 30.0 | 28.7 | 29.4 | 29.8 | 30.2 | 30.5 | 30.6 | 31.5 | 30.56 |
| 36.7 | 36.3 | 36.2 | 34.4 | 33.4 | 30.8 | 29.3 | 28.1 | 28.1 | 28.6 | 29.4 | 27.9 | 33.74 |
| 32.9 | 32.2 | 32.9 | 33.4 | 32.4 | 33.1 | 32.7 | 32.0 | 32.3 | 32.7 | 32.2 | 32.6 | 33.39 |
| 28.1 | 28.9 | 25.4 | 23.9 | 20.7 | 20.3 | 19.6 | 19.6 | 18.9 | 18.4 | 17.2 | 16.8 | 28.99 |
| 20.3 | 18.6 | 17.4 | 16.7 | 12.1 | 7.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 25.4 | 24.4 | 24.0 | 23.6 | 24.7 | 23.8 | 19.70 |
| 29.3 | 28.7 | 27.7 | 26.6 | 26.1 | 26.6 | 25.9 | 25.8 | 25.0 | 24.6 | 24.4 | 24.2 | 27.14 |
| 20.9 | 20.1 | 19.9 | 19.2 | 18.8 | 19.0 | 19.6 | 20.2 | 20.5 | 20.1 | 19.6 | 19.6 | 21.92 |
| 21.2 | 20.2 | 19.1 | 19.0 | 19.0 | 19.6 | 18.4 | 18.8 | 21.4 | 21.0 | 20.8 | 22.7 | 20.37 |
| 30.1 | 27.7 | 29.1 | 29.6 | 26.1 | 24.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | 28.9 | 28.9 | 27.6 | 27.1 | 27.61 |
| 33.7 | 32.4 | 32.0 | 32.7 | 29.4 | 28.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 35.6 | 33.3 | 35.1 | 35.3 | 35.4 | 35.8 | 33.13 |
| 32.4 | 32.3 | 32.6 | 32.4 | 32.0 | 31.5 | 30.8 | 29.5 | 29.1 | 28.1 | 27.1 | 28.1 | 32.09 |
| 36.3 | 33.9 | 33.9 | 32.0 | 31.2 | 30.5 | 31.0 | 31.0 | 32.2 | 32.2 | 29.6 | 30.6 | 33.21 |
| 40.9 | 40.0 | 40.0 | 40.3 | 42.4 | 43.3 | 41.6 | 41.6 | 41.8 | 41.2 | 39.7 | 38.3 | 39.76 |
| 39.9 | 39.7 | 38.7 | 37.0 | 37.8 | 38.1 | 38.1 | 36.9 | 37.1 | 36.7 | 36.7 | 35.5 | 40.39 |
| 41.1 | 39.3 | 38.9 | 38.1 | 37.0 | 38.1 | 38.3 | 38.0 | 37.6 | 36.3 | 34.1 | 33.2 | 40.11 |
| 48.7 | 48.0 | 43.7 | 45.2 | 43.4 | 43.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 42.2 | 41.6 | 40.7 | 40.3 | 40.5 | 42.7 | 44.35 |
| 49.7 | 49.2 | 51.0 | 49.4 | 49.4 | 47.5 | 46.4 | 48.2 | 48.2 | 48.8 | 48.2 | 49.0 | 49.57 |
| 33.65 | 32.97 | 32.63 | 32.28 | 31.35 | 30.90 | 31.65 | 31.27 | 31.12 | 30.86 | 30.42 | 30.29 | 32.86 |
| 34.6 | 32.9 | 32.3 | 27.8 | 27.9 | 27.8 | 27.5 | 26.7 | 26.6 | 27.3 | 31.8 | 33.1 | 33.75 |
| 33.4 | 33.1 | 32.5 | 29.1 | 27.6 | 33.1 | 33.1 | 31.7 | 26.1 | 24.6 | 23.9 | 24.8 | 34.10 |
| 32.6 | 32.5 | 32.5 | 32.0 | 32.5 | 32.6 | 32.7 | 32.4 | 32.4 | 32.5 | 31.9 | 33.5 | 31.13 |
| 31.5 | 31.3 | 30.2 | 29.1 | 28.2 | 28.3 | 27.5 | 26.7 | 24.0 | 22.8 | 21.4 | 20.7 | 30.61 |
| 27.9 | 25.9 | 22.7 | 22.2 | 20.0 | 20.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 17.5 | 17.5 | 17.0 | 20.7 | 22.9 | 23.3 | 24.28 |
| 23.3 | 21.6 | 20.5 | 20.3 | 19.9 | 19.4 | 19.6 | 19.6 | 19.8 | 20.0 | 20.3 | 17.9 | 23.88 |
| 29.1 | 27.3 | 23.8 | 21.4 | 20.3 | 21.0 | 20.1 | 19.6 | 19.1 | 19.2 | 18.2 | 18.8 | 23.47 |
| 33.1 | 32.7 | 33.4 | 34.9 | 32.3 | 32.0 | 32.2 | 31.0 | 32.2 | 32.4 | 32.5 | 32.0 | 31.73 |
| 35.4 | 34.4 | 33.5 | 34.1 | 33.3 | 33.3 | 32.0 | 32.2 | 31.5 | 31.6 | 30.5 | 29.1 | 35.25 |
| 30.3 | 28.1 | 28.3 | 27.3 | 28.1 | 26.3 | 26.5 | 23.6 | 24.8 | 25.2 | 26.3 | 26.4 | 30.04 |
| 37.9 | 37.9 | 36.3 | 36.9 | 36.4 | 36.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.9 | 35.6 | 33.7 | 33.5 | 33.1 | 32.4 | 36.07 |
| 43.0 | 40.5 | 39.3 | 37.0 | 36.6 | 33.1 | 31.2 | 30.5 | 30.5 | 31.8 | 31.8 | 29.1 | 38.10 |
| 46.0 | 43.2 | 39.5 | 37.9 | 37.6 | 39.5 | 39.9 | 40.0 | 38.7 | 37.6 | 36.9 | 37.3 | 41.47 |
| 39.3 | 39.5 | 39.2 | 38.5 | 38.5 | 39.0 | 38.9 | 38.9 | 39.0 | 38.1 | 38.2 | 38.5 | 38.99 |
| 42.0 | 41.8 | 42.2 | 42.4 | 42.1 | 41.6 | 41.0 | 40.9 | 41.4 | 41.1 | 40.7 | 41.1 | 41.02 |
| 43.1 | 44.0 | 44.1 | 43.6 | 43.0 | 43.0 | 43.0 | 44.1 | 44.8 | 43.9 | 44.7 | 44.7 | 42.92 |
| 44.6 | 44.0 | 44.1 | 42.2 | 41.6 | 41.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 41.3 | 41.0 | 40.5 | 40.5 | 40.7 | 40.9 | 42.73 |
| 42.4 | 41.8 | 41.0 | 37.8 | 36.6 | 38.2 | 36.9 | 34.9 | 34.4 | 34.7 | 33.8 | 34.9 | 40.43 |
| 45.2 | 43.8 | 44.3 | 43.6 | 43.8 | 44.3 | 44.2 | 44.7 | 45.2 | 44.7 | 44.3 | 44.8 | 44.72 |
| 52.9 | 48.6 | 52.6 | 49.5 | 48.2 | 47.6 | 49.2 | 52.7 | 52.2 | 50.9 | 49.4 | 49.2 | 51.13 |
| 54.8 | 54.2 | 54.1 | 52.8 | 52.8 | 52.5 | 49.4 | 46.4 | 43.9 | 43.9 | 42.2 | 41.3 | 53.60 |
| 43.4 | 41.0 | 41.4 | 40.9 | 40.7 | 40.7 | 41.1 | 41.0 | 40.5 | 40.5 | 40.5 | 40.7 | 41.42 |
| 51.7 | 48.6 | 47.8 | 48.2 | 49.5 | 51.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.9 | 39.5 | 38.5 | 36.7 | 36.3 | 36.5 | 45.45 |
| 52.1 | 49.2 | 47.5 | 45.2 | 44.7 | 44.1 | 42.8 | 41.2 | 40.0 | 39.5 | 40.0 | 41.3 | 47.98 |
| 46.2 | 46.4 | 44.7 | 45.4 | 44.3 | 43.6 | 42.8 | 42.8 | 42.9 | 42.7 | 42.1 | 41.6 | 46.22 |
| 52.6 | 51.9 | 53.9 | 54.2 | 54.2 | 49.8 | 51.4 | 53.1 | 50.9 | 51.7 | 50.2 | 49.0 | 50.67 |
| 40.32 | 39.08 | 38.53 | 37.84 | 36.95 | 36.92 | 36.06 | 35.70 | 35.02 | 34.93 | 34.79 | 34.73 | 38.49 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 |
| MAY. | 1 | 50.6 | 55.6 | 55.8 | 52.8 | 55.0 | 55.6 | 56.3 | 54.5 | 53.2 | 53.0 | 52.8 | 51.5 |
| | 2 | 37.8 | 39.0 | 38.1 | 38.7 | 39.2 | 42.0 | 42.9 | 44.3 | 44.5 | 45.4 | 46.2 | 45.0 |
| | 3 | 45.0 | 46.2 | 47.2 | 49.9 | 51.2 | 52.3 | 54.8 | 52.6 | 50.8 | 49.6 | 49.0 | 49.2 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | 32.9 | 33.7 | 34.0 | 35.4 | 37.2 | 37.9 | 39.9 | 42.4 | 43.2 | 43.8 | 44.7 | 43.8 |
| | 6 | 37.9 | 41.6 | 43.2 | 45.5 | 45.0 | — | — | — | — | 47.7 | 48.2 | 46.9 |
| | 7 | 41.4 | 38.6 | 37.1 | 37.9 | 38.2 | 39.5 | 39.4 | 39.4 | 41.2 | 40.3 | 40.7 | 38.1 |
| | 8 | 27.4 | 32.2 | 32.6 | 37.3 | 38.4 | 38.7 | 40.7 | 42.3 | 43.3 | 43.5 | 41.8 | 41.4 |
| | 9 | 42.3 | 44.5 | 46.7 | 46.4 | 45.6 | 47.6 | 46.7 | 47.3 | 48.9 | 48.9 | 48.9 | 49.1 |
| | 10 | 42.9 | 44.0 | 44.8 | 48.1 | 47.5 | 51.8 | 52.2 | 51.0 | 51.8 | 50.1 | 50.1 | 51.3 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | 55.7 | 58.9 | 60.3 | 62.8 | 63.4 | 65.2 | 66.0 | 64.4 | 64.1 | 64.1 | 62.2 | 65.3 |
| | 13 | 54.6 | 58.0 | 60.1 | 62.3 | 65.5 | 65.5 | 66.5 | 65.7 | 65.5 | 61.1 | 61.4 | 59.1 |
| | 14 | 56.4 | 58.5 | 58.0 | 58.0 | 61.0 | 62.1 | 61.5 | 63.0 | 63.0 | 63.3 | 63.0 | 62.9 |
| | 15 | 42.3 | 39.4 | 37.6 | 36.7 | 37.5 | 37.9 | 39.2 | 40.6 | 42.6 | 41.8 | 42.6 | 41.0 |
| | 16 | 31.5 | 33.4 | 33.7 | 35.6 | 40.6 | 41.4 | 42.8 | 42.3 | 42.3 | 43.8 | 44.2 | 44.8 |
| | 17 | 37.8 | 42.4 | 44.0 | 50.3 | 50.9 | 50.8 | 52.2 | 52.6 | 52.8 | 52.6 | 51.7 | 50.1 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | 50.8 | 55.3 | 58.0 | 59.5 | 60.6 | 60.2 | 58.5 | 58.5 | 54.8 | 58.2 | 56.7 | 55.8 |
| | 20 | 40.1 | 41.8 | 43.0 | 43.6 | 45.4 | 47.0 | 51.0 | 50.6 | 50.9 | 51.6 | 51.7 | 51.0 |
| | 21 | 39.5 | 42.1 | 44.7 | 45.8 | 51.0 | 51.9 | 51.8 | 53.3 | 54.2 | 54.9 | 56.4 | 55.5 |
| | 22 | 39.6 | 39.9 | 41.1 | 43.6 | 44.7 | 46.9 | 45.3 | 46.4 | 46.2 | 46.2 | 46.6 | 46.8 |
| | 23 | 39.4 | 44.2 | 46.5 | 51.9 | 53.8 | 52.7 | 53.2 | 53.1 | 53.1 | 51.8 | 54.3 | 53.4 |
| | 24 | 35.2 | 36.0 | 36.7 | 38.5 | 41.2 | 42.0 | 42.4 | 42.3 | 42.5 | 41.1 | 41.2 | 40.8 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 45.8 | 47.7 | 51.4 | 53.5 | 56.5 | 58.7 | 60.1 | 60.9 | 62.3 | 64.5 | 64.8 | 63.1 |
| | 27 | 49.6 | 52.2 | 54.4 | 56.6 | 59.3 | 60.9 | 62.9 | 62.9 | 60.1 | 57.8 | 57.4 | 56.0 |
| | 28 | 53.7 | 55.0 | 57.0 | 58.4 | 61.3 | 56.8 | 58.4 | 59.3 | 60.5 | 65.1 | 65.3 | 64.0 |
| | 29 | 32.9 | 32.3 | 32.2 | 33.1 | 33.8 | 35.1 | 37.8 | 35.9 | 37.2 | 36.6 | 37.2 | 39.3 |
| | 30 | 33.3 | 34.3 | 36.7 | 38.3 | 43.2 | 44.3 | 43.6 | 44.0 | 45.4 | 46.3 | 48.8 | 47.5 |
| | 31 | 40.6 | 45.0 | 48.3 | 49.8 | 52.7 | 53.3 | 54.3 | 55.5 | 56.0 | 55.5 | 56.3 | 53.8 |
| | 32 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | 42.11 | 44.14 | 45.30 | 47.05 | 48.88 | 49.93 | 50.78 | 50.97 | 51.17 | 51.06 | 51.26 | 50.61 |
| JUNE. | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 2 | 50.1 | 51.5 | 53.7 | 58.2 | 61.9 | 59.7 | 59.0 | 63.3 | 63.5 | 65.7 | 64.9 | 66.3 |
| | 3 | 58.5 | 59.8 | 59.2 | 59.9 | 61.7 | 66.7 | 68.3 | 67.5 | 66.0 | 65.9 | 66.4 | 64.3 |
| | 4 | 57.8 | 62.3 | 64.3 | 60.7 | 64.1 | 67.0 | 71.4 | 68.2 | 63.3 | 63.4 | 66.0 | 66.0 |
| | 5 | 49.7 | 49.3 | 49.6 | 50.2 | 52.9 | 52.8 | 54.0 | 54.5 | 55.5 | 55.5 | 59.3 | 58.5 |
| | 6 | 47.7 | 48.5 | 48.7 | 50.4 | 54.8 | 53.4 | 52.6 | 51.9 | 53.5 | 52.8 | 53.6 | 52.9 |
| | 7 | 49.7 | 53.6 | 51.2 | 50.4 | 53.3 | 55.2 | 56.5 | 56.8 | 57.2 | 56.4 | 58.8 | 59.2 |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 9 | 61.7 | 62.1 | 63.0 | 66.1 | 62.3 | 65.3 | 64.1 | 63.8 | 69.4 | 65.3 | 65.7 | 69.9 |
| | 10 | 58.4 | 61.3 | 62.8 | 63.0 | 65.5 | 67.8 | 68.8 | 69.1 | 67.5 | 65.1 | 63.9 | 63.2 |
| | 11 | 58.6 | 58.9 | 60.4 | 60.9 | 62.3 | 64.0 | 66.1 | 66.8 | 67.3 | 67.2 | 66.2 | 64.4 |
| | 12 | 58.5 | 58.5 | 58.5 | 59.3 | 63.5 | 67.1 | 69.3 | 66.7 | 66.8 | 66.7 | 67.8 | 68.7 |
| | 13 | 57.4 | 57.6 | 58.2 | 59.8 | 64.6 | 64.6 | 64.5 | 63.8 | 63.7 | 65.5 | 65.5 | 60.2 |
| | 14 | 49.6 | 49.0 | 50.6 | 51.6 | 56.7 | 59.4 | 54.0 | 53.6 | 53.2 | 53.0 | 52.3 | 52.8 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | 50.0 | 50.8 | 53.2 | 55.1 | 54.6 | 56.3 | 56.1 | 55.0 | 55.0 | 54.4 | 54.0 | 53.6 |
| | 17 | 44.8 | 46.1 | 46.3 | 47.7 | 47.8 | 48.9 | 49.4 | 50.7 | 51.3 | 50.7 | 51.3 | 51.3 |
| | 18 | 48.9 | 51.5 | 55.2 | 56.8 | 56.8 | 58.9 | 58.9 | 58.7 | 58.3 | 59.3 | 59.9 | 57.9 |
| | 19 | 50.2 | 52.9 | 57.8 | 58.7 | 61.2 | 62.3 | 61.8 | 61.7 | 61.4 | 62.4 | 62.8 | 64.0 |
| | 20 | 52.0 | 54.5 | 58.7 | 60.3 | 63.8 | 65.9 | 66.1 | 65.0 | 65.3 | 64.3 | 64.5 | 63.2 |
| | 21 | 60.3 | 59.9 | 60.3 | 60.4 | 61.4 | 59.2 | 60.3 | 58.5 | 61.1 | 64.0 | 63.6 | 60.0 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | 55.5 | 57.2 | 61.3 | 64.0 | 66.9 | 67.0 | 66.9 | 67.2 | 65.9 | 64.5 | 65.8 | 65.3 |
| | 24 | 62.6 | 65.0 | 67.0 | 68.2 | 68.9 | 69.7 | 69.4 | 70.6 | 67.5 | 69.1 | 69.6 | 70.7 |
| | 25 | 51.5 | 52.5 | 52.4 | 55.2 | 56.1 | 58.6 | 59.2 | 58.2 | 57.9 | 58.3 | 61.1 | 53.2 |
| | 26 | 48.6 | 51.0 | 54.0 | 61.2 | 61.9 | 57.9 | 58.9 | 62.2 | 62.5 | 63.3 | 64.2 | 65.5 |
| | 27 | 53.6 | 57.3 | 61.5 | 63.8 | 63.1 | 62.7 | 62.3 | 63.1 | 65.0 | 66.2 | 67.5 | 67.7 |
| | 28 | 53.8 | 54.9 | 55.9 | 57.5 | 59.0 | 58.5 | 59.7 | 57.1 | 58.7 | 57.8 | 58.5 | 59.7 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | 53.6 | 54.6 | 55.4 | 55.0 | 55.9 | 54.7 | 54.5 | 54.0 | 53.6 | 54.7 | 54.0 | 54.6 |
| Hourly Means | | 53.72 | 55.22 | 56.77 | 58.18 | 60.04 | 60.98 | 61.28 | 61.12 | 61.31 | 61.26 | 61.89 | 61.32 |

WET THERMOMETER.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 52.1 | 49.2 | 49.2 | 45.6 | 45.4 | 44.3 | 45.0 | 45.0 | 44.1 | 40.5 | 38.7 | 37.2 | 49.29 |
| 46.8 | 44.5 | 45.2 | 43.2 | 42.4 | 42.9 | 41.4 | 41.1 | 40.5 | 39.5 | 39.1 | 41.6 | 42.14 |
| 50.0 | 49.7 | 49.7 | 49.2 | 48.6 | 48.6 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 35.8 | 34.6 | 33.9 | 31.5 | 30.5 | 30.8 | 45.45 |
| 42.9 | 41.4 | 38.5 | 37.3 | 35.7 | 33.6 | 34.1 | 32.6 | 32.0 | 30.8 | 30.6 | 31.5 | 37.08 |
| 44.6 | 41.3 | 39.2 | 37.1 | 37.9 | 37.4 | 39.5 | 37.9 | 39.2 | 41.4 | 41.6 | 41.9 | 41.75 |
| 37.1 | 33.5 | 32.2 | 31.6 | 30.8 | 30.4 | 29.8 | 29.6 | 30.7 | 28.6 | 25.4 | 25.1 | 34.86 |
| 41.1 | 40.2 | 41.8 | 42.2 | 42.8 | 39.3 | 39.3 | 38.9 | 36.6 | 36.8 | 35.5 | 36.7 | 38.78 |
| 46.8 | 46.3 | 41.6 | 40.8 | 40.3 | 39.3 | 38.8 | 38.7 | 38.5 | 39.5 | 40.5 | 40.4 | 43.93 |
| 52.2 | 52.1 | 49.2 | 48.1 | 46.5 | 45.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.0 | 53.6 | 52.4 | 51.0 | 50.6 | 50.6 | 49.68 |
| 63.1 | 59.8 | 58.4 | 56.4 | 56.4 | 55.6 | 55.7 | 54.6 | 53.6 | 52.4 | 53.6 | 52.9 | 59.37 |
| 57.0 | 57.5 | 58.5 | 56.8 | 54.6 | 54.2 | 55.0 | 54.3 | 52.9 | 51.7 | 53.3 | 53.5 | 58.53 |
| 63.3 | 58.2 | 58.6 | 57.0 | 54.9 | 58.0 | 55.5 | 51.8 | 48.3 | 45.8 | 44.3 | 43.1 | 57.06 |
| 39.9 | 38.1 | 36.9 | 35.4 | 36.6 | 34.2 | 33.3 | 31.7 | 31.4 | 30.5 | 29.7 | 28.6 | 36.90 |
| 44.7 | 43.1 | 40.6 | 38.3 | 37.6 | 36.1 | 35.4 | 34.3 | 33.9 | 32.8 | 32.6 | 34.3 | 38.34 |
| 50.1 | 49.4 | 46.8 | 46.8 | 45.8 | 44.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 50.6 | 50.2 | 50.9 | 49.9 | 49.0 | 47.9 | 48.76 |
| 56.8 | 55.8 | 55.7 | 53.2 | 47.9 | 45.1 | 44.6 | 43.8 | 43.6 | 42.6 | 41.6 | 40.0 | 52.40 |
| 48.8 | 44.7 | 42.4 | 41.2 | 41.8 | 39.7 | 39.2 | 39.0 | 37.8 | 38.0 | 36.5 | 36.5 | 43.89 |
| 55.3 | 51.2 | 47.8 | 43.6 | 41.6 | 40.0 | 39.1 | 38.5 | 38.9 | 38.2 | 37.8 | 39.0 | 46.34 |
| 46.8 | 46.3 | 42.9 | 39.9 | 38.4 | 37.6 | 36.9 | 37.7 | 35.0 | 34.1 | 34.0 | 33.3 | 41.51 |
| 51.2 | 47.7 | 46.8 | 44.4 | 43.6 | 41.8 | 39.9 | 37.2 | 37.2 | 35.9 | 34.8 | 33.3 | 45.88 |
| 39.9 | 39.3 | 36.7 | 35.9 | 35.1 | 34.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 44.2 | 45.0 | 45.4 | 45.9 | 45.4 | 45.8 | 40.54 |
| 58.6 | 58.2 | 53.3 | 50.6 | 48.5 | 48.3 | 47.5 | 46.9 | 46.3 | 48.5 | 47.5 | 46.8 | 53.76 |
| 57.7 | 56.5 | 52.9 | 51.9 | 50.5 | 49.2 | 48.3 | — | — | — | 51.2 | 52.2 | 55.26 |
| 57.7 | 50.3 | 45.0 | 43.7 | 43.2 | 41.2 | 40.2 | 38.7 | 36.7 | 35.5 | 35.1 | 33.9 | 50.67 |
| 37.0 | 34.6 | 33.1 | 32.2 | 31.9 | 31.4 | 31.2 | 30.4 | 29.8 | 29.5 | 29.1 | 29.6 | 33.47 |
| 45.8 | 43.9 | 42.0 | 42.0 | 40.2 | 37.8 | 35.6 | 35.9 | 37.6 | 35.7 | 34.1 | 34.1 | 40.43 |
| 53.1 | 50.6 | 49.2 | 48.3 | 46.5 | 44.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 45.3 | 44.8 | 44.8 | 44.4 | 44.2 | 45.4 | 49.25 |
| 49.64 | 47.53 | 45.71 | 44.17 | 43.17 | 42.02 | 42.08 | 41.03 | 40.46 | 39.65 | 39.49 | 39.48 | 45.73 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 65.7 | 62.4 | 60.9 | 59.2 | 58.4 | 58.7 | 59.2 | 57.6 | 58.0 | 57.0 | 56.2 | 55.6 | 59.45 |
| 63.5 | 63.3 | 59.9 | 58.3 | 59.5 | 57.0 | 56.7 | 56.5 | 54.6 | 53.6 | 53.6 | 52.0 | 60.53 |
| 64.4 | 63.3 | 60.1 | 58.5 | 58.5 | 58.7 | 58.7 | 59.3 | 59.1 | 58.4 | 55.8 | 51.9 | 61.72 |
| 55.6 | 54.5 | 52.4 | 49.4 | 49.4 | 49.0 | 50.9 | 48.6 | 49.8 | 47.8 | 46.6 | 45.8 | 51.73 |
| 53.7 | 52.7 | 51.2 | 51.1 | 49.1 | 47.5 | 46.1 | 45.3 | 44.8 | 45.8 | 46.1 | 46.5 | 50.03 |
| 57.0 | 55.3 | 54.4 | 53.8 | 53.6 | 53.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.0 | 62.2 | 61.2 | 60.9 | 60.3 | 59.9 | 56.50 |
| 68.3 | 65.1 | 62.7 | 60.7 | 59.8 | 59.6 | 57.0 | 55.5 | 54.5 | 54.7 | 52.6 | 53.4 | 61.78 |
| 63.3 | 64.3 | 63.6 | 63.5 | 62.6 | 62.8 | 62.3 | 57.6 | 56.4 | 56.8 | 56.6 | 57.6 | 62.66 |
| 63.9 | 63.0 | 60.3 | 57.8 | 57.8 | 57.6 | 57.8 | 58.4 | 58.2 | 58.5 | 59.7 | 58.5 | 61.44 |
| 65.7 | 65.5 | 63.3 | 61.9 | 61.5 | 61.7 | 62.6 | 60.8 | 59.2 | 58.2 | 57.2 | 56.2 | 62.72 |
| 59.9 | 59.5 | 56.5 | 56.1 | 55.9 | 56.4 | 53.5 | 53.9 | 53.6 | 51.5 | 48.9 | 49.3 | 58.43 |
| 51.6 | 49.5 | 48.9 | 45.5 | 43.9 | 44.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.6 | 51.5 | 50.4 | 48.8 | 47.8 | 48.7 | 50.83 |
| 53.8 | 53.2 | 53.0 | 51.7 | 48.5 | 48.8 | 46.3 | 44.3 | 43.0 | 41.7 | 39.8 | 39.7 | 50.54 |
| 51.7 | 52.5 | 52.0 | 51.7 | 50.3 | 49.2 | 47.3 | 45.6 | 43.3 | 41.9 | 40.8 | 41.4 | 48.06 |
| 56.0 | 55.0 | 53.5 | 52.6 | 52.0 | 51.0 | 50.4 | 49.4 | 46.8 | 46.8 | 45.5 | 44.8 | 53.54 |
| 64.3 | 62.4 | 56.4 | 53.0 | 51.3 | 49.6 | 49.0 | 48.9 | 47.8 | 46.0 | 44.8 | 47.9 | 55.78 |
| 61.3 | 61.2 | 61.2 | 60.2 | 61.8 | 62.0 | 60.4 | 60.2 | 60.2 | 59.9 | 59.9 | 59.7 | 61.32 |
| 57.1 | 56.9 | 56.5 | 54.9 | 52.4 | 52.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.3 | 51.7 | 51.1 | 49.0 | 48.6 | 49.3 | 56.73 |
| 65.0 | 67.1 | 65.3 | 64.0 | 61.9 | 61.3 | 39.9 | 58.5 | 57.9 | 56.9 | 58.3 | 58.3 | 62.58 |
| 66.0 | 63.6 | 62.6 | 61.5 | 60.4 | 60.4 | 59.4 | 57.7 | 56.4 | 56.4 | 53.0 | 51.0 | 63.61 |
| 52.2 | 52.7 | 49.0 | 50.6 | 49.4 | 46.8 | 46.1 | 43.3 | 44.7 | 45.0 | 43.9 | 42.5 | 51.68 |
| 59.3 | 56.3 | 52.3 | 52.0 | 49.6 | 48.6 | 47.0 | 46.0 | 45.0 | 45.4 | 49.5 | 49.2 | 54.64 |
| 66.5 | 63.8 | 58.4 | 57.1 | 55.9 | 53.2 | 54.0 | 53.7 | 54.3 | 54.5 | 53.1 | 53.4 | 59.65 |
| 59.7 | 58.7 | 57.6 | 55.3 | 54.8 | 55.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.8 | 53.3 | 53.0 | 51.8 | 51.2 | 51.6 | 56.13 |
| 52.8 | 51.5 | 50.6 | 51.2 | 51.7 | 50.7 | 47.7 | 47.7 | 47.8 | 48.5 | 48.6 | 48.3 | 52.15 |
| 59.93 | 58.91 | 56.90 | 55.66 | 54.80 | 54.21 | 54.32 | 53.10 | 52.44 | 51.83 | 51.14 | 50.90 | 56.97 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| JULY. | 1 | 50.7 | 53.3 | 54.7 | 55.9 | 56.3 | 56.1 | 55.4 | 55.2 | 54.2 | 54.4 | 54.6 | 56.6 |
| | 2 | 54.6 | 54.7 | 56.3 | 57.3 | 58.5 | 62.2 | 61.6 | 62.0 | 62.4 | 60.0 | 60.0 | 60.4 |
| | 3 | 47.5 | 50.1 | 51.2 | 52.2 | 52.7 | 56.7 | 58.4 | 58.5 | 56.4 | 55.2 | 55.9 | 54.3 |
| | 4 | 50.8 | 50.9 | 53.3 | 53.2 | 54.9 | 55.1 | 59.5 | 61.6 | 60.2 | 61.3 | 60.3 | 61.8 |
| | 5 | 51.1 | 53.5 | 58.3 | 62.6 | 63.3 | 63.9 | 62.1 | 63.9 | 64.0 | 67.2 | 63.6 | 62.9 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | 62.6 | 67.5 | 69.1 | 70.0 | 71.4 | 72.3 | 72.1 | 70.7 | 68.3 | 71.0 | 68.6 | 68.7 |
| | 8 | 58.6 | 62.9 | 66.7 | 70.5 | 68.6 | 69.4 | 71.1 | 72.0 | 68.6 | 70.8 | 72.6 | 67.1 |
| | 9 | 56.5 | 57.3 | 55.5 | 56.9 | 57.4 | 57.6 | 59.4 | 62.1 | 62.0 | 60.4 | 62.6 | 64.3 |
| | 10 | 51.2 | 55.9 | 59.2 | 62.0 | 62.1 | 62.4 | 62.6 | 60.2 | 63.1 | 64.5 | 65.9 | 64.8 |
| | 11 | 56.9 | 62.1 | 63.6 | 68.9 | 68.9 | 71.8 | 74.3 | 74.1 | 75.3 | 77.3 | 75.3 | 74.1 |
| | 12 | 61.6 | 68.0 | 70.0 | 73.0 | 75.3 | 77.8 | 80.3 | 74.1 | 77.1 | 73.5 | 74.5 | 73.8 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | 69.3 | 69.8 | 70.7 | 74.3 | 74.1 | 73.8 | 74.7 | 74.7 | 75.0 | 75.6 | 76.1 | 75.3 |
| | 15 | 64.7 | 66.1 | 65.7 | 64.5 | 66.0 | 64.7 | 68.2 | 70.1 | 72.3 | 73.3 | 73.4 | 73.4 |
| | 16 | 61.3 | 69.7 | 69.7 | 71.8 | 74.9 | 77.3 | 78.3 | 77.9 | 78.0 | 74.3 | 75.6 | 76.5 |
| | 17 | 69.9 | 70.6 | 71.8 | 70.6 | 69.2 | 70.3 | 69.4 | 70.9 | 70.2 | 67.5 | 67.5 | 66.7 |
| | 18 | 56.2 | 58.1 | 58.5 | 59.0 | 59.4 | 58.9 | 62.8 | 68.5 | 65.9 | 68.3 | 68.9 | 69.6 |
| | 19 | 57.9 | 58.7 | 61.4 | 61.1 | 62.1 | 65.1 | 65.9 | 65.5 | 66.3 | 67.7 | 64.8 | 66.2 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | 69.0 | 72.5 | 72.7 | 73.7 | 74.9 | 76.0 | 76.3 | 76.8 | 75.3 | 74.8 | 76.8 | 75.6 |
| | 22 | 58.4 | 60.1 | 62.9 | 64.0 | 64.0 | 64.9 | 64.4 | 62.8 | 63.6 | 64.5 | 61.3 | 62.4 |
| | 23 | 54.9 | 54.3 | 54.1 | 53.4 | 55.1 | 54.7 | 54.5 | 57.7 | 61.2 | 61.4 | 60.2 | 56.7 |
| | 24 | 54.0 | 54.0 | 54.2 | 53.5 | 54.9 | 54.9 | 55.8 | 57.2 | 58.6 | 59.0 | 59.7 | 59.5 |
| | 25 | 53.7 | 58.7 | 61.6 | 58.9 | 63.5 | 62.8 | 63.9 | 63.6 | 64.5 | 63.6 | 63.6 | 62.1 |
| | 26 | 54.4 | 58.1 | 62.2 | 63.1 | 65.2 | 65.0 | 66.4 | 65.5 | 68.5 | 65.7 | 66.5 | 65.8 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | 57.1 | 57.1 | 57.4 | 58.4 | 58.4 | 59.3 | 57.7 | 57.2 | 57.2 | 57.4 | 58.4 | 57.1 |
| | 29 | 54.5 | 56.1 | 57.5 | 59.5 | 60.3 | 61.8 | 63.4 | 63.8 | 66.5 | 67.5 | 66.5 | 64.4 |
| | 30 | 54.2 | 54.5 | 53.7 | 54.2 | 53.8 | 53.5 | 54.4 | 56.1 | 54.9 | 55.3 | 55.1 | 52.8 |
| | 31 | 49.0 | 52.2 | 54.7 | 57.1 | 57.2 | 56.7 | 57.3 | 57.2 | 56.4 | 57.9 | 57.9 | 58.1 |
| Hourly Means | 57.03 | 59.51 | 60.97 | 62.20 | 63.03 | 63.87 | 64.80 | 65.13 | 65.40 | 65.53 | 65.40 | 64.83 | |
| AUGUST. | 1 | 54.4 | 56.1 | 58.9 | 61.1 | 60.2 | 63.3 | 61.2 | 62.6 | 64.5 | 62.1 | 62.4 | 61.6 |
| | 2 | 44.0 | 54.9 | 58.7 | 59.6 | 61.1 | 59.5 | 60.3 | 58.5 | 61.1 | 61.6 | 63.0 | 60.0 |
| | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 4 | 54.3 | 61.1 | 63.1 | 63.4 | 66.5 | 66.8 | 67.3 | 67.1 | 67.5 | 67.9 | 67.7 | 66.9 |
| | 5 | 56.9 | 61.6 | 64.0 | 64.8 | 66.3 | 67.8 | 69.6 | 70.2 | 71.7 | 70.0 | 69.8 | 69.6 |
| | 6 | 59.2 | 64.2 | 65.3 | 70.1 | 69.9 | 69.7 | 69.4 | 68.9 | 67.5 | 68.5 | 67.3 | 67.3 |
| | 7 | 57.1 | 61.9 | 67.1 | 69.6 | 70.1 | 71.3 | 72.1 | 72.1 | 74.2 | 72.7 | 72.8 | 71.1 |
| | 8 | 65.0 | 65.5 | 66.5 | 66.3 | 67.1 | 68.5 | 70.3 | 70.0 | 70.5 | 69.4 | 70.4 | 70.0 |
| | 9 | 64.3 | 68.0 | 71.3 | 73.5 | 73.1 | 73.8 | 74.1 | 75.1 | 74.9 | 74.8 | 75.9 | 75.9 |
| | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 11 | 65.9 | 67.1 | 67.5 | 67.7 | 69.8 | 71.9 | 72.3 | 69.9 | 70.1 | 70.2 | 70.5 | 71.9 |
| | 12 | 59.0 | 61.4 | 67.7 | 70.4 | 62.4 | 68.1 | 66.7 | 65.4 | 66.5 | 60.0 | 63.1 | 65.0 |
| | 13 | 55.1 | 58.3 | 59.1 | 61.1 | 62.6 | 63.8 | 63.8 | 64.3 | 66.0 | 65.7 | 68.5 | 67.0 |
| | 14 | 56.9 | 59.2 | 60.4 | 60.0 | 65.0 | 65.1 | 64.8 | 64.5 | 61.6 | 63.0 | 64.0 | 63.8 |
| | 15 | 55.7 | 58.7 | 62.8 | 63.2 | 63.9 | 62.1 | 62.6 | 62.3 | 63.8 | 63.9 | 64.2 | 62.6 |
| | 16 | 56.1 | 60.3 | 62.1 | 66.1 | 66.8 | 67.2 | 67.2 | 68.8 | 68.3 | 67.4 | 68.1 | 69.4 |
| | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 18 | 67.3 | 68.2 | 69.6 | 70.8 | 73.1 | 73.1 | 71.0 | 73.1 | 72.6 | 73.8 | 75.3 | 74.8 |
| | 19 | 64.9 | 63.8 | 64.1 | 64.5 | 65.3 | 66.8 | 68.1 | 68.3 | 68.9 | 68.0 | 68.7 | 69.4 |
| | 20 | 62.1 | 65.9 | 68.9 | 71.2 | 71.8 | 72.7 | 73.2 | 73.3 | 72.9 | 73.3 | 71.0 | 70.8 |
| | 21 | 63.2 | 69.2 | 70.3 | 71.7 | 71.9 | 72.1 | 72.9 | 72.9 | 72.6 | 72.4 | 71.0 | 70.9 |
| | 22 | 60.0 | 62.9 | 64.8 | 65.0 | 65.8 | 66.8 | 70.3 | 71.5 | 72.3 | 71.1 | 70.7 | 70.9 |
| | 23 | 59.5 | 61.6 | 66.5 | 70.2 | 70.7 | 71.7 | 71.6 | 71.5 | 72.3 | 73.1 | 71.3 | 71.8 |
| | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 25 | 53.6 | 58.5 | 62.6 | 62.2 | 61.6 | 67.1 | 66.3 | 65.2 | 65.9 | 65.9 | 66.5 | 67.0 |
| | 26 | 61.1 | 63.4 | 64.5 | 65.2 | 66.4 | 65.8 | 65.7 | 67.2 | 67.8 | 67.5 | 66.0 | 66.5 |
| | 27 | 59.7 | 60.4 | 60.3 | 59.9 | 59.2 | 60.0 | 60.2 | 62.1 | 61.8 | 63.2 | 61.9 | 62.3 |
| | 28 | 52.3 | 53.8 | 56.4 | 58.2 | 60.0 | 60.1 | 62.2 | 62.1 | 61.7 | 61.1 | 60.1 | 61.3 |
| | 29 | 57.7 | 62.6 | 64.5 | 67.1 | 67.7 | 69.6 | 69.8 | 69.4 | 70.6 | 71.3 | 71.5 | 70.8 |
| | 30 | 65.7 | 66.3 | 66.3 | 67.4 | 67.5 | 65.3 | 65.7 | 65.9 | 65.7 | 66.5 | 64.8 | 63.6 |
| | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 58.88 | 62.23 | 64.36 | 65.78 | 66.38 | 67.31 | 67.64 | 67.78 | 68.20 | 67.86 | 67.94 | 67.78 | |

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 56.9 | 57.1 | 57.3 | 56.9 | 56.6 | 56.6 | 56.9 | 55.3 | 55.4 | 54.7 | 53.8 | 54.6 | 55.40 |
| 58.4 | 58.1 | 57.4 | 56.6 | 57.1 | 56.2 | 52.7 | 49.1 | 46.9 | 44.7 | 44.6 | 46.8 | 55.78 |
| 54.3 | 51.4 | 50.7 | 50.5 | 50.8 | 51.0 | 50.6 | 49.7 | 49.3 | 48.3 | 48.3 | 48.0 | 52.15 |
| 62.1 | 58.5 | 55.1 | 52.8 | 51.4 | 50.8 | 49.8 | 49.0 | 47.9 | 45.6 | 45.1 | 45.8 | 54.03 |
| 61.3 | 59.8 | 58.5 | 58.1 | 57.6 | 57.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 60.0 | 59.0 | 58.7 | 59.0 | 59.0 | 59.2 | 60.15 |
| 68.9 | 67.5 | 66.3 | 64.0 | 63.8 | 60.2 | 60.1 | 58.4 | 54.4 | 54.4 | 55.3 | 56.5 | 65.05 |
| 61.6 | 62.8 | 61.1 | 61.7 | 58.8 | 58.4 | 58.6 | 57.7 | 54.2 | 53.6 | 50.8 | 52.3 | 62.90 |
| 63.6 | 59.1 | 53.8 | 52.2 | 50.5 | 50.5 | 50.3 | 48.8 | 47.9 | 47.0 | 46.4 | 47.1 | 55.35 |
| 64.4 | 60.0 | 57.3 | 55.6 | 54.6 | 53.5 | 53.4 | 52.3 | 52.1 | 51.3 | 51.1 | 50.5 | 57.90 |
| 69.2 | 67.3 | 66.2 | 64.5 | 62.8 | 62.6 | 62.4 | 61.6 | 61.3 | 59.7 | 60.0 | 56.3 | 66.50 |
| 77.1 | 72.1 | 70.5 | 68.0 | 70.3 | 70.2 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 70.9 | 70.6 | 70.7 | 70.5 | 69.4 | 68.9 | 72.00 |
| 73.5 | 73.1 | 71.3 | 70.6 | 68.5 | 66.3 | 64.5 | 62.8 | 62.2 | 61.6 | 60.4 | 60.2 | 69.90 |
| 73.1 | 70.7 | 65.9 | 63.8 | 64.0 | 63.8 | 61.4 | 60.0 | 61.5 | 61.3 | 58.7 | 61.2 | 66.15 |
| 74.1 | 74.8 | 73.3 | 71.5 | 69.8 | 68.9 | 69.7 | 69.0 | 70.2 | 69.4 | 69.0 | 67.5 | 72.15 |
| 66.7 | 65.0 | 64.0 | 60.2 | 62.8 | 62.1 | 59.9 | 58.5 | 56.7 | 54.0 | 53.5 | 53.2 | 64.55 |
| 69.1 | 67.3 | 61.6 | 56.5 | 53.8 | 53.2 | 52.5 | 51.4 | 51.7 | 51.7 | 52.5 | 54.4 | 59.55 |
| 64.1 | 63.0 | 62.6 | 61.1 | 59.8 | 61.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 71.5 | 70.7 | 69.1 | 68.8 | 66.5 | 64.3 | 64.40 |
| 68.0 | 72.3 | 67.8 | 67.5 | 64.5 | 62.4 | 62.1 | 59.3 | 58.5 | 56.3 | 55.9 | 56.1 | 68.50 |
| 61.2 | 60.3 | 60.3 | 58.9 | 58.5 | 57.1 | 56.9 | 57.1 | 57.4 | 56.2 | 55.9 | 54.9 | 60.30 |
| 54.6 | 56.3 | 54.9 | 58.5 | 54.0 | 53.9 | 53.0 | 51.5 | 52.0 | 52.0 | 52.7 | 52.0 | 55.15 |
| 60.2 | 59.7 | 55.4 | 54.7 | 56.4 | 54.5 | 53.0 | 51.0 | 52.2 | 52.0 | 51.0 | 51.2 | 55.25 |
| 63.1 | 62.4 | 59.1 | 57.7 | 55.4 | 54.0 | 53.5 | 52.5 | 52.4 | 52.4 | 52.2 | 50.0 | 58.55 |
| 66.2 | 64.0 | 62.8 | 62.3 | 59.1 | 58.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 55.5 | 55.1 | 55.7 | 56.3 | 57.1 | 55.6 | 61.45 |
| 56.9 | 55.5 | 54.2 | 54.2 | 51.7 | 49.8 | 49.0 | 49.9 | 50.7 | 52.7 | 52.7 | 53.0 | 55.10 |
| 64.7 | 63.1 | 63.5 | 62.8 | 61.4 | 60.0 | 58.5 | 55.9 | 55.0 | 57.3 | 57.7 | 57.0 | 60.75 |
| 53.0 | 52.4 | 51.0 | 50.1 | 49.5 | 48.8 | 48.3 | 48.3 | 48.3 | 47.5 | 46.9 | 46.6 | 51.80 |
| 56.9 | 56.9 | 55.1 | 54.0 | 54.4 | 53.5 | 51.7 | 49.6 | 48.1 | 50.0 | 51.1 | 51.8 | 54.35 |
| 63.80 | 62.60 | 60.60 | 59.43 | 58.43 | 57.63 | 57.27 | 56.07 | 55.57 | 55.10 | 54.70 | 54.60 | 60.58 |
| 60.0 | 59.5 | 57.4 | 54.0 | 52.4 | 51.1 | 52.0 | 45.8 | 45.6 | 43.9 | 44.3 | 44.6 | 55.79 |
| 61.1 | 56.5 | 54.0 | 54.6 | 52.2 | 52.4 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 57.9 | 56.3 | 54.7 | 53.7 | 53.5 | 51.0 | 56.67 |
| 68.9 | 66.8 | 63.3 | 58.9 | 58.6 | 55.4 | 54.2 | 52.5 | 53.1 | 52.7 | 52.7 | 51.7 | 61.18 |
| 70.2 | 68.1 | 65.1 | 62.1 | 60.3 | 60.0 | 58.3 | 56.3 | 56.5 | 56.5 | 55.4 | 55.2 | 63.60 |
| 68.9 | 67.5 | 63.4 | 61.1 | 59.1 | 58.7 | 57.7 | 57.4 | 56.7 | 55.7 | 55.5 | 55.2 | 63.51 |
| 70.1 | 67.8 | 64.7 | 64.0 | 62.6 | 62.4 | 63.1 | 63.2 | 63.6 | 62.2 | 62.3 | 64.5 | 66.90 |
| 69.9 | 69.0 | 67.5 | 66.0 | 64.7 | 64.3 | 64.3 | 64.5 | 64.3 | 64.0 | 64.3 | 62.6 | 66.87 |
| 72.5 | 69.4 | 67.1 | 65.3 | 64.0 | 63.9 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.4 | 66.5 | 65.8 | 65.9 | 65.5 | 66.0 | 69.71 |
| 66.2 | 60.4 | 59.0 | 58.5 | 59.5 | 60.4 | 59.7 | 56.9 | 59.5 | 58.4 | 56.6 | 57.5 | 64.47 |
| 61.1 | 57.7 | 56.2 | 54.7 | 53.3 | 52.8 | 52.8 | 52.8 | 52.3 | 51.8 | 51.6 | 51.4 | 59.34 |
| 66.0 | 62.9 | 62.6 | 60.4 | 60.4 | 62.3 | 60.0 | 58.9 | 57.7 | 54.6 | 57.5 | 56.6 | 61.47 |
| 60.3 | 59.7 | 58.5 | 54.6 | 52.6 | 53.4 | 53.0 | 54.7 | 54.5 | 54.4 | 54.7 | 54.0 | 58.86 |
| 62.7 | 59.5 | 58.3 | 57.7 | 56.6 | 56.4 | 55.7 | 54.0 | 54.1 | 54.2 | 54.4 | 54.4 | 59.32 |
| 68.3 | 62.4 | 60.4 | 59.5 | 58.7 | 57.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 66.0 | 66.5 | 67.1 | 67.7 | 67.7 | 67.6 | 64.89 |
| 73.1 | 68.3 | 67.2 | 66.7 | 66.2 | 65.7 | 65.5 | 65.0 | 64.8 | 63.7 | 63.1 | 63.8 | 68.99 |
| 66.8 | 65.0 | 63.6 | 63.6 | 62.0 | 62.2 | 62.6 | 62.8 | 62.2 | 62.0 | 62.2 | 63.4 | 64.97 |
| 69.8 | 67.9 | 65.3 | 66.0 | 65.3 | 64.7 | 64.3 | 63.2 | 63.4 | 62.7 | 61.6 | 60.0 | 67.55 |
| 70.1 | 69.0 | 69.0 | 69.1 | 67.2 | 64.5 | 61.6 | 60.4 | 60.1 | 61.5 | 61.2 | 61.2 | 67.75 |
| 69.2 | 67.5 | 64.3 | 61.6 | 59.3 | 58.5 | 58.4 | 59.7 | 60.2 | 59.0 | 58.7 | 58.6 | 64.46 |
| 70.7 | 66.7 | 65.0 | 67.0 | 65.0 | 64.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 53.5 | 55.6 | 56.1 | 54.6 | 52.3 | 51.6 | 64.75 |
| 68.5 | 68.8 | 68.5 | 65.8 | 66.1 | 62.3 | 61.4 | 58.9 | 59.3 | 58.3 | 58.3 | 58.2 | 63.20 |
| 65.7 | 64.8 | 62.4 | 62.1 | 61.9 | 60.3 | 61.1 | 60.2 | 61.1 | 60.4 | 62.2 | 59.3 | 63.69 |
| 62.6 | 61.7 | 59.9 | 60.6 | 58.5 | 56.6 | 55.9 | 55.3 | 53.8 | 54.4 | 54.7 | 52.5 | 59.06 |
| 59.2 | 56.9 | 56.6 | 56.1 | 57.1 | 57.3 | 58.1 | 58.5 | 58.6 | 58.2 | 54.9 | 54.9 | 58.15 |
| 69.9 | 68.9 | 64.5 | 66.9 | 67.0 | 67.7 | 67.5 | 67.1 | 65.1 | 64.9 | 65.1 | 65.3 | 67.35 |
| 60.3 | 58.7 | 58.4 | 57.1 | 55.9 | 55.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 52.8 | 51.6 | 51.6 | 50.8 | 50.7 | 51.5 | 60.24 |
| 66.62 | 64.28 | 62.55 | 61.31 | 60.25 | 59.64 | 59.38 | 58.64 | 58.53 | 57.93 | 57.73 | 57.41 | 63.18 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| SEPTEMBER. | 1 | 53.8 | 55.9 | 60.0 | 62.0 | 63.4 | 65.4 | 65.5 | 64.1 | 64.0 | 64.0 | 63.0 | 62.3 |
| | 2 | 62.1 | 64.3 | 65.9 | 64.5 | 60.4 | 63.4 | 65.7 | 65.1 | 68.2 | 68.2 | 65.5 | 64.1 |
| | 3 | 55.7 | 59.9 | 61.8 | 63.4 | 63.8 | 65.1 | 66.3 | 67.1 | 67.3 | 67.5 | 67.9 | 70.6 |
| | 4 | 60.1 | 60.3 | 60.0 | 62.8 | 65.7 | 66.9 | 68.1 | 65.7 | 65.3 | 68.4 | 65.8 | 63.8 |
| | 5 | 52.8 | 55.7 | 57.5 | 58.7 | 59.7 | 60.0 | 61.6 | 61.1 | 58.9 | 59.5 | 57.9 | 57.4 |
| | 6 | 45.5 | 52.0 | 52.8 | 53.4 | 55.9 | 59.9 | 58.0 | 58.7 | 59.4 | 57.9 | 59.5 | 59.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 41.0 | 44.8 | 46.3 | 47.8 | 49.5 | 50.5 | 51.7 | 51.0 | 52.4 | 52.2 | 53.4 | 52.2 |
| | 9 | 48.3 | 50.3 | 52.0 | 55.9 | 58.4 | 59.7 | 56.9 | 57.7 | 62.9 | 59.4 | 58.1 | 56.5 |
| | 10 | 48.1 | 51.0 | 53.0 | 53.8 | 56.7 | 53.5 | 51.8 | 54.3 | 54.0 | 54.5 | 54.0 | 53.9 |
| | 11 | 41.1 | 47.5 | 49.5 | 52.7 | 53.6 | 53.7 | 52.8 | 56.3 | 54.7 | 57.9 | 55.4 | 50.8 |
| | 12 | 39.6 | 44.4 | 46.9 | 50.9 | 50.3 | 50.8 | 51.6 | 50.5 | 50.7 | 49.9 | 50.3 | 50.5 |
| | 13 | 49.7 | 50.7 | 51.0 | 52.0 | 52.5 | 54.0 | 54.0 | 54.7 | 55.5 | 56.9 | 58.5 | 59.9 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 51.4 | 54.4 | 55.9 | 58.3 | 59.7 | 65.4 | 64.0 | 55.5 | 55.1 | 55.9 | 53.2 | 54.0 |
| | 16 | 37.8 | 43.3 | 45.7 | 45.9 | 47.7 | 48.1 | 50.9 | 50.4 | 51.0 | 49.6 | 52.5 | 53.7 |
| | 17 | 39.4 | 43.1 | 46.7 | 52.3 | 55.3 | 56.4 | 57.5 | 56.5 | 55.9 | 56.5 | 61.1 | 60.0 |
| | 18 | 59.7 | 61.3 | 61.6 | 64.7 | 66.5 | 67.8 | 67.2 | 66.0 | 63.1 | 63.1 | 59.7 | 61.9 |
| | 19 | 44.8 | 48.3 | 49.8 | 53.7 | 54.5 | 54.7 | 54.5 | 54.6 | 55.7 | 55.9 | 57.2 | 55.0 |
| | 20 | 52.5 | 52.8 | 54.2 | 56.3 | 55.3 | 54.0 | 54.3 | 55.9 | 57.4 | 55.1 | 55.1 | 54.8 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 34.5 | 38.0 | 41.9 | 44.9 | 47.8 | 48.6 | 48.0 | 47.3 | 50.1 | 48.1 | 49.8 | 48.3 |
| | 23 | 48.4 | 48.7 | 49.5 | 49.3 | 48.7 | 48.1 | 48.3 | 49.3 | 50.5 | 51.0 | 51.4 | 51.4 |
| | 24 | 47.1 | 48.1 | 48.8 | 48.1 | 49.1 | 49.1 | 49.3 | 48.8 | 47.7 | 48.1 | 48.1 | 47.3 |
| | 25 | 40.6 | 43.1 | 45.6 | 48.5 | 49.9 | 50.8 | 51.0 | 51.3 | 50.3 | 52.5 | 51.2 | 50.9 |
| | 26 | 46.9 | 48.2 | 49.6 | 50.3 | 50.5 | 50.0 | 51.4 | 52.4 | 55.5 | 56.9 | 56.3 | 56.4 |
| | 27 | 38.0 | 42.2 | 47.9 | 51.4 | 53.6 | 53.0 | 54.5 | 54.7 | 54.7 | 53.0 | 52.5 | 51.1 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 55.9 | 58.5 | 61.3 | 62.3 | 62.4 | 65.1 | 64.2 | 63.5 | 62.3 | 62.1 | 61.6 | 60.4 |
| | 30 | 58.2 | 58.1 | 58.4 | 58.6 | 59.1 | 59.0 | 60.2 | 61.6 | 61.1 | 60.2 | 58.5 | 57.9 |
| Hourly Means | 48.15 | 50.96 | 52.83 | 54.71 | 55.77 | 56.65 | 56.90 | 56.70 | 57.07 | 57.09 | 56.83 | 56.31 | |
| OCTOBER. | 1 | 50.5 | 50.5 | 50.1 | 53.9 | 51.6 | 53.3 | 52.2 | 52.6 | 52.5 | 55.2 | 54.8 | 53.6 |
| | 2 | 46.6 | 47.3 | 48.5 | 50.8 | 52.4 | 53.2 | 54.4 | 54.6 | 54.6 | 56.8 | 55.8 | 54.2 |
| | 3 | 53.2 | 52.2 | 51.1 | 50.5 | 50.9 | 50.7 | 51.3 | 51.7 | 52.5 | 53.2 | 51.9 | 51.2 |
| | 4 | 49.8 | 48.8 | 48.7 | 50.0 | 51.2 | 52.8 | 54.8 | 54.4 | 55.2 | 56.5 | 55.6 | 54.9 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | 32.4 | 35.7 | 38.8 | 40.0 | 41.1 | 41.4 | 43.5 | 44.3 | 44.8 | 45.1 | 45.2 | 43.5 |
| | 7 | 37.3 | 39.2 | 45.4 | 49.1 | 50.8 | 52.2 | 52.6 | 52.2 | 51.3 | 51.6 | 51.9 | 51.3 |
| | 8 | 47.2 | 48.8 | 50.7 | 52.0 | 54.7 | 54.8 | 54.6 | 54.8 | 55.0 | 54.4 | 54.2 | 54.8 |
| | 9 | 56.3 | 56.8 | 58.8 | 57.6 | 59.5 | 57.4 | 57.8 | 57.1 | 57.6 | 57.9 | 56.9 | 56.4 |
| | 10 | 51.8 | 53.2 | 54.8 | 55.2 | 54.2 | 56.0 | 56.2 | 56.7 | 56.5 | 56.4 | 56.5 | 55.8 |
| | 11 | 55.8 | 54.8 | 53.0 | 52.6 | 52.0 | 52.2 | 52.7 | 53.4 | 54.2 | 54.4 | 54.2 | 53.9 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | 37.4 | 37.5 | 41.2 | 42.7 | 43.2 | 46.9 | 47.5 | 48.9 | 50.0 | 48.7 | 48.1 | 47.1 |
| | 14 | 47.0 | 45.6 | 44.9 | 43.7 | 43.7 | 43.9 | 44.4 | 43.1 | 40.9 | 39.6 | 38.6 | 37.5 |
| | 15 | 26.9 | 28.1 | 32.2 | 34.9 | 35.7 | 36.4 | 36.5 | 36.9 | 37.8 | 35.4 | 35.8 | 34.4 |
| | 16 | 31.8 | 32.0 | 34.7 | 36.9 | 37.6 | 39.5 | 39.5 | 40.3 | 39.3 | 40.3 | 40.0 | 39.3 |
| | 17 | 31.0 | 34.4 | 35.7 | 38.7 | 43.9 | 44.9 | 44.7 | 44.7 | 46.6 | 47.0 | 46.4 | 46.0 |
| | 18 | 34.8 | 35.8 | 40.5 | 47.0 | 48.2 | 50.5 | 52.2 | 52.8 | 52.7 | 53.2 | 50.8 | 48.3 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | 37.7 | 37.9 | 37.6 | 38.2 | 38.5 | 40.5 | 39.5 | 39.8 | 39.6 | 35.4 | 33.9 | 32.8 |
| | 21 | 22.8 | 24.8 | 27.1 | 29.3 | 31.2 | 28.1 | 30.8 | 32.0 | 32.4 | 29.1 | 29.7 | 28.5 |
| | 22 | 20.6 | 21.3 | 26.6 | 31.4 | 32.4 | 32.7 | 34.3 | 35.1 | 35.6 | 36.6 | 36.5 | 35.6 |
| | 23 | 22.9 | 23.7 | 30.2 | 32.7 | 40.8 | 39.2 | 42.7 | 44.7 | 44.9 | 45.1 | 45.3 | 42.3 |
| | 24 | 40.9 | 41.2 | 42.2 | 44.7 | 46.6 | 47.1 | 48.2 | 48.7 | 47.2 | 47.2 | 48.1 | 43.5 |
| | 25 | 39.8 | 41.3 | 42.4 | 46.1 | 46.9 | 48.9 | 48.9 | 48.7 | 48.1 | 47.1 | 47.0 | 47.2 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | 37.5 | 37.4 | 42.8 | 49.5 | 50.0 | 51.5 | 53.2 | 54.2 | 54.5 | 53.2 | 51.7 | 51.2 |
| | 28 | 43.1 | 44.1 | 46.4 | 50.0 | 51.4 | 53.2 | 53.5 | 53.7 | 54.2 | 53.6 | 51.8 | 50.5 |
| | 29 | 35.3 | 35.8 | 40.0 | 46.6 | 48.5 | 51.0 | 51.7 | 52.9 | 52.5 | 52.6 | 53.4 | 51.2 |
| | 30 | 53.8 | 54.6 | 55.1 | 55.9 | 56.2 | 56.5 | 57.2 | 52.9 | 51.8 | 51.2 | 51.0 | 48.5 |
| | 31 | 48.0 | 48.5 | 49.9 | 50.1 | 51.0 | 51.9 | 52.7 | 52.4 | 53.7 | 53.6 | 53.8 | 53.4 |
| Hourly Means | 40.45 | 41.16 | 43.31 | 45.56 | 46.82 | 47.66 | 48.43 | 48.65 | 48.74 | 48.53 | 48.11 | 46.92 | |

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 61.6 | 61.4 | 62.8 | 62.7 | 62.7 | 61.9 | 61.9 | 62.8 | — | — | — | — | 62.06 |
| 63.4 | 63.0 | 62.4 | 61.4 | 59.3 | 59.0 | 58.8 | 58.5 | 57.4 | 56.7 | 56.4 | 52.3 | 61.92 |
| 69.0 | 62.6 | 61.1 | 58.4 | 58.7 | 59.1 | 58.7 | 56.9 | 54.7 | 56.4 | 55.5 | 58.9 | 61.93 |
| 61.8 | 59.3 | 58.2 | 56.6 | 54.9 | 53.5 | 50.8 | 53.0 | 53.2 | 53.0 | 52.8 | 52.4 | 59.68 |
| 57.3 | 55.9 | 54.7 | 52.3 | 50.9 | 51.0 | 51.4 | 51.1 | 49.7 | 50.3 | 49.2 | 49.1 | 55.15 |
| 57.3 | 59.9 | 60.2 | 61.2 | 61.5 | 62.1 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 49.0 | 44.4 | 43.5 | 41.9 | 39.3 | 40.6 | 53.87 |
| 50.8 | 45.9 | 44.4 | 44.4 | 44.2 | 44.0 | 47.3 | 51.4 | 51.4 | 49.7 | 47.7 | 47.3 | 48.39 |
| 54.9 | 53.5 | 52.9 | 52.5 | 51.0 | 51.0 | 49.8 | 49.3 | 48.3 | 47.3 | 47.6 | 47.6 | 53.41 |
| 52.2 | 51.0 | 49.8 | 47.3 | 46.3 | 46.3 | 46.0 | 44.0 | 44.0 | 44.6 | 40.6 | 40.6 | 49.64 |
| 47.5 | 45.3 | 45.4 | 46.0 | 43.6 | 43.2 | 43.1 | 41.7 | 42.1 | 41.1 | 40.8 | 39.7 | 47.73 |
| 49.1 | 45.4 | 45.1 | 44.9 | 44.4 | 43.1 | 46.7 | 45.8 | 47.7 | 48.9 | 49.6 | 49.7 | 47.78 |
| 61.4 | 62.3 | 61.7 | 60.2 | 51.0 | 52.8 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 49.7 | 49.5 | 52.2 | 51.2 | 51.2 | 50.8 | 54.31 |
| 50.7 | 49.4 | 45.8 | 48.1 | 46.2 | 45.7 | 44.5 | 46.6 | 47.6 | 46.8 | 46.1 | 39.3 | 51.65 |
| 50.9 | 48.3 | 46.7 | 45.3 | 43.9 | 42.7 | 41.5 | 41.2 | 40.8 | 41.7 | 39.0 | 37.8 | 45.68 |
| 59.7 | 59.1 | 58.0 | 59.1 | 58.3 | 60.2 | 58.9 | 59.3 | 58.5 | 59.1 | 58.1 | 58.5 | 56.15 |
| 55.3 | 53.0 | 51.5 | 51.1 | 50.2 | 49.6 | 48.8 | 48.3 | 47.1 | 47.3 | 45.8 | 45.7 | 56.51 |
| 54.6 | 51.6 | 51.4 | 52.0 | 52.2 | 52.2 | 52.2 | 52.2 | 52.6 | 52.6 | 52.5 | 52.2 | 52.79 |
| 54.9 | 50.3 | 50.3 | 49.1 | 47.7 | 46.0 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.7 | 36.6 | 36.6 | 36.3 | 36.1 | 34.3 | 48.90 |
| 47.2 | 46.1 | 47.3 | 47.8 | 48.3 | 49.2 | 48.6 | 47.5 | 46.8 | 47.4 | 47.0 | 49.3 | 46.66 |
| 49.5 | 47.7 | 47.8 | 48.3 | 48.7 | 48.7 | 46.3 | 47.7 | 47.6 | 47.0 | 46.2 | 45.6 | 48.57 |
| 47.3 | 46.0 | 45.9 | 45.5 | 44.0 | 44.1 | 44.3 | 43.5 | 43.2 | 42.7 | 41.9 | 40.1 | 46.17 |
| 48.7 | 46.1 | 46.9 | 47.5 | 46.8 | 46.6 | 47.0 | 45.3 | 45.5 | 46.0 | 46.7 | 45.7 | 47.69 |
| 54.2 | 51.7 | 48.5 | 48.8 | 48.1 | 47.5 | 46.8 | 44.4 | 41.7 | 40.6 | 40.4 | 39.1 | 48.97 |
| 50.3 | 49.8 | 47.2 | 47.5 | 48.7 | 47.5 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 56.7 | 55.5 | 57.6 | 57.2 | 57.3 | 56.7 | 51.61 |
| 60.2 | 60.0 | 59.7 | 59.7 | 59.5 | 59.1 | 58.7 | 58.3 | 58.5 | 58.5 | 58.3 | 58.6 | 60.36 |
| 58.3 | 58.3 | 55.1 | 55.3 | 54.9 | 54.2 | 55.1 | 52.7 | 51.2 | 52.6 | 51.0 | 51.5 | 56.71 |
| 54.93 | 53.19 | 52.34 | 52.04 | 51.00 | 50.78 | 50.01 | 49.52 | 48.78 | 48.68 | 47.88 | 47.34 | 52.80 |
| 47.8 | 46.9 | 45.5 | 45.8 | 43.3 | 43.0 | 42.0 | 40.8 | 42.2 | 42.0 | 44.6 | 46.1 | 48.37 |
| 53.4 | 53.7 | 52.7 | 51.4 | 51.7 | 52.0 | 51.2 | 53.6 | 54.2 | 54.6 | 54.5 | 54.4 | 52.78 |
| 51.2 | 51.2 | 51.0 | 51.2 | 51.1 | 50.9 | 51.0 | 51.2 | 51.0 | 51.0 | 51.2 | 50.0 | 51.35 |
| 54.2 | 54.2 | 52.2 | 51.3 | 51.2 | 51.3 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 34.3 | 32.7 | 32.1 | 31.8 | 32.2 | 31.4 | 47.57 |
| 40.5 | 38.2 | 37.0 | 36.4 | 36.3 | 36.6 | 35.5 | 33.2 | 34.2 | 36.7 | 36.0 | 36.3 | 38.86 |
| 51.0 | 50.5 | 50.2 | 49.9 | 50.0 | 50.0 | 50.3 | 48.2 | 48.5 | 47.5 | 47.9 | 47.8 | 49.03 |
| 55.2 | 55.5 | 55.5 | 55.7 | 56.0 | 56.0 | 56.2 | 56.8 | 57.6 | 58.2 | 58.7 | 56.8 | 54.76 |
| 53.4 | 51.4 | 49.5 | 50.4 | 52.1 | 51.6 | 50.6 | 49.7 | 48.2 | 47.5 | 46.4 | 50.7 | 53.82 |
| 52.6 | 56.7 | 57.2 | 58.2 | 58.2 | 58.2 | 57.6 | 56.0 | 55.8 | 55.4 | 55.1 | 55.8 | 55.84 |
| 53.2 | 52.9 | 52.8 | 50.0 | 49.0 | 47.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 37.4 | 36.4 | 35.5 | 33.9 | 37.4 | 38.8 | 48.68 |
| 47.7 | 47.9 | 47.9 | 47.5 | 48.3 | 49.7 | 48.3 | 49.4 | 50.2 | 50.0 | 50.4 | 50.5 | 46.96 |
| 36.9 | 36.7 | 36.6 | 36.0 | 36.3 | 36.7 | 34.8 | 34.0 | 32.6 | 31.5 | 31.0 | 28.3 | 38.51 |
| 33.4 | 30.0 | 31.0 | 30.4 | 29.6 | 29.7 | 29.9 | 28.7 | 28.8 | 28.7 | 30.6 | 31.8 | 32.23 |
| 34.3 | 33.8 | 32.2 | 32.4 | 32.2 | 32.4 | 32.4 | 30.4 | 28.9 | 30.4 | 30.2 | 30.7 | 34.65 |
| 41.3 | 40.0 | 41.9 | 39.6 | 35.7 | 34.6 | 33.7 | 33.3 | 32.9 | 32.4 | 32.4 | 33.1 | 38.95 |
| 47.1 | 47.0 | 46.6 | 47.0 | 46.6 | 44.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.8 | 40.0 | 40.0 | 39.2 | 39.3 | 38.0 | 45.13 |
| 30.9 | 29.1 | 28.3 | 27.5 | 26.6 | 25.4 | 23.7 | 23.0 | 22.6 | 22.8 | 22.3 | 22.1 | 31.49 |
| 27.6 | 25.8 | 25.8 | 26.6 | 27.1 | 25.5 | 23.2 | 22.3 | 22.3 | 22.3 | 22.0 | 18.7 | 26.50 |
| 34.1 | 28.6 | 27.6 | 27.5 | 26.3 | 26.5 | 25.3 | 25.3 | 24.4 | 23.6 | 23.7 | 23.2 | 28.95 |
| 43.7 | 43.8 | 44.2 | 42.1 | 41.6 | 39.6 | 40.2 | 39.9 | 40.3 | 41.0 | 41.0 | 40.8 | 39.70 |
| 39.6 | 38.1 | 37.3 | 38.1 | 39.0 | 38.5 | 38.2 | 38.2 | 39.3 | 39.6 | 38.8 | 38.2 | 42.02 |
| 45.8 | 45.9 | 45.3 | 45.1 | 45.0 | 44.7 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 40.8 | 40.8 | 40.6 | 39.3 | 38.4 | 38.1 | 44.26 |
| 48.5 | 48.6 | 44.3 | 43.9 | 42.7 | 42.0 | 41.7 | 41.4 | 40.8 | 40.6 | 39.0 | 40.1 | 45.85 |
| 47.1 | 45.1 | 43.3 | 46.1 | 44.8 | 44.9 | 43.2 | 41.0 | 38.1 | 36.6 | 35.5 | 36.3 | 46.15 |
| 50.7 | 49.8 | 49.2 | 49.1 | 48.7 | 53.0 | 55.4 | 54.9 | 55.2 | 55.4 | 55.5 | 55.0 | 50.14 |
| 48.1 | 47.0 | 46.6 | 46.8 | 46.8 | 46.6 | 46.6 | 47.9 | 47.6 | 47.5 | 47.7 | 47.8 | 50.49 |
| 53.4 | 53.4 | 53.0 | 52.7 | 53.5 | 54.4 | 52.7 | 52.8 | 51.2 | 50.2 | 47.7 | 47.2 | 51.72 |
| 45.29 | 44.51 | 43.88 | 43.66 | 43.32 | 43.19 | 41.37 | 40.81 | 40.59 | 40.36 | 40.35 | 40.30 | 44.26 |

| WET THERMOMETER. | | | | | | | | | | | | | |
|-------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Hours of Mean Göttingen Time. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| NOVEMBER. | 1 | 45.8 | 45.5 | 46.4 | 48.3 | 51.2 | 50.3 | 51.4 | 50.9 | 49.2 | 47.0 | 46.3 | 45.1 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | 37.2 | 37.4 | 38.2 | 39.3 | 40.5 | 47.5 | 47.3 | 48.0 | 46.0 | 44.2 | 42.7 | 41.4 |
| | 4 | 38.2 | 38.3 | 38.5 | 40.8 | 41.7 | 40.8 | 41.9 | 41.4 | 41.3 | 41.3 | 40.5 | 40.6 |
| | 5 | 38.4 | 37.8 | 38.0 | 37.8 | 38.5 | 41.2 | 41.4 | 41.4 | 39.5 | 39.6 | 40.2 | 40.0 |
| | 6 | 39.8 | 39.6 | 40.8 | 41.7 | 42.4 | 43.2 | 42.9 | 43.9 | 43.7 | 44.1 | 43.1 | 41.7 |
| | 7 | 36.4 | 36.3 | 35.9 | 37.4 | 38.1 | 38.2 | 39.0 | 38.5 | 39.3 | 39.3 | 39.2 | 39.0 |
| | 8 | 35.9 | 35.9 | 35.7 | 35.4 | 34.9 | 34.0 | 33.1 | 33.3 | 32.6 | 33.1 | 32.9 | 32.4 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | 32.9 | 34.1 | 36.1 | 37.0 | 38.1 | 39.9 | 40.8 | 41.9 | 43.4 | 42.3 | 42.2 | 39.4 |
| | 11 | 36.1 | 36.1 | 36.3 | 35.4 | 35.6 | 36.3 | 37.9 | 38.1 | 39.6 | 39.6 | 39.6 | 38.2 |
| | 12 | 28.7 | 29.6 | 32.2 | 35.1 | 35.6 | 37.3 | 36.3 | 37.5 | 37.6 | 36.9 | 36.5 | 35.1 |
| | 13 | 34.4 | 35.1 | 36.8 | 41.9 | 43.7 | 46.4 | 46.2 | 46.9 | 46.8 | 47.5 | 46.0 | 45.1 |
| | 14 | 37.0 | 38.6 | 39.8 | 41.5 | 41.5 | 44.4 | 43.7 | 43.7 | 43.9 | 42.1 | 42.2 | 41.2 |
| | 15 | 30.2 | 30.4 | 31.9 | 34.3 | 36.7 | 39.8 | 38.8 | 39.3 | 40.3 | 41.2 | 40.2 | 38.8 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | 37.1 | 38.8 | 40.0 | 41.7 | 42.7 | 44.3 | 45.6 | 45.3 | 45.6 | 47.0 | 47.4 | 47.0 |
| | 18 | 46.9 | 47.1 | 47.8 | 47.7 | 48.8 | 51.6 | 51.0 | 51.4 | 50.5 | 50.7 | 50.8 | 50.8 |
| | 19 | 43.0 | 40.6 | 40.0 | 40.1 | 40.2 | 39.8 | 40.2 | 40.3 | 39.9 | 39.3 | 38.7 | 38.6 |
| | 20 | 36.6 | 36.3 | 37.9 | 42.2 | 45.0 | 46.8 | 48.2 | 47.6 | 48.0 | 47.1 | 45.3 | 46.4 |
| | 21 | 31.2 | 29.9 | 30.7 | 31.7 | 31.9 | 33.6 | 32.7 | 31.5 | 32.0 | 32.2 | 30.5 | 32.4 |
| | 22 | 28.5 | 29.6 | 30.7 | 31.4 | 32.2 | 32.2 | 32.2 | 32.4 | 32.7 | 32.8 | 33.2 | 32.7 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | 20.8 | 20.6 | 20.6 | 22.1 | 24.2 | 25.2 | 25.4 | 24.8 | 25.7 | 23.6 | 22.5 | 21.5 |
| | 25 | 31.9 | 31.8 | 32.6 | 34.1 | 33.3 | 35.5 | 35.3 | 34.6 | 34.7 | 34.0 | 33.1 | 32.2 |
| | 26 | 31.2 | 31.2 | 31.0 | 30.2 | 30.2 | 30.0 | 30.2 | 30.6 | 30.9 | 31.2 | 31.7 | 31.2 |
| | 27 | 21.6 | 20.7 | 19.6 | 18.9 | 18.5 | 18.5 | 20.4 | 20.8 | 21.0 | 20.6 | 19.8 | 20.3 |
| | 28 | 6.9 | 6.5 | 6.5 | 9.5 | 11.2 | 13.7 | 15.2 | 15.7 | 16.5 | 17.6 | 15.8 | 15.2 |
| | 29 | 13.9 | 14.9 | 15.8 | 16.5 | 17.5 | 18.8 | 20.8 | 20.9 | 20.9 | 20.9 | 20.4 | 22.3 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Hourly Means | 32.82 | 32.91 | 33.59 | 34.88 | 35.77 | 37.17 | 37.52 | 37.63 | 37.66 | 37.40 | 36.84 | 36.34 |
| DECEMBER. | 1 | 18.5 | 18.5 | 18.5 | 19.0 | 19.8 | 19.7 | 20.6 | 21.6 | 20.6 | 20.9 | 19.4 | 19.4 |
| | 2 | 10.1 | 8.9 | 10.6 | 11.5 | 14.7 | 15.3 | 15.6 | 16.5 | 17.0 | 17.0 | 15.1 | 9.7 |
| | 3 | 8.9 | 9.4 | 10.8 | 13.1 | 13.7 | 14.2 | 15.1 | 17.0 | 17.9 | 18.0 | 19.6 | 20.4 |
| | 4 | 26.1 | 26.1 | 27.1 | 27.9 | 29.9 | 30.7 | 27.6 | 27.6 | 28.7 | 28.8 | 27.6 | 26.5 |
| | 5 | 20.1 | 19.7 | 19.9 | 20.8 | 22.9 | 23.2 | 24.0 | 24.8 | 24.6 | 22.5 | 22.1 | 21.5 |
| | 6 | 21.1 | 20.6 | 22.5 | 23.7 | 24.6 | 24.6 | 24.4 | 24.7 | 24.4 | 24.4 | 23.5 | 21.7 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | 24.4 | 24.4 | 25.0 | 26.3 | 27.3 | 29.6 | 30.3 | 30.7 | 31.2 | 31.9 | 31.2 | 29.7 |
| | 9 | 29.3 | 29.1 | 29.9 | 30.4 | 30.3 | 30.8 | 30.7 | 31.2 | 31.6 | 31.3 | 30.9 | 31.1 |
| | 10 | 14.9 | 14.9 | 12.9 | 15.6 | 15.0 | 15.7 | 15.6 | 15.4 | 16.0 | 16.2 | 15.4 | 15.1 |
| | 11 | 4.1 | 3.4 | 2.5 | 1.9 | 4.0 | 5.4 | 6.9 | 8.3 | 9.5 | 8.7 | 7.1 | 6.2 |
| | 12 | -2.3 | -1.9 | -1.1 | 4.7 | 9.5 | 12.1 | 13.9 | 16.0 | 18.7 | 19.4 | 18.9 | 18.3 |
| | 13 | 15.8 | 13.1 | 15.4 | 23.6 | 27.1 | 27.8 | 27.9 | 28.5 | 29.7 | 29.9 | 29.7 | 30.4 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | 32.2 | 31.4 | 32.0 | 32.3 | 31.2 | 31.2 | 29.7 | 28.9 | 29.6 | 28.3 | 29.7 | 29.5 |
| | 16 | 22.2 | 21.3 | 24.2 | 25.7 | 28.2 | 29.7 | 31.2 | 32.0 | 32.4 | 32.5 | 32.4 | 30.6 |
| | 17 | 22.9 | 29.1 | 29.8 | 31.4 | 32.4 | 32.4 | 32.2 | 34.1 | 34.4 | 34.7 | 35.1 | 35.1 |
| | 18 | 31.4 | 30.2 | 31.2 | 31.6 | 31.7 | 31.6 | 31.6 | 31.4 | 32.4 | 31.6 | 31.0 | 30.7 |
| | 19 | 4.7 | 6.3 | 7.5 | 10.3 | 12.2 | 12.4 | 12.2 | 12.0 | 11.8 | 11.4 | 11.3 | 12.1 |
| | 20 | 7.3 | 7.9 | 8.6 | 9.1 | 10.3 | 12.1 | 12.7 | 13.9 | 14.5 | 14.0 | 14.0 | 14.0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | 10.1 | 10.2 | 10.5 | 12.1 | 15.4 | 17.2 | 18.7 | 17.9 | 18.7 | 19.2 | 19.0 | 16.0 |
| | 23 | 12.9 | 14.9 | 15.8 | 16.7 | 18.8 | 21.5 | 22.5 | 24.6 | 23.6 | 23.6 | 22.8 | 19.9 |
| | 24 | 18.9 | 17.9 | 18.3 | 19.2 | 21.1 | 23.0 | 25.2 | 25.5 | 26.6 | 26.1 | 25.6 | 25.2 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | 15.6 | 14.7 | 13.2 | 14.1 | 15.3 | 15.3 | 16.0 | 19.3 | 19.8 | 20.4 | 19.6 | 14.2 |
| | 27 | 15.7 | 15.5 | 15.3 | 18.7 | 20.8 | 22.7 | 24.8 | 25.9 | 27.1 | 26.1 | 25.9 | 25.4 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | 32.9 | 33.0 | 33.8 | 33.9 | 33.7 | 34.3 | 34.9 | 34.7 | 34.9 | 38.4 | 34.3 | 32.6 |
| | 30 | 27.5 | 26.3 | 26.5 | 26.9 | 25.4 | 25.6 | 27.3 | 26.1 | 27.1 | 26.5 | 24.5 | 22.3 |
| | 31 ^a | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | 17.81 | 17.80 | 18.43 | 20.02 | 21.41 | 22.32 | 22.86 | 23.54 | 24.11 | 24.11 | 23.43 | 22.30 | |

^a Wet Thermometer put up for comparison with Standard Thermometer.

| WET THERMOMETER. | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 44.2 | 42.7 | 38.2 | 38.7 | 37.3 | 37.3 | — | — | — | — | — | — | 43.06 |
| 41.3 | 41.6 | 40.8 | 40.4 | 40.6 | 40.2 | 35.6 | 35.1 | 35.0 | 37.4 | 37.5 | 37.0 | 40.78 |
| 40.2 | 39.2 | 39.2 | 38.5 | 38.2 | 37.9 | 39.7 | 36.8 | 35.7 | 36.7 | 37.5 | 37.7 | 39.29 |
| 40.6 | 39.8 | 38.8 | 38.5 | 38.2 | 39.3 | 37.5 | 37.2 | 37.2 | 37.4 | 37.5 | 37.6 | 39.48 |
| 39.8 | 39.5 | 38.8 | 38.3 | 38.7 | 39.3 | 39.6 | 39.7 | 39.6 | 39.8 | 39.8 | 40.0 | 40.40 |
| 39.4 | 39.3 | 39.2 | 39.2 | 39.2 | 39.1 | 39.8 | 38.8 | 38.8 | 37.9 | 37.1 | 36.0 | 38.38 |
| 32.1 | 32.1 | 32.1 | 32.6 | 33.4 | 32.8 | 39.2 | 39.0 | 38.8 | 38.4 | 37.1 | 36.6 | 33.51 |
| — | — | — | — | — | — | — | — | — | — | — | — | 37.18 |
| 36.3 | 33.4 | 32.4 | 35.3 | 35.5 | 35.9 | 33.3 | 32.5 | 32.5 | 33.5 | 34.1 | 34.0 | 36.28 |
| 38.4 | 37.6 | 36.6 | 37.4 | 35.7 | 35.5 | 35.6 | 36.3 | 35.9 | 35.9 | 35.5 | 36.1 | 33.66 |
| 33.9 | 32.7 | 31.2 | 31.7 | 29.3 | 30.4 | 34.3 | 33.5 | 33.4 | 33.1 | 33.3 | 29.8 | 42.13 |
| 44.2 | 43.2 | 42.5 | 42.2 | 42.5 | 43.2 | 33.3 | 33.5 | 33.4 | 32.4 | 33.5 | 34.2 | 39.00 |
| 40.2 | 40.8 | 40.8 | 39.0 | 36.8 | 36.8 | 41.2 | 40.8 | 40.8 | 38.1 | 36.3 | 37.2 | 37.39 |
| 39.4 | 39.8 | 40.2 | 39.2 | 40.2 | 40.8 | 35.7 | 34.5 | 33.1 | 33.5 | 33.1 | 32.2 | 45.71 |
| — | — | — | — | — | — | — | — | — | — | — | — | 48.92 |
| 47.0 | 46.8 | 47.1 | 47.9 | 49.0 | 48.5 | 36.1 | 36.2 | 36.1 | 36.1 | 35.7 | 35.6 | 37.08 |
| 51.2 | 51.4 | 51.0 | 50.5 | 50.0 | 48.5 | 49.0 | 48.5 | 48.6 | 47.5 | 47.7 | 47.0 | 40.92 |
| 36.8 | 37.3 | 36.4 | 32.4 | 30.6 | 29.6 | 48.5 | 48.5 | 47.8 | 46.0 | 45.2 | 44.4 | 30.50 |
| 41.4 | 40.6 | 40.5 | 39.9 | 39.9 | 38.2 | 31.2 | 32.4 | 34.7 | 34.6 | 36.7 | 36.6 | 33.32 |
| 32.6 | 32.4 | 32.1 | 29.6 | 26.3 | 27.9 | 38.2 | 38.2 | 36.6 | 35.7 | 35.5 | 32.4 | 22.97 |
| 33.7 | 34.9 | 35.3 | 35.7 | 36.1 | 36.5 | 29.3 | 28.6 | 28.8 | 28.8 | 27.9 | 27.4 | 31.88 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29.59 |
| 20.6 | 20.2 | 22.0 | 23.2 | 22.6 | 22.5 | 24.7 | 22.5 | 22.7 | 22.9 | 20.8 | 21.3 | 16.61 |
| 32.3 | 32.1 | 31.2 | 31.2 | 30.2 | 31.9 | 22.5 | 20.4 | 20.6 | 22.6 | 24.2 | 24.2 | 12.98 |
| 30.6 | 30.3 | 30.2 | 30.4 | 30.5 | 30.5 | 20.6 | 20.6 | 20.6 | 22.6 | 24.2 | 24.2 | 18.97 |
| 19.9 | 18.5 | 17.8 | 14.9 | 13.9 | 12.0 | 27.5 | 27.7 | 27.9 | 28.8 | 29.9 | 31.4 | 34.68 |
| 16.0 | 16.7 | 17.5 | 16.2 | 13.9 | 11.3 | 29.9 | 27.5 | 26.5 | 26.5 | 24.7 | 22.9 | 21.80 |
| 21.9 | 22.3 | 22.5 | 20.8 | 20.6 | 21.0 | 11.0 | 10.4 | 11.3 | 10.4 | 9.4 | 8.4 | 22.73 |
| — | — | — | — | — | — | 9.9 | 11.6 | 11.8 | 11.5 | 11.8 | 12.9 | 28.44 |
| — | — | — | — | — | — | 14.7 | 15.8 | 17.7 | 18.0 | 18.1 | 18.2 | 28.21 |
| 35.76 | 35.41 | 34.98 | 34.55 | 33.97 | 33.88 | 32.72 | 32.20 | 32.23 | 32.17 | 31.96 | 31.93 | 27.19 |
| 18.8 | 17.7 | 17.5 | 15.1 | 15.6 | 16.0 | — | — | — | — | — | — | 33.18 |
| 2.9 | 2.1 | 0.5 | 2.0 | 0.4 | 5.9 | 16.5 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 25.92 |
| 20.6 | 21.0 | 22.3 | 22.5 | 22.7 | 23.4 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 9.18 |
| 26.1 | 25.5 | 24.5 | 25.2 | 25.2 | 24.4 | 16.5 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 11.11 |
| 21.5 | 21.3 | 20.2 | 19.3 | 20.8 | 21.5 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 13.68 |
| 21.8 | 21.3 | 22.3 | 19.4 | 19.4 | 19.9 | 16.5 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 19.94 |
| — | — | — | — | — | — | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 20.96 |
| 29.6 | 29.3 | 28.8 | 28.9 | 28.8 | 29.1 | 16.5 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 14.22 |
| 31.1 | 30.5 | 30.2 | 29.6 | 28.5 | 26.6 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 25.63 |
| 15.1 | 14.5 | 14.2 | 14.9 | 14.7 | 13.7 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 32.53 |
| 5.8 | 5.3 | 5.6 | 5.5 | 5.7 | 3.7 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | 22.10 |
| 18.3 | 17.5 | 17.0 | 16.9 | 18.2 | 17.9 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 30.2 | 30.2 | 30.0 | 30.2 | 30.8 | 30.7 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| — | — | — | — | — | — | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 29.1 | 28.6 | 28.2 | 27.3 | 25.6 | 25.9 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 29.3 | 29.1 | 27.9 | 27.3 | 27.6 | 26.1 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 34.3 | 34.3 | 34.6 | 33.6 | 34.9 | 34.4 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 30.4 | 30.7 | 30.7 | 30.2 | 31.0 | 24.9 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 10.8 | 10.3 | 9.9 | 9.4 | 9.4 | 8.9 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 13.7 | 13.6 | 12.5 | 10.1 | 8.5 | 9.2 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| — | — | — | — | — | — | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 13.0 | 91.6 | 11.2 | 12.2 | 12.4 | 12.3 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 20.6 | 20.7 | 20.4 | 20.6 | 20.2 | 20.0 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 24.8 | 25.0 | 25.7 | 24.4 | 24.0 | 24.2 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| — | — | — | — | — | — | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 13.1 | 9.0 | 7.4 | 8.5 | 13.9 | 12.5 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 25.2 | 26.1 | 26.9 | 26.7 | 26.2 | 26.9 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| — | — | — | — | — | — | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 31.7 | 31.1 | 32.3 | 31.9 | 32.2 | 32.2 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 22.1 | 21.7 | 21.7 | 21.6 | 21.6 | 22.0 | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| — | — | — | — | — | — | 16.2 | 16.2 | 16.4 | 16.6 | 16.2 | 12.1 | — |
| 21.56 | 21.12 | 20.90 | 20.37 | 20.73 | 20.49 | 19.98 | 19.20 | 18.34 | 18.27 | 18.40 | 18.23 | 20.66 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|----------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | JANUARY. | 1 | 66 | 71 | 72 | 68 | 64 | 70 | 62 | 64 | 61 | 67 | 73 | 69 |
| | | 2 | 79 | 76 | 79 | 77 | 77 | 74 | 73 | 78 | 82 | 71 | 78 | 87 |
| | | 3 | 88 | 95 | 89 | 93 | 91 | 96 | 96 | 96 | 96 | 96 | 98 | 98 |
| | | 4 | 69 | 78 | 72 | 72 | 73 | 64 | 61 | 52 | 53 | 54 | 82 | 93 |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 6 | 82 | 82 | 82 | 81 | 84 | 85 | 85 | 89 | 87 | 87 | 86 | 82 |
| | | 7 | 89 | 94 | 95 | 93 | 90 | 97 | 100 | 98 | 97 | 95 | 79 | 76 |
| | | 8 | 76 | 79 | 77 | 85 | 86 | 88 | 92 | 82 | 83 | 81 | 68 | 72 |
| | | 9 | 91 | 86 | 93 | 90 | 88 | 78 | 81 | 86 | 78 | 71 | 73 | 63 |
| | | 10 | 81 | 76 | 80 | 81 | 84 | 79 | 79 | 77 | 76 | 79 | 77 | 78 |
| | | 11 | 85 | 88 | 84 | 89 | 92 | 88 | 84 | 82 | 82 | 77 | 76 | 77 |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 13 | 94 | 94 | 94 | 92 | 92 | 75 | 97 | 89 | 82 | 77 | 80 | 82 |
| | | 14 | 78 | 77 | 84 | 91 | 87 | 83 | 84 | 87 | 80 | 80 | 75 | 74 |
| | | 15 | 89 | 89 | 84 | 90 | 94 | 91 | 95 | 91 | 91 | 91 | 88 | 88 |
| | | 16 | 91 | 88 | 88 | 90 | 89 | 97 | 94 | 98 | 98 | 92 | 93 | 93 |
| | | 17 | 92 | 88 | 88 | 88 | 71 | 96 | 97 | 94 | 97 | 92 | 93 | 86 |
| | | 18 | 75 | 74 | 83 | 87 | 79 | 83 | 87 | 89 | 77 | 71 | 75 | 73 |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 20 | 87 | 84 | 87 | 88 | 87 | 90 | 90 | 93 | 89 | 87 | 87 | 88 |
| | | 21 | 90 | 89 | 92 | 95 | 96 | 94 | 96 | 96 | 90 | 91 | 95 | 98 |
| | | 22 | 72 | 77 | 79 | 82 | 88 | 78 | 75 | 73 | 72 | 73 | 58 | 100 |
| | | 23 | 92 | 91 | 87 | 95 | 95 | 88 | 70 | 78 | 81 | 80 | 78 | 79 |
| | | 24 | 93 | 95 | 94 | 98 | 95 | 98 | 96 | 95 | 94 | 95 | 91 | 90 |
| | | 25 | 91 | 82 | 76 | 77 | 87 | 75 | 76 | 67 | 65 | 68 | 69 | 76 |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 27 | 92 | 95 | 92 | 93 | 90 | 67 | 65 | 75 | 73 | 72 | 73 | 74 |
| | | 28 | 94 | 85 | 83 | 80 | 89 | 88 | 90 | 93 | 95 | 93 | 92 | 89 |
| | | 29 | 70 | 78 | 86 | 84 | 83 | 81 | 75 | 84 | 70 | 69 | 54 | 68 |
| | | 30 | 73 | 70 | 77 | 69 | 85 | 83 | 83 | 87 | 87 | 76 | 74 | 69 |
| | | 31 | 84 | 79 | 79 | 90 | 90 | 79 | 72 | 63 | 63 | 66 | 62 | 70 |
| | | Hourly Means | | 84 | 84 | 84 | 86 | 86 | 84 | 83 | 84 | 81 | 80 | 79 |
| Tension of the Vapour. | JANUARY. | 1 | .153 | .156 | .159 | .185 | .143 | .163 | .151 | .156 | .140 | .153 | .151 | .135 |
| | | 2 | .119 | .116 | .119 | .121 | .130 | .128 | .140 | .148 | .142 | .119 | .128 | .133 |
| | | 3 | .164 | .175 | .173 | .189 | .189 | .201 | .208 | .208 | .213 | .221 | .237 | .234 |
| | | 4 | .135 | .146 | .133 | .141 | .144 | .141 | .138 | .119 | .125 | .126 | .171 | .185 |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 6 | .084 | .082 | .081 | .080 | .082 | .086 | .086 | .097 | .097 | .097 | .094 | .086 |
| | | 7 | .108 | .122 | .128 | .098 | .105 | .113 | .119 | .118 | .127 | .125 | .117 | .113 |
| | | 8 | .100 | .106 | .105 | .119 | .130 | .139 | .152 | .140 | .141 | .142 | .158 | .117 |
| | | 9 | .169 | .166 | .167 | .175 | .175 | .173 | .184 | .185 | .173 | .163 | .166 | .140 |
| | | 10 | .126 | .121 | .126 | .132 | .146 | .136 | .138 | .139 | .146 | .140 | .132 | .132 |
| | | 11 | .114 | .117 | .113 | .123 | .136 | .137 | .138 | .135 | .136 | .125 | .121 | .117 |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 13 | .121 | .097 | .097 | .090 | .093 | .078 | .097 | .092 | .087 | .085 | .087 | .087 |
| | | 14 | .073 | .070 | .075 | .081 | .079 | .074 | .078 | .087 | .080 | .082 | .076 | .071 |
| | | 15 | .111 | .112 | .108 | .122 | .137 | .143 | .159 | .158 | .162 | .162 | .153 | .148 |
| | | 16 | .152 | .143 | .138 | .137 | .134 | .142 | .138 | .137 | .138 | .126 | .126 | .120 |
| | | 17 | .098 | .097 | .097 | .098 | .078 | .112 | .114 | .116 | .121 | .111 | .106 | .092 |
| | | 18 | .083 | .079 | .088 | .097 | .090 | .095 | .102 | .099 | .086 | .076 | .074 | .067 |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 20 | .101 | .097 | .102 | .105 | .113 | .122 | .128 | .137 | .140 | .138 | .138 | .136 |
| | | 21 | .142 | .140 | .152 | .150 | .151 | .149 | .162 | .170 | .168 | .169 | .166 | .173 |
| | | 22 | .125 | .131 | .133 | .140 | .157 | .152 | .148 | .148 | .151 | .148 | .124 | .174 |
| | | 23 | .093 | .092 | .106 | .155 | .166 | .159 | .141 | .156 | .161 | .159 | .158 | .159 |
| | | 24 | .181 | .189 | .186 | .202 | .199 | .208 | .206 | .207 | .201 | .200 | .188 | .174 |
| | | 25 | .136 | .111 | .100 | .097 | .107 | .103 | .111 | .101 | .106 | .109 | .105 | .105 |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 27 | .101 | .107 | .110 | .125 | .155 | .138 | .136 | .160 | .155 | .154 | .155 | .153 |
| | | 28 | .197 | .172 | .173 | .175 | .198 | .203 | .205 | .213 | .211 | .216 | .208 | .211 |
| | | 29 | .113 | .122 | .130 | .130 | .137 | .140 | .129 | .145 | .113 | .103 | .080 | .094 |
| | | 30 | .068 | .065 | .068 | .063 | .086 | .087 | .090 | .098 | .099 | .084 | .079 | .069 |
| | | 31 | .076 | .065 | .063 | .075 | .076 | .063 | .058 | .050 | .050 | .055 | .048 | .049 |
| | | Hourly Means | | .120 | .118 | .120 | .126 | .131 | .133 | .135 | .138 | .136 | .133 | .131 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 64 | 63 | 72 | 89 | 72 | 80 | 81 | 81 | 80 | 80 | 76 | 67 | 71 |
| 87 | 87 | 84 | 87 | 84 | 84 | 85 | 85 | 80 | 79 | 78 | 86 | 81 |
| 97 | 97 | 74 | 74 | 84 | 82 | 79 | 82 | 82 | 83 | 78 | 73 | 88 |
| 93 | 81 | 76 | 64 | 61 | 60 | — | — | — | — | — | — | 73 |
| — | — | — | — | — | — | 90 | 72 | 78 | 77 | 81 | 91 | 86 |
| 82 | 81 | 81 | 81 | 84 | 84 | 91 | 94 | 92 | 94 | 97 | 84 | 86 |
| 75 | 75 | 82 | 82 | 86 | 78 | 74 | 78 | 84 | 88 | 78 | 78 | 86 |
| 81 | 78 | 84 | 78 | 81 | 88 | 97 | 93 | 88 | 89 | 88 | 88 | 83 |
| 75 | 91 | 70 | 80 | 85 | 79 | 82 | 84 | 85 | 85 | 86 | 76 | 82 |
| 77 | 77 | 77 | 79 | 81 | 80 | 85 | 85 | 85 | 83 | 84 | 85 | 80 |
| 76 | 79 | 76 | 71 | 78 | 80 | — | — | — | — | — | — | 84 |
| — | — | — | — | — | — | 93 | 91 | 94 | 95 | 89 | 92 | 87 |
| 84 | 86 | 91 | 93 | 78 | 88 | 89 | 94 | 85 | 84 | 79 | 78 | 87 |
| 79 | 88 | 86 | 92 | 92 | 94 | 89 | 92 | 92 | 94 | 93 | 92 | 86 |
| 90 | 90 | 91 | 93 | 91 | 85 | 93 | 90 | 88 | 88 | 88 | 90 | 90 |
| 87 | 87 | 87 | 88 | 85 | 90 | 90 | 90 | 89 | 90 | 87 | 91 | 91 |
| 83 | 82 | 80 | 82 | 82 | 80 | 81 | 78 | 82 | 80 | 78 | 80 | 85 |
| 80 | 78 | 78 | 76 | 81 | 84 | — | — | — | — | — | — | 82 |
| — | — | — | — | — | — | 93 | 99 | 87 | 86 | — | 87 | 90 |
| 89 | 89 | 91 | 89 | 90 | 90 | 92 | 92 | 94 | 91 | 94 | 91 | 90 |
| 97 | 79 | 80 | 83 | 98 | 84 | 91 | 86 | 91 | 90 | 88 | 82 | 90 |
| 83 | 84 | 88 | 83 | 88 | 91 | 94 | 92 | 94 | 94 | 90 | 91 | 83 |
| 82 | 79 | 82 | 83 | 88 | 80 | 79 | 84 | 90 | 91 | 93 | 95 | 85 |
| 90 | 88 | 91 | 89 | 83 | 85 | 83 | 81 | 78 | 83 | 85 | 81 | 89 |
| 79 | 84 | 76 | 76 | 77 | 76 | — | — | — | — | — | — | 80 |
| — | — | — | — | — | — | 92 | 93 | 92 | 90 | 90 | 89 | 81 |
| 78 | 78 | 79 | 81 | 81 | 81 | 81 | 83 | 85 | 83 | 84 | 78 | 86 |
| 95 | 82 | 79 | 89 | 93 | 93 | 90 | 94 | 67 | 73 | 73 | 72 | 73 |
| 64 | 68 | 68 | 70 | 68 | 72 | 76 | 80 | 76 | 71 | 70 | 68 | 78 |
| 93 | 83 | 81 | 76 | 77 | 71 | 76 | 75 | 78 | 79 | 80 | 80 | 73 |
| 77 | 58 | 75 | 71 | 72 | 73 | 80 | 72 | 87 | 70 | 63 | 65 | 73 |
| 83 | 81 | 81 | 81 | 82 | 82 | 86 | 86 | 85 | 85 | 84 | 83 | 83 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .126 | .123 | .140 | .168 | .135 | .144 | .141 | .139 | .135 | .134 | .122 | .102 | .144 |
| .135 | .133 | .135 | .141 | .143 | .148 | .150 | .150 | .143 | .143 | .145 | .162 | .136 |
| .249 | .260 | .191 | .179 | .186 | .176 | .167 | .172 | .170 | .171 | .160 | .146 | .193 |
| .178 | .154 | .148 | .131 | .128 | .127 | — | — | — | — | — | — | .129 |
| — | — | — | — | — | — | .108 | .084 | .082 | .079 | .083 | .088 | .089 |
| .084 | .079 | .077 | .076 | .080 | .082 | .092 | .101 | .102 | .103 | .107 | .097 | .112 |
| .109 | .105 | .109 | .111 | .119 | .111 | .100 | .101 | .102 | .108 | .111 | .098 | .138 |
| .123 | .131 | .130 | .129 | .135 | .142 | .157 | .159 | .158 | .162 | .162 | .166 | .146 |
| .157 | .167 | .121 | .120 | .118 | .108 | .115 | .114 | .118 | .116 | .111 | .111 | .126 |
| .127 | .125 | .124 | .125 | .127 | .112 | .104 | .109 | .116 | .115 | .113 | .114 | .115 |
| .116 | .116 | .110 | .098 | .098 | .090 | — | — | — | — | — | — | .085 |
| — | — | — | — | — | — | .091 | .088 | .096 | .114 | .113 | .111 | .088 |
| .083 | .070 | .073 | .080 | .066 | .083 | .089 | .093 | .081 | .075 | .080 | .076 | .088 |
| .076 | .098 | .089 | .092 | .093 | .095 | .095 | .101 | .110 | .109 | .108 | .110 | .147 |
| .153 | .153 | .157 | .159 | .157 | .155 | .159 | .154 | .149 | .148 | .148 | .155 | .120 |
| .113 | .110 | .106 | .106 | .100 | .105 | .107 | .107 | .105 | .103 | .097 | .100 | .095 |
| .087 | .085 | .084 | .086 | .086 | .085 | .086 | .086 | .092 | .085 | .082 | .085 | .082 |
| .068 | .060 | .057 | .054 | .053 | .045 | — | — | — | — | — | — | .132 |
| — | — | — | — | — | — | .107 | .091 | .098 | .098 | .104 | .101 | .154 |
| .139 | .139 | .141 | .139 | .143 | .144 | .146 | .146 | .145 | .142 | .145 | .140 | .120 |
| .168 | .140 | .139 | .147 | .159 | .145 | .157 | .152 | .157 | .154 | .148 | .137 | .156 |
| .124 | .113 | .105 | .094 | .093 | .092 | .096 | .094 | .097 | .094 | .078 | .079 | .178 |
| .163 | .159 | .165 | .166 | .171 | .162 | .161 | .170 | .177 | .175 | .179 | .181 | .104 |
| .174 | .173 | .178 | .173 | .166 | .170 | .166 | .162 | .156 | .154 | .142 | .128 | .150 |
| .105 | .108 | .096 | .095 | .093 | .088 | — | — | — | — | — | — | .177 |
| — | — | — | — | — | — | .101 | .105 | .110 | .101 | .101 | .094 | .100 |
| .158 | .156 | .157 | .163 | .164 | .163 | .163 | .166 | .169 | .166 | .170 | .165 | .075 |
| .209 | .175 | .161 | .168 | .173 | .173 | .166 | .158 | .118 | .122 | .119 | .116 | .049 |
| .085 | .089 | .087 | .085 | .079 | .081 | .084 | .084 | .079 | .076 | .073 | .067 | .075 |
| .087 | .084 | .079 | .072 | .071 | .067 | .066 | .062 | .060 | .063 | .070 | .072 | .075 |
| .051 | .038 | .044 | .048 | .038 | .036 | .037 | .033 | .037 | .030 | .027 | .028 | .124 |
| .128 | .124 | .119 | .119 | .117 | .116 | .119 | .118 | .117 | .116 | .115 | .112 | .124 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-----------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | FEBRUARY. | 1 | 72 | 72 | 85 | 92 | 95 | 90 | 57 | 76 | 77 | 77 | 78 | 74 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | 79 | 82 | 83 | 83 | 88 | 82 | 95 | 90 | 85 | 92 | 85 | 93 |
| | | 4 | 88 | 90 | 90 | 90 | 93 | 96 | 98 | 92 | 91 | 100 | 82 | 80 |
| | | 5 | 75 | 76 | 78 | 76 | 73 | 77 | 74 | 70 | 79 | 68 | 78 | 83 |
| | | 6 | 71 | 78 | 78 | 90 | 88 | 90 | 83 | 77 | 73 | 75 | 72 | 65 |
| | | 7 | 72 | 71 | 70 | 88 | 80 | 80 | 79 | 75 | 77 | 79 | 79 | 77 |
| | | 8 | 64 | 69 | 76 | 85 | 90 | 89 | 75 | 74 | 83 | 87 | 87 | 82 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | 78 | 75 | 79 | 91 | 95 | 90 | 89 | 92 | 88 | 81 | 79 | 78 |
| | | 11 | 89 | 88 | 93 | 94 | 92 | 89 | 89 | 88 | 91 | 83 | 84 | 80 |
| | | 12 | 60 | 63 | 71 | 61 | 70 | 71 | 75 | 80 | 65 | 63 | 68 | 61 |
| | | 13 | 67 | 63 | 84 | 76 | 80 | 77 | 53 | 72 | 75 | 78 | 77 | 74 |
| | | 14 | 79 | 79 | 85 | 83 | 83 | 86 | 85 | 84 | 74 | 86 | 84 | 84 |
| | | 15 | 81 | 83 | 83 | 85 | 86 | 88 | 88 | 89 | 87 | 84 | 85 | 86 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | 91 | 93 | 93 | 94 | 98 | 67 | 73 | 74 | 68 | 68 | 79 | 82 |
| | | 18 | 73 | 71 | 78 | 78 | 82 | 81 | 87 | 80 | 81 | 86 | 81 | 78 |
| | | 19 | 87 | 86 | 83 | 82 | 86 | 90 | 83 | 83 | 85 | 83 | 80 | 78 |
| | | 20 | 79 | 79 | 81 | 77 | 74 | 74 | 74 | 74 | 74 | 80 | 80 | 77 |
| | | 21 | 89 | 85 | 89 | 91 | 90 | 90 | 87 | 79 | 72 | 68 | 73 | 71 |
| | | 22 | 81 | 79 | 80 | 82 | — | — | 92 | 88 | 87 | 96 | 96 | 71 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | 76 | 80 | 79 | 78 | 73 | 80 | 76 | 74 | 74 | 74 | 74 | 78 |
| | | 25 | 78 | 91 | 89 | 79 | 76 | 73 | 74 | 71 | 69 | 67 | 66 | 72 |
| | | 26 | 75 | 69 | 64 | 65 | 64 | 55 | 55 | 57 | 60 | 59 | 66 | 65 |
| | | 27 | 86 | 88 | 85 | 88 | 73 | 82 | 80 | 81 | 80 | 80 | 79 | 86 |
| | | 28 | 85 | 86 | 93 | 89 | 62 | 96 | 85 | 94 | 92 | 89 | 69 | 82 |
| Hourly Means | | 78 | 79 | 82 | 83 | 79 | 79 | 79 | 82 | 79 | 79 | 78 | 77 | |
| Tension of the Vapour. | FEBRUARY. | 1 | In. .033 | In. .033 | In. .138 | In. .045 | In. .052 | In. .055 | In. .039 | In. .053 | In. .057 | In. .059 | In. .062 | In. .055 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | .081 | .085 | .085 | .094 | .091 | .088 | .109 | .111 | .103 | .110 | .103 | .110 |
| | | 4 | .114 | .117 | .119 | .123 | .129 | .136 | .140 | .105 | .099 | .102 | .080 | .073 |
| | | 5 | .060 | .058 | .062 | .064 | .066 | .071 | .071 | .071 | .078 | .066 | .075 | .078 |
| | | 6 | .042 | .043 | .044 | .055 | .056 | .058 | .063 | .062 | .060 | .060 | .057 | .052 |
| | | 7 | .062 | .058 | .060 | .084 | .082 | .092 | .095 | .098 | .106 | .111 | .111 | .102 |
| | | 8 | .048 | .047 | .053 | .066 | .077 | .085 | .077 | .080 | .098 | .100 | .103 | .084 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | .110 | .107 | .113 | .141 | .161 | .155 | .155 | .164 | .158 | .150 | .143 | .141 |
| | | 11 | .130 | .125 | .133 | .142 | .153 | .162 | .170 | .169 | .178 | .163 | .161 | .149 |
| | | 12 | .133 | .135 | .146 | .118 | .122 | .106 | .099 | .098 | .078 | .069 | .070 | .057 |
| | | 13 | .030 | .026 | .036 | .038 | .043 | .046 | .035 | .049 | .051 | .057 | .057 | .054 |
| | | 14 | .067 | .069 | .083 | .082 | .087 | .097 | .108 | .115 | .125 | .132 | .134 | .137 |
| | | 15 | .166 | .169 | .176 | .183 | .191 | .196 | .199 | .204 | .206 | .196 | .194 | .197 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | .161 | .171 | .175 | .185 | .201 | .144 | .162 | .171 | .155 | .157 | .169 | .172 |
| | | 18 | .137 | .134 | .147 | .152 | .165 | .166 | .181 | .163 | .164 | .181 | .167 | .156 |
| | | 19 | .060 | .161 | .159 | .161 | .169 | .187 | .183 | .180 | .181 | .175 | .174 | .159 |
| | | 20 | .155 | .161 | .176 | .185 | .191 | .200 | .193 | .191 | .197 | .197 | .197 | .189 |
| | | 21 | .169 | .164 | .176 | .193 | .208 | .231 | .229 | .223 | .202 | .195 | .209 | .197 |
| | | 22 | .167 | .164 | .172 | .193 | — | — | .247 | .231 | .231 | .242 | .238 | .167 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | .156 | .159 | .170 | .181 | .185 | .200 | .198 | .194 | .199 | .198 | .191 | .188 |
| | | 25 | .161 | .186 | .204 | .221 | .217 | .226 | .237 | .226 | .222 | .215 | .208 | .215 |
| | | 26 | .149 | .141 | .138 | .146 | .148 | .129 | .130 | .130 | .135 | .133 | .143 | .139 |
| | | 27 | .126 | .122 | .133 | .162 | .154 | .175 | .179 | .180 | .193 | .175 | .165 | .164 |
| | | 28 | .119 | .118 | .129 | .130 | .095 | .161 | .151 | .165 | .168 | .170 | .126 | .144 |
| Hourly Means | | .110 | .115 | .126 | .131 | .127 | .138 | .144 | .143 | .144 | .142 | .139 | .132 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 72 | 79 | 86 | 79 | 54 | 73 | — | — | — | — | — | — | 78 |
| — | — | — | — | — | — | 81 | 82 | 80 | 85 | 78 | 87 | 85 |
| 80 | 90 | 82 | 81 | 82 | 83 | 84 | 72 | 95 | 86 | 88 | 87 | 85 |
| 80 | 76 | 80 | 79 | 79 | 79 | 77 | 79 | 80 | 77 | 76 | 87 | 85 |
| 68 | 71 | 77 | 76 | 76 | 71 | 78 | 88 | 81 | 85 | 78 | 85 | 77 |
| 67 | 69 | 70 | 80 | 80 | 76 | 80 | 75 | 74 | 80 | 67 | 66 | 76 |
| 78 | 84 | 82 | 82 | 62 | 67 | 63 | 71 | 74 | 60 | 74 | 61 | 74 |
| 68 | 75 | 74 | 50 | 69 | 66 | — | — | — | — | — | — | 77 |
| — | — | — | — | — | — | 84 | 81 | 82 | 83 | 82 | 80 | 85 |
| 80 | 81 | 82 | 84 | 87 | 84 | 86 | 84 | 86 | 88 | 88 | 87 | 85 |
| 83 | 91 | 85 | 86 | 88 | 88 | 86 | 86 | 87 | 90 | 88 | 50 | 86 |
| 66 | 53 | 66 | 67 | 71 | 70 | 65 | 69 | 65 | 64 | 65 | 80 | 67 |
| 73 | 74 | 73 | 81 | 79 | 80 | 78 | 78 | 79 | 80 | 80 | 79 | 75 |
| 82 | 82 | 79 | 80 | 81 | 83 | 80 | 78 | 78 | 75 | 80 | 83 | 81 |
| 85 | 87 | 88 | 89 | 87 | 83 | — | — | — | — | — | — | 85 |
| — | — | — | — | — | — | 81 | 81 | 79 | 86 | 91 | 91 | 85 |
| 71 | 77 | 84 | 75 | 73 | 78 | 75 | 71 | 71 | 74 | 70 | 71 | 78 |
| 91 | 83 | 86 | 85 | 94 | 96 | 88 | 89 | 89 | 87 | 86 | 88 | 84 |
| 78 | 74 | 72 | 68 | 68 | 73 | 73 | 72 | 78 | 78 | 79 | 86 | 79 |
| 79 | 77 | 77 | 77 | 75 | 79 | 80 | 79 | 84 | 86 | 85 | 95 | 80 |
| 71 | 72 | 63 | 78 | 69 | 76 | 72 | 76 | 73 | 80 | 78 | 79 | 78 |
| 71 | 70 | 71 | 73 | 79 | 78 | — | — | — | — | — | — | 85 |
| — | — | — | — | — | — | 97 | 96 | 97 | 98 | 96 | 91 | 85 |
| 79 | 72 | 80 | 91 | 86 | 79 | 77 | 82 | 87 | 90 | 88 | 89 | 80 |
| 72 | 65 | 75 | 63 | 52 | 68 | 65 | 62 | 65 | 68 | 69 | 78 | 71 |
| 71 | 78 | 80 | 79 | 81 | 80 | 83 | — | 91 | 93 | 85 | 84 | 72 |
| 91 | 93 | 92 | 96 | 95 | 88 | 87 | 78 | 86 | 82 | 85 | 85 | 85 |
| 88 | 83 | 78 | 79 | 88 | 92 | 95 | 98 | — | 93 | 88 | 87 | 87 |
| 77 | 77 | 78 | 78 | 77 | 79 | 80 | 79 | 81 | 82 | 81 | 81 | 79 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·049 | ·051 | ·050 | ·045 | ·033 | ·049 | — | — | — | — | — | — | ·064 |
| — | — | — | — | — | — | ·079 | ·079 | ·075 | ·077 | ·074 | ·087 | ·101 |
| ·090 | ·099 | ·102 | ·101 | ·101 | ·105 | ·107 | ·098 | ·118 | ·113 | ·114 | ·113 | ·089 |
| ·070 | ·068 | ·067 | ·064 | ·065 | ·064 | ·060 | ·963 | ·067 | ·066 | ·069 | ·073 | ·066 |
| ·067 | ·061 | ·071 | ·068 | ·065 | ·058 | ·062 | ·067 | ·061 | ·062 | ·053 | ·053 | ·063 |
| ·056 | ·060 | ·066 | ·078 | ·084 | ·081 | ·082 | ·076 | ·073 | ·077 | ·063 | ·061 | ·079 |
| ·095 | ·094 | ·088 | ·086 | ·065 | ·071 | ·064 | ·067 | ·070 | ·047 | ·053 | ·048 | ·078 |
| ·056 | ·053 | ·045 | ·039 | ·052 | ·057 | — | — | — | — | — | — | ·142 |
| — | — | — | — | — | — | ·107 | ·107 | ·109 | ·111 | ·112 | ·110 | ·152 |
| ·144 | ·151 | ·152 | ·149 | ·154 | ·147 | ·136 | ·137 | ·138 | ·137 | ·133 | ·128 | ·074 |
| ·155 | ·166 | ·151 | ·151 | ·152 | ·148 | ·151 | ·150 | ·153 | ·159 | ·161 | ·119 | ·052 |
| ·056 | ·066 | ·054 | ·055 | ·054 | ·047 | ·040 | ·040 | ·036 | ·033 | ·031 | ·035 | ·126 |
| ·053 | ·053 | ·052 | ·061 | ·064 | ·078 | ·076 | ·059 | ·059 | ·063 | ·061 | ·062 | ·182 |
| ·135 | ·138 | ·138 | ·143 | ·150 | ·156 | ·154 | ·152 | ·155 | ·156 | ·162 | ·166 | ·158 |
| ·196 | ·201 | ·193 | ·184 | ·178 | ·184 | — | — | — | — | — | — | ·156 |
| — | — | — | — | — | — | ·157 | ·153 | ·154 | ·162 | ·167 | ·167 | ·185 |
| ·152 | ·156 | ·155 | ·149 | ·149 | ·154 | ·150 | ·142 | ·141 | ·144 | ·138 | ·136 | ·188 |
| ·168 | ·147 | ·152 | ·150 | ·144 | ·146 | ·137 | ·154 | ·160 | ·159 | ·159 | ·161 | ·193 |
| ·153 | ·149 | ·149 | ·147 | ·155 | ·156 | ·156 | ·155 | ·160 | ·159 | ·154 | ·159 | ·140 |
| ·195 | ·193 | ·193 | ·187 | ·182 | ·187 | ·184 | ·191 | ·184 | ·180 | ·171 | ·173 | ·150 |
| ·193 | ·200 | ·171 | ·188 | ·156 | ·173 | ·175 | ·175 | ·171 | ·178 | ·168 | ·169 | ·147 |
| ·166 | ·165 | ·166 | ·165 | ·172 | ·171 | — | — | — | — | — | — | ·129 |
| — | — | — | — | — | — | ·222 | ·217 | ·203 | ·187 | ·178 | ·174 | ·196 |
| ·182 | ·171 | ·176 | ·184 | ·177 | ·182 | ·181 | ·183 | ·179 | ·185 | ·184 | ·176 | ·140 |
| ·211 | ·205 | ·210 | ·192 | ·174 | ·209 | ·182 | ·162 | ·163 | ·157 | ·144 | ·159 | ·150 |
| ·146 | ·153 | ·153 | ·139 | ·147 | ·140 | ·139 | · | ·149 | ·146 | ·130 | ·127 | ·129 |
| ·160 | ·158 | ·150 | ·149 | ·149 | ·138 | ·133 | ·119 | ·131 | ·123 | ·126 | ·126 | ·147 |
| ·159 | ·150 | ·142 | ·144 | ·155 | ·162 | ·168 | ·180 | · | ·132 | ·148 | ·158 | ·129 |
| ·129 | ·129 | ·127 | ·126 | ·124 | ·128 | ·129 | ·127 | ·126 | ·125 | ·123 | ·122 | ·129 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|--------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | MARCH. | 1 | 80 | 82 | 74 | 70 | 66 | 65 | 60 | 56 | 53 | 61 | 53 | 70 | |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 3 | 80 | 89 | 86 | 85 | 71 | 70 | 84 | 92 | 93 | 92 | 73 | 86 | |
| | | 4 | 93 | 95 | 88 | 77 | 78 | 77 | 74 | 72 | 71 | 74 | 74 | 74 | 67 |
| | | 5 | — | 94 | 96 | — | 91 | 88 | 84 | 78 | 77 | 68 | 58 | 57 | |
| | | 6 | 89 | 87 | 81 | 89 | 70 | 73 | 72 | 75 | 72 | 69 | 79 | 71 | |
| | | 7 | 92 | 78 | 83 | 78 | 79 | 75 | 80 | 80 | 79 | 76 | 74 | 76 | |
| | | 8 | 91 | 83 | 94 | 89 | 62 | 48 | 42 | 29 | 30 | 33 | 34 | 35 | |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 10 | 79 | 76 | 61 | 66 | 65 | 60 | 58 | 60 | 68 | 68 | 78 | 98 | |
| | | 11 | 77 | 82 | 91 | 53 | 66 | 87 | 61 | 56 | 60 | 59 | 65 | 74 | |
| | | 12 | 90 | 80 | 76 | 71 | 73 | 79 | 79 | 79 | 62 | 71 | 73 | 79 | |
| | | 13 | 82 | 86 | 83 | 82 | 71 | 65 | 55 | 55 | 49 | 50 | 66 | 57 | |
| | | 14 | 89 | 87 | 91 | 86 | 86 | 87 | 81 | 78 | 76 | 78 | 89 | 79 | |
| | | 15 | 77 | 71 | 75 | 60 | 83 | 66 | 62 | 71 | 81 | 86 | 88 | 70 | |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 17 | 89 | 88 | 85 | 80 | 80 | 81 | 75 | 82 | 70 | 69 | 72 | 67 | |
| | | 18 | 88 | 98 | 88 | 86 | 58 | 55 | 58 | 74 | 68 | 73 | 73 | 80 | |
| | | 19 | 81 | 71 | 67 | 72 | 60 | 53 | 55 | 43 | 55 | 74 | 64 | 68 | |
| | | 20 | 73 | 70 | 67 | 64 | 73 | 89 | 65 | — | 69 | 68 | 66 | 82 | |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 22 | 87 | 67 | 64 | 59 | 49 | 58 | 57 | 56 | 58 | 54 | 62 | 69 | |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 24 | 69 | 72 | 66 | 67 | 69 | 66 | 56 | 48 | 52 | 41 | 41 | 49 | |
| | | 25 | 59 | 59 | 68 | 39 | 65 | 52 | 53 | 34 | 32 | 31 | 37 | 34 | |
| | | 26 | 85 | 71 | 80 | 70 | 71 | 63 | 55 | 78 | 53 | 51 | 55 | 59 | |
| | | 27 | 73 | 77 | 70 | 60 | 51 | 50 | 46 | 43 | 43 | 55 | 53 | 61 | |
| | | 28 | 78 | 71 | 68 | 65 | 63 | 60 | 60 | 58 | 57 | 62 | 62 | 69 | |
| | | 29 | 94 | 95 | 86 | 80 | 73 | 60 | 60 | 54 | 48 | 89 | 43 | 51 | |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 31 | 90 | 77 | 71 | 71 | 69 | 65 | 54 | 60 | 58 | 60 | 54 | 55 | |
| | | Hourly Means | | 82 | 80 | 78 | 69 | 70 | 68 | 63 | 63 | 61 | 64 | 63 | 67 |
| Tension of the Vapour. | MARCH. | 1 | In. .156 | In. .162 | In. .153 | In. .159 | In. .152 | In. .156 | In. .149 | In. .149 | In. .148 | In. .172 | In. .147 | In. .169 | |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 3 | .159 | .165 | .153 | .150 | .123 | .120 | .150 | .166 | .163 | .164 | .132 | .155 | |
| | | 4 | .127 | .149 | .163 | .154 | .167 | .175 | .171 | .178 | .184 | .174 | .164 | .164 | .145 |
| | | 5 | — | .178 | .183 | — | .185 | .186 | .185 | .188 | .193 | .191 | .171 | .168 | |
| | | 6 | .131 | .133 | .145 | .170 | .146 | .155 | .160 | .165 | .169 | .160 | .179 | .153 | |
| | | 7 | .167 | .156 | .177 | .177 | .194 | .194 | .200 | .200 | .194 | .186 | .184 | .184 | |
| | | 8 | .217 | .208 | .289 | .283 | .227 | .188 | .174 | .126 | .128 | .136 | .130 | .127 | |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 10 | .116 | .115 | .109 | .114 | .124 | .123 | .125 | .138 | .147 | .145 | .162 | .194 | |
| | | 11 | .124 | .132 | .153 | .102 | .141 | .183 | .129 | .121 | .131 | .128 | .141 | .152 | |
| | | 12 | .170 | .160 | .155 | .174 | .171 | .185 | .186 | .188 | .186 | .184 | .183 | .192 | |
| | | 13 | .136 | .151 | .150 | .174 | .166 | .164 | .140 | .154 | .137 | .137 | .144 | .145 | |
| | | 14 | .185 | .190 | .202 | .201 | .202 | .216 | .219 | .215 | .202 | .170 | .176 | .160 | |
| | | 15 | .080 | .075 | .081 | .070 | .101 | .081 | .076 | .092 | .105 | .112 | .112 | .091 | |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 17 | .122 | .125 | .127 | .134 | .129 | .134 | .134 | .151 | .139 | .132 | .139 | .130 | |
| | | 18 | .121 | .133 | .120 | .122 | .091 | .089 | .095 | .108 | .103 | .107 | .106 | .113 | |
| | | 19 | .089 | .082 | .081 | .094 | .077 | .073 | .080 | .067 | .084 | .100 | .089 | .090 | |
| | | 20 | .101 | .100 | .103 | .102 | .124 | .154 | .115 | — | .124 | .122 | .121 | .142 | |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 22 | .133 | .112 | .117 | .118 | .118 | .141 | .141 | .142 | .155 | .144 | .164 | .165 | |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 24 | .146 | .153 | .146 | .149 | .159 | .155 | .137 | .125 | .132 | .106 | .104 | .118 | |
| | | 25 | .110 | .110 | .138 | .096 | .175 | .143 | .152 | .103 | .100 | .092 | .110 | .100 | |
| | | 26 | .165 | .148 | .187 | .178 | .184 | .184 | .183 | .174 | .177 | .177 | .183 | .193 | |
| | | 27 | .171 | .182 | .222 | .221 | .214 | .206 | .193 | .207 | .192 | .208 | .183 | .199 | |
| | | 28 | .187 | .189 | .193 | .199 | .208 | .231 | .210 | .212 | .221 | .221 | .225 | .233 | |
| | | 29 | .178 | .199 | .233 | .242 | .253 | .233 | .265 | .264 | .255 | .337 | .235 | .246 | |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 31 | .259 | .264 | .277 | .305 | .311 | .315 | .289 | .303 | .300 | .301 | .304 | .271 | |
| | | Hourly Means | | .148 | .147 | .162 | .162 | .166 | .167 | .164 | .164 | .163 | .160 | .160 | .161 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 78 | 77 | 78 | 82 | 81 | 79 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 91 | 78 | 88 | 94 | 85 | 86 | 87 |
| 93 | 94 | 94 | 92 | 73 | 81 | 81 | 89 | 96 | 100 | 99 | 95 | 79 |
| 60 | 61 | 70 | 74 | 76 | 83 | 81 | 94 | 96 | 97 | 96 | — | 75 |
| 58 | 66 | 62 | 62 | 68 | 74 | 76 | 82 | 77 | 71 | 78 | 80 | 81 |
| 78 | 82 | 81 | 90 | 86 | 86 | 86 | 89 | 93 | 86 | 81 | 81 | 83 |
| 79 | 76 | 75 | 82 | 92 | 87 | 90 | 89 | 90 | 94 | 95 | 94 | — |
| 36 | 37 | 43 | 46 | 45 | 48 | — | — | — | — | — | — | 59 |
| — | — | — | — | — | — | 96 | 90 | 78 | 80 | 80 | 80 | 77 |
| 72 | 79 | 82 | 86 | 85 | 90 | 84 | 91 | 92 | 93 | 81 | 79 | 77 |
| 86 | 84 | 78 | 88 | 91 | 82 | 84 | 88 | 86 | 83 | 83 | 88 | 80 |
| 79 | 80 | 86 | 87 | 84 | 89 | 89 | 82 | 90 | 83 | 77 | 72 | 71 |
| 57 | 55 | 66 | 73 | 77 | 79 | 84 | 88 | 79 | 81 | 83 | 83 | 78 |
| 36 | 93 | 86 | 90 | 63 | 67 | 65 | 73 | 71 | 74 | 74 | 76 | — |
| 72 | 69 | 82 | 86 | 85 | 44 | — | — | — | — | — | — | 78 |
| — | — | — | — | — | — | 97 | 89 | 87 | 96 | 92 | 85 | 78 |
| 74 | 72 | 72 | 73 | 75 | 78 | 76 | 80 | 75 | 78 | 83 | 90 | 76 |
| 59 | 62 | 71 | 73 | 72 | 77 | 81 | 85 | 89 | 84 | 83 | 90 | 75 |
| 82 | 80 | 83 | 89 | 92 | 88 | 72 | 77 | 95 | 97 | 96 | 79 | — |
| 90 | 70 | 81 | 91 | 64 | 57 | — | — | — | — | — | — | 76 |
| — | — | — | — | — | — | — | — | 98 | 98 | 82 | 78 | — |
| 77 | 78 | 78 | 89 | 73 | 83 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 97 | 78 | 96 | 98 | 97 | 99 | 61 |
| 60 | 61 | 59 | 63 | 70 | 71 | 70 | 66 | 66 | 57 | 64 | 60 | 62 |
| 65 | 51 | 60 | 68 | 74 | 82 | 82 | 85 | 90 | 91 | 95 | 93 | 64 |
| 59 | 63 | 64 | 75 | 74 | 60 | 57 | 55 | 52 | 55 | 66 | 62 | 67 |
| 62 | 62 | 72 | 81 | 82 | 82 | 82 | 77 | 74 | 78 | 85 | 85 | 72 |
| 70 | 72 | 74 | 76 | 75 | 82 | 82 | 82 | 92 | 88 | 93 | 94 | — |
| 45 | 59 | 62 | 66 | 70 | 72 | — | — | — | — | — | — | 73 |
| — | — | — | — | — | — | 84 | 86 | 92 | 91 | 93 | 89 | 69 |
| 58 | 61 | 65 | 68 | 68 | 70 | 74 | 85 | 83 | 85 | 82 | 79 | — |
| 67 | 70 | 71 | 78 | 76 | 76 | 82 | 82 | 85 | 85 | 85 | 83 | 63 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·163 | ·156 | ·162 | ·170 | ·164 | ·164 | — | — | — | — | — | — | ·162 |
| — | — | — | — | — | — | ·188 | ·160 | ·171 | ·178 | ·168 | ·167 | ·146 |
| ·160 | ·151 | ·148 | ·148 | ·122 | ·132 | ·134 | ·144 | ·145 | ·144 | ·143 | ·130 | ·168 |
| ·131 | ·133 | ·161 | ·169 | ·173 | ·187 | ·183 | ·193 | ·196 | ·188 | ·188 | — | ·158 |
| ·155 | ·157 | ·143 | ·132 | ·135 | ·139 | ·138 | ·145 | ·128 | ·119 | ·124 | ·123 | ·158 |
| ·151 | ·156 | ·156 | ·170 | ·164 | ·162 | ·164 | ·170 | ·173 | ·166 | ·153 | ·146 | ·195 |
| ·187 | ·185 | ·190 | ·204 | ·219 | ·206 | ·212 | ·209 | ·207 | ·214 | ·218 | ·224 | — |
| ·120 | ·110 | ·128 | ·127 | ·122 | ·123 | — | — | — | — | — | — | ·156 |
| — | — | — | — | — | — | ·151 | ·141 | ·123 | ·125 | ·126 | ·121 | ·144 |
| ·141 | ·157 | ·162 | 164 | ·163 | ·163 | ·151 | ·155 | ·155 | ·155 | ·140 | ·133 | ·145 |
| ·157 | ·162 | ·147 | ·158 | ·157 | ·141 | ·149 | ·153 | ·153 | ·152 | ·153 | ·164 | ·169 |
| ·188 | ·187 | ·195 | ·182 | ·174 | ·160 | ·151 | ·137 | ·145 | ·141 | ·138 | ·125 | ·152 |
| ·131 | ·124 | ·143 | ·156 | ·156 | ·162 | ·166 | ·168 | ·158 | ·163 | ·162 | ·166 | ·151 |
| ·119 | ·153 | ·127 | ·123 | ·084 | ·086 | ·082 | ·089 | ·084 | ·184 | ·079 | ·080 | ·138 |
| ·091 | ·120 | ·087 | ·088 | ·071 | ·034 | — | — | — | — | — | — | ·127 |
| — | — | — | — | — | — | ·137 | ·124 | ·120 | ·118 | ·128 | ·117 | ·127 |
| ·131 | ·129 | ·124 | ·119 | ·120 | ·125 | ·120 | ·123 | ·114 | ·114 | ·119 | ·124 | ·101 |
| ·080 | ·080 | ·088 | ·086 | ·084 | ·089 | ·096 | ·101 | ·106 | ·100 | ·098 | ·103 | ·088 |
| ·103 | ·097 | ·095 | ·099 | ·101 | ·101 | ·082 | ·088 | ·116 | ·114 | ·114 | ·107 | — |
| ·156 | ·121 | ·142 | ·155 | ·106 | ·091 | — | — | — | — | — | — | ·127 |
| — | — | — | — | — | — | — | — | ·158 | ·158 | ·136 | ·127 | ·156 |
| ·164 | ·158 | ·157 | ·172 | ·134 | ·144 | — | — | — | — | — | — | ·132 |
| — | — | — | — | — | — | ·203 | ·163 | ·200 | ·203 | ·202 | ·207 | ·136 |
| ·134 | ·134 | ·133 | ·137 | ·144 | ·144 | ·139 | ·126 | ·123 | ·108 | ·111 | ·112 | ·185 |
| ·164 | ·126 | ·141 | ·141 | ·145 | ·151 | ·154 | ·156 | ·170 | ·171 | ·160 | ·163 | ·196 |
| ·187 | ·188 | ·189 | ·211 | ·227 | ·210 | ·189 | ·183 | ·182 | ·182 | ·191 | ·173 | ·200 |
| ·186 | ·184 | ·196 | ·192 | ·200 | ·202 | ·202 | ·186 | ·183 | ·186 | ·196 | ·187 | — |
| ·208 | ·198 | ·196 | ·193 | ·184 | ·202 | ·204 | ·202 | ·212 | ·198 | ·188 | ·181 | ·158 |
| ·224 | ·251 | ·216 | ·238 | ·229 | ·237 | — | — | — | — | — | — | ·291 |
| — | — | — | — | — | — | ·243 | ·239 | ·240 | ·235 | ·240 | ·256 | — |
| ·267 | ·269 | ·302 | ·287 | ·287 | ·269 | ·267 | ·307 | ·305 | ·315 | ·301 | ·308 | ·159 |
| ·156 | ·155 | ·157 | ·161 | ·155 | ·153 | ·163 | ·161 | ·163 | ·165 | ·159 | ·150 | ·159 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|--------|------------------------|--------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | APRIL. | 1 | 81 | 75 | 70 | 69 | 65 | 65 | 65 | 63 | 59 | 59 | 58 | 58 | |
| | | 2 | 81 | 87 | 86 | 74 | 58 | 53 | 77 | 49 | 46 | 44 | 46 | 38 | |
| | | 3 | 84 | 61 | 74 | 62 | 60 | 56 | 60 | 49 | 56 | 54 | 63 | 65 | |
| | | 4 | 66 | 62 | 53 | 54 | 50 | 46 | 39 | 44 | 39 | 38 | 38 | 47 | |
| | | 5 | 63 | 56 | 55 | 59 | 56 | 63 | 49 | 82 | 46 | 80 | 82 | 92 | |
| | | 6 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 7 | 87 | 85 | 78 | 61 | 67 | 85 | 96 | 96 | 99 | 86 | 98 | 96 | |
| | | 8 | 85 | 86 | 88 | 88 | 91 | 88 | 59 | 64 | 71 | 71 | 78 | 85 | |
| | | 9 | 86 | 86 | 82 | 70 | 65 | 55 | 47 | 51 | 55 | 60 | 51 | 58 | |
| | | 10 | 73 | 57 | 52 | 41 | 42 | 40 | 91 | 56 | 51 | 53 | 46 | 48 | |
| | | 11 | 70 | 65 | 75 | 71 | 67 | 55 | 48 | 44 | 37 | 27 | 33 | 35 | |
| | | 12 | 84 | 74 | 58 | 44 | 43 | 47 | 45 | 46 | 44 | 44 | 52 | 54 | |
| | | 13 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 14 | 46 | 46 | 43 | 37 | 37 | 29 | 36 | 40 | 35 | 37 | 39 | 16 | |
| | | 15 | 67 | 35 | 34 | 29 | 38 | 39 | 35 | 39 | 35 | 35 | 35 | 37 | |
| | | 16 | 45 | 44 | 46 | 53 | 43 | 43 | 43 | 57 | 62 | 66 | 69 | 68 | |
| | | 17 | 93 | 91 | 91 | 89 | 93 | 93 | 90 | 90 | 88 | 87 | 88 | 85 | |
| | | 18 | 97 | 92 | 87 | 92 | 89 | 84 | 84 | 83 | 84 | 82 | 79 | 82 | |
| | | 19 | 96 | 96 | 94 | 93 | 93 | 96 | 94 | 94 | 94 | 93 | 94 | 91 | |
| | | 20 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 21 | 92 | 90 | 85 | 90 | 88 | 83 | 83 | 82 | 77 | 77 | 73 | 77 | |
| | | 22 | 91 | 83 | 77 | 81 | 69 | 70 | 69 | 70 | 67 | 71 | 70 | 67 | |
| | | 23 | 79 | 69 | 66 | 65 | 62 | 60 | 56 | 51 | 56 | 52 | 58 | 59 | |
| | | 24 | 96 | 96 | 94 | 91 | 88 | 82 | 80 | 78 | 76 | 75 | 81 | 77 | |
| | | 25 | 81 | 78 | 79 | 77 | 71 | 74 | 72 | 71 | 67 | 65 | 78 | 88 | |
| | | 26 | 85 | 97 | 96 | 94 | 90 | 84 | 81 | 79 | 78 | 74 | 68 | 78 | |
| | | 27 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 28 | 80 | 80 | 85 | 82 | 76 | 76 | 72 | 66 | 62 | 59 | 66 | 70 | |
| | | 29 | 49 | 46 | 45 | 36 | 39 | 53 | 65 | 58 | 57 | 51 | 60 | 57 | |
| | | 30 | 64 | 82 | 82 | 77 | 71 | 76 | 71 | 66 | 70 | 69 | 68 | 67 | |
| | | Hourly Means | | 78 | 74 | 72 | 66 | 66 | 65 | 66 | 64 | 62 | 62 | 64 | 65 |
| | | Tension of the Vapour. | APRIL. | 1 | In. .281 | In. .229 | In. .183 | In. .175 | In. .155 | In. .153 | In. .157 | In. .159 | In. .149 | In. .148 | In. .146 |
| 2 | .181 | | | .201 | .225 | .233 | .196 | .194 | .229 | .152 | .133 | .130 | .131 | .105 | |
| 3 | .122 | | | .093 | .120 | .108 | .111 | .115 | .128 | .115 | .136 | .130 | .140 | .141 | |
| 4 | .151 | | | .151 | .133 | .140 | .132 | .131 | .112 | .123 | .104 | .104 | .099 | .112 | |
| 5 | .088 | | | .083 | .083 | .106 | .104 | .126 | .101 | .162 | .088 | .141 | .135 | .149 | |
| 6 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 7 | .116 | | | .113 | .110 | .090 | .101 | .134 | .164 | .183 | .180 | .156 | .177 | .163 | |
| 8 | .093 | | | .101 | .113 | .118 | .132 | .130 | .092 | .108 | .124 | .133 | .146 | .165 | |
| 9 | .102 | | | .114 | .132 | .139 | .130 | .121 | .114 | .125 | .142 | .150 | .132 | .140 | |
| 10 | .149 | | | .140 | .158 | .150 | .152 | .150 | .144 | .173 | .147 | .150 | .132 | .134 | |
| 11 | .136 | | | .129 | .149 | .149 | .147 | .138 | .124 | .119 | .109 | .080 | .093 | .092 | |
| 12 | .146 | | | .154 | .139 | .120 | .129 | .153 | .136 | .142 | .146 | .146 | .162 | .160 | |
| 13 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 14 | .113 | | | .125 | .135 | .131 | .149 | .124 | .163 | .174 | .161 | .173 | .179 | .090 | |
| 15 | .128 | | | .091 | .124 | .135 | .185 | .181 | .166 | .192 | .172 | .186 | .179 | .189 | |
| 16 | .140 | | | .137 | .142 | .165 | .143 | .142 | .135 | .177 | .184 | .192 | .203 | .199 | |
| 17 | .222 | | | .222 | .224 | .222 | .232 | .232 | .239 | .241 | .244 | .250 | .251 | .244 | |
| 18 | .248 | | | .245 | .224 | .243 | .241 | .235 | .240 | .249 | .251 | .246 | .250 | .249 | |
| 19 | .290 | | | .273 | .259 | .256 | .274 | .276 | .269 | .268 | .271 | .272 | .287 | .271 | |
| 20 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 21 | .245 | | | .251 | .250 | .264 | .271 | .248 | .255 | .255 | .250 | .261 | .246 | .240 | |
| 22 | .216 | | | .239 | .236 | .272 | .249 | .256 | .252 | .264 | .249 | .258 | .271 | .259 | |
| 23 | .274 | | | .273 | .279 | .295 | .322 | .339 | .328 | .358 | .319 | .287 | .300 | .289 | |
| 24 | .346 | | | .365 | .403 | .450 | .464 | .498 | .502 | .497 | .492 | .485 | .463 | .390 | |
| 25 | .230 | | | .223 | .222 | .216 | .221 | .219 | .222 | .210 | .217 | .224 | .232 | .251 | |
| 26 | .221 | | | .256 | .284 | .276 | .278 | .294 | .331 | .311 | .311 | .304 | .306 | .331 | |
| 27 | — | | | — | — | — | — | — | — | — | — | — | — | — | |
| 28 | .223 | | | .253 | .313 | .325 | .322 | .357 | .372 | .362 | .335 | .327 | .332 | .314 | |
| 29 | .179 | | | .191 | .205 | .186 | .198 | .256 | .314 | .279 | .277 | .240 | .284 | .276 | |
| 30 | .202 | | | .249 | .265 | .286 | .281 | .307 | .309 | .311 | .364 | .349 | .347 | .315 | |
| Hourly Means | | | | .186 | .188 | .197 | .202 | .205 | .212 | .215 | .220 | .214 | .212 | .216 | .208 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 61 | 55 | 69 | 73 | 87 | 87 | 93 | 93 | 91 | 94 | 88 | 79 | 71 |
| 39 | 46 | 57 | 72 | 72 | 68 | 83 | 64 | 80 | 71 | 64 | 79 | 64 |
| 94 | 94 | 94 | 92 | 93 | 94 | 94 | 95 | 96 | 96 | 96 | 83 | 78 |
| 47 | 55 | 68 | 71 | 68 | 74 | 72 | 71 | 57 | 56 | 54 | 56 | 55 |
| 95 | 92 | 75 | 80 | 62 | 66 | — | — | — | — | — | — | 73 |
| — | — | — | — | — | — | 100 | 100 | — | — | — | 88 | 88 |
| 56 | 60 | 68 | 74 | 79 | 79 | 83 | 97 | 97 | 100 | 89 | 81 | 88 |
| 73 | 81 | 61 | 56 | 60 | 68 | 71 | 73 | 78 | 81 | 83 | 91 | 76 |
| 57 | 58 | 67 | 91 | 80 | 87 | 88 | 74 | 62 | 62 | 66 | 74 | 68 |
| 54 | 54 | 52 | 60 | 57 | 60 | 64 | 66 | 67 | 67 | 62 | 66 | 57 |
| 35 | 37 | 49 | 49 | 79 | 79 | 82 | 70 | 75 | 76 | 78 | 85 | 59 |
| 61 | 74 | 74 | 80 | 77 | 80 | — | — | — | — | — | — | 57 |
| — | — | — | — | — | — | 43 | 52 | 47 | 45 | 47 | 49 | 39 |
| 17 | 10 | 29 | 30 | 35 | 37 | 53 | 52 | 54 | 53 | 62 | 66 | 43 |
| 43 | 58 | 53 | 55 | 57 | 41 | 30 | 35 | 47 | 60 | 48 | 43 | 69 |
| 66 | 85 | 84 | 86 | 87 | 89 | 88 | 87 | 89 | 84 | 85 | 88 | 91 |
| 88 | 91 | 94 | 93 | 93 | 93 | 93 | 95 | 96 | 93 | 93 | 97 | 88 |
| 82 | 84 | 83 | 86 | 84 | 87 | 87 | 93 | 94 | 95 | 96 | 96 | 91 |
| 94 | 99 | 88 | 81 | 82 | 83 | — | — | — | — | — | — | 87 |
| — | — | — | — | — | — | 91 | 90 | 86 | 88 | 91 | 94 | 77 |
| 79 | 83 | 87 | 84 | 94 | 91 | 96 | 95 | 95 | 93 | 97 | 96 | 74 |
| 76 | 77 | 78 | 79 | 73 | 77 | 77 | 78 | 88 | 85 | 85 | 82 | 83 |
| 71 | 87 | 90 | 89 | 91 | 89 | 91 | 91 | 87 | 85 | 88 | 91 | 84 |
| 82 | 82 | 84 | 80 | 81 | 78 | 70 | 79 | 83 | 89 | 85 | 83 | 81 |
| 88 | 89 | 88 | 90 | 92 | 87 | 90 | 97 | 97 | 97 | 97 | 96 | 81 |
| 67 | 80 | 80 | 81 | 78 | 81 | — | — | — | — | — | — | 65 |
| — | — | — | — | — | — | 70 | 82 | 77 | 82 | 84 | 81 | 57 |
| 69 | 66 | 80 | 45 | 48 | 47 | 48 | 45 | 45 | 67 | 66 | 61 | 81 |
| 47 | 59 | 54 | 65 | 62 | 65 | 66 | 64 | 66 | 69 | 69 | 71 | 65 |
| 90 | 88 | 95 | 93 | 92 | 84 | 96 | 90 | 83 | 82 | 97 | 93 | 57 |
| — | — | — | — | — | — | — | — | — | — | — | — | 81 |
| 67 | 71 | 73 | 74 | 75 | 76 | 78 | 78 | 77 | 79 | 79 | 80 | 71 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .147 | .129 | .145 | .126 | .140 | .140 | .144 | .140 | .138 | .144 | .166 | .162 | .158 |
| .102 | .113 | .128 | .131 | .123 | .148 | .167 | .135 | .125 | .107 | .097 | .116 | .150 |
| .177 | .176 | .176 | .172 | .175 | .177 | .178 | .178 | .179 | .180 | .176 | .170 | .149 |
| .111 | .121 | .132 | .130 | .122 | .128 | .122 | .119 | .091 | .084 | .078 | .076 | .115 |
| .148 | .136 | .102 | .106 | .081 | .084 | — | — | — | — | — | — | .111 |
| — | — | — | — | — | — | .100 | .100 | — | — | — | .118 | .119 |
| .087 | .086 | .087 | .092 | .095 | .092 | .098 | .109 | .109 | .113 | .105 | .088 | .109 |
| .132 | .132 | .092 | .079 | .076 | .089 | .090 | .088 | .090 | .093 | .092 | .100 | .139 |
| .131 | .131 | .147 | .191 | .160 | .167 | .167 | .144 | .134 | .135 | .143 | .156 | .141 |
| .140 | .133 | .125 | .142 | .133 | .138 | .138 | .149 | .139 | .138 | .128 | .124 | .116 |
| .084 | .079 | .097 | .094 | .132 | .124 | .129 | .102 | .113 | .116 | .123 | .131 | .147 |
| .169 | .190 | .177 | .191 | .168 | .188 | — | — | — | — | — | — | .125 |
| — | — | — | — | — | — | .118 | .136 | .116 | .112 | .115 | .117 | .157 |
| .088 | .053 | .111 | .100 | .109 | .097 | .117 | .112 | .116 | .120 | .134 | .124 | .188 |
| .191 | .205 | .166 | .159 | .159 | .142 | .116 | .128 | .149 | .164 | .138 | .131 | .242 |
| .187 | .220 | .216 | .212 | .214 | .221 | .220 | .218 | .221 | .206 | .208 | .215 | .255 |
| .247 | .248 | .258 | .258 | .256 | .249 | .244 | .246 | .252 | .246 | .243 | .250 | .231 |
| .248 | .259 | .259 | .257 | .249 | .254 | .254 | .276 | .285 | .277 | .286 | .287 | .259 |
| .283 | .271 | .267 | .238 | .233 | .231 | — | — | — | — | — | — | .231 |
| — | — | — | — | — | — | .244 | .239 | .230 | .234 | .239 | .245 | .254 |
| .235 | .234 | .234 | .204 | .207 | .216 | .213 | .197 | .194 | .192 | .190 | .198 | .321 |
| .257 | .247 | .254 | .246 | .239 | .252 | .251 | .256 | .279 | .270 | .265 | .266 | .380 |
| .335 | .316 | .373 | .331 | .317 | .308 | .330 | .375 | .361 | .339 | .326 | .330 | .234 |
| .385 | .379 | .380 | .353 | .355 | .345 | .291 | .276 | .257 | .266 | .244 | .230 | .273 |
| .260 | .238 | .241 | .239 | .240 | .234 | .241 | .249 | .245 | .245 | .245 | .245 | .265 |
| .310 | .302 | .292 | .301 | .309 | .334 | — | — | — | — | — | — | .230 |
| — | — | — | — | — | — | .208 | .215 | .200 | .193 | .192 | .190 | .331 |
| .320 | .278 | .289 | .191 | .194 | .187 | .179 | .159 | .151 | .192 | .192 | .193 | .201 |
| .205 | .236 | .209 | .236 | .222 | .224 | .216 | .214 | .218 | .220 | .217 | .213 | .265 |
| .370 | .358 | .399 | .401 | .398 | .325 | .364 | .379 | .335 | .344 | .353 | .333 | .230 |
| .206 | .203 | .206 | .199 | .196 | .196 | .190 | .190 | .189 | .189 | .188 | .185 | .331 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | MAY. | 1 | 97 | 92 | 84 | 63 | 63 | 61 | 58 | 47 | 38 | 36 | 36 | 42 | |
| | | 2 | 65 | 63 | 53 | 51 | 44 | 48 | 43 | 44 | 39 | 38 | 38 | 32 | |
| | | 3 | 86 | 71 | 72 | 68 | 60 | 57 | 62 | 59 | 61 | 53 | 58 | 54 | |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 5 | 72 | 67 | 55 | 49 | 47 | 44 | 40 | 59 | 54 | 55 | 54 | 63 | |
| | | 6 | 87 | 75 | 69 | 69 | 50 | — | — | — | — | — | 60 | 55 | 54 |
| | | 7 | 72 | 73 | 72 | 76 | 61 | 62 | 58 | 57 | 57 | 47 | 47 | 47 | 39 |
| | | 8 | 48 | 53 | 40 | 53 | 56 | 56 | 54 | 50 | 55 | 60 | 65 | 65 | 58 |
| | | 9 | 82 | 67 | 68 | 61 | 58 | 67 | 64 | 66 | 66 | 65 | 64 | 58 | 56 |
| | | 10 | 74 | 72 | 63 | 71 | 67 | 67 | 70 | 70 | 70 | 69 | 62 | 54 | 50 |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 12 | 87 | 72 | 62 | 69 | 67 | 64 | 63 | 50 | 48 | 55 | 52 | 62 | 62 |
| | | 13 | 96 | 92 | 88 | 62 | 66 | 66 | 68 | 62 | 63 | 56 | 59 | 63 | 63 |
| | | 14 | 88 | 85 | 86 | 82 | 85 | 82 | 94 | 92 | 89 | 91 | 94 | 88 | 88 |
| | | 15 | 89 | 91 | 89 | 91 | 80 | 74 | 68 | 63 | 60 | 55 | 55 | 48 | 48 |
| | | 16 | 73 | 63 | 59 | 59 | 73 | 72 | 78 | 76 | 80 | 78 | 73 | 63 | 63 |
| | | 17 | 82 | 66 | 55 | 66 | 63 | 62 | 72 | 70 | 64 | 64 | 56 | 52 | 52 |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 19 | 79 | 80 | 80 | 75 | 68 | 65 | 59 | 66 | 67 | 81 | 78 | 76 | 76 |
| | | 20 | 72 | 73 | 72 | 62 | 65 | 65 | 79 | 78 | 76 | 77 | 76 | 79 | 79 |
| | | 21 | 71 | 73 | 73 | 66 | 77 | 76 | 73 | 71 | 68 | 67 | 69 | 68 | 68 |
| | | 22 | 72 | 61 | 56 | 57 | 54 | 68 | 73 | 83 | 91 | 92 | 92 | 95 | 95 |
| | | 23 | 94 | 90 | 81 | 86 | 84 | 79 | 78 | 70 | 65 | 62 | 67 | 60 | 60 |
| | | 24 | 60 | 55 | 53 | 52 | 53 | 50 | 51 | 44 | 43 | 41 | 47 | 41 | 41 |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 26 | 62 | 64 | 53 | 53 | 47 | 46 | 45 | 43 | 46 | 53 | 55 | 53 | 53 |
| | | 27 | 79 | 82 | 75 | 65 | 69 | 69 | 69 | 62 | 53 | 54 | 53 | 79 | 75 |
| | | 28 | 82 | 82 | 80 | 88 | 89 | 95 | 95 | 93 | 92 | 85 | 79 | 75 | 75 |
| | | 29 | 69 | 69 | 64 | 66 | 66 | 63 | 61 | 55 | 56 | 55 | 61 | 71 | 71 |
| | | 30 | 76 | 62 | 59 | 54 | 66 | 69 | 67 | 61 | 63 | 60 | 65 | 59 | 59 |
| | | 31 | 82 | 79 | 75 | 73 | 72 | 67 | 65 | 61 | 62 | 55 | 59 | 55 | 55 |
| | | 32 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | 79 | 73 | 68 | 66 | 65 | 65 | 66 | 64 | 62 | 61 | 61 | 59 |
| Tension of the Vapour. | MAY. | 1 | .358 | .417 | .405 | .314 | .343 | .347 | .347 | .288 | .246 | .237 | .236 | .241 | |
| | | 2 | .176 | .180 | .155 | .156 | .145 | .173 | .166 | .181 | .166 | .173 | .180 | .153 | |
| | | 3 | .273 | .260 | .270 | .292 | .287 | .294 | .340 | .304 | .286 | .252 | .259 | .252 | |
| | | 4 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 5 | .152 | .150 | .133 | .130 | .137 | .136 | .140 | .198 | .196 | .203 | .209 | .219 | |
| | | 6 | .209 | .220 | .226 | .247 | .202 | — | — | — | — | .251 | .245 | .229 | |
| | | 7 | .215 | .194 | .181 | .195 | .170 | .184 | .175 | .175 | .185 | .160 | .160 | .129 | |
| | | 8 | .092 | .119 | .101 | .150 | .163 | .166 | .177 | .180 | .198 | .210 | .207 | .191 | |
| | | 9 | .239 | .233 | .258 | .241 | .224 | .263 | .249 | .258 | .275 | .273 | .259 | .258 | |
| | | 10 | .233 | .238 | .229 | .277 | .263 | .311 | .325 | .309 | .316 | .279 | .261 | .262 | |
| | | 11 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 12 | .410 | .424 | .420 | .482 | .486 | .510 | .524 | .450 | .435 | .461 | .417 | .508 | |
| | | 13 | .410 | .457 | .482 | .457 | .521 | .525 | .551 | .519 | .516 | .414 | .427 | .403 | |
| | | 14 | .423 | .451 | .444 | .435 | .493 | .507 | .519 | .543 | .539 | .545 | .548 | .535 | |
| | | 15 | .250 | .227 | .209 | .204 | .196 | .191 | .192 | .192 | .203 | .186 | .192 | .166 | |
| | | 16 | .147 | .141 | .137 | .148 | .210 | .214 | .237 | .229 | .236 | .247 | .242 | .231 | |
| | | 17 | .201 | .210 | .205 | .292 | .292 | .289 | .328 | .330 | .319 | .314 | .284 | .254 | |
| | | 18 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 19 | .327 | .389 | .430 | .440 | .442 | .430 | .385 | .402 | .353 | .435 | .404 | .387 | |
| | | 20 | .204 | .221 | .229 | .216 | .237 | .255 | .328 | .324 | .322 | .332 | .332 | .329 | |
| | | 21 | .198 | .222 | .246 | .245 | .323 | .335 | .327 | .342 | .346 | .355 | .377 | .365 | |
| | | 22 | .202 | .183 | .182 | .204 | .209 | .261 | .251 | .284 | .294 | .295 | .301 | .310 | |
| | | 23 | .232 | .270 | .281 | .352 | .376 | .350 | .354 | .339 | .325 | .299 | .346 | .315 | |
| | | 24 | .148 | .145 | .145 | .155 | .177 | .179 | .181 | .166 | .165 | .149 | .164 | .148 | |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 26 | .236 | .262 | .275 | .295 | .318 | .346 | .363 | .368 | .399 | .462 | .477 | .435 | |
| | | 27 | .311 | .351 | .365 | .370 | .425 | .449 | .482 | .464 | .387 | .359 | .350 | .327 | |
| | | 28 | .372 | .389 | .414 | .457 | .506 | .440 | .470 | .480 | .500 | .565 | .557 | .524 | |
| | | 29 | .148 | .145 | .138 | .145 | .150 | .155 | .169 | .151 | .154 | .148 | .163 | .195 | |
| | | 30 | .160 | .146 | .155 | .155 | .219 | .237 | .225 | .217 | .233 | .234 | .271 | .246 | |
| | | 31 | .224 | .260 | .286 | .302 | .333 | .333 | .338 | .346 | .354 | .329 | .349 | .308 | |
| | | 32 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | Hourly Means | | .243 | .256 | .259 | .272 | .291 | .303 | .314 | .309 | .306 | .302 | .304 | .293 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 54 | 49 | 53 | 57 | 66 | 64 | 80 | 80 | 76 | 67 | 69 | 70 | 63 |
| 41 | 54 | 78 | 82 | 75 | 78 | 78 | 86 | 67 | 71 | 75 | 81 | 59 |
| 54 | 54 | 56 | 61 | 62 | 62 | — | — | — | — | — | — | 59 |
| — | — | — | — | — | — | 44 | 44 | 53 | 36 | 58 | 70 | 70 |
| 67 | 74 | 81 | 80 | 88 | 88 | 93 | 90 | 98 | 83 | 85 | 91 | 76 |
| 64 | 71 | 84 | 79 | 82 | 71 | 89 | 91 | 90 | 92 | 91 | 94 | 59 |
| 40 | 37 | 38 | 50 | 50 | 54 | 58 | 72 | 91 | 83 | 56 | 56 | 67 |
| 72 | 74 | 83 | 82 | 89 | 70 | 71 | 77 | 85 | 86 | 91 | 89 | 71 |
| 54 | 63 | 65 | 81 | 78 | 77 | 85 | 87 | 85 | 84 | 85 | 78 | 74 |
| 53 | 70 | 77 | 87 | 85 | 87 | — | — | — | — | — | — | 73 |
| — | — | — | — | — | — | 88 | 85 | 86 | 85 | 87 | 90 | 78 |
| 70 | 66 | 72 | 78 | 80 | 86 | 84 | 89 | 92 | 90 | 92 | 92 | 88 |
| 66 | 74 | 78 | 82 | 88 | 86 | 91 | 93 | 91 | 96 | 90 | 92 | 71 |
| 86 | 91 | 88 | 87 | 91 | 92 | 87 | 85 | 85 | 84 | 87 | 85 | 75 |
| 48 | 53 | 62 | 61 | 79 | 72 | 80 | 76 | 74 | 72 | 77 | 79 | 68 |
| 63 | 70 | 76 | 83 | 85 | 87 | 87 | 83 | 75 | 78 | 80 | 91 | 74 |
| 49 | 56 | 69 | 83 | 84 | 71 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 76 | 79 | 74 | 73 | 75 | 80 | 75 |
| 77 | 76 | 67 | 91 | 81 | 73 | 77 | 75 | 75 | 73 | 73 | 75 | 71 |
| 64 | 59 | 65 | 69 | 83 | 89 | 81 | 85 | 84 | 86 | 87 | 87 | 85 |
| 68 | 71 | 61 | 62 | 67 | 61 | 62 | 64 | 77 | 81 | 86 | 88 | 67 |
| 95 | 90 | 90 | 93 | 93 | 95 | 97 | 97 | 95 | 98 | 99 | 96 | 55 |
| 56 | 40 | 49 | 48 | 55 | 54 | 53 | 54 | 66 | 74 | 77 | 71 | 57 |
| 44 | 41 | 45 | 59 | 62 | 70 | — | — | — | — | — | — | 70 |
| — | — | — | — | — | — | 67 | 65 | 73 | 78 | 71 | 64 | 70 |
| 78 | 53 | 71 | 72 | 61 | 51 | 52 | 47 | 52 | 69 | 75 | 78 | 74 |
| 57 | 62 | 74 | 77 | 83 | 83 | 85 | — | — | — | 86 | 82 | 70 |
| 81 | 86 | 80 | 87 | 84 | 80 | 80 | 78 | 76 | 74 | 78 | 73 | 83 |
| 55 | 55 | 56 | 60 | 63 | 65 | 70 | 74 | 80 | 85 | 89 | 85 | 66 |
| 63 | 75 | 75 | 83 | 86 | 91 | 91 | 82 | 84 | 93 | 95 | 88 | 74 |
| 64 | 63 | 70 | 80 | 83 | 85 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 84 | 82 | 82 | 89 | 93 | 89 | 70 |
| 62 | 64 | 69 | 75 | 77 | 76 | 77 | 78 | 79 | 80 | 82 | 82 | 70 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·284 | ·238 | ·245 | ·222 | ·240 | ·226 | ·263 | ·264 | ·249 | ·199 | ·189 | ·179 | ·274 |
| ·195 | ·208 | ·261 | ·249 | ·229 | ·239 | ·226 | ·234 | ·198 | ·198 | ·201 | ·231 | ·195 |
| ·262 | ·257 | ·262 | ·267 | ·265 | ·265 | — | — | — | — | — | — | ·238 |
| — | — | — | — | — | — | ·123 | ·118 | ·130 | ·123 | ·122 | ·139 | ·176 |
| ·220 | ·218 | ·205 | ·194 | ·192 | ·177 | ·188 | ·172 | ·179 | ·153 | ·155 | ·167 | ·224 |
| ·231 | ·211 | ·216 | ·192 | ·201 | ·182 | ·226 | ·213 | ·224 | ·247 | ·247 | ·255 | ·147 |
| ·122 | ·097 | ·095 | ·114 | ·110 | ·117 | ·118 | ·134 | ·162 | ·141 | ·094 | ·093 | ·187 |
| ·212 | ·210 | ·237 | ·239 | ·255 | ·195 | ·196 | ·202 | ·195 | ·200 | ·195 | ·202 | ·236 |
| ·228 | ·244 | ·202 | ·224 | ·215 | ·206 | ·214 | ·216 | ·211 | ·218 | ·229 | ·215 | ·302 |
| ·282 | ·324 | ·303 | ·309 | ·288 | ·276 | — | — | — | — | — | — | ·423 |
| — | — | — | — | — | — | ·401 | ·377 | ·360 | ·340 | ·340 | ·346 | ·434 |
| ·488 | ·423 | ·418 | ·399 | ·404 | ·387 | ·403 | ·397 | ·390 | ·370 | ·390 | ·379 | ·441 |
| ·379 | ·408 | ·437 | ·415 | ·396 | ·387 | ·406 | ·400 | ·377 | ·368 | ·382 | ·387 | ·178 |
| ·535 | ·457 | ·460 | ·430 | ·407 | ·456 | ·405 | ·352 | ·308 | ·277 | ·267 | ·253 | ·197 |
| ·159 | ·154 | ·162 | ·151 | ·187 | ·161 | ·166 | ·153 | ·147 | ·139 | ·141 | ·137 | ·281 |
| ·230 | ·227 | ·214 | ·207 | ·203 | ·194 | ·189 | ·177 | ·163 | ·159 | ·161 | ·187 | ·345 |
| ·247 | ·258 | ·261 | ·288 | ·277 | ·244 | — | — | — | — | — | — | ·247 |
| — | — | — | — | — | — | ·318 | ·320 | ·318 | ·303 | ·297 | ·296 | ·267 |
| ·389 | ·387 | ·366 | ·381 | ·297 | ·251 | ·253 | ·242 | ·240 | ·227 | ·219 | ·209 | ·238 |
| ·273 | ·218 | ·211 | ·208 | ·234 | ·228 | ·209 | ·215 | ·204 | ·209 | ·198 | ·198 | ·253 |
| ·363 | ·313 | ·253 | ·215 | ·209 | ·184 | ·179 | ·178 | ·203 | ·202 | ·206 | ·219 | ·179 |
| ·309 | ·294 | ·258 | ·234 | ·222 | ·218 | ·214 | ·221 | ·197 | ·194 | ·194 | ·185 | ·320 |
| ·251 | ·199 | ·214 | ·193 | ·200 | ·183 | ·168 | ·152 | ·173 | ·175 | ·171 | ·152 | ·367 |
| ·147 | ·141 | ·131 | ·153 | ·153 | ·159 | — | — | — | — | — | — | ·356 |
| — | — | — | — | — | — | ·229 | ·234 | ·254 | ·270 | ·251 | ·241 | ·148 |
| ·434 | ·363 | ·339 | ·310 | ·262 | ·235 | ·239 | ·210 | ·218 | ·280 | ·281 | ·278 | ·210 |
| ·366 | ·362 | ·343 | ·338 | ·331 | ·315 | ·322 | — | — | — | ·347 | ·353 | ·297 |
| ·424 | ·334 | ·265 | ·260 | ·252 | ·227 | ·218 | ·202 | ·185 | ·173 | ·175 | ·161 | — |
| ·151 | ·136 | ·129 | ·131 | ·135 | ·135 | ·140 | ·142 | ·144 | ·150 | ·149 | ·151 | — |
| ·236 | ·242 | ·225 | ·237 | ·227 | ·213 | ·195 | ·187 | ·202 | ·199 | ·190 | ·182 | — |
| ·322 | ·291 | ·286 | ·297 | ·284 | ·264 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·271 | ·265 | ·265 | ·271 | ·275 | ·283 | — |
| ·287 | ·267 | ·259 | ·254 | ·247 | ·234 | ·240 | ·230 | ·227 | ·223 | ·225 | ·225 | ·265 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | JUNE. | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | | 2 | 81 | 80 | 83 | 78 | 78 | 74 | 75 | 76 | 76 | 75 | 76 | 76 |
| | | 3 | 87 | 85 | 82 | 84 | 83 | 80 | 75 | 73 | 73 | 76 | 77 | 72 |
| | | 4 | 88 | 80 | 79 | 78 | 84 | 79 | 81 | 77 | 80 | 85 | 79 | 80 |
| | | 5 | 78 | 75 | 68 | 65 | 65 | 62 | 61 | 56 | 53 | 47 | 72 | 72 |
| | | 6 | 80 | 70 | 66 | 62 | 77 | 71 | 78 | 79 | 89 | 90 | 91 | 89 |
| | | 7 | 96 | 89 | 93 | 96 | 94 | 95 | 88 | 88 | 87 | 87 | 81 | 87 |
| | | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 9 | 67 | 61 | 61 | 64 | 42 | 45 | 39 | 34 | 49 | 36 | 36 | 50 |
| | | 10 | 86 | 70 | 62 | 74 | 73 | 72 | 68 | 61 | 63 | 66 | 65 | 70 |
| | | 11 | 89 | 88 | 82 | 79 | 78 | 81 | 77 | 77 | 78 | 77 | 79 | 77 |
| | | 12 | 96 | 96 | 95 | 95 | 93 | 91 | 90 | 88 | 84 | 88 | 73 | 72 |
| | | 13 | 87 | 77 | 70 | 68 | 78 | 83 | 67 | 72 | 73 | 74 | 81 | 47 |
| | | 14 | 77 | 64 | 58 | 49 | 63 | 74 | 43 | 42 | 40 | 45 | 36 | 38 |
| | | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 16 | 84 | 77 | 85 | 78 | 81 | 82 | 84 | 76 | 82 | 83 | 88 | 89 |
| | | 17 | 88 | 71 | 58 | 56 | 53 | 49 | 45 | 46 | 47 | 39 | 39 | 35 |
| | | 18 | 90 | 81 | 83 | 77 | 75 | 70 | 65 | 66 | 65 | 62 | 67 | 67 |
| | | 19 | 81 | 77 | 75 | 72 | 72 | 75 | 69 | 64 | 61 | 60 | 59 | 64 |
| | | 20 | 89 | 82 | 81 | 76 | 80 | 80 | 83 | 76 | 73 | 75 | 78 | 82 |
| | | 21 | 91 | 83 | 74 | 70 | 66 | 53 | 54 | 44 | 54 | 64 | 64 | 53 |
| | | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 23 | 87 | 77 | 81 | 79 | 77 | 75 | 78 | 53 | 44 | 39 | 44 | 42 |
| | | 24 | 90 | 83 | 78 | 77 | 75 | 72 | 68 | 77 | 73 | 56 | 64 | 66 |
| | | 25 | 68 | 60 | 54 | 56 | 57 | 70 | 71 | 67 | 63 | 67 | 71 | 32 |
| | | 26 | 83 | 71 | 64 | 78 | 80 | 62 | 59 | 63 | 66 | 68 | 68 | 69 |
| | | 27 | 82 | 74 | 76 | 80 | 76 | 73 | 71 | 63 | 66 | 66 | 68 | 68 |
| | | 28 | 76 | 88 | 92 | 90 | 88 | 84 | 84 | 80 | 86 | 89 | 83 | 83 |
| | | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 30 | 84 | 75 | 74 | 78 | 81 | 81 | 71 | 75 | 71 | 77 | 73 | 73 |
| | | Hourly Means | | 84 | 77 | 75 | 74 | 75 | 73 | 70 | 67 | 68 | 68 | 68 |
| Tension of the Vapour. | JUNE. | 1 | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | |
| | | 2 | .323 | .337 | .373 | .430 | .492 | .442 | .433 | .509 | .514 | .555 | .541 | .576 |
| | | 3 | .454 | .471 | .455 | .472 | .499 | .587 | .609 | .587 | .555 | .563 | .551 | .521 |
| | | 4 | .446 | .504 | .538 | .469 | .547 | .592 | .699 | .612 | .520 | .536 | .572 | .573 |
| | | 5 | .311 | .301 | .288 | .290 | .322 | .312 | .327 | .318 | .320 | .305 | .432 | .421 |
| | | 6 | .291 | .281 | .274 | .284 | .374 | .353 | .346 | .339 | .381 | .373 | .388 | .373 |
| | | 7 | .344 | .384 | .357 | .353 | .389 | .416 | .424 | .428 | .434 | .417 | .446 | .465 |
| | | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 9 | .458 | .447 | .463 | .530 | .381 | .446 | .393 | .368 | .344 | .404 | .409 | .558 |
| | | 10 | .453 | .457 | .459 | .499 | .544 | .588 | .599 | .583 | .555 | .513 | .489 | .487 |
| | | 11 | .460 | .459 | .475 | .476 | .501 | .537 | .565 | .583 | .597 | .590 | .572 | .536 |
| | | 12 | .473 | .475 | .472 | .485 | .555 | .624 | .673 | .608 | .601 | .608 | .593 | .610 |
| | | 13 | .338 | .420 | .409 | .429 | .542 | .553 | .511 | .510 | .552 | .550 | .667 | .370 |
| | | 14 | .308 | .274 | .279 | .265 | .362 | .439 | .274 | .265 | .249 | .266 | .228 | .239 |
| | | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 16 | .327 | .321 | .368 | .383 | .382 | .408 | .409 | .376 | .391 | .383 | .387 | .385 |
| | | 17 | .275 | .259 | .232 | .240 | .234 | .234 | .231 | .247 | .253 | .228 | .228 | .215 |
| | | 18 | .325 | .338 | .394 | .404 | .397 | .418 | .406 | .405 | .397 | .406 | .428 | .396 |
| | | 19 | .322 | .348 | .417 | .420 | .464 | .488 | .464 | .450 | .433 | .449 | .453 | .487 |
| | | 20 | .361 | .281 | .443 | .459 | .531 | .573 | .584 | .543 | .541 | .527 | .541 | .524 |
| | | 21 | .495 | .469 | .455 | .441 | .450 | .372 | .397 | .337 | .411 | .488 | .484 | .388 |
| | | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 23 | .408 | .412 | .488 | .531 | .583 | .580 | .586 | .514 | .453 | .405 | .448 | .430 |
| | | 24 | .531 | .560 | .588 | .612 | .623 | .630 | .611 | .668 | .586 | .564 | .602 | .636 |
| | | 25 | .312 | .303 | .287 | .328 | .342 | .413 | .426 | .397 | .386 | .400 | .457 | .223 |
| | | 26 | .308 | .313 | .333 | .481 | .497 | .384 | .389 | .456 | .468 | .488 | .505 | .369 |
| | | 27 | .370 | .404 | .478 | .529 | .505 | .492 | .478 | .469 | .515 | .338 | .574 | .578 |
| | | 28 | .359 | .400 | .422 | .445 | .464 | .450 | .469 | .417 | .458 | .450 | .447 | .462 |
| | | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 30 | .374 | .369 | .377 | .381 | .401 | .382 | .359 | .360 | .346 | .374 | .356 | .363 |
| | | Hourly Means | | .377 | .383 | .405 | .425 | .455 | .469 | .466 | .454 | .450 | .447 | .472 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| 76 | 76 | 79 | 87 | 86 | 91 | 91 | 94 | 92 | 95 | 93 | 91 | 82 |
| 73 | 76 | 89 | 91 | 91 | 96 | 95 | 96 | 96 | — | — | 91 | 77 |
| 80 | 85 | 88 | 91 | 92 | 94 | 92 | 92 | 92 | 92 | 78 | 85 | 85 |
| 75 | 76 | 67 | 66 | 70 | 70 | 85 | 77 | 84 | 89 | 84 | 87 | 71 |
| 89 | 89 | 90 | 96 | 94 | 94 | 97 | 95 | 98 | 97 | 96 | 95 | 86 |
| 86 | 90 | 92 | 93 | 91 | 93 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 73 | 56 | 55 | 60 | 64 | 69 | 83 |
| 72 | 72 | 75 | 79 | 80 | 82 | 81 | 88 | 90 | 92 | 95 | 92 | 66 |
| 79 | 89 | 92 | 94 | 94 | 92 | 95 | 93 | 91 | 91 | 92 | 91 | 72 |
| 83 | 84 | 92 | 92 | 94 | 95 | 93 | 98 | 97 | 97 | 100 | 96 | 87 |
| 64 | 71 | 81 | 88 | 87 | 90 | 86 | 79 | 78 | 87 | 91 | 87 | 85 |
| 58 | 62 | 64 | 69 | 75 | 87 | 78 | 87 | 89 | 81 | 72 | 75 | 74 |
| 37 | 40 | 71 | 73 | 75 | 82 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 93 | 81 | 86 | 84 | 88 | 91 | 64 |
| 93 | 93 | 90 | 77 | 73 | 76 | 79 | 85 | 90 | 92 | 89 | 89 | 84 |
| 39 | 46 | 60 | 82 | 83 | 76 | 79 | 90 | 93 | 94 | 97 | 93 | 65 |
| 72 | 78 | 80 | 68 | 72 | 78 | 71 | 69 | 81 | 81 | 90 | 89 | 75 |
| 72 | 76 | 83 | 88 | 93 | 88 | 90 | 88 | 91 | 94 | 93 | 96 | 78 |
| 81 | 85 | 86 | 84 | 86 | 86 | 89 | 93 | 95 | 94 | 95 | 88 | 84 |
| 54 | 58 | 76 | 81 | 85 | 86 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 77 | 77 | 79 | 86 | 87 | 90 | 71 |
| 48 | 66 | 72 | 69 | 75 | 85 | 82 | 87 | 91 | 91 | 93 | 89 | 72 |
| 56 | 60 | 68 | 70 | 71 | 76 | 80 | 81 | 79 | 87 | 81 | 79 | 74 |
| 33 | 45 | 56 | 74 | 74 | 79 | 83 | 83 | 75 | 80 | 90 | 91 | 67 |
| 38 | 44 | 42 | 62 | 73 | 80 | 78 | 85 | 76 | 76 | 86 | 85 | 69 |
| 74 | 75 | 80 | 80 | 88 | 81 | 85 | 83 | 85 | 91 | 88 | 85 | 77 |
| 84 | 83 | 89 | 93 | 93 | 95 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 86 | 88 | 93 | 92 | 90 | 90 | 87 |
| 74 | 81 | 82 | 90 | 91 | 94 | 94 | 94 | 95 | 95 | 96 | 91 | 83 |
| 68 | 72 | 78 | 81 | 83 | 86 | 85 | 86 | 87 | 88 | 89 | 88 | 77 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·558 | ·496 | ·477 | ·464 | ·452 | ·466 | ·474 | ·456 | ·457 | ·445 | ·428 | ·417 | ·463 |
| ·508 | ·511 | ·482 | ·460 | ·480 | ·447 | ·441 | ·439 | ·412 | — | — | ·365 | ·494 |
| ·544 | ·515 | ·484 | ·463 | ·466 | ·474 | ·468 | ·479 | ·473 | ·465 | ·391 | ·351 | ·507 |
| ·384 | ·370 | ·322 | ·279 | ·290 | ·290 | ·338 | ·300 | ·324 | ·310 | ·282 | ·282 | ·322 |
| ·386 | ·370 | ·352 | ·363 | ·333 | ·315 | ·304 | ·290 | ·290 | ·299 | ·302 | ·306 | ·332 |
| ·426 | ·408 | ·399 | ·394 | ·388 | ·383 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·554 | ·431 | ·412 | ·423 | ·427 | ·433 | ·414 |
| ·596 | ·534 | ·496 | ·474 | ·460 | ·461 | ·417 | ·409 | ·397 | ·406 | ·379 | ·386 | ·442 |
| ·517 | ·559 | ·554 | ·557 | ·541 | ·541 | ·536 | ·455 | ·426 | ·433 | ·431 | ·448 | ·509 |
| ·540 | ·527 | ·497 | ·456 | ·460 | ·457 | ·457 | ·476 | ·470 | ·475 | ·500 | ·474 | ·501 |
| ·524 | ·539 | ·524 | ·514 | ·502 | ·516 | ·523 | ·474 | ·446 | ·451 | ·440 | ·417 | ·527 |
| ·401 | ·410 | ·367 | ·375 | ·384 | ·418 | ·360 | ·388 | ·384 | ·339 | ·299 | ·303 | ·428 |
| ·227 | ·218 | ·288 | ·256 | ·242 | ·257 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·392 | ·341 | ·335 | ·309 | ·307 | ·325 | ·289 |
| ·395 | ·384 | ·376 | ·333 | ·288 | ·297 | ·278 | ·265 | ·260 | ·249 | ·228 | ·227 | ·338 |
| ·232 | ·259 | ·299 | ·343 | ·327 | ·300 | ·284 | ·287 | ·266 | ·255 | ·246 | ·249 | ·259 |
| ·380 | ·380 | ·363 | ·325 | ·326 | ·326 | ·305 | ·289 | ·285 | ·283 | ·285 | ·276 | ·356 |
| ·516 | ·491 | ·411 | ·371 | ·359 | ·329 | ·331 | ·321 | ·312 | ·307 | ·284 | ·323 | ·398 |
| ·489 | ·496 | ·496 | ·575 | ·509 | ·511 | ·489 | ·496 | ·501 | ·493 | ·494 | ·476 | ·497 |
| ·317 | ·359 | ·397 | ·386 | ·558 | ·560 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·343 | ·335 | ·330 | ·319 | ·317 | ·330 | ·406 |
| ·452 | ·556 | ·539 | ·504 | ·484 | ·495 | ·468 | ·457 | ·454 | ·436 | ·464 | ·457 | ·483 |
| ·500 | ·471 | ·475 | ·461 | ·445 | ·462 | ·453 | ·427 | ·408 | ·420 | ·361 | ·329 | ·518 |
| ·217 | ·263 | ·252 | ·316 | ·298 | ·281 | ·280 | ·250 | ·252 | ·264 | ·268 | ·255 | ·311 |
| ·323 | ·304 | ·250 | ·303 | ·300 | ·304 | ·281 | ·281 | ·255 | ·259 | ·326 | ·318 | ·354 |
| ·570 | ·518 | ·337 | ·417 | ·413 | ·361 | ·382 | ·373 | ·387 | ·399 | ·374 | ·373 | ·443 |
| ·469 | ·449 | ·462 | ·415 | ·408 | ·415 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | ·381 | ·376 | ·381 | ·364 | ·357 | ·357 | ·420 |
| ·343 | ·339 | ·332 | ·352 | ·361 | ·354 | ·317 | ·317 | ·319 | ·328 | ·331 | ·318 | ·352 |
| ·433 | ·429 | ·409 | ·406 | ·403 | ·401 | ·394 | ·376 | ·369 | ·364 | ·355 | ·352 | ·414 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | JULY. | 1 | 96 | 92 | 84 | 79 | 82 | 80 | 78 | 81 | 91 | 94 | 94 | 94 |
| | | 2 | 76 | 83 | 81 | 80 | 82 | 82 | 83 | 79 | 83 | 82 | 82 | 90 |
| | | 3 | 78 | 74 | 70 | 62 | 58 | 69 | 72 | 77 | 55 | 50 | 51 | 47 |
| | | 4 | 86 | 81 | 79 | 78 | 68 | 64 | 76 | 77 | 72 | 73 | 69 | 73 |
| | | 5 | 90 | 81 | 81 | 78 | 78 | 72 | 62 | 66 | 63 | 71 | 65 | 62 |
| | | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 7 | 84 | 80 | 73 | 66 | 63 | 62 | 56 | 53 | 48 | 56 | 52 | 55 |
| | | 8 | 94 | 85 | 80 | 74 | 73 | 70 | 65 | 64 | 50 | 52 | 58 | 50 |
| | | 9 | 69 | 59 | 42 | 44 | 44 | 46 | 51 | 52 | 47 | 42 | 45 | 53 |
| | | 10 | 85 | 71 | 55 | 51 | 85 | 42 | 66 | 36 | 40 | 43 | 51 | 51 |
| | | 11 | 86 | 70 | 60 | 62 | 55 | 56 | 55 | 54 | 55 | 57 | 55 | 63 |
| | | 12 | 76 | 72 | 70 | 71 | 66 | 57 | 59 | 40 | 45 | 35 | 38 | 37 |
| | | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 14 | 83 | 70 | 72 | 63 | 68 | 59 | 57 | 58 | 54 | 55 | 54 | 56 |
| | | 15 | 76 | 64 | 57 | 42 | 41 | 33 | 43 | 45 | 48 | 49 | 49 | 51 |
| | | 16 | 86 | 78 | 67 | 68 | 72 | 72 | 66 | 62 | 74 | 55 | 64 | 69 |
| | | 17 | 90 | 86 | 81 | 65 | 56 | 57 | 49 | 46 | 44 | 35 | 36 | 41 |
| | | 18 | 68 | 64 | 57 | 49 | 45 | 38 | 47 | 63 | 64 | 59 | 61 | 59 |
| | | 19 | 82 | 81 | 84 | 86 | 86 | 72 | 73 | 74 | 72 | 67 | 64 | 73 |
| | | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 21 | 95 | 92 | 90 | 91 | 79 | 70 | 75 | 70 | 60 | 58 | 60 | 65 |
| | | 22 | 75 | 71 | 67 | 56 | 86 | 47 | 51 | 44 | 43 | 47 | 50 | 53 |
| | | 23 | 76 | 67 | 58 | 55 | 55 | 44 | 42 | 56 | 68 | 68 | 69 | 49 |
| | | 24 | 78 | 77 | 80 | 73 | 73 | 72 | 64 | 56 | 55 | 51 | 51 | 56 |
| | | 25 | 83 | 76 | 67 | 48 | 56 | 54 | 53 | 52 | 52 | 50 | 48 | 50 |
| | | 26 | 88 | 77 | 68 | 72 | 67 | 65 | 63 | 54 | 61 | 48 | 53 | 56 |
| | | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 28 | 72 | 71 | 61 | 51 | 50 | 50 | 49 | 43 | 36 | 34 | 37 | 35 |
| | | 29 | 80 | 80 | 89 | 96 | 91 | 94 | 98 | 92 | 92 | 85 | 95 | 96 |
| | | 30 | 82 | 82 | 77 | 78 | 74 | 73 | 69 | 69 | 75 | 76 | 66 | 68 |
| | | 31 | 84 | 82 | 70 | 69 | 61 | 61 | 57 | 56 | 47 | 53 | 52 | 53 |
| | | Hourly Means | | 82 | 77 | 71 | 67 | 67 | 62 | 62 | 60 | 59 | 57 | 58 |
| Tension of the Vapour. | JULY. | 1 | In. .358 | In. .385 | In. .389 | In. .394 | In. .408 | In. .400 | In. .389 | In. .390 | In. .395 | In. .401 | In. .407 | In. .436 |
| | | 2 | .372 | .388 | .407 | .420 | .444 | .508 | .496 | .495 | .511 | .469 | .468 | .492 |
| | | 3 | .286 | .310 | .312 | .306 | .304 | .384 | .417 | .433 | .337 | .307 | .320 | .289 |
| | | 4 | .338 | .331 | .360 | .354 | .357 | .350 | .443 | .483 | .447 | .466 | .438 | .476 |
| | | 5 | .352 | .360 | .436 | .502 | .515 | .513 | .450 | .495 | .482 | .572 | .484 | .462 |
| | | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 7 | .517 | .607 | .622 | .624 | .641 | .657 | .632 | .585 | .516 | .606 | .537 | .552 |
| | | 8 | .472 | .526 | .587 | .655 | .612 | .617 | .644 | .658 | .529 | .585 | .449 | .496 |
| | | 9 | .386 | .367 | .286 | .308 | .318 | .327 | .373 | .417 | .392 | .354 | .398 | .456 |
| | | 10 | .341 | .375 | .381 | .412 | .511 | .383 | .470 | .322 | .383 | .422 | .481 | .460 |
| | | 11 | .426 | .474 | .469 | .582 | .557 | .623 | .684 | .671 | .704 | .781 | .704 | .707 |
| | | 12 | .482 | .598 | .633 | .704 | .743 | .782 | .868 | .605 | .702 | .559 | .603 | .581 |
| | | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 14 | .653 | .628 | .654 | .715 | .723 | .683 | .699 | .700 | .691 | .713 | .725 | .712 |
| | | 15 | .539 | .530 | .498 | .420 | .437 | .375 | .493 | .538 | .600 | .627 | .630 | .643 |
| | | 16 | .497 | .647 | .615 | .670 | .758 | .825 | .834 | .807 | .851 | .684 | .750 | .795 |
| | | 17 | .686 | .690 | .709 | .630 | .566 | .590 | .541 | .541 | .533 | .437 | .441 | .450 |
| | | 18 | .374 | .392 | .378 | .359 | .349 | .312 | .308 | .574 | .525 | .555 | .575 | .586 |
| | | 19 | .432 | .443 | .495 | .495 | .513 | .530 | .553 | .549 | .558 | .568 | .504 | .560 |
| | | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 21 | .674 | .752 | .753 | .755 | .778 | .782 | .809 | .805 | .727 | .704 | .770 | .753 |
| | | 22 | .423 | .442 | .477 | .463 | .434 | .448 | .452 | .396 | .406 | .439 | .397 | .426 |
| | | 23 | .377 | .346 | .319 | .301 | .321 | .283 | .275 | .357 | .449 | .455 | .437 | .328 |
| | | 24 | .367 | .426 | .374 | .349 | .367 | .365 | .357 | .355 | .372 | .364 | .375 | .386 |
| | | 25 | .373 | .430 | .457 | .354 | .454 | .436 | .450 | .442 | .458 | .433 | .426 | .410 |
| | | 26 | .388 | .426 | .469 | .494 | .522 | .516 | .532 | .483 | .569 | .467 | .501 | .496 |
| | | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 28 | .395 | .394 | .374 | .358 | .353 | .366 | .338 | .310 | .285 | .283 | .308 | .280 |
| | | 29 | .377 | .400 | .442 | .489 | .495 | .526 | .562 | .568 | .616 | .620 | .620 | .582 |
| | | 30 | .377 | .381 | .361 | .369 | .355 | .349 | .353 | .375 | .373 | .382 | .356 | .329 |
| | | 31 | .315 | .351 | .359 | .388 | .367 | .361 | .359 | .354 | .315 | .353 | .350 | .357 |
| | | Hourly Means | | .429 | .459 | .467 | .477 | .489 | .492 | .510 | .508 | .508 | .504 | .498 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 96 | 96 | 96 | 97 | 97 | 96 | 98 | 96 | 96 | 92 | 89 | 94 | 91 |
| 91 | 92 | 97 | 92 | 91 | 88 | 80 | 88 | 94 | 90 | 90 | 81 | 86 |
| 52 | 52 | 64 | 69 | 74 | 80 | 80 | 82 | 87 | 88 | 88 | 91 | 70 |
| 79 | 75 | 87 | 84 | 88 | 84 | 84 | 80 | 91 | 93 | 96 | 95 | 80 |
| 68 | 68 | 76 | 86 | 86 | 81 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 82 | 87 | 87 | 91 | 95 | 87 | 78 |
| 57 | 66 | 75 | 77 | 83 | 87 | 88 | 94 | 89 | 92 | 95 | 98 | 73 |
| 32 | 45 | 53 | 59 | 53 | 58 | 74 | 77 | 76 | 75 | 78 | 78 | 65 |
| 59 | 61 | 69 | 75 | 76 | 79 | 72 | 86 | 89 | 89 | 89 | 91 | 64 |
| 55 | 58 | 74 | 83 | 83 | 77 | 78 | 85 | 85 | 90 | 94 | 95 | 68 |
| 55 | 60 | 75 | 83 | 83 | 83 | 86 | 87 | 90 | 88 | 88 | 88 | 69 |
| 48 | 44 | 60 | 60 | 64 | 64 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 84 | 85 | 76 | 82 | 88 | 85 | 63 |
| 59 | 71 | 81 | 89 | 92 | 92 | 94 | 92 | 93 | 88 | 90 | 88 | 74 |
| 59 | 69 | 80 | 82 | 77 | 85 | 84 | 81 | 80 | 88 | 89 | 93 | 65 |
| 58 | 74 | 81 | 87 | 89 | 92 | 92 | 89 | 95 | 97 | 96 | 92 | 78 |
| 40 | 44 | 59 | 65 | 62 | 71 | 66 | 70 | 77 | 81 | 86 | 79 | 62 |
| 63 | 70 | 84 | 78 | 80 | 82 | 85 | 83 | 81 | 82 | 77 | 84 | 68 |
| 73 | 79 | 87 | 90 | 89 | 94 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 92 | 97 | 98 | 98 | 97 | 97 | 83 |
| 91 | 87 | 93 | 98 | 68 | 72 | 73 | 78 | 78 | 86 | 83 | 78 | 79 |
| 53 | 54 | 61 | 70 | 77 | 82 | 85 | 85 | 92 | 88 | 91 | 88 | 67 |
| 43 | 57 | 58 | 77 | 62 | 69 | 81 | 63 | 71 | 65 | 71 | 69 | 62 |
| 52 | 74 | 83 | 76 | 82 | 85 | 88 | 90 | 87 | 87 | 85 | 83 | 68 |
| 60 | 72 | 76 | 79 | 83 | 90 | 85 | 88 | 84 | 85 | 82 | 90 | 69 |
| 65 | 81 | 80 | 76 | 62 | 60 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | 68 | 72 | 75 | 75 | 82 | 70 | 68 |
| 44 | 46 | 54 | 60 | 80 | 84 | 85 | 80 | 79 | 87 | 87 | 81 | 61 |
| 93 | 94 | 97 | 98 | 99 | 93 | 91 | 92 | 93 | 90 | 88 | 89 | 92 |
| 72 | 69 | 70 | 70 | 72 | 72 | 74 | 76 | 84 | 81 | 89 | 95 | 75 |
| 58 | 72 | 82 | 79 | 87 | 90 | 90 | 92 | 95 | 95 | 97 | 96 | 74 |
| 62 | 68 | 76 | 79 | 79 | 81 | 83 | 84 | 86 | 87 | 88 | 86 | 72 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .448 | .448 | .454 | .449 | .443 | .442 | .445 | .423 | .422 | .405 | .386 | .408 | .413 |
| .462 | .459 | .457 | .431 | .438 | .419 | .353 | .323 | .306 | .277 | .276 | .287 | .415 |
| .303 | .272 | .293 | .302 | .317 | .331 | .328 | .319 | .324 | .312 | .314 | .315 | .322 |
| .499 | .425 | .400 | .562 | .352 | .335 | .324 | .307 | .315 | .291 | .290 | .297 | .385 |
| .451 | .429 | .428 | .446 | .439 | .426 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .468 | .461 | .458 | .470 | .478 | .463 | .460 |
| .562 | .566 | .565 | .530 | .538 | .480 | .483 | .467 | .393 | .401 | .418 | .442 | .539 |
| .321 | .403 | .403 | .434 | .372 | .378 | .424 | .419 | .366 | .355 | .324 | .343 | .474 |
| .465 | .397 | .344 | .338 | .316 | .322 | .306 | .319 | .311 | .298 | .293 | .305 | .350 |
| .466 | .405 | .402 | .400 | .386 | .357 | .356 | .357 | .344 | .353 | .353 | .352 | .395 |
| .563 | .544 | .565 | .550 | .520 | .517 | .518 | .508 | .510 | .475 | .479 | .344 | .561 |
| .724 | .577 | .609 | .558 | .621 | .618 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .695 | .687 | .668 | .676 | .668 | .651 | .651 |
| .677 | .712 | .697 | .697 | .662 | .612 | .577 | .541 | .530 | .510 | .491 | .485 | .645 |
| .666 | .646 | .571 | .536 | .527 | .545 | .495 | .466 | .487 | .505 | .462 | .512 | .531 |
| .688 | .762 | .748 | .717 | .681 | .667 | .688 | .660 | .704 | .688 | .677 | .636 | .710 |
| .446 | .433 | .473 | .430 | .462 | .474 | .426 | .413 | .403 | .374 | .361 | .357 | .494 |
| .590 | .573 | .495 | .400 | .368 | .364 | .359 | .344 | .342 | .343 | .343 | .382 | .425 |
| .520 | .514 | .524 | .504 | .479 | .527 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .728 | .722 | .685 | .678 | .624 | .578 | .553 |
| .643 | .756 | .645 | .648 | .512 | .482 | .478 | .446 | .435 | .417 | .405 | .394 | .638 |
| .406 | .396 | .419 | .419 | .434 | .419 | .422 | .423 | .446 | .419 | .419 | .398 | .426 |
| .279 | .343 | .329 | .433 | .330 | .346 | .358 | .299 | .324 | .310 | .333 | .320 | .352 |
| .389 | .443 | .396 | .372 | .408 | .388 | .371 | .349 | .361 | .358 | .339 | .425 | .377 |
| .464 | .482 | .438 | .420 | .398 | .392 | .374 | .365 | .356 | .360 | .361 | .339 | .411 |
| .536 | .535 | .512 | .492 | .402 | .393 | — | — | — | — | — | — | — |
| — | — | — | — | — | — | .367 | .368 | .383 | .391 | .421 | .372 | .460 |
| .320 | .303 | .311 | .327 | .340 | .324 | .315 | .318 | .325 | .366 | .366 | .361 | .334 |
| .577 | .549 | .563 | .551 | .527 | .492 | .465 | .422 | .411 | .440 | .444 | .433 | .507 |
| .337 | .325 | .309 | .299 | .293 | .289 | .287 | .292 | .304 | .292 | .301 | .244 | .330 |
| .356 | .393 | .390 | .371 | .390 | .384 | .358 | .336 | .323 | .347 | .364 | .371 | .359 |
| .487 | .485 | .472 | .467 | .443 | .434 | .436 | .421 | .416 | .412 | .407 | .401 | .464 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|---------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | AUGUST. | 1 | 89 | 79 | 75 | 73 | 67 | 66 | 62 | 55 | 64 | 73 | 75 | 71 |
| | | 2 | 65 | 81 | 73 | 67 | 65 | 54 | 56 | 62 | 54 | 55 | 58 | 55 |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 4 | 89 | 80 | 73 | 65 | 67 | 55 | 63 | 55 | 49 | 55 | 57 | 63 |
| | | 5 | 87 | 76 | 68 | 66 | 65 | 60 | 59 | 58 | 65 | 59 | 65 | 70 |
| | | 6 | 89 | 83 | 73 | 72 | 69 | 67 | 59 | 55 | 52 | 61 | 61 | 55 |
| | | 7 | 92 | 82 | 75 | 70 | 68 | 70 | 68 | 61 | 63 | 59 | 56 | 65 |
| | | 8 | 90 | 96 | 98 | 93 | 89 | 86 | 73 | 70 | 67 | 71 | 75 | 80 |
| | | 9 | 96 | 87 | 84 | 80 | 76 | 75 | 76 | 75 | 72 | 70 | 72 | 76 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | 98 | 99 | 94 | 93 | 89 | 81 | 78 | 94 | 90 | 88 | 82 | 76 |
| | | 12 | 84 | 77 | 90 | 93 | 49 | 66 | 69 | 68 | 61 | 31 | 42 | 45 |
| | | 13 | 84 | 82 | 77 | 84 | 87 | 91 | 93 | 90 | 87 | 93 | 91 | 91 |
| | | 14 | 91 | 84 | 74 | 61 | 72 | 70 | 65 | 63 | 50 | 51 | 54 | 61 |
| | | 15 | 91 | 72 | 70 | 61 | 62 | 50 | 53 | 91 | 56 | 56 | 56 | 51 |
| | | 16 | 76 | 64 | 56 | 63 | 57 | 60 | 60 | 60 | 59 | 57 | 59 | 66 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | 93 | 93 | 96 | 91 | 91 | 81 | 79 | 78 | 81 | 72 | 72 | 76 |
| | | 19 | 96 | 85 | 86 | 83 | 84 | 80 | 80 | 80 | 78 | 77 | 74 | 80 |
| | | 20 | 96 | 97 | 97 | 85 | 80 | 80 | 77 | 75 | 75 | 75 | 74 | 79 |
| | | 21 | 96 | 91 | 84 | 78 | 74 | 69 | 72 | 75 | 66 | 64 | 67 | 70 |
| | | 22 | 82 | 80 | 73 | 66 | 66 | 61 | 66 | 84 | 72 | 65 | 62 | 74 |
| | | 23 | 87 | 82 | 70 | 71 | 67 | 64 | 67 | 63 | 66 | 69 | 69 | 71 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | 86 | 82 | 71 | 59 | 58 | 59 | 55 | 52 | 53 | 49 | 55 | 55 |
| | | 26 | 88 | 84 | 73 | 65 | 63 | 62 | 63 | 67 | 68 | 67 | 63 | 64 |
| | | 27 | 89 | 91 | 94 | 92 | 87 | 83 | 79 | 78 | 76 | 85 | 81 | 84 |
| | | 28 | 82 | 76 | 71 | 75 | 76 | 75 | 76 | 77 | 72 | 71 | 64 | 68 |
| | | 29 | 95 | 87 | 86 | 83 | 80 | 77 | 78 | 83 | 78 | 70 | 75 | 79 |
| | | 30 | 94 | 94 | 97 | 91 | 79 | 66 | 62 | 60 | 55 | 55 | 57 | 57 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | 89 | 84 | 80 | 76 | 73 | 70 | 69 | 70 | 67 | 65 | 66 | 69 | |
| Tension of the Vapour. | AUGUST. | 1 | In. .393 | In. .396 | In. .432 | In. .463 | In. .433 | In. .481 | In. .433 | In. .435 | In. .497 | In. .481 | In. .489 | In. .465 |
| | | 2 | .224 | .384 | .426 | .422 | .440 | .384 | .402 | .391 | .406 | .416 | .453 | .395 |
| | | 3 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 4 | .393 | .483 | .497 | .481 | .546 | .512 | .550 | .520 | .503 | .533 | .539 | .542 |
| | | 5 | .427 | .481 | .500 | .509 | .536 | .551 | .586 | .594 | .655 | .595 | .610 | .620 |
| | | 6 | .469 | .545 | .441 | .641 | .629 | .616 | .581 | .554 | .516 | .568 | .545 | .525 |
| | | 7 | .441 | .357 | .584 | .623 | .631 | .665 | .676 | .651 | .706 | .656 | .647 | .644 |
| | | 8 | .576 | .602 | .627 | .615 | .618 | .643 | .646 | .633 | .631 | .619 | .655 | .659 |
| | | 9 | .577 | .635 | .704 | .746 | .727 | .742 | .752 | .776 | .757 | .748 | .785 | .798 |
| | | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 11 | .614 | .641 | .641 | .643 | .680 | .712 | .710 | .694 | .697 | .689 | .678 | .697 |
| | | 12 | .456 | .481 | .636 | .704 | .412 | .577 | .555 | .529 | .529 | .301 | .395 | .439 |
| | | 13 | .394 | .441 | .442 | .492 | .526 | .551 | .562 | .563 | .591 | .601 | .654 | .620 |
| | | 14 | .436 | .460 | .456 | .417 | .530 | .524 | .506 | .493 | .399 | .424 | .454 | .475 |
| | | 15 | .416 | .425 | .484 | .465 | .480 | .409 | .429 | .329 | .457 | .460 | .464 | .422 |
| | | 16 | .387 | .427 | .429 | .524 | .520 | .537 | .539 | .571 | .553 | .532 | .552 | .604 |
| | | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 18 | .636 | .654 | .690 | .708 | .767 | .739 | .685 | .732 | .726 | .733 | .768 | .766 |
| | | 19 | .538 | .543 | .552 | .549 | .568 | .591 | .620 | .623 | .629 | .608 | .614 | .647 |
| | | 20 | .538 | .611 | .672 | .702 | .706 | .725 | .731 | .723 | .716 | .725 | .668 | .678 |
| | | 21 | .557 | .671 | .682 | .694 | .689 | .678 | .709 | .716 | .676 | .667 | .647 | .654 |
| | | 22 | .470 | .514 | .531 | .516 | .531 | .534 | .625 | .679 | .692 | .641 | .621 | .666 |
| | | 23 | .470 | .496 | .556 | .637 | .641 | .652 | .663 | .641 | .672 | .704 | .661 | .676 |
| | | 24 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 25 | .378 | .443 | .483 | .441 | .529 | .516 | .478 | .486 | .482 | .470 | .508 | .517 |
| | | 26 | .501 | .530 | .525 | .518 | .532 | .516 | .519 | .558 | .578 | .569 | .524 | .539 |
| | | 27 | .477 | .495 | .499 | .488 | .465 | .469 | .463 | .498 | .486 | .532 | .499 | .512 |
| | | 28 | .351 | .359 | .382 | .416 | .452 | .451 | .491 | .493 | .470 | .456 | .425 | .451 |
| | | 29 | .458 | .526 | .557 | .603 | .612 | .643 | .651 | .657 | .669 | .664 | .679 | .678 |
| | | 30 | .603 | .615 | .620 | .630 | .604 | .520 | .518 | .510 | .492 | .506 | .484 | .461 |
| | | 31 | — | — | — | — | — | — | — | — | — | — | — | — |
| Hourly Means | | .468 | .508 | .540 | .563 | .569 | .575 | .580 | .579 | .584 | .573 | .578 | .583 | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 78 | 85 | 87 | 95 | 96 | 96 | 90 | 87 | 93 | 93 | 95 | 98 | 81 |
| 62 | 66 | 75 | 74 | 77 | 73 | — | — | — | — | — | — | 72 |
| — | — | — | — | — | — | 94 | 91 | 92 | 92 | 94 | 93 | 73 |
| 68 | 74 | 72 | 73 | 88 | 81 | 83 | 81 | 88 | 90 | 88 | 94 | 77 |
| 70 | 79 | 87 | 88 | 89 | 87 | 87 | 91 | 95 | 95 | 95 | 91 | 76 |
| 67 | 76 | 86 | 86 | 88 | 89 | 87 | 91 | 92 | 91 | 93 | 93 | 76 |
| 75 | 73 | 81 | 87 | 84 | 84 | 85 | 84 | 87 | 88 | 89 | 75 | 88 |
| 78 | 86 | 91 | 96 | 96 | 95 | 95 | 93 | 95 | 95 | 97 | 95 | — |
| 75 | 85 | 89 | 90 | 89 | 91 | — | — | — | — | — | — | 85 |
| — | — | — | — | — | — | 97 | 97 | 99 | 98 | 97 | 98 | 79 |
| 58 | 51 | 53 | 54 | 63 | 98 | 74 | 66 | 81 | 76 | 75 | 85 | 68 |
| 42 | 40 | 49 | 68 | 77 | 74 | 76 | 86 | 86 | 86 | 85 | 87 | 89 |
| 87 | 85 | 88 | 89 | 91 | 92 | 87 | 92 | 94 | 96 | 92 | 91 | 73 |
| 50 | 69 | 86 | 78 | 80 | 84 | 82 | 87 | 80 | 87 | 86 | 80 | 67 |
| 63 | 60 | 66 | 74 | 74 | 73 | 74 | 67 | 66 | 67 | 68 | 75 | — |
| 65 | 75 | 79 | 77 | 81 | 87 | — | — | — | — | — | — | 74 |
| — | — | — | — | — | — | 93 | 95 | 97 | 99 | 99 | 99 | 83 |
| 86 | 71 | 74 | 80 | 82 | 88 | 83 | 84 | 84 | 88 | 88 | 89 | 88 |
| 84 | 92 | 94 | 91 | 96 | 97 | 98 | 97 | 96 | 96 | 96 | — | 87 |
| 80 | 82 | 81 | 89 | 91 | 96 | 96 | 95 | 95 | 98 | 97 | 89 | 77 |
| 71 | 81 | 84 | 84 | 81 | 72 | 68 | 71 | 74 | 82 | 84 | 90 | 81 |
| 74 | 91 | 93 | 94 | 89 | 94 | 94 | 90 | 93 | 91 | 94 | 85 | — |
| 75 | 74 | 79 | 67 | 67 | 71 | — | — | — | — | — | — | 73 |
| — | — | — | — | — | — | 77 | 72 | 76 | 78 | 93 | 87 | 73 |
| 70 | 80 | 85 | 78 | 82 | 86 | 95 | 92 | 91 | 86 | 87 | 93 | 70 |
| 72 | 81 | 91 | 90 | 92 | 90 | 96 | 92 | 98 | 95 | — | 87 | 88 |
| 87 | 82 | 81 | 90 | 91 | 95 | 95 | 97 | 97 | 96 | 96 | 84 | 74 |
| 67 | 68 | 66 | 65 | 69 | 69 | 73 | 78 | 81 | 84 | 91 | 92 | 85 |
| 80 | 80 | 80 | 84 | 92 | 93 | 93 | 92 | 92 | 94 | 96 | 95 | — |
| 56 | 64 | 70 | 72 | 75 | 77 | — | — | — | — | — | — | 77 |
| — | — | — | — | — | — | 96 | 95 | 96 | 96 | 94 | 95 | 79 |
| 71 | 75 | 80 | 81 | 84 | 86 | 87 | 87 | 89 | 90 | 91 | 90 | — |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .462 | .465 | .437 | .401 | .379 | .363 | .364 | .282 | .291 | .274 | .280 | .288 | .404 |
| .431 | .372 | .359 | .362 | .340 | .333 | — | — | — | — | — | — | .399 |
| — | — | — | — | — | — | .460 | .426 | .405 | .590 | .392 | .356 | .469 |
| .600 | .575 | .498 | .428 | .459 | .393 | .381 | .351 | .374 | .373 | .368 | .366 | .523 |
| .636 | .614 | .570 | .518 | .490 | .484 | .451 | .426 | .437 | .437 | .420 | .410 | .501 |
| .398 | .596 | .536 | .494 | .465 | .462 | .444 | .446 | .434 | .417 | .418 | .413 | .576 |
| .650 | .592 | .649 | .551 | .517 | .508 | .529 | .528 | .444 | .520 | .524 | .534 | .610 |
| .652 | .654 | .634 | .611 | .585 | .574 | .574 | .575 | .574 | .569 | .578 | .544 | — |
| .704 | .660 | .619 | .581 | .560 | .558 | — | — | — | — | — | — | .672 |
| — | — | — | — | — | — | .622 | .623 | .613 | .616 | .603 | .617 | .558 |
| .511 | .387 | .573 | .372 | .411 | .511 | .443 | .381 | .457 | .450 | .395 | .435 | .423 |
| .363 | .305 | .314 | .354 | .354 | .341 | .346 | .364 | .358 | .351 | .348 | .349 | .512 |
| .592 | .527 | .527 | .490 | .495 | .531 | .476 | .470 | .457 | .412 | .449 | .430 | .426 |
| .383 | .430 | .454 | .374 | .349 | .369 | .363 | .395 | .378 | .390 | .392 | .372 | .409 |
| .461 | .399 | .400 | .411 | .393 | .387 | .383 | .343 | .341 | .345 | .350 | .365 | — |
| .579 | .491 | .467 | .447 | .444 | .436 | — | — | — | — | — | — | .536 |
| — | — | — | — | — | — | .606 | .620 | .638 | .656 | .656 | .652 | .660 |
| .753 | .597 | .784 | .586 | .584 | .588 | .598 | .563 | .560 | .548 | .535 | .551 | .572 |
| .602 | .582 | .560 | .552 | .536 | .540 | .548 | .550 | .536 | .534 | .537 | — | .627 |
| .659 | .619 | .562 | .595 | .586 | .584 | .577 | .554 | .558 | .548 | .526 | .484 | .608 |
| .637 | .642 | .649 | .652 | .599 | .522 | .458 | .447 | .450 | .493 | .491 | .506 | .548 |
| .627 | .635 | .571 | .520 | .471 | .468 | .467 | .480 | .496 | .472 | .472 | .451 | — |
| .662 | .573 | .559 | .559 | .520 | .509 | — | — | — | — | — | — | .549 |
| — | — | — | — | — | — | .460 | .376 | .390 | .376 | .372 | .353 | .504 |
| .597 | .635 | .640 | .568 | .580 | .516 | .521 | .471 | .475 | .448 | .452 | .462 | .525 |
| .549 | .554 | .530 | .524 | .523 | .492 | .517 | .493 | .521 | .503 | — | .464 | .466 |
| .524 | .497 | .465 | .496 | .463 | .438 | .429 | .421 | .402 | .407 | .413 | .356 | .419 |
| .415 | .380 | .375 | .362 | .389 | .391 | .414 | .435 | .441 | .442 | .406 | .409 | .613 |
| .658 | .637 | .627 | .600 | .623 | .642 | .639 | .628 | .484 | .585 | .591 | .594 | — |
| .404 | .401 | .413 | .397 | .386 | .387 | — | — | — | — | — | — | .464 |
| — | — | — | — | — | — | .383 | .366 | .368 | .358 | .354 | .364 | — |
| .558 | .532 | .529 | .493 | .481 | .474 | .479 | .462 | .457 | .465 | .453 | .445 | .522 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | SEPTEMBER. | 1 | 96 | 95 | 85 | 87 | 79 | 81 | 80 | 81 | 78 | 86 | 85 | 87 |
| | | 2 | 98 | 93 | 89 | 79 | 59 | 68 | 72 | 65 | 75 | 79 | 68 | 71 |
| | | 3 | 91 | 90 | 83 | 72 | 63 | 60 | 58 | 60 | 58 | 55 | 55 | 66 |
| | | 4 | 94 | 89 | 74 | 78 | 79 | 73 | 70 | 52 | 48 | 63 | 58 | 60 |
| | | 5 | 85 | 83 | 79 | 78 | 71 | 60 | 60 | 60 | 87 | 78 | 65 | 78 |
| | | 6 | 95 | 90 | 89 | 77 | 75 | 71 | 70 | 68 | 64 | 68 | 74 | 70 |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 8 | 90 | 80 | 68 | 61 | 64 | 61 | 65 | 61 | 64 | 64 | 67 | 66 |
| | | 9 | 93 | 93 | 95 | 87 | 83 | 78 | 57 | 58 | 84 | 66 | 63 | 63 |
| | | 10 | 85 | 81 | 79 | 69 | 70 | 68 | 79 | 70 | 60 | 55 | 57 | 60 |
| | | 11 | 97 | 84 | 79 | 78 | 71 | 62 | 59 | 70 | 76 | 74 | 74 | 50 |
| | | 12 | 84 | 73 | 73 | 69 | 66 | 67 | 69 | 61 | 62 | 54 | 58 | 66 |
| | | 13 | 75 | 78 | 75 | 70 | 70 | 77 | 85 | 90 | 95 | 96 | 96 | 93 |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | 92 | 90 | 84 | 81 | 67 | 86 | 73 | 38 | 38 | 42 | 36 | 48 |
| | | 16 | 92 | 90 | 73 | 56 | 53 | 51 | 65 | 65 | 63 | 54 | 65 | 79 |
| | | 17 | 98 | 94 | 89 | 91 | 86 | 86 | 81 | 68 | 60 | 65 | 78 | 83 |
| | | 18 | 91 | 93 | 94 | 92 | 84 | 83 | 79 | 73 | 51 | 55 | 54 | 74 |
| | | 19 | 89 | 88 | 84 | 69 | 78 | 75 | 71 | 69 | 70 | 70 | 73 | 81 |
| | | 20 | 95 | 93 | 96 | 95 | 96 | 93 | 94 | 93 | 97 | 95 | 96 | 97 |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 22 | 94 | 83 | 83 | 77 | 80 | 72 | 76 | 78 | 72 | 71 | 74 | 80 |
| | | 23 | 94 | 94 | 93 | 94 | 90 | 89 | 88 | 92 | 95 | 94 | 93 | 93 |
| | | 24 | 93 | 92 | 90 | 86 | 85 | 82 | 80 | 75 | 73 | 76 | 78 | 74 |
| | | 25 | 86 | 86 | 84 | 81 | 68 | 67 | 58 | 68 | 62 | 70 | 70 | 86 |
| | | 26 | 88 | 82 | 82 | 82 | 82 | 93 | 96 | 96 | 91 | 87 | 88 | 91 |
| | | 27 | 96 | 98 | 95 | 95 | 93 | 88 | 87 | 87 | 87 | 88 | 90 | 94 |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 29 | 97 | 94 | 84 | 83 | 79 | 81 | 75 | 72 | 71 | 77 | 73 | 76 |
| | | 30 | 95 | 96 | 97 | 96 | 96 | 90 | 88 | 81 | 87 | 81 | 86 | 86 |
| | | Hourly Means | | 92 | 89 | 84 | 80 | 76 | 75 | 74 | 71 | 72 | 72 | 72 |
| Tension of the Vapour. | SEPTEMBER. | 1 | In. .400 | In. .427 | In. .475 | In. .514 | In. .522 | In. .563 | In. .564 | In. .541 | In. .529 | In. .548 | In. .529 | In. .522 |
| | | 2 | .540 | .572 | .594 | .542 | .415 | .488 | .546 | .514 | .608 | .619 | .531 | .513 |
| | | 3 | .418 | .468 | .501 | .503 | .484 | .500 | .510 | .537 | .534 | .526 | .536 | .631 |
| | | 4 | .496 | .491 | .449 | .507 | .567 | .575 | .589 | .484 | .460 | .575 | .505 | .475 |
| | | 5 | .364 | .402 | .421 | .440 | .433 | .410 | .435 | .428 | .459 | .452 | .392 | .418 |
| | | 6 | .293 | .364 | .372 | .355 | .374 | .439 | .407 | .410 | .412 | .397 | .439 | .421 |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 8 | .239 | .262 | .253 | .255 | .277 | .284 | .305 | .289 | .314 | .309 | .335 | .317 |
| | | 9 | .322 | .348 | .372 | .412 | .445 | .452 | .356 | .368 | .522 | .418 | .388 | .364 |
| | | 10 | .306 | .332 | .355 | .345 | .388 | .337 | .339 | .353 | .325 | .315 | .317 | .323 |
| | | 11 | .249 | .297 | .309 | .348 | .345 | .324 | .306 | .380 | .371 | .414 | .376 | .258 |
| | | 12 | .219 | .245 | .270 | .306 | .291 | .302 | .313 | .284 | .288 | .260 | .273 | .297 |
| | | 13 | .306 | .324 | .321 | .324 | .329 | .365 | .382 | .400 | .421 | .446 | .474 | .490 |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 15 | .359 | .396 | .407 | .437 | .425 | .576 | .516 | .272 | .267 | .290 | .240 | .290 |
| | | 16 | .214 | .262 | .257 | .225 | .235 | .233 | .298 | .293 | .295 | .256 | .316 | .364 |
| | | 17 | .236 | .267 | .298 | .370 | .400 | .416 | .425 | .379 | .347 | .369 | .479 | .470 |
| | | 18 | .482 | .513 | .522 | .576 | .594 | .620 | .597 | .554 | .434 | .441 | .585 | .482 |
| | | 19 | .277 | .312 | .325 | .366 | .373 | .368 | .359 | .356 | .373 | .373 | .400 | .387 |
| | | 20 | .378 | .380 | .405 | .433 | .435 | .398 | .403 | .424 | .457 | .415 | .419 | .415 |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 22 | .194 | .204 | .239 | .255 | .292 | .286 | .286 | .282 | .303 | .278 | .305 | .300 |
| | | 23 | .325 | .329 | .336 | .337 | .323 | .313 | .313 | .333 | .353 | .353 | .363 | .362 |
| | | 24 | .307 | .318 | .323 | .308 | .317 | .312 | .312 | .295 | .281 | .288 | .292 | .277 |
| | | 25 | .232 | .253 | .275 | .303 | .294 | .302 | .281 | .309 | .284 | .330 | .314 | .339 |
| | | 26 | .285 | .301 | .319 | .328 | .330 | .343 | .367 | .379 | .414 | .431 | .422 | .428 |
| | | 27 | .222 | .262 | .320 | .364 | .392 | .371 | .391 | .393 | .395 | .371 | .369 | .359 |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 29 | .431 | .468 | .494 | .511 | .501 | .557 | .522 | .505 | .481 | .494 | .472 | .458 |
| | | 30 | .467 | .465 | .474 | .475 | .482 | .467 | .486 | .492 | .499 | .470 | .455 | .443 |
| | | Hourly Means | | .329 | .356 | .372 | .390 | .395 | .408 | .408 | .394 | .401 | .401 | .405 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 87 | 90 | 97 | 98 | 96 | 95 | 95 | 95 | — | — | — | — | 88 |
| 82 | 88 | 92 | 94 | 95 | 94 | 92 | 94 | 93 | 91 | 94 | 83 | 84 |
| 67 | 65 | 80 | 78 | 71 | 72 | 77 | 88 | 93 | 92 | 92 | 92 | 74 |
| 63 | 66 | 70 | 75 | 76 | 78 | 73 | 86 | 89 | 86 | 88 | 87 | 74 |
| 80 | 82 | 84 | 90 | 94 | 86 | 87 | 87 | 91 | 94 | 92 | 96 | 81 |
| 64 | 82 | 82 | 88 | 91 | 95 | — | — | — | — | — | — | 81 |
| — | — | — | — | — | — | — | 84 | 85 | 92 | 94 | 93 | 76 |
| 71 | 83 | 87 | 82 | 80 | 79 | 84 | 80 | 90 | 90 | 95 | 95 | 79 |
| 61 | 62 | 69 | 84 | 80 | 81 | 84 | 90 | 89 | 90 | 89 | 89 | 76 |
| 61 | 66 | 71 | 82 | 82 | 80 | 84 | 90 | 91 | 85 | 94 | 95 | 75 |
| 46 | 57 | 63 | 70 | 83 | 83 | 82 | 87 | 87 | 88 | 93 | 86 | 72 |
| 72 | 70 | 77 | 83 | 82 | 87 | 83 | 89 | 69 | 71 | 75 | 77 | 90 |
| 99 | 99 | 97 | 90 | 92 | — | — | — | — | — | — | — | 69 |
| — | — | — | — | — | — | 97 | 97 | 100 | 96 | 98 | 96 | 80 |
| 46 | 55 | 45 | 74 | 71 | 70 | 65 | 84 | 97 | 95 | 94 | 92 | 84 |
| 80 | 92 | 94 | 95 | 93 | 95 | 94 | 98 | 95 | 94 | 94 | 95 | 78 |
| 85 | 84 | 82 | 80 | 85 | 90 | 89 | 85 | 88 | 87 | 91 | 95 | 85 |
| 58 | 64 | 65 | 76 | 84 | 83 | 83 | 80 | 94 | 92 | 92 | 95 | 91 |
| 83 | 92 | 90 | 92 | 96 | 96 | 96 | 98 | 96 | 96 | 95 | 95 | 83 |
| 96 | 85 | 87 | 91 | 86 | 77 | — | — | — | — | — | — | 92 |
| — | — | — | — | — | — | 86 | 82 | 85 | 83 | 86 | 90 | 86 |
| 79 | 78 | 79 | 79 | 79 | 94 | 96 | 93 | 91 | 94 | 92 | 96 | 92 |
| 90 | 92 | 91 | 93 | 94 | 95 | 93 | 93 | 94 | 89 | 89 | 93 | 86 |
| 81 | 89 | 91 | 94 | 92 | 87 | 89 | 90 | 91 | 90 | 91 | 99 | 83 |
| 86 | 88 | 92 | 96 | 96 | 96 | 89 | 89 | 91 | 95 | 93 | 91 | 92 |
| 96 | 94 | 96 | 96 | 97 | 97 | 95 | 96 | 97 | 100 | 100 | 99 | 93 |
| 94 | 94 | 92 | 97 | 96 | 95 | — | — | — | — | — | — | 81 |
| — | — | — | — | — | — | 98 | 96 | 94 | 94 | 96 | 96 | 92 |
| 78 | 78 | 74 | 76 | 78 | 77 | 83 | 76 | 88 | 92 | 94 | 97 | 82 |
| 97 | 97 | 91 | 94 | 95 | 96 | 96 | 92 | 93 | 95 | 89 | 92 | 82 |
| 77 | 80 | 82 | 86 | 87 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .507 | .512 | .550 | .550 | .547 | .531 | .531 | .547 | .449 | .433 | .433 | .355 | .520 |
| .528 | .536 | .534 | .518 | .485 | .475 | .470 | .468 | .407 | .428 | .416 | .471 | .507 |
| .602 | .467 | .484 | .435 | .420 | .428 | .436 | .431 | .378 | .370 | .369 | .363 | .448 |
| .447 | .418 | .409 | .396 | .376 | .359 | .316 | .369 | .335 | .349 | .331 | .337 | .391 |
| .421 | .402 | .389 | .366 | .356 | .341 | .350 | .347 | .335 | .349 | .331 | .337 | .382 |
| .380 | .466 | .472 | .499 | .513 | .534 | — | — | .263 | .255 | .251 | .232 | .241 |
| — | — | — | — | — | — | — | .293 | .337 | .355 | .334 | .320 | .313 |
| .308 | .277 | .267 | .261 | .255 | .253 | .293 | .337 | .355 | .334 | .320 | .313 | .292 |
| .338 | .323 | .332 | .362 | .334 | .334 | .324 | .330 | .315 | .306 | .307 | .307 | .362 |
| .303 | .300 | .297 | .291 | .280 | .276 | .279 | .269 | .271 | .269 | .242 | .243 | .307 |
| .216 | .218 | .231 | .255 | .253 | .250 | .248 | .240 | .246 | .238 | .243 | .223 | .285 |
| .289 | .247 | .257 | .278 | .261 | .255 | .287 | .287 | .270 | .287 | .305 | .308 | .278 |
| .527 | .546 | .531 | .490 | .356 | — | — | — | — | — | — | — | .352 |
| — | — | — | — | — | — | .345 | .344 | .384 | .363 | .367 | .357 | .319 |
| .249 | .256 | .196 | .284 | .260 | .253 | .232 | .287 | .321 | .310 | .300 | .227 | .270 |
| .328 | .320 | .305 | .290 | .273 | .264 | .251 | .253 | .245 | .252 | .228 | .219 | .416 |
| .469 | .558 | .435 | .448 | .446 | .490 | .465 | .464 | .460 | .472 | .456 | .472 | .442 |
| .336 | .323 | .303 | .326 | .328 | .320 | .311 | .304 | .285 | .311 | .292 | .296 | .365 |
| .386 | .361 | .357 | .367 | .377 | .377 | .377 | .381 | .382 | .382 | .378 | .375 | .338 |
| .416 | .332 | .337 | .328 | .306 | .267 | — | — | — | — | — | — | .287 |
| — | — | — | — | — | — | .205 | .192 | .195 | .191 | .195 | .186 | .325 |
| .285 | .272 | .284 | .290 | .297 | .334 | .331 | .312 | .302 | .312 | .305 | .339 | .286 |
| .333 | .315 | .314 | .322 | .330 | .331 | .300 | .316 | .315 | .301 | .292 | .291 | .297 |
| .289 | .288 | .292 | .292 | .272 | .265 | .270 | .263 | .263 | .255 | .250 | .245 | .334 |
| .316 | .287 | .304 | .319 | .311 | .309 | .303 | .291 | .287 | .300 | .303 | .289 | .369 |
| .405 | .366 | .330 | .333 | .326 | .320 | .309 | .283 | .256 | .251 | .249 | .235 | .471 |
| .349 | .342 | .307 | .320 | .333 | .318 | — | — | — | — | — | — | .438 |
| — | — | — | — | — | — | .446 | .425 | .456 | .448 | .453 | .442 | |
| .462 | .460 | .443 | .447 | .449 | .440 | .449 | .428 | .459 | .466 | .467 | .447 | |
| .473 | .473 | .408 | .417 | .413 | .405 | .417 | .376 | .357 | .379 | .349 | .360 | |
| .383 | .368 | .360 | .365 | .352 | .349 | .342 | .339 | .330 | .330 | .323 | .318 | .368 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|----------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | OCTOBER. | 1 | 90 | 90 | 88 | 78 | 66 | 67 | 62 | 66 | 64 | 90 | 90 | 97 | |
| | | 2 | 94 | 88 | 80 | 83 | 78 | 77 | 82 | 77 | 83 | 88 | 87 | 83 | |
| | | 3 | 81 | 86 | 85 | 81 | 80 | 76 | 77 | 76 | 77 | 81 | 80 | 82 | |
| | | 4 | 95 | 94 | 92 | 90 | 87 | 95 | 88 | 86 | 86 | 88 | 91 | 91 | 93 |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 6 | 93 | 81 | 75 | 57 | 50 | 44 | 56 | 61 | 63 | 67 | 71 | 71 | 73 |
| | | 7 | 90 | 94 | 90 | 83 | 80 | 85 | 85 | 86 | 82 | 85 | 90 | 90 | 90 |
| | | 8 | 96 | 97 | 93 | 90 | 89 | 81 | 78 | 86 | 93 | 96 | 97 | 97 | — |
| | | 9 | 91 | 93 | 91 | 87 | 82 | 80 | 76 | 72 | 72 | 73 | 69 | 69 | 76 |
| | | 10 | 99 | 100 | 90 | 88 | 81 | 80 | 80 | 85 | 85 | 86 | 87 | 87 | 86 |
| | | 11 | 97 | 91 | 85 | 85 | 82 | 87 | 88 | 84 | 90 | 93 | 94 | 94 | 96 |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 13 | 94 | 93 | 89 | 79 | 66 | 72 | 72 | 75 | 81 | 71 | 68 | 68 | 68 |
| | | 14 | 75 | 88 | 90 | 86 | 82 | 72 | 66 | 62 | 49 | 50 | 46 | 46 | 59 |
| | | 15 | 91 | 95 | 77 | 72 | 73 | 63 | 66 | 52 | 62 | 56 | 63 | 63 | 63 |
| | | 16 | 85 | 87 | 79 | 62 | 56 | 62 | 60 | 59 | 57 | 60 | 61 | 61 | 69 |
| | | 17 | 69 | 82 | 67 | 69 | 71 | 67 | 59 | 60 | 67 | 68 | 71 | 84 | 84 |
| | | 18 | 95 | 95 | 86 | 81 | 84 | 86 | 82 | 78 | 72 | 73 | 75 | 75 | 75 |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 20 | 90 | 91 | 91 | 93 | 88 | 86 | 89 | 88 | 90 | 70 | 70 | 70 | 68 |
| | | 21 | 79 | 78 | 77 | 78 | 79 | 56 | 65 | 73 | 81 | 63 | 72 | 72 | 77 |
| | | 22 | 87 | 85 | 78 | 66 | 58 | 55 | 65 | 66 | 69 | 68 | 62 | 62 | 78 |
| | | 23 | 88 | 89 | 90 | 57 | 82 | 68 | 84 | 80 | 74 | 72 | 75 | 75 | 83 |
| | | 24 | 88 | 90 | 81 | 77 | 72 | 59 | 72 | 76 | 70 | 70 | 85 | 85 | 87 |
| | | 25 | 90 | 90 | 88 | 92 | 89 | 91 | 87 | 88 | 90 | 90 | 95 | 95 | — |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 27 | 98 | 98 | 94 | 92 | 82 | 75 | 75 | 75 | 69 | 62 | 62 | 62 | 75 |
| | | 28 | 92 | 89 | 87 | 83 | 77 | 76 | 72 | 70 | 69 | 66 | 64 | 64 | 68 |
| | | 29 | 87 | 87 | 93 | 81 | 74 | 76 | 69 | 62 | 60 | 58 | 56 | 56 | 58 |
| | | 30 | 88 | 85 | 82 | 82 | 87 | 86 | 80 | 88 | 91 | 92 | 91 | 91 | 90 |
| | | 31 | 90 | 90 | 94 | 95 | 89 | 88 | 90 | 89 | 83 | 91 | 90 | 90 | 92 |
| | | Hourly Means | | 89 | 90 | 86 | 80 | 77 | 74 | 75 | 75 | 75 | 75 | 77 | 79 |
| Tension of the Vapour. | OCTOBER. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | | |
| | | 1 | .344 | .344 | .336 | .365 | .308 | .334 | .308 | .321 | .315 | .407 | .418 | .400 | |
| | | 2 | .305 | .301 | .302 | .334 | .343 | .352 | .378 | .371 | .386 | .427 | .409 | .378 | |
| | | 3 | .361 | .358 | .342 | .328 | .329 | .318 | .328 | .326 | .343 | .361 | .342 | .337 | |
| | | 4 | .345 | .331 | .325 | .338 | .347 | .382 | .399 | .388 | .403 | .428 | .417 | .410 | |
| | | 5 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 6 | .175 | .183 | .198 | .177 | .170 | .156 | .201 | .218 | .229 | .239 | .247 | .234 | |
| | | 7 | .208 | .230 | .284 | .313 | .327 | .357 | .360 | .359 | .340 | .347 | .361 | .354 | |
| | | 8 | .315 | .336 | .352 | .364 | .399 | .384 | .375 | .393 | .411 | .408 | .408 | — | |
| | | 9 | .426 | .438 | .469 | .443 | .461 | .421 | .420 | .394 | .406 | .412 | .387 | .395 | |
| | | 10 | .376 | .397 | .402 | .404 | .375 | .399 | .403 | .421 | .417 | .417 | .421 | .409 | |
| | | 11 | .431 | .405 | .368 | .361 | .349 | .362 | .366 | .371 | .395 | .402 | .402 | .400 | |
| | | 12 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 13 | .214 | .213 | .239 | .238 | .219 | .269 | .274 | .296 | .321 | .286 | .273 | .264 | |
| | | 14 | .274 | .283 | .281 | .259 | .251 | .238 | .230 | .212 | .168 | .161 | .145 | .160 | |
| | | 15 | .140 | .149 | .155 | .166 | .171 | .159 | .166 | .145 | .168 | .141 | .158 | .149 | |
| | | 16 | .163 | .167 | .172 | .162 | .157 | .181 | .178 | .182 | .171 | .185 | .183 | .193 | |
| | | 17 | .138 | .176 | .162 | .188 | .236 | .237 | .219 | .221 | .256 | .260 | .260 | .279 | |
| | | 18 | .196 | .202 | .230 | .286 | .302 | .337 | .360 | .350 | .334 | .344 | .318 | .288 | |
| | | 19 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 20 | .211 | .215 | .211 | .219 | .216 | .230 | .226 | .227 | .228 | .166 | .156 | .146 | |
| | | 21 | .107 | .115 | .126 | .139 | .152 | .105 | .131 | .150 | .162 | .120 | .136 | .133 | |
| | | 22 | .104 | .106 | .125 | .137 | .128 | .127 | .151 | .157 | .164 | .170 | .159 | .177 | |
| | | 23 | .116 | .121 | .157 | .129 | .226 | .189 | .246 | .261 | .250 | .249 | .256 | .270 | |
| | | 24 | .236 | .241 | .236 | .255 | .265 | .241 | .281 | .295 | .266 | .266 | .306 | .257 | |
| | | 25 | .229 | .243 | .250 | .294 | .298 | .326 | .319 | .318 | .315 | .304 | .311 | — | |
| | | 26 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 27 | .220 | .219 | .264 | .335 | .322 | .326 | .348 | .361 | .353 | .318 | .298 | .323 | |
| | | 28 | .263 | .269 | .285 | .324 | .329 | .350 | .345 | .345 | .348 | .328 | .304 | .301 | |
| | | 29 | .189 | .192 | .236 | .283 | .290 | .322 | .315 | .315 | .305 | .302 | .305 | .286 | |
| | | 30 | .384 | .388 | .390 | .401 | .417 | .418 | .418 | .370 | .363 | .356 | .352 | .320 | |
| | | 31 | .314 | .320 | .343 | .348 | .348 | .358 | .374 | .366 | .374 | .387 | .389 | .386 | |
| Hourly Means | | .251 | .257 | .268 | .281 | .286 | .292 | .301 | .301 | .303 | .303 | .301 | .290 | | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 72 | 83 | 87 | 96 | 90 | 95 | 94 | 90 | 95 | 96 | 93 | 94 | 85 |
| 80 | 85 | 85 | 80 | 82 | 83 | 90 | 93 | 90 | 89 | 91 | 91 | 85 |
| 89 | 94 | 96 | 96 | 96 | 96 | 97 | 100 | 97 | 98 | 100 | 97 | 88 |
| 96 | 100 | 99 | 100 | — | 100 | — | — | — | — | — | — | 90 |
| — | — | — | — | — | — | 98 | 95 | 98 | 96 | 95 | 94 | 79 |
| 94 | 95 | 95 | 90 | 95 | 94 | 98 | 78 | 87 | 98 | 98 | 95 | 91 |
| 96 | 96 | 91 | 96 | 100 | 99 | 99 | 98 | — | 98 | — | 94 | 92 |
| — | 100 | — | — | — | — | — | — | — | 97 | 100 | 93 | 88 |
| 93 | 97 | 97 | 98 | 96 | 96 | 90 | 96 | 97 | 99 | — | 98 | 89 |
| 66 | 86 | 87 | 92 | 93 | 96 | 96 | 98 | 99 | 99 | 100 | — | 91 |
| 96 | 95 | 96 | 88 | 85 | 90 | — | — | — | — | — | — | 77 |
| — | — | — | — | — | — | 94 | 97 | — | 100 | 95 | 93 | 73 |
| 75 | 77 | 76 | 74 | 74 | 79 | 79 | 76 | 79 | 79 | 82 | 83 | 75 |
| 65 | 69 | 68 | 65 | 69 | 72 | 83 | 89 | 82 | 86 | 94 | 92 | 70 |
| 70 | 53 | 82 | 82 | 86 | 84 | 94 | 83 | 83 | 83 | 84 | 87 | 80 |
| 80 | 70 | 77 | 80 | 63 | 64 | 71 | 87 | 77 | 72 | 69 | 71 | 81 |
| 90 | 88 | 83 | 84 | 89 | 95 | 94 | 95 | 95 | 95 | 95 | 95 | 80 |
| 74 | 78 | 83 | 88 | 92 | 91 | — | — | — | — | — | — | 81 |
| — | — | — | — | — | — | 73 | 69 | 70 | 69 | 88 | 91 | 80 |
| 71 | 64 | 65 | 63 | 69 | 79 | 88 | 75 | 77 | 78 | 90 | 88 | 76 |
| 77 | 81 | 85 | 80 | 85 | 75 | 73 | 74 | 74 | 73 | 98 | 73 | 79 |
| 79 | 83 | 92 | — | 90 | 88 | 94 | 94 | 91 | 87 | 93 | 87 | 83 |
| 92 | 90 | 90 | 74 | 80 | 84 | 87 | 89 | 90 | 90 | 94 | 90 | 80 |
| 87 | 81 | 72 | 68 | 81 | 82 | 84 | 83 | 88 | 91 | 91 | 89 | 93 |
| 100 | — | 98 | — | — | — | — | — | — | — | — | — | 84 |
| — | — | — | — | — | — | 97 | 100 | 98 | 97 | 97 | 98 | 79 |
| 83 | 88 | 84 | 91 | 88 | 88 | 87 | 92 | 89 | 93 | 91 | 94 | 74 |
| 75 | 88 | 88 | 85 | 72 | 72 | 79 | 78 | 81 | 87 | 86 | 86 | 87 |
| 65 | 74 | 77 | 86 | 87 | 77 | 68 | 69 | 72 | 82 | 81 | 84 | 91 |
| 91 | 85 | 84 | 89 | 87 | 84 | 85 | 92 | 90 | 88 | 86 | 90 | 89 |
| 89 | 96 | 93 | 94 | 96 | 96 | 97 | 80 | 85 | 89 | 90 | 89 | 83 |
| 82 | 84 | 86 | 82 | 82 | 86 | 88 | 87 | 87 | 89 | 91 | 87 | 83 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| .279 | .290 | .280 | .298 | .262 | .268 | .263 | .238 | .358 | .258 | .281 | .300 | .316 |
| .363 | .377 | .360 | .336 | .344 | .351 | .352 | .391 | .395 | .397 | .398 | .398 | .365 |
| .351 | .360 | .359 | .362 | .362 | .359 | .362 | .370 | .363 | .367 | .370 | .350 | .350 |
| .404 | .412 | .382 | .372 | — | .372 | — | — | — | — | — | — | .327 |
| — | — | — | — | — | — | .196 | .179 | .179 | .175 | .176 | .170 | .204 |
| .242 | .222 | .213 | .200 | .206 | .207 | .203 | .161 | .182 | .213 | .208 | .207 | .273 |
| .359 | .354 | .343 | .347 | .355 | .354 | .358 | .329 | — | .321 | — | .320 | .398 |
| — | .424 | — | — | — | — | — | — | — | .471 | .484 | .439 | .390 |
| .387 | .369 | .344 | .358 | .376 | .368 | .346 | .344 | .328 | .322 | — | .361 | .417 |
| .323 | .424 | .432 | .460 | .462 | .467 | .458 | .435 | .434 | .429 | .425 | — | .339 |
| .389 | .384 | .385 | .335 | .317 | .310 | — | — | — | — | — | — | .280 |
| — | — | — | — | — | — | .214 | .209 | — | .195 | .216 | .228 | .195 |
| .281 | .288 | .285 | .279 | .287 | .313 | .277 | .303 | .319 | .317 | .329 | .331 | .152 |
| .168 | .172 | .170 | .163 | .169 | .177 | .180 | .182 | .164 | .162 | .166 | .147 | .161 |
| .152 | .111 | .154 | .151 | .152 | .149 | .160 | .142 | .143 | .142 | .154 | .165 | .210 |
| .172 | .154 | .154 | .161 | .135 | .139 | .148 | .156 | .136 | .139 | .134 | .140 | .271 |
| .242 | .228 | .237 | .219 | .194 | .194 | .185 | .183 | .181 | .178 | .178 | .182 | .160 |
| .274 | .290 | .286 | .299 | .301 | .279 | — | — | — | — | — | — | .122 |
| — | — | — | — | — | — | .212 | .197 | .199 | .192 | .222 | .214 | .138 |
| .140 | .121 | .117 | .112 | .114 | .120 | .120 | .104 | .104 | .106 | .115 | .113 | .222 |
| .129 | .124 | .128 | .127 | .136 | .116 | .103 | .101 | .104 | .100 | .099 | .085 | .276 |
| .170 | .141 | .144 | — | .135 | .134 | .133 | .133 | .126 | .118 | .124 | .116 | .282 |
| .241 | .267 | .271 | .225 | .228 | .219 | .229 | .229 | .234 | .240 | .246 | .238 | .313 |
| .224 | .201 | .181 | .180 | .209 | .208 | .207 | .206 | .222 | .229 | .221 | .215 | .341 |
| .303 | — | .294 | — | — | — | — | — | — | — | — | — | .362 |
| — | — | — | — | — | — | .248 | .252 | .248 | .234 | .227 | .225 | .273 |
| .306 | .317 | .262 | .270 | .252 | .246 | .240 | .246 | .237 | .241 | .223 | .238 | .282 |
| .275 | .278 | .259 | .282 | .245 | .246 | .244 | .221 | .201 | .198 | .188 | .195 | .276 |
| .297 | .304 | .303 | .320 | .318 | .348 | .364 | .361 | .368 | .396 | .393 | .393 | .313 |
| .316 | .293 | .287 | .299 | .294 | .287 | .288 | .317 | .310 | .303 | .304 | .312 | .341 |
| .380 | .393 | .381 | .380 | .394 | .408 | .386 | .355 | .344 | .339 | .310 | .304 | .362 |
| .276 | .281 | .270 | .272 | .260 | .266 | .249 | .244 | .245 | .251 | .248 | .246 | .273 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | |
|---|-----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Humidity of the Air. | NOVEMBER. | 1 | 89 | 87 | 93 | 83 | 87 | 85 | 75 | 77 | 46 | 42 | 41 | 57 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | 90 | 95 | 94 | 94 | 97 | 89 | 91 | 92 | 84 | 86 | 90 | 89 |
| | | 4 | 93 | 93 | 90 | 93 | 84 | 79 | 82 | 77 | 76 | 78 | 78 | 86 |
| | | 5 | 89 | 88 | 89 | 82 | 83 | 82 | 76 | 77 | 76 | 77 | 81 | 73 |
| | | 6 | 84 | 82 | 84 | 84 | 78 | 94 | 94 | 95 | 95 | 93 | 91 | 90 |
| | | 7 | 85 | 84 | 84 | 86 | 83 | 82 | 81 | 71 | 76 | 81 | 81 | 84 |
| | | 8 | 94 | 94 | 91 | 92 | 91 | 91 | 89 | 92 | 85 | 88 | 89 | 83 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | 83 | 81 | 79 | 78 | 75 | 74 | 69 | 74 | 75 | 75 | 76 | 94 |
| | | 11 | 89 | 89 | 90 | 82 | 80 | 76 | 72 | 74 | 77 | 77 | 82 | 84 |
| | | 12 | 85 | 92 | 91 | 79 | 67 | 77 | 62 | 68 | 70 | 72 | 69 | 79 |
| | | 13 | 85 | 91 | 94 | 89 | 84 | 80 | 79 | 79 | 81 | 84 | 80 | 86 |
| | | 14 | 89 | 87 | 89 | 87 | 84 | 76 | 52 | 53 | 52 | 53 | 59 | 67 |
| | | 15 | 95 | 93 | 95 | 91 | 81 | 81 | 85 | 79 | 79 | 84 | 84 | 81 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | 96 | 94 | 91 | 90 | 90 | 93 | 99 | 98 | 100 | — | — | 100 |
| | | 18 | 98 | 100 | 98 | 92 | 96 | 96 | 97 | 93 | 92 | 91 | 92 | 91 |
| | | 19 | 82 | 70 | 72 | 75 | 71 | 69 | 70 | 76 | 72 | 71 | 71 | 82 |
| | | 20 | 92 | 89 | 92 | 83 | 72 | 66 | 68 | 67 | 73 | 74 | 73 | 68 |
| | | 21 | 68 | 65 | 67 | 64 | 63 | 57 | 51 | 55 | 55 | 62 | 64 | 87 |
| | | 22 | 82 | 83 | 84 | 82 | 81 | 77 | 70 | 66 | 63 | 71 | 78 | 74 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | 72 | 84 | 78 | 63 | 64 | 64 | 63 | 67 | 72 | 61 | 64 | 71 |
| | | 25 | 97 | 95 | 81 | 71 | 55 | 64 | 61 | 53 | 57 | 61 | 60 | 63 |
| | | 26 | 84 | 87 | 86 | 80 | 80 | 79 | 80 | 82 | 82 | 85 | 90 | 89 |
| | | 27 | 81 | 79 | 73 | 80 | 82 | 82 | 79 | 77 | 72 | 78 | 76 | 90 |
| | | 28 | 60 | 52 | 48 | 60 | 66 | 69 | 66 | 68 | 72 | 69 | 81 | 80 |
| | | 29 | 80 | 80 | 81 | 82 | 63 | 64 | 80 | 84 | 89 | 91 | 81 | 97 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | 86 | 85 | 85 | 82 | 78 | 78 | 76 | 76 | 75 | 75 | 76 |
| Tension of the Vapour. | NOVEMBER. | 1 | In. .288 | In. .280 | In. .302 | In. .304 | In. .348 | In. .333 | In. .327 | In. .323 | In. .233 | In. .198 | In. .190 | In. .218 |
| | | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | .207 | .216 | .221 | .232 | .246 | .308 | .307 | .317 | .281 | .265 | .255 | .242 |
| | | 4 | .220 | .220 | .218 | .243 | .238 | .222 | .237 | .224 | .222 | .225 | .218 | .233 |
| | | 5 | .216 | .209 | .213 | .201 | .210 | .230 | .222 | .225 | .207 | .210 | .220 | .206 |
| | | 6 | .221 | .217 | .230 | .238 | .217 | .268 | .265 | .277 | .275 | .275 | .262 | .245 |
| | | 7 | .194 | .192 | .189 | .203 | .205 | .204 | .209 | .189 | .205 | .209 | .210 | .215 |
| | | 8 | .203 | .203 | .196 | .196 | .191 | .184 | .174 | .180 | .167 | .173 | .173 | .165 |
| | | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 10 | .167 | .173 | .184 | .189 | .193 | .207 | .204 | .223 | .240 | .229 | .231 | .232 |
| | | 11 | .198 | .198 | .200 | .183 | .180 | .182 | .188 | .191 | .210 | .210 | .215 | .207 |
| | | 12 | .145 | .157 | .171 | .176 | .163 | .189 | .158 | .178 | .181 | .180 | .171 | .177 |
| | | 13 | .180 | .193 | .209 | .246 | .256 | .280 | .274 | .282 | .284 | .297 | .274 | .275 |
| | | 14 | .205 | .215 | .227 | .241 | .236 | .250 | .197 | .198 | .198 | .186 | .199 | .204 |
| | | 15 | .163 | .162 | .174 | .188 | .191 | .216 | .213 | .208 | .217 | .233 | .222 | .208 |
| | | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 17 | .214 | .226 | .232 | .246 | .255 | .278 | .301 | .294 | .301 | — | — | .318 |
| | | 18 | .314 | .319 | .328 | .315 | .333 | .368 | .361 | .361 | .348 | .349 | .351 | .349 |
| | | 19 | .248 | .205 | .205 | .209 | .204 | .196 | .202 | .213 | .204 | .197 | .191 | .209 |
| | | 20 | .205 | .199 | .216 | .242 | .250 | .256 | .276 | .267 | .283 | .275 | .253 | .257 |
| | | 21 | .137 | .127 | .134 | .136 | .136 | .136 | .122 | .123 | .127 | .134 | .131 | .168 |
| | | 22 | .139 | .147 | .154 | .157 | .160 | .155 | .145 | .142 | .140 | .151 | .162 | .156 |
| | | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 24 | .092 | .102 | .097 | .089 | .098 | .104 | .102 | .104 | .113 | .091 | .092 | .095 |
| | | 25 | .177 | .174 | .163 | .159 | .129 | .155 | .151 | .134 | .140 | .144 | .136 | .136 |
| | | 26 | .158 | .160 | .159 | .146 | .147 | .145 | .147 | .152 | .154 | .158 | .168 | .162 |
| | | 27 | .105 | .098 | .089 | .090 | .092 | .092 | .097 | .098 | .094 | .098 | .093 | .106 |
| | | 28 | .042 | .037 | .035 | .048 | .055 | .065 | .067 | .070 | .076 | .077 | .081 | .077 |
| | | 29 | .073 | .077 | .081 | .082 | .071 | .077 | .099 | .103 | .107 | .108 | .098 | .111 |
| | | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | Hourly Means | | .180 | .180 | .185 | .190 | .192 | .204 | .202 | .203 | .200 | .195 | .191 |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 56 | 60 | 74 | 74 | 80 | 80 | — | — | — | — | — | — | 77 |
| — | — | — | — | — | — | 91 | 98 | 99 | 91 | 94 | 88 | 92 |
| 92 | 90 | 92 | 95 | 95 | 96 | 97 | 88 | 93 | 93 | 92 | 93 | 82 |
| 93 | 83 | 81 | 81 | 81 | 78 | 74 | 72 | 74 | 76 | 77 | 80 | 82 |
| 84 | 85 | 87 | 84 | 82 | 81 | 80 | 81 | 83 | 81 | 80 | 81 | 87 |
| 86 | 85 | 84 | 87 | 88 | 93 | 97 | 87 | 89 | 82 | 76 | 81 | 87 |
| 90 | 91 | 90 | 92 | 92 | 91 | 93 | 94 | 87 | 97 | 96 | 97 | 87 |
| 85 | 91 | 90 | 92 | 96 | 90 | — | — | — | — | — | — | 88 |
| — | — | — | — | — | — | 79 | 77 | 78 | 83 | 80 | 87 | 81 |
| 96 | 90 | 87 | 74 | 74 | 76 | 85 | 80 | 87 | 91 | 87 | 92 | 85 |
| 88 | 91 | 87 | 93 | 82 | 86 | 93 | 86 | 87 | 88 | 90 | 92 | 79 |
| 73 | 78 | 75 | 79 | 82 | 86 | 81 | 83 | 89 | 91 | 83 | 83 | 80 |
| 91 | 52 | 83 | 80 | 77 | 65 | 64 | 72 | 75 | 80 | 88 | 85 | 76 |
| 70 | 51 | 84 | 81 | 84 | 88 | 88 | 86 | 87 | 86 | 87 | 94 | 87 |
| 88 | 96 | 57 | 84 | 84 | 88 | — | — | — | — | — | — | 97 |
| — | — | — | — | — | — | 87 | 90 | 97 | 98 | 94 | 95 | 97 |
| 99 | — | — | — | — | — | — | 99 | 100 | 100 | 99 | 98 | 97 |
| 90 | 87 | 87 | 82 | 86 | 89 | 94 | 85 | 79 | 89 | 89 | 93 | 77 |
| 64 | 66 | 79 | 89 | 91 | 86 | — | 88 | 80 | 81 | 86 | 85 | 77 |
| 65 | 75 | 72 | 73 | 76 | 80 | 81 | 85 | 87 | 87 | 84 | 64 | 77 |
| 96 | 97 | 92 | 90 | 86 | 77 | 90 | 79 | 77 | 77 | 81 | 84 | 74 |
| 82 | 87 | 86 | 83 | 84 | 86 | — | — | — | — | — | — | 79 |
| — | — | — | — | — | — | 94 | 76 | 80 | 83 | 77 | 76 | 74 |
| 75 | 80 | 76 | 75 | 77 | 83 | 85 | 88 | 86 | 46 | 84 | 100 | 72 |
| 59 | 62 | 59 | 56 | 68 | — | 83 | 87 | 89 | 91 | 95 | 88 | 84 |
| 84 | 81 | 81 | 83 | 86 | 90 | 90 | 86 | 87 | 86 | 84 | 80 | 75 |
| 76 | 92 | 92 | 83 | 81 | 64 | 52 | 62 | 67 | 62 | 60 | 60 | 71 |
| 80 | 85 | 73 | 79 | 77 | 75 | 78 | 79 | 73 | 76 | 80 | 68 | 83 |
| 81 | 83 | 84 | 88 | 91 | 91 | — | — | — | — | — | — | 81 |
| — | — | — | — | — | — | 83 | 81 | 84 | 87 | 82 | 85 | 81 |
| 82 | 81 | 81 | 82 | 83 | 83 | 84 | 84 | 85 | 84 | 85 | 85 | 81 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·210 | ·205 | ·192 | ·196 | ·195 | ·195 | — | — | — | — | — | — | ·240 |
| — | — | — | — | — | — | ·195 | ·202 | ·203 | ·209 | ·215 | ·204 | ·242 |
| ·245 | ·245 | ·240 | ·242 | ·224 | ·241 | ·239 | ·202 | ·199 | ·207 | ·211 | ·216 | ·213 |
| ·237 | ·215 | ·212 | ·206 | ·203 | ·196 | ·188 | ·182 | ·185 | ·190 | ·192 | ·195 | ·215 |
| ·230 | ·223 | ·217 | ·211 | ·204 | ·212 | ·213 | ·217 | ·218 | ·216 | ·215 | ·219 | ·232 |
| ·225 | ·221 | ·212 | ·212 | ·217 | ·230 | ·238 | ·216 | ·220 | ·203 | ·188 | ·186 | ·213 |
| ·226 | ·226 | ·224 | ·226 | ·226 | ·224 | ·229 | ·228 | ·217 | ·227 | ·216 | ·211 | — |
| ·165 | ·171 | ·170 | ·175 | ·186 | ·173 | — | — | — | — | — | — | ·177 |
| — | — | — | — | — | — | ·165 | ·156 | ·160 | ·171 | ·172 | ·180 | ·196 |
| ·208 | ·178 | ·168 | ·172 | ·173 | ·179 | ·189 | ·188 | ·194 | ·199 | ·190 | ·202 | ·193 |
| ·214 | ·211 | ·198 | ·213 | ·185 | ·188 | ·191 | ·181 | ·184 | ·173 | ·177 | ·158 | ·167 |
| ·160 | ·158 | ·147 | ·156 | ·144 | ·155 | ·167 | ·170 | ·177 | ·173 | ·170 | ·176 | ·237 |
| ·275 | ·190 | ·243 | ·237 | ·233 | ·219 | ·215 | ·215 | ·215 | ·201 | ·198 | ·200 | ·203 |
| ·202 | ·225 | ·229 | ·208 | ·196 | ·202 | ·193 | ·182 | ·172 | ·173 | ·172 | ·175 | — |
| ·224 | ·237 | ·179 | ·216 | ·225 | ·235 | — | — | — | — | — | — | ·205 |
| — | — | — | — | — | — | ·195 | ·199 | ·208 | ·209 | ·200 | ·201 | ·290 |
| ·318 | — | — | — | — | — | — | ·355 | ·338 | ·324 | ·327 | ·318 | ·328 |
| ·354 | ·353 | ·346 | ·330 | ·342 | ·320 | ·327 | ·302 | ·273 | ·279 | ·271 | ·279 | ·192 |
| ·167 | ·174 | ·186 | ·170 | ·161 | ·152 | — | ·169 | ·176 | ·177 | ·198 | ·196 | ·222 |
| ·203 | ·211 | ·208 | ·205 | ·210 | ·202 | ·203 | ·196 | ·192 | ·192 | ·186 | ·140 | ·141 |
| ·181 | ·180 | ·172 | ·155 | ·131 | ·131 | ·152 | ·137 | ·136 | ·137 | ·135 | ·136 | — |
| ·171 | ·187 | ·188 | ·189 | ·192 | ·197 | — | — | — | — | — | — | ·149 |
| — | — | — | — | — | — | ·130 | ·104 | ·107 | ·112 | ·096 | ·098 | ·103 |
| ·093 | ·097 | ·100 | ·105 | ·104 | ·109 | ·102 | ·105 | ·113 | ·076 | ·119 | ·174 | ·145 |
| ·132 | ·133 | ·125 | ·121 | ·131 | — | ·135 | ·140 | ·143 | ·151 | ·162 | ·163 | ·148 |
| ·155 | ·149 | ·148 | ·152 | ·155 | ·159 | ·155 | ·137 | ·133 | ·132 | ·121 | ·110 | ·081 |
| ·093 | ·099 | ·096 | ·079 | ·074 | ·057 | ·047 | ·051 | ·057 | ·051 | ·047 | ·046 | ·066 |
| ·081 | ·087 | ·079 | ·081 | ·071 | ·062 | ·060 | ·066 | ·063 | ·064 | ·067 | ·078 | — |
| ·106 | ·109 | ·111 | ·107 | ·107 | ·109 | — | — | — | — | — | — | ·094 |
| — | — | — | — | — | — | ·078 | ·081 | ·089 | ·093 | ·090 | ·093 | — |
| ·195 | ·187 | ·183 | ·182 | ·179 | ·181 | ·174 | ·175 | ·175 | ·174 | ·173 | ·174 | ·186 |

| HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR. | | | | | | | | | | | | | | | |
|---|-----------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| Hours of Mean Göttingen Time. | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Hours of Mean Toronto Time. | | 18 | 19 | 20 | 21 | 22 | 23 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| Humidity of the Air. | DECEMBER. | 1 | 88 | 85 | 88 | 88 | 88 | 80 | 84 | 76 | 77 | 67 | 75 | | |
| | | 2 | 85 | 69 | 77 | 77 | 85 | 85 | 82 | 82 | 84 | 83 | 80 | 76 | |
| | | 3 | 75 | 65 | 73 | 73 | 73 | 76 | 73 | 69 | 78 | 75 | 72 | 76 | |
| | | 4 | 90 | 85 | 91 | 91 | 95 | 94 | 89 | 89 | 90 | 91 | 89 | 88 | |
| | | 5 | 74 | 72 | 68 | 75 | 77 | 77 | 78 | 80 | 86 | 67 | 72 | 74 | |
| | | 6 | 82 | 79 | 83 | 89 | 88 | 80 | 79 | 74 | 74 | 74 | 76 | 96 | |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 8 | 90 | 90 | 90 | 89 | 90 | 94 | 94 | 94 | 94 | 94 | 96 | 94 | 93 |
| | | 9 | 92 | 95 | 94 | 95 | 87 | 92 | 87 | 89 | 86 | 86 | 87 | 94 | |
| | | 10 | 78 | 85 | 78 | 82 | 62 | 67 | 68 | 74 | 74 | 68 | 77 | 74 | |
| | | 11 | 64 | 61 | 55 | 54 | 69 | 65 | 63 | 67 | 74 | 74 | 49 | 43 | |
| | | 12 | 62 | 63 | 85 | 61 | 70 | 80 | 83 | 80 | 81 | 84 | 82 | 80 | |
| | | 13 | 87 | 83 | 81 | 78 | 77 | 77 | 78 | 83 | 83 | 91 | 92 | 94 | 87 |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 15 | 100 | 99 | 92 | 91 | 78 | 75 | 77 | 79 | 86 | 68 | 82 | 91 | |
| | | 16 | 88 | 84 | 82 | 80 | 81 | 77 | 75 | 78 | 79 | 78 | 88 | 89 | |
| | | 17 | 87 | 88 | 92 | 89 | 79 | 77 | 64 | 72 | 77 | 78 | 79 | 78 | |
| | | 18 | 74 | 74 | 79 | 78 | 70 | 70 | 66 | 65 | 68 | 73 | 72 | 73 | |
| | | 19 | 58 | 40 | 53 | 70 | 64 | 64 | 67 | 76 | 73 | 76 | 74 | 85 | |
| | | 20 | 61 | 62 | 63 | 61 | 70 | 70 | 74 | 77 | 74 | 68 | 75 | 78 | |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 22 | 78 | 75 | 78 | 78 | 84 | 84 | 85 | 73 | 75 | 78 | 81 | 80 | |
| | | 23 | 77 | 74 | 73 | 76 | 72 | 76 | 67 | 83 | 78 | 84 | 79 | 74 | |
| | | 24 | 87 | 80 | 88 | 84 | 82 | 77 | 73 | 79 | 80 | 79 | 80 | 84 | |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 26 | 79 | 79 | 74 | 77 | 71 | 72 | 58 | 81 | 77 | 77 | 81 | 79 | |
| | | 27 | 80 | 81 | 81 | 88 | 77 | 67 | 71 | 75 | 78 | 70 | 72 | 77 | |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 29 | 98 | 99 | 99 | 93 | 86 | 90 | 89 | 83 | 82 | — | 82 | 78 | |
| | | 30 | 84 | 80 | 86 | 84 | 72 | 69 | 81 | 70 | 73 | 88 | 92 | 79 | |
| | | Hourly Means | | 81 | 78 | 80 | 80 | 78 | 77 | 76 | 78 | 80 | 78 | 79 | 80 |
| Tension of the Vapour. | DECEMBER. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | | |
| | | 1 | ·096 | ·094 | ·096 | ·098 | ·102 | ·095 | ·099 | ·106 | ·094 | ·097 | ·082 | ·089 | |
| | | 2 | ·066 | ·052 | ·062 | ·065 | ·080 | ·082 | ·081 | ·084 | ·087 | ·087 | ·077 | ·058 | |
| | | 3 | ·056 | ·051 | ·060 | ·066 | ·068 | ·071 | ·072 | ·075 | ·086 | ·084 | ·088 | ·093 | |
| | | 4 | ·134 | ·130 | ·141 | ·145 | ·162 | ·164 | ·140 | ·140 | ·149 | ·151 | ·141 | ·134 | |
| | | 5 | ·092 | ·089 | ·086 | ·095 | ·106 | ·108 | ·112 | ·118 | ·123 | ·095 | ·098 | ·097 | |
| | | 6 | ·102 | ·097 | ·110 | ·121 | ·125 | ·117 | ·114 | ·111 | ·110 | ·110 | ·108 | ·075 | |
| | | 7 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 8 | ·126 | ·126 | ·130 | ·134 | ·141 | ·158 | ·162 | ·164 | ·168 | ·176 | ·168 | ·158 | |
| | | 9 | ·155 | ·155 | ·160 | ·164 | ·155 | ·163 | ·157 | ·162 | ·163 | ·160 | ·158 | ·167 | |
| | | 10 | ·076 | ·081 | ·070 | ·081 | ·064 | ·069 | ·070 | ·074 | ·076 | ·072 | ·075 | ·073 | |
| | | 11 | ·039 | ·037 | ·033 | ·030 | ·042 | ·043 | ·044 | ·050 | ·057 | ·054 | ·036 | ·031 | |
| | | 12 | ·029 | ·030 | ·038 | ·038 | ·055 | ·068 | ·075 | ·081 | ·092 | ·097 | ·093 | ·089 | |
| | | 13 | ·085 | ·073 | ·079 | ·110 | ·126 | ·130 | ·132 | ·140 | ·156 | ·159 | ·159 | ·156 | |
| | | 14 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 15 | ·182 | ·175 | ·172 | ·172 | ·151 | ·147 | ·141 | ·139 | ·151 | ·122 | ·148 | ·156 | |
| | | 16 | ·113 | ·105 | ·117 | ·122 | ·136 | ·140 | ·147 | ·158 | ·160 | ·158 | ·169 | ·159 | |
| | | 17 | ·115 | ·149 | ·157 | ·164 | ·160 | ·157 | ·137 | ·160 | ·169 | ·172 | ·178 | ·176 | |
| | | 18 | ·148 | ·140 | ·153 | ·155 | ·144 | ·143 | ·138 | ·136 | ·145 | ·146 | ·143 | ·142 | |
| | | 19 | ·037 | ·063 | ·040 | ·057 | ·059 | ·060 | ·061 | ·065 | ·062 | ·063 | ·061 | ·071 | |
| | | 20 | ·044 | ·046 | ·048 | ·047 | ·056 | ·061 | ·066 | ·071 | ·071 | ·065 | ·070 | ·089 | |
| | | 21 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 22 | ·062 | ·059 | ·062 | ·067 | ·081 | ·088 | ·095 | ·081 | ·085 | ·090 | ·092 | ·081 | |
| | | 23 | ·069 | ·073 | ·075 | ·080 | ·084 | ·099 | ·095 | ·120 | ·110 | ·117 | ·107 | ·090 | |
| | | 24 | ·097 | ·087 | ·095 | ·096 | ·103 | ·106 | ·124 | ·120 | ·126 | ·124 | ·122 | ·125 | |
| | | 25 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 26 | ·078 | ·076 | ·068 | ·072 | ·073 | ·072 | ·064 | ·093 | ·093 | ·095 | ·096 | ·089 | |
| | | 27 | ·080 | ·080 | ·079 | ·097 | ·096 | ·095 | ·109 | ·119 | ·127 | ·114 | ·116 | ·118 | |
| | | 28 | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | 29 | ·184 | ·187 | ·191 | ·186 | ·176 | ·185 | ·189 | ·180 | ·180 | — | ·177 | ·160 | |
| | | 30 | ·136 | ·125 | ·132 | ·133 | ·113 | ·110 | ·132 | ·115 | ·122 | ·134 | ·127 | ·105 | |
| Hourly Means | | ·096 | ·095 | ·098 | ·104 | ·106 | ·109 | ·110 | ·114 | ·119 | ·114 | ·116 | ·111 | | |

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.

| 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Daily and Monthly Means. |
|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | |
| 74 | 71 | 76 | 72 | 80 | 81 | 82 | 79 | 83 | 84 | 80 | 71 | 79 |
| 70 | 67 | 57 | 91 | 51 | 77 | 73 | 89 | 72 | 82 | 72 | 64 | 76 |
| 75 | 77 | 84 | 79 | 82 | 84 | 82 | 83 | 88 | 88 | 90 | 86 | 78 |
| 88 | 90 | 92 | 90 | 93 | 88 | 90 | 92 | 93 | 92 | 90 | 92 | 91 |
| 83 | 82 | 85 | 84 | 89 | 84 | 88 | 84 | 82 | 82 | 84 | 88 | 80 |
| 77 | 81 | 95 | 83 | 83 | 75 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | — | — | 85 | 89 | 94 | 90 | 83 |
| 91 | 94 | 94 | 89 | 88 | 90 | 91 | 96 | 92 | 89 | 92 | 96 | 92 |
| 95 | 95 | 94 | 94 | 84 | 73 | 80 | 82 | 79 | 81 | 84 | 79 | 88 |
| 74 | 79 | 79 | 78 | 81 | 80 | 77 | 82 | 77 | 66 | 70 | 53 | 74 |
| 40 | 47 | 51 | 57 | 58 | 57 | 57 | 43 | 51 | 41 | 52 | 77 | 57 |
| 80 | 76 | 80 | 76 | 79 | 78 | 81 | 82 | 82 | 83 | 88 | 82 | 78 |
| 87 | 83 | 86 | 76 | 74 | 86 | — | — | — | — | — | — | 85 |
| — | — | — | — | — | — | 91 | 91 | 91 | 93 | 95 | 91 | 85 |
| 94 | 85 | 93 | 88 | 77 | 80 | 82 | 95 | 93 | 87 | 88 | 92 | 86 |
| 85 | 85 | 86 | 87 | 89 | 88 | 88 | 98 | 87 | 91 | 85 | 86 | 85 |
| 95 | 91 | 88 | 76 | 87 | 79 | 81 | 94 | 94 | 99 | — | 76 | 83 |
| 74 | 71 | 71 | 75 | 94 | 84 | 70 | 66 | 53 | 58 | 62 | 59 | 68 |
| 66 | 59 | 62 | 63 | 64 | 69 | 61 | 58 | 56 | 56 | 60 | 57 | 64 |
| 85 | 80 | 76 | 77 | 54 | 63 | — | — | — | — | — | — | 72 |
| — | — | — | — | — | — | 72 | 76 | 71 | 77 | 75 | 79 | 72 |
| 77 | 77 | 95 | 78 | 78 | 61 | 80 | 81 | 80 | 82 | 67 | 80 | 78 |
| 87 | 84 | 85 | 90 | 90 | 89 | 84 | 86 | 92 | 90 | 90 | 87 | 82 |
| 84 | 86 | 95 | 83 | 80 | 84 | — | — | — | — | — | — | 83 |
| — | — | — | — | — | — | 78 | 82 | 84 | 83 | 84 | 84 | 83 |
| 83 | 63 | 58 | 64 | 78 | 82 | 83 | 88 | 65 | 82 | 73 | 85 | 75 |
| 77 | 84 | 89 | 81 | 75 | 82 | — | — | — | — | — | — | 82 |
| — | — | — | — | — | — | 94 | 97 | 94 | 94 | 92 | 96 | 82 |
| 79 | 74 | 86 | 86 | 91 | 88 | 82 | 92 | 78 | 82 | 79 | 97 | 87 |
| 76 | 75 | 75 | 75 | 78 | 81 | 82 | 86 | 90 | 84 | 69 | 77 | 79 |
| 80 | 78 | 81 | 80 | 79 | 79 | 80 | 83 | 80 | 81 | 77 | 81 | 79 |
| In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. | In. |
| ·085 | ·079 | ·082 | ·071 | ·079 | ·082 | ·084 | ·081 | ·085 | ·085 | ·082 | ·061 | ·088 |
| ·041 | ·037 | ·031 | ·040 | ·027 | ·050 | ·043 | ·040 | ·034 | ·046 | ·048 | ·049 | ·057 |
| ·093 | ·097 | ·110 | ·106 | ·110 | ·115 | ·116 | ·124 | ·132 | ·132 | ·136 | ·131 | ·095 |
| ·132 | ·131 | ·127 | ·131 | ·133 | ·124 | ·122 | ·124 | ·120 | ·111 | ·107 | ·118 | ·134 |
| ·105 | ·104 | ·101 | ·096 | ·107 | ·106 | ·103 | ·110 | ·110 | ·110 | ·111 | ·113 | ·104 |
| ·101 | ·103 | ·120 | ·096 | ·096 | ·092 | — | — | — | — | — | — | 109 |
| — | — | — | — | — | — | — | — | ·115 | ·121 | ·128 | ·127 | 109 |
| ·156 | ·156 | ·153 | ·149 | ·147 | ·151 | ·153 | ·153 | ·146 | ·140 | ·157 | ·156 | ·151 |
| ·168 | ·164 | ·161 | ·158 | ·142 | ·120 | ·125 | ·114 | ·100 | ·094 | ·091 | ·080 | ·143 |
| ·073 | ·074 | ·074 | ·076 | ·077 | ·073 | ·070 | ·075 | ·057 | ·044 | ·043 | ·034 | ·069 |
| ·034 | ·032 | ·035 | ·039 | ·039 | ·035 | ·034 | ·026 | ·029 | ·024 | ·028 | ·040 | ·037 |
| ·089 | ·082 | ·084 | ·081 | ·088 | ·086 | ·088 | ·093 | ·093 | ·097 | ·105 | ·094 | ·078 |
| ·154 | ·150 | ·152 | ·143 | ·143 | ·156 | — | — | — | — | — | — | 146 |
| — | — | — | — | — | — | ·181 | ·183 | ·183 | ·181 | ·186 | ·176 | 146 |
| ·154 | ·144 | ·147 | ·138 | ·118 | ·124 | ·123 | ·132 | ·125 | ·120 | ·122 | ·124 | ·143 |
| ·148 | ·146 | ·140 | ·137 | ·142 | ·133 | ·129 | ·137 | ·105 | ·105 | ·126 | ·130 | ·136 |
| ·191 | ·188 | ·185 | ·162 | ·187 | ·174 | ·176 | ·198 | ·198 | ·200 | — | ·153 | ·169 |
| ·142 | ·140 | ·140 | ·142 | ·166 | ·123 | ·103 | ·067 | ·046 | ·043 | ·044 | ·041 | ·122 |
| ·055 | ·049 | ·050 | ·049 | ·050 | ·052 | ·045 | ·041 | ·039 | ·038 | ·040 | ·039 | ·052 |
| ·076 | ·072 | ·067 | ·060 | ·042 | ·049 | — | — | — | — | — | — | 061 |
| — | — | — | — | — | — | ·058 | ·060 | ·054 | ·062 | ·058 | ·061 | 061 |
| ·069 | ·065 | ·074 | ·067 | ·068 | ·072 | ·067 | ·072 | ·071 | ·072 | ·050 | ·067 | ·073 |
| ·104 | ·103 | ·102 | ·107 | ·105 | ·104 | ·100 | ·102 | ·107 | ·101 | ·101 | ·098 | ·098 |
| ·122 | ·124 | ·136 | ·119 | ·115 | ·120 | — | — | — | — | — | — | 105 |
| — | — | — | — | — | — | ·071 | ·070 | ·070 | ·074 | ·081 | ·084 | 105 |
| ·073 | ·048 | ·042 | ·048 | ·073 | ·071 | ·070 | ·076 | ·049 | ·078 | ·074 | ·083 | ·073 |
| ·117 | ·129 | ·138 | ·129 | ·120 | ·132 | — | — | — | — | — | — | 127 |
| — | — | — | — | — | — | ·177 | ·178 | ·174 | ·174 | ·174 | ·180 | 127 |
| ·157 | ·147 | ·167 | ·165 | ·171 | ·167 | ·155 | ·154 | ·139 | ·140 | ·144 | ·162 | ·168 |
| ·102 | ·098 | ·098 | ·099 | ·102 | ·106 | ·102 | ·096 | ·085 | ·076 | ·052 | ·059 | ·107 |
| ·110 | ·106 | ·109 | ·104 | ·106 | ·105 | ·104 | ·104 | ·099 | ·099 | ·095 | ·098 | ·106 |



TORONTO, 1845.

DIRECTION AND FORCE OF THE WIND.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|----------|-------------------|-------------|-------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| JANUARY. | 1 | W. N. W. | 0.5 | W. N. W. | 0.2 | W. N. W. | 0.2 | N. W. | 1.0 | N. W. | 1.5 | N. W. | 2.5 |
| | 2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | — | 0.0 |
| | 3 | E. | 1.5 | E. | 1.5 | E. | 2.0 | E. | 1.5 | E. by N. | 1.0 | E. | 1.0 |
| | 4 | W. | 0.5 | W. | 0.5 | W. by S. | 0.5 | S. W. | 2.0 | S. W. | 1.0 | S. W. | 2.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | — | 0.0 | N. by E. | 0.2 | N. by E. | 0.2 | — | 0.0 | N. N. E. | 0.2 | N. by E. | 0.2 |
| | 7 | N. N. E. | 0.5 | N. N. E. | 0.5 | — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.5 |
| | 8 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 |
| | 9 | S. W. by W. | 1.5 | S. W. by W. | 1.0 | — | 0.0 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 2.5 |
| | 10 | W. | 0.2 | W. | 0.2 | W by S. | 0.2 | W. | 0.5 | W. by N. | 0.2 | W. N. W. | 0.2 |
| | 11 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | E. S. E. | 2.0 | E. N. E. | 1.5 | N. E. by E. | 2.0 | N. N. E. | 2.0 | E. N. E. | 1.0 | E. N. E. | 1.0 |
| | 14 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | N. | 0.2 | N. | 0.5 |
| | 15 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 |
| | 16 | N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | N. E. | 0.5 | E. N. E. | 0.5 | E. by N. | 1.0 |
| | 17 | E. N. E. | 0.5 | N. E. by N. | 1.0 | N. N. E. | 1.0 | N. N. E. | 1.0 | N. N. E. | 1.0 | N. N. E. | 0.2 |
| | 18 | N. W. | 2.0 | W. | 1.0 | N. W. | 1.0 | N. N. W. | 0.5 | N. W. by N. | 1.5 | N. by E. | 0.5 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | — | 0.0 |
| | 21 | — | 0.0 | — | 0.0 | N. E. | 0.2 | N. E. | 0.2 | N. N. E. | 0.2 | N. N. W. | 0.2 |
| | 22 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 23 | — | 0.0 | — | 0.0 | — | 0.0 | E. by N. | 0.2 | E. by S. | 0.2 | E. | 0.2 |
| | 24 | — | 0.0 | — | 0.0 | E. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 25 | N. | 4.0 | N. by W. | 4.0 | N. by W. | 4.0 | N. by W. | 4.0 | N. by W. | 4.0 | N. by W. | 4.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | 0.0 | — | 0.0 | — | 0.0 | E. N. E. | 0.2 | N. E. | 0.2 | E. | 0.2 |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. E. | 0.2 | E. by S. | 0.2 | E. | 0.2 |
| | 29 | W. S. W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 2.0 | W. S. W. | 2.0 | W. S. W. | 2.5 | W. S. W. | 3.0 |
| | 30 | N. W. | 0.5 | N. W. | 0.5 | N. W. | 0.5 | N. E. | 0.2 | W. | 0.2 | S. W. by W. | 0.2 |
| | 31 | — | 0.0 | N. N. E. | 0.2 | N. N. E. | 0.2 | — | 0.0 | N. N. E. | 0.2 | N. N. E. | 0.5 |
| JANUARY. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | 1 | N. W. | 0.5 | N. W. | 2.5 | N. N. W. | 0.5 | N. W. | 0.5 | — | 0.0 | — | 0.0 |
| | 2 | — | 0.0 | E. | 0.2 | E. | 0.2 | E. | 0.5 | E. | 0.5 | E. | 0.5 |
| | 3 | — | 0.0 | W. | 2.0 | W. | 3.0 | W. by N. | 4.0 | W. | 3.5 | W. | 2.0 |
| | 4 | S. W. | 1.0 | S. W. by S. | 0.5 | S. W. by W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | E. N. E. | 2.0 | E. N. E. | 1.0 | N. N. E. | 1.0 | N. by E. | 0.5 | N. by E. | 0.5 | N. N. E. | 0.5 |
| | 7 | W. by N. | 2.5 | W. by N. | 0.2 | W. by S. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.5 | W. by S. | 0.5 |
| | 8 | S. W. by W. | 0.5 | S. W. | 2.5 | S. W. | 2.0 | S. S. W. | 2.5 | S. S. W. | 2.0 | S. S. W. | 2.0 |
| | 9 | W. N. W. | 3.5 | W. | 2.5 | W. | 3.5 | W. | 2.0 | W. by S. | 1.0 | W. S. W. | 1.0 |
| | 10 | W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 |
| | 11 | W. S. W. | 0.2 | — | 0.0 | W. S. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | N. by W. | 0.2 | N. N. W. | 0.2 | W. by S. | 0.2 | — | 0.0 | — | 0.0 | W. by N. | 0.2 |
| | 14 | — | 0.0 | E. by S. | 0.2 | N. E. by N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 |
| | 15 | — | 0.0 | — | 0.0 | N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 16 | E. N. E. | 1.0 | E. N. E. | 1.0 | E. N. E. | 1.0 | N. by E. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 |
| | 17 | E. N. E. | 1.5 | N. | 2.0 | E. N. E. | 2.0 | N. N. W. | 2.5 | N. N. W. | 2.0 | N. by W. | 2.0 |
| | 18 | N. by W. | 0.5 | N. by W. | 0.5 | N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | N. E. | 0.2 | N. E. by N. | 0.2 | N. E. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 21 | — | 0.0 | N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 22 | — | 0.0 | — | 0.0 | N. E. | 0.2 | — | 0.0 | — | 0.0 | N. E. | 0.2 |
| | 23 | E. | 1.0 | E. N. E. | 1.0 | E. N. E. | 0.2 | E. by S. | 0.2 | S. E. | 0.2 | S. S. E. | 0.2 |
| | 24 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. | 0.5 | N. | 0.5 |
| | 25 | N. N. W. | 4.0 | N. by W. | 3.5 | N. by W. | 5.0 | N. by W. | 5.0 | N. by W. | 4.0 | N. by W. | 3.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 28 | — | 0.0 | W. by S. | 0.2 | W. | 1.0 | — | 0.0 | — | 0.0 | W. by S. | 0.2 |
| | 29 | W. | 1.5 | W. | 1.5 | W. N. W. | 2.0 | W. N. W. | 2.0 | W. N. W. | 1.5 | W. | 1.0 |
| | 30 | N. by E. | 0.2 | W. | 0.2 | W. | 0.2 | W. by N. | 0.2 | W. | 0.2 | W. | 0.5 |
| 31 | N. W. by N. | 0.5 | N. | 0.2 | N. by W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| W. | 2.0 | N. N. W. | 2.0 | N. N. W. | 1.0 | N. W. | 2.5 | N. W. | 2.0 | N. W. | 2.5 | 1 |
| S. E. by S. | 0.2 | E. S. E. | 0.5 | E. S. E. | 0.5 | E. by S. | 0.2 | E. | 0.2 | — | 0.0 | 2 |
| E. | 0.5 | E. | 0.5 | E. | 0.2 | E. by S. | 0.2 | — | 0.0 | — | 0.0 | 3 |
| S. W. | 2.0 | W. S. W. | 2.5 | W. S. W. | 3.0 | W. S. W. | 2.5 | W. S. W. | 0.5 | S. W. | 0.5 | 4 |
| — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| N. by E. | 0.2 | N. by E. | 0.2 | E. by N. | 1.0 | E. N. E. | 2.0 | E. N. E. | 2.0 | E. N. E. | 2.0 | 6 |
| N. W. | 0.2 | W. N. W. | 0.2 | — | 0.0 | — | 0.0 | W. by S. | 0.2 | W. by N. | 0.2 | 7 |
| W. | 2.5 | W. | 1.5 | W. | 0.5 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | 8 |
| S. W. by W. | 3.0 | S. W. | 0.5 | S. S. W. | 0.2 | S. W. by S. | 2.5 | S. W. by W. | 1.0 | W. N. W. | 1.0 | 9 |
| W. by N. | 0.2 | W. | 1.0 | W. | 0.5 | W. | 0.5 | W. | 0.5 | — | 0.0 | 10 |
| N. N. W. | 0.2 | — | 0.0 | W. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | — | — | — | — | — | — | — | — | — | — | — | 12 |
| N. by E. | 1.0 | N. E. by E. | 0.5 | N. E. by E. | 0.2 | N. E. | 0.5 | N. E. | 0.2 | N. N. W. | 0.2 | 13 |
| N. | 0.2 | N. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | E. by N. | 0.2 | — | 0.0 | 14 |
| N. E. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| E. N. E. | 1.0 | E. N. E. | 1.0 | E. by N. | 1.0 | E. N. E. | 1.0 | E. | 1.0 | E. by N. | 1.0 | 16 |
| N. N. E. | 0.2 | N. N. E. | 0.2 | N. by E. | 0.2 | N. | 0.2 | N. N. E. | 0.5 | N. N. E. | 1.0 | 17 |
| N. by E. | 0.5 | N. by W. | 0.5 | N. | 1.0 | N. by W. | 1.0 | N. N. W. | 0.5 | N. | 0.5 | 18 |
| — | — | — | — | — | — | — | — | — | — | — | — | 19 |
| N. by E. | 0.2 | — | 0.0 | N. N. E. | 0.2 | E. by N. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | 20 |
| N. by W. | 0.2 | N. by W. | 0.2 | — | 0.0 | S. E. by S. | 0.2 | — | 0.0 | — | 0.0 | 21 |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | 22 |
| E. N. E. | 1.0 | E. | 2.5 | E. | 2.5 | E. N. E. | 1.0 | E. | 1.0 | E. | 1.0 | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | 24 |
| N. by W. | 4.0 | N. | 4.0 | N. | 3.0 | N. by W. | 2.5 | N. N. W. | 3.5 | N. N. W. | 4.0 | 25 |
| — | — | — | — | — | — | — | — | — | — | — | — | 26 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. | 0.2 | E. by S. | 0.2 | E. by N. | 0.2 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. N. W. | 0.2 | 28 |
| N. W. | 3.5 | W. by N. | 3.5 | N. W. by W. | 2.5 | W. by N. | 2.5 | W. by N. | 2.5 | W. N. W. | 1.0 | 29 |
| — | 0.0 | S. W. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | E. by N. | 0.2 | 30 |
| N. E. | 0.5 | N. N. E. | 1.5 | N. N. W. | 2.0 | N. N. W. | 1.5 | N. N. W. | 2.5 | N. N. W. | 1.0 | 31 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| E. | 1.5 | E. | 2.5 | E. | 2.0 | E. | 2.5 | E. | 3.0 | E. | 3.0 | 2 |
| W. by S. | 0.5 | W. by S. | 0.5 | W. by S. | 1.5 | W. by S. | 1.0 | W. by S. | 1.0 | W. by S. | 2.5 | 3 |
| — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | 5 |
| N. by E. | 1.5 | N. by E. | 1.0 | N. E. | 1.0 | N. N. E. | 1.0 | N. N. E. | 1.0 | N. N. E. | 1.5 | 6 |
| W. S. W. | 0.5 | — | 0.0 | — | 0.0 | W. S. W. | 0.2 | S. W. | 1.5 | — | 0.0 | 7 |
| S. by W. | 1.0 | S. | 0.5 | S. | 0.5 | S. W. by S. | 0.5 | S. W. by S. | 0.2 | S. W. by W. | 2.0 | 8 |
| W. S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 0.2 | — | 0.0 | — | 0.0 | W. S. W. | 0.2 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | — | — | — | — | — | — | — | — | — | — | — | 11 |
| N. E. | 0.5 | N. E. | 0.5 | N. E. by E. | 0.5 | E. N. E. | 1.5 | N. E. by E. | 2.5 | S. S. E. | 3.5 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | 13 |
| N. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. E. | 0.2 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. by N. | 0.5 | 15 |
| E. by N. | 1.0 | E. N. E. | 1.0 | E. by N. | 1.0 | E. by N. | 1.0 | E. N. E. | 1.0 | E. by N. | 1.0 | 16 |
| N. by W. | 1.8 | N. N. W. | 3.0 | N. W. by N. | 3.0 | N. by E. | 2.0 | N. W. by N. | 0.5 | N. W. by N. | 0.5 | 17 |
| — | — | — | — | — | — | — | — | — | — | — | — | 18 |
| N. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | — | 0.0 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| N. E. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | — | 0.0 | 22 |
| S. | 0.2 | S. by E. | 0.5 | S. by E. | 0.5 | S. E. by E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | 23 |
| N. | 0.5 | N. | 0.5 | N. by E. | 0.5 | N. by E. | 2.0 | N. | 4.0 | N. by W. | 5.0 | 24 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| W. by S. | 2.5 | W. by S. | 1.5 | W. by S. | 3.0 | W. by S. | 3.0 | W. by S. | 2.5 | W. | 2.5 | 28 |
| W. by S. | 1.0 | W. | 0.5 | W. | 0.2 | W. N. W. | 1.0 | N. W. by N. | 1.5 | W. N. W. | 1.0 | 29 |
| W. | 0.5 | N. W. | 0.2 | — | 0.0 | W. N. W. | 0.2 | W. N. W. | 1.0 | N. W. | 0.2 | 30 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

JANUARY.

JANUARY.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| FEBRUARY. | 1 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | N. N. E. | lbs. 0·2 | N. | lbs. 0·2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | N. E. | 0·2 | N. E. | 1·0 | E. N. E. | 0·5 | E. by S. | 0·5 | E. N. E. | 0·5 | S. E. by S. | 0·5 |
| | 4 | E. | 4·0 | E. S. E. | 3·5 | E. | 4·0 | S. E. | 5·0 | S. E. | 4·0 | S. E. | 3·5 |
| | 5 | N. | 6·0 | N. N. W. | 10·0 | N. N. W. | 12·0 | N. by W. | 10·0 | N. by W. | 8·0 | N. by W. | 10·0 |
| | 6 | N. | 3·0 | N. | 2·5 | N. | 3·0 | N. N. W. | 2·5 | N. N. W. | 1·0 | — | 0·0 |
| | 7 | N. W. by W. | 2·0 | N. W. by W. | 1·5 | N. W. by W. | 1·0 | W. N. W. | 1·0 | N. W. | 0·5 | W. N. W. | 0·5 |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 | S. S. W. | 0·2 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | N. W. by N. | 0·2 | N. W. by N. | 0·5 | W. N. W. | 1·0 | N. W. by W. | 0·5 | N. N. W. | 2·0 | N. N. W. | 3·5 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | N. by W. | 0·2 | N. by W. | 0·2 | N. E. | 0·2 |
| | 14 | E. N. E. | 2·5 | E. N. E. | 2·5 | E. by N. | 2·5 | E. by S. | 2·5 | E. by N. | 2·5 | E. by N. | 2·5 |
| | 15 | E. by N. | 0·2 | E. | 0·2 | E. | 0·5 | E. | 0·2 | E. | 0·2 | E. | 0·2 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | — | 0·0 | — | 0·0 | W. S. W. | 0·2 | — | 0·0 | W. by N. | 0·2 | W. by N. | 0·2 |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. N. E. | 0·2 | E. | 0·2 |
| | 20 | — | 0·0 | — | 0·0 | N. E. by E. | 0·2 | — | 0·0 | — | 0·0 | E. | 0·5 |
| | 21 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | W. by S. | 0·2 | W. S. W. | 0·2 | — | 0·0 | S. W. by S. | 0·2 | S. W. by S. | 0·2 | S. W. by S. | 1·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | S. by W. | 0·5 | S. W. | 0·5 | S. S. W. | 0·5 |
| | 26 | W. S. W. | 0·2 | W. by S. | 0·2 | W. S. W. | 0·5 | W. S. W. | 0·5 | W. S. W. | 1·0 | W. by N. | 1·0 |
| | 27 | — | 0·0 | — | 0·0 | N. N. W. | 0·2 | N. N. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 |
| | 28 | W. N. W. | 0·5 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·5 | W. N. W. | 0·2 | S. by W. | 0·5 |
| FEBRUARY. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | 1 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | E. S. E. | 12·0 | E. | 2·0 | E. | 8·0 | E. | 4·0 | E. by S. | 4·0 | E. | 4·0 |
| | 4 | N. by E. | 2·0 | N. N. E. | 1·0 | N. N. E. | 1·0 | N. N. E. | 1·5 | N. by E. | 2·0 | N. | 1·5 |
| | 5 | N. N. W. | 8·0 | N. N. W. | 6·0 | N. N. W. | 6·0 | N. N. W. | 6·0 | N. N. W. | 4·0 | N. N. W. | 5·5 |
| | 6 | N. W. by N. | 1·0 | N. W. by N. | 2·0 | N. W. | 2·5 | N. N. W. | 2·5 | N. N. W. | 2·0 | N. N. W. | 4·0 |
| | 7 | — | 0·0 | N. N. W. | 0·5 | N. N. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. | 0·2 | N. E. by N. | 0·2 | N. E. by N. | 0·2 |
| | 11 | E. by N. | 0·2 | E. by N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | N. N. W. | 1·0 | N. W. by N. | 1·0 | N. W. | 0·5 | N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 |
| | 13 | N. E. | 0·2 | N. E. | 0·2 | N. E. | 0·2 | N. E. | 0·2 | N. E. | 0·2 | S. S. E. | 2·0 |
| | 14 | E. by S. | 3·0 | E. | 2·5 | E. | 2·0 | E. | 2·0 | E. | 2·0 | E. by S. | 1·0 |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | W. S. W. | 0·2 | W. S. W. | 0·2 | W. | 0·2 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | W. by N. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·2 | — | 0·0 |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 | N. E. by E. | 0·2 | N. E. by E. | 0·2 |
| | 20 | — | 0·0 | N. E. by E. | 0·2 | N. E. by E. | 0·2 | N. E. | 0·2 | — | 0·0 | — | 0·0 |
| | 21 | — | 0·0 | W. N. W. | 2·5 | W. N. W. | 0·5 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 |
| | 22 | E. N. E. | 0·5 | E. by N. | 1·5 | E. by N. | 2·5 | N. E. | 3·0 | E. N. E. | 2·0 | E. N. E. | 1·5 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | S. W. | 0·5 | S. W. | 0·5 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | W. | 1·5 | W. | 1·0 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | N. | 1·0 | N. by W. | 1·0 | N. N. W. | 1·5 | N. N. W. | 2·0 | N. N. W. | 2·5 | N. W. | 0·5 |
| 28 | S. S. E. | 0·5 | S. by E. | 0·5 | S. by E. | 0·5 | S. by E. | 1·0 | S. S. E. | 1·0 | S. E. | 1·0 | |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| N. by W. | 0.2 | N. by E. | 0.2 | N. E. by E. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| E. | 0.5 | S. E. | 0.5 | S. E. | 1.5 | S. E. | 2.0 | S. E. | 4.0 | E. by S. | 4.0 | 3 |
| E. N. E. | 3.0 | N. E. | 2.5 | N. E. | 4.0 | N. E. | 4.0 | N. E. | 3.0 | N. E. | 2.5 | 4 |
| N. by W. | 12.0 | N. by W. | 11.0 | N. W. by N. | 8.0 | N. W. by N. | 11.0 | N. by W. | 10.0 | N. N. W. | 10.0 | 5 |
| — | 0.0 | N. W. | 3.0 | N. W. | 3.5 | N. W. | 3.5 | N. W. | 4.0 | N. W. | 2.5 | 6 |
| W. N. W. | 0.5 | N. W. | 0.5 | N. W. | 2.0 | N. W. | 2.0 | N. W. by W. | 0.2 | — | 0.0 | 7 |
| N. W. by N. | 0.2 | N. W. by N. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | E. N. E. | 0.2 | — | 0.0 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | — | 0.0 | S. E. | 0.2 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. by N. | 0.2 | 11 |
| N. N. W. | 3.5 | N. N. W. | 2.0 | N. W. by N. | 1.5 | N. N. W. | 3.0 | N. N. W. | 1.5 | N. N. W. | 2.5 | 12 |
| E. | 0.2 | E. N. E. | 0.5 | N. E. | 0.2 | N. E. by N. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | 13 |
| E. by N. | 2.5 | E. | 2.0 | E. | 3.0 | E. | 3.0 | E. | 2.0 | E. | 2.5 | 14 |
| E. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| — | 0.0 | — | 0.0 | W. | 0.2 | W. by N. | 0.2 | — | 0.0 | — | 0.0 | 17 |
| — | 0.0 | S. by W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. | 0.2 | — | 0.0 | 18 |
| E. by S. | 0.2 | E. by S. | 0.2 | E. N. E. | 0.2 | N. E. by E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | 19 |
| E. by S. | 0.2 | E. by S. | 0.2 | N. E. | 0.2 | E. by N. | 0.2 | E. N. E. | 0.2 | N. E. | 0.2 | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.5 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. W. | 2.0 | S. W. | 1.0 | 24 |
| S. W. by S. | 0.5 | S. by W. | 0.5 | S. S. W. | 0.5 | S. W. by S. | 0.5 | S. W. | 0.2 | — | 0.0 | 25 |
| W. S. W. | 1.0 | W. S. W. | 2.0 | W. S. W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.2 | W. by S. | 0.2 | 26 |
| S. by W. | 0.2 | S. by W. | 0.2 | S. | 0.2 | — | 0.0 | N. by W. | 0.5 | N. N. W. | 0.5 | 27 |
| S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. S. E. | 0.2 | S. E. | 0.5 | S. E. | 0.5 | 28 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. | 0.2 | 2 |
| E. | 5.0 | E. S. E. | 6.0 | E. by S. | 6.0 | E. by S. | 6.0 | E. by S. | 7.0 | E. by S. | 6.0 | 3 |
| N. | 2.5 | N. | 2.5 | N. by E. | 3.5 | N. | 3.0 | N. | 3.0 | N. | 6.0 | 4 |
| N. W. | 4.0 | N. W. | 3.5 | N. W. | 3.5 | N. W. | 3.5 | N. W. | 3.0 | N. W. | 3.0 | 5 |
| N. N. W. | 3.5 | N. | 2.5 | N. W. | 2.5 | N. W. | 2.5 | N. W. | 2.5 | N. W. by W. | 3.5 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| N. N. E. | 0.2 | N. E. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| N. by W. | 0.5 | N. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| N. E. by E. | 2.0 | N. E. by E. | 1.0 | N. E. | 1.0 | N. E. | 1.5 | N. E. by E. | 1.0 | N. E. by E. | 1.0 | 13 |
| E. | 1.0 | E. | 1.0 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. N. E. | 0.2 | 14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | W. | 0.2 | — | 0.0 | — | 0.0 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. | 0.2 | 19 |
| — | 0.0 | E. N. E. | 0.2 | N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| W. N. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| W. S. W. | 0.5 | W. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| W. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| W. by N. | 0.5 | W. by S. | 0.5 | W. by N. | 0.2 | W. by S. | 1.0 | W. S. W. | 0.2 | W. S. W. | 0.2 | 25 |
| — | 0.0 | W. | 0.2 | — | 0.0 | — | 0.0 | N. W. | 0.2 | — | 0.0 | 26 |
| N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 | 27 |
| S. E. | 0.5 | S. E. | 0.5 | S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |

FEBRUARY.

FEBRUARY.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|----------|------------------|----------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|-------------|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| MARCH. | 1 | — | lbs. 0·0 | — | lbs. 0·0 | — | lbs. 0·0 | W. by S. | 0·5 | N. W. | lbs. 1·5 | W. N. W. | lbs. 1·5 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | — | 0·0 | W. by N. | 2·0 | W. N. W. | 3·5 | N. W. by W. | 3·0 | W. by N. | 3·5 | W. N. W. | 3·5 |
| | 4 | W. S. W. | 0·2 | S. W. | 0·2 | S. W. by W. | 0·2 | — | 0·0 | S. W. by S. | 0·2 | S. S. W. | 0·2 |
| | 5 | N. E. | 0·5 | N. N. E. | 0·5 | N. by W. | 0·5 | N. by W. | 1·0 | N. by W. | 1·5 | N. by W. | 1·5 |
| | 6 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | S. E. by S. | 0·2 |
| | 7 | — | 0·0 | E. | 0·2 | E. N. E. | 0·2 | E. | 0·2 | E. | 0·5 | E. S. E. | 0·5 |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | W. | 0·2 | W. | 0·5 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | — | 0·0 | N. by E. | 0·2 | N. by E. | 0·2 | E. N. E. | 0·2 | E. N. E. | 0·5 | N. N. E. | 0·2 |
| | 11 | N. by W. | 0·2 | N. by W. | 0·2 | N. | 0·2 | E. N. E. | 0·2 | E. S. E. | 0·5 | S. E. | 0·5 |
| | 12 | S. S. W. | 0·5 | S. S. W. | 0·2 | S. W. | 0·5 | S. W. by S. | 1·0 | S. W. | 1·0 | S. by W. | 1·0 |
| | 13 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. S. E. | 0·2 |
| | 14 | — | 0·0 | — | 0·0 | E. by N. | 0·2 | E. by N. | 0·2 | E. | 0·2 | E. | 0·2 |
| | 15 | W. by N. | 2·0 | W. | 1·5 | W. by N. | 1·0 | W. by S. | 3·5 | W. by S. | 3·5 | W. by S. | 3·5 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | N. by E. | 0·2 | N. N. E. | 0·2 | — | 0·0 | N. by E. | 0·2 | N. by W. | 0·2 | N. by W. | 0·2 |
| | 18 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. by N. | 1·0 | W. by N. | 1·0 | W. N. W. | 2·5 |
| | 19 | — | 0·0 | W. by S. | 0·2 | W. by S. | 1·0 | W. N. W. | 2·5 | W. | 1·0 | W. N. W. | 1·5 |
| | 20 | W. N. W. | 1·5 | W. | 0·5 | W. | 2·5 | W. by N. | 1·5 | W. | 2·5 | W. by N. | 2·5 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. S. W. | 0·2 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | W. by N. | 0·5 | W. by N. | 0·5 | W. | 0·5 | W. | 0·2 | W. | 0·5 | N. W. by W. | 0·5 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 | S. W. | 0·5 | S. S. W. | 0·5 |
| | 26 | S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. W. by S. | 0·5 | S. by W. | 0·5 | S. | 0·5 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 |
| | 28 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. by W. | 0·2 | S. E. by E. | 0·2 |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. E. | 0·2 |
| | 30 | — | — | — | — | — | — | — | — | S. W. by S. | — | — | — |
| | 31 | — | 0·0 | — | 0·0 | — | 0·0 | S. by W. | 0·2 | — | 0·0 | S. by W. | 0·2 |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-----|
| Mean Göttingen Time. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| MARCH. | 1 | E. by N. | 0·2 | E. by N. | 0·2 | E. by N. | 0·2 | E. by N. | 0·2 | E. by N. | 0·2 | E. by N. | 0·2 |
| | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 3 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. by S. | 0·2 | — | 0·0 |
| | 4 | N. E. by E. | 0·2 | N. E. by E. | 0·2 | N. E. | 0·5 | E. N. E. | 0·5 | E. by N. | 0·5 | N. E. | 0·2 |
| | 5 | N. W. | 3·0 | W. by N. | 2·0 | W. by N. | 0·5 | W. | 0·5 | W. by S. | 0·5 | W. S. W. | 0·5 |
| | 6 | E. by N. | 0·5 | E. by N. | 0·5 | E. by N. | 0·5 | E. by N. | 0·5 | N. E. by E. | 0·5 | E. N. E. | 0·5 |
| | 7 | N. E. by E. | 0·2 | E. N. E. | 0·2 | N. E. by E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | W. | 0·2 | W. | 0·2 | W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 |
| | 9 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 10 | N. E. | 0·2 | — | 0·0 | N. E. | 0·2 | E. | 0·5 | N. | 0·2 | N. by W. | 0·2 |
| | 11 | S. S. E. | 0·2 | S. | 0·5 | S. by W. | 0·5 | S. S. W. | 0·2 | S. W. by S. | 0·2 | S. W. by W. | 0·2 |
| | 12 | S. S. W. | 0·2 | — | 0·0 | S. W. | 0·2 | N. | 0·2 | — | 0·0 | N. E. by N. | 0·2 |
| | 13 | E. by N. | 0·5 | E. by S. | 0·2 | E. N. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 14 | W. N. W. | 4·0 | W. N. W. | 3·5 | W. N. W. | 3·0 | W. by N. | 4·0 | W. N. W. | 4·0 | W. | 2·5 |
| | 15 | W. by N. | 1·0 | N. by W. | 0·2 | W. N. W. | 0·2 | N. W. | 1·0 | N. by W. | 2·0 | N. by W. | 1·5 |
| | 16 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 17 | W. by N. | 0·5 | W. N. W. | 1·0 | W. N. W. | 0·5 | W. N. W. | 0·5 | W. | 0·5 | W. by S. | 0·5 |
| | 18 | W. N. W. | 3·0 | W. N. W. | 1·5 | W. | 1·0 | W. by S. | 0·5 | W. | 0·2 | W. S. W. | 0·5 |
| | 19 | N. N. W. | 1·5 | N. W. | 2·5 | W. N. W. | 4·0 | W. by N. | 2·0 | W. by S. | 1·5 | W. by S. | 1·5 |
| | 20 | N. W. | 2·0 | W. N. W. | 1·0 | W. N. W. | 1·0 | N. W. by W. | 0·2 | W. N. W. | 0·5 | N. N. W. | 1·0 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | S. S. W. | 1·5 | S. W. | 1·0 | S. W. by W. | 0·5 | W. | 0·2 | — | 0·0 | — | 0·0 |
| | 23 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 24 | N. W. by N. | 0·2 | N. W. by N. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | S. W. by S. | 0·5 | S. W. by S. | 0·5 | S. W. | 0·5 | S. W. | 0·5 | S. W. by W. | 2·5 | S. W. | 1·5 |
| | 27 | E. N. E. | 0·2 | E. N. E. | 0·2 | — | 0·0 | N. | 0·2 | N. W. | 0·2 | — | 0·0 |
| | 28 | E. N. E. | 0·2 | E. N. E. | 0·2 | N. E. | 0·5 | N. E. | 0·5 | N. E. | 0·2 | E. N. E. | 0·2 |
| | 29 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 30 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 31 | S. by E. | 1·0 | S. by E. | 1·0 | S. by E. | 2·0 | E. | 0·5 | S. by E. | 0·5 | S. E. by S. | 0·2 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| W. N. W. | 1.0 | W. | 0.5 | S. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| W. N. W. | 3.0 | W. N. W. | 2.5 | W. N. W. | 2.5 | N. W. by N. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.5 | 3 |
| S. | 0.2 | — | 0.0 | S. by E. | 0.2 | — | 0.0 | E. by N. | 0.2 | N. E. by E. | 0.2 | 4 |
| N. N. W. | 2.0 | N. W. | 3.0 | N. W. | 4.0 | N. W. | 2.0 | N. W. | 3.0 | W. N. W. | 2.5 | 5 |
| S. E. by S. | 0.2 | S. by E. | 0.2 | — | 0.0 | — | 0.0 | E. | 0.5 | E. | 0.5 | 6 |
| E. S. E. | 0.5 | E. S. E. | 0.5 | E. by N. | 0.5 | N. E. | 0.5 | N. E. | 0.5 | N. E. by E. | 0.5 | 7 |
| W. by S. | 0.5 | W. by S. | 1.5 | W. by S. | 2.5 | W. by S. | 2.0 | W. | 1.0 | W. | 1.0 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| N. N. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | N. E. | 0.2 | 10 |
| S. by E. | 0.5 | S. by E. | 0.2 | S. S. E. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 11 |
| S. W. by S. | 0.2 | S. by W. | 0.2 | W. by S. | 0.2 | S. by W. | 0.2 | S. W. | 0.2 | S. S. W. | 0.2 | 12 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.5 | 13 |
| S. E. | 0.2 | E. | 0.2 | W. S. W. | 1.0 | W. by N. | 1.0 | W. N. W. | 2.5 | W. N. W. | 4.0 | 14 |
| W. by S. | 4.5 | W. by S. | 3.5 | W. by S. | 5.0 | W. by S. | 5.0 | W. S. W. | 5.5 | W. S. W. | 3.5 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| N. W. | 0.2 | N. W. by N. | 0.2 | N. W. by W. | 1.0 | N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.5 | 17 |
| W. N. W. | 2.5 | N. W. by W. | 1.5 | W. by S. | 1.5 | W. N. W. | 1.0 | N. W. by W. | 2.5 | W. N. W. | 2.5 | 18 |
| S. W. | 0.5 | W. | 0.5 | N. W. | 1.0 | N. N. W. | 1.5 | N. W. | 1.5 | N. N. W. | 1.5 | 19 |
| W. by N. | 2.5 | W. | 1.5 | W. N. W. | 2.0 | W. N. W. | 1.5 | N. W. | 2.0 | N. W. | 2.5 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| S. S. W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 1.0 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| N. W. | 1.0 | N. W. | 1.5 | N. N. W. | 1.0 | N. N. W. | 2.5 | N. N. W. | 2.5 | N. W. by N. | 2.0 | 24 |
| S. | 0.2 | N. W. | 1.0 | W. N. W. | 1.5 | W. N. W. | 1.5 | W. N. W. | 1.0 | — | 0.0 | 25 |
| S. by W. | 1.0 | S. S. W. | 2.0 | S. S. W. | 2.5 | S. S. W. | 2.0 | S. W. | 0.5 | S. S. W. | 0.5 | 26 |
| E. | 0.2 | — | 0.0 | E. | 0.2 | E. | 1.0 | E. | 1.0 | E. | 0.5 | 27 |
| E. | 0.2 | S. E. | 0.5 | E. by S. | 0.5 | E. S. E. | 0.2 | S. E. by E. | 0.2 | E. by S. | 0.2 | 28 |
| — | 0.0 | S. S. E. | 0.2 | S. | 0.2 | S. W. | 2.5 | S. W. | 1.5 | S. W. | 1.0 | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 |
| S. S. W. | 0.5 | S. by W. | 0.5 | S. | 1.0 | S. | 1.0 | S. S. W. | 1.5 | S. S. W. | 0.5 | 31 |

MARCH.

MARCH.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|------------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| APRIL. | 1 | W S. W. | 3.5 | W. by N. | 3.5 | W. | 4.0 | W. S. W. | 2.5 | W. S. W. | 3.5 | W. N. W. | 2.5 |
| | 2 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. W. | 2.5 | S. W. | 5.0 | W. S. W. | 6.5 |
| | 3 | N. W. | 1.5 | N. W. | 1.0 | N. W. | 1.0 | N.W by W. | 2.0 | W. by S. | 1.0 | W. by N. | 1.0 |
| | 4 | W. N. W. | 3.5 | W. by N. | 4.0 | W. | 5.0 | W. N. W. | 4.0 | W. | 4.5 | W. | 4.0 |
| | 5 | — | 0.0 | W. by N. | 0.2 | W. by S. | 0.2 | S. W. | 1.0 | W. | 2.0 | W. S. W. | 2.5 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.2 |
| | 8 | N.W. by N. | 0.5 | N. N. W. | 2.0 | N. W. by N. | 3.5 | N. N. W. | 4.5 | N. N. W. | 4.0 | N. N. W. | 4.5 |
| | 9 | — | 0.0 | — | 0.0 | W. by N. | 0.2 | S. by E. | 0.2 | S. by W. | 0.0 | S. by W. | 0.2 |
| | 10 | — | 0.0 | W. | 0.2 | W. N. W. | 0.5 | W. N. W. | 5.0 | W. N. W. | 4.0 | W. N. W. | 3.5 |
| | 11 | N. W. | 1.0 | N. W. | 2.5 | N. N. W. | 2.5 | N. W. | 2.5 | N. W. | 3.5 | N. W. | 2.5 |
| | 12 | — | 0.0 | — | 0.0 | W. N. W. | 0.2 | N. W. | 0.2 | S. E. by S. | 0.2 | S. S. W. | 0.2 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | N.W. by W. | 0.5 | W. N. W. | 0.2 | W. N. W. | 0.2 | W. | 0.2 | W. | 1.5 | W. by N. | 1.0 |
| | 15 | — | 0.0 | — | 0.0 | N. by W. | 0.2 | — | 0.0 | S. | 0.2 | S. | 0.2 |
| | 16 | N. E. | 2.0 | N. E. | 3.5 | N. E. | 3.0 | E. N. E. | 4.0 | N. E. | 5.0 | E. N. E. | 4.5 |
| | 17 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 1.0 | E. | 1.0 |
| | 18 | E. N. E. | 1.5 | E. N. E. | 1.0 | E. N. E. | 1.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 1.0 |
| | 19 | E. S. E. | 0.2 | E. by N. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | — | 0.0 | — | 0.0 | E. | 0.2 | — | 0.0 | — | 0.0 | S. E. by E. | 0.2 |
| | 22 | — | 0.0 | E. | 0.5 | E. | 0.5 | E. | 0.5 | E. by S. | 0.5 | E. | 1.0 |
| | 23 | — | 0.0 | — | 0.0 | E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. | 0.2 |
| | 24 | S. W. | 0.2 | — | 0.0 | — | 0.0 | S. by W. | 0.2 | S. S. W. | 0.5 | S. S. E. | 0.5 |
| | 25 | N. E. | 2.5 | N. E. | 3.0 | E. N. E. | 2.5 | E. N. E. | 2.5 | E. N. E. | 2.5 | E. N. E. | 1.5 |
| | 26 | — | 0.0 | — | 0.0 | — | 0.0 | E. by S. | 0.2 | E. S. E. | 0.2 | E by S. | 0.2 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 29 | N. N. E. | 0.2 | N. E. by E. | 0.2 | E. N. E. | 0.5 | E. | 0.5 | E. | 0.5 | S. | 0.5 |
| | 30 | N. N. E. | 0.5 | N. E. | 0.5 | N. E. by E. | 0.5 | E. by N. | 0.2 | E. | 0.5 | E. | 0.5 |
| APRIL. | 1 | W. by N. | 0.2 | W. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 2 | W. | 3.0 | W. | 1.0 | W. | 0.2 | — | 0.0 | — | 0.0 | W. by N. | 3.5 |
| | 3 | S. S. E. | 1.0 | S. S. E. | 1.0 | S. E. | 0.5 | E. | 0.5 | E. by N. | 1.0 | E. S. E. | 3.0 |
| | 4 | W. N. W. | 2.5 | W. N. W. | 2.5 | N.W. by W. | 1.5 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 |
| | 5 | N. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | N.W. by W. | 2.0 | N. W. | 2.5 | — | 0.0 | — | 0.0 | — | 0.0 | W. N. W. | 0.5 |
| | 8 | N. W. | 1.0 | N. N. W. | 1.0 | W. N. W. | 1.5 | W. N. W. | 1.0 | W. by N. | 1.0 | W. by N. | 0.5 |
| | 9 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 2.5 | S. by W. | 2.5 | S. by W. | 0.5 | S. S. W. | 0.2 |
| | 10 | N.W. by W. | 3.5 | N. W. | 3.5 | N.W. by W. | 3.5 | N. W. | 1.0 | N. W. | 0.5 | — | 0.0 |
| | 11 | N. N. W. | 2.5 | N. N. W. | 0.5 | N. N. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 12 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | N. W. | 1.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 |
| | 15 | S. E. by S. | 0.2 | E. | 0.2 | N. E. | 0.2 | — | 0.0 | — | 0.0 | N.E. by N. | 0.2 |
| | 16 | E. N. E. | 0.5 | E. N. E. | 2.5 | E. N. E. | 3.0 | E. N. E. | 3.0 | E. N. E. | 2.0 | E. N. E. | 1.0 |
| | 17 | E. N. E. | 2.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 2.5 | E. N. E. | 2.5 | E. N. E. | 3.0 |
| | 18 | N. E. | 0.5 | N. E. | 2.0 | E. N. E. | 1.0 | E. N. E. | 1.0 | N. E. | 0.5 | N. E. | 0.5 |
| | 19 | — | 0.0 | — | 0.0 | N.W. by W. | 0.2 | N.W. by W. | 0.2 | W. by N. | 0.2 | W. by N. | 0.2 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | E. by S. | 0.2 | E. | 0.2 | E. | 0.2 | N. by W. | 0.2 | — | 0.0 | N. by E. | 0.2 |
| | 22 | E. N. E. | 0.2 | E. N. E. | 0.2 | E. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 |
| | 23 | S. W. | 1.5 | N. W. | 0.5 | W. | 1.0 | S. S. E. | 0.5 | S. S. E. | 0.2 | S. S. E. | 0.2 |
| | 24 | N. N. W. | 1.0 | N. by W. | 0.2 | — | 0.0 | N. N. W. | 0.2 | N. | 0.2 | N. E. | 0.2 |
| | 25 | F. N. E. | 0.5 | N.E. by E. | 2.0 | S. E. by S. | 0.2 | E. by S. | 0.5 | E. | 0.5 | E. | 0.5 |
| | 26 | E. | 0.2 | E. by N. | 0.2 | N. N. E. | 0.5 | N. by E. | 0.2 | N. | 0.2 | S. by W. | 0.2 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | S.W. by W. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 29 | E. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. | 0.2 |
| | 30 | N. by E. | 0.2 | N. by E. | 0.2 | W. N. W. | 0.2 | S. | 0.5 | W. | 0.5 | N.W. by W. | 0.2 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| W. by N. | 2.5 | W. by N. | 2.5 | W. by N. | 3.5 | W. | 2.5 | W. by N. | 2.0 | W. | 2.0 | 1 |
| W. S. W. | 5.0 | W. | 10.0 | W. N. W. | 10.0 | W. by N. | 9.0 | W. by N. | 8.0 | W. N. W. | 4.5 | 2 |
| N. W. by W. | 0.5 | S. S. E. | 0.5 | S. E. by S. | 0.2 | S. E. by E. | 0.2 | S. E. by S. | 0.2 | E. S. E. | 0.5 | 3 |
| W. N. W. | 4.5 | W. N. W. | 4.0 | W. N. W. | 6.5 | W. N. W. | 5.5 | W. N. W. | 3.5 | W. N. W. | 3.5 | 4 |
| W. by N. | 3.0 | N. | 1.5 | W. N. W. | 2.5 | N. by W. | 3.5 | N. N. W. | 2.5 | N. by W. | 1.5 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| N. N. W. | 0.2 | W. S. W. | 0.5 | W. by N. | 0.5 | N. W. | 0.2 | W. S. W. | 0.2 | N. W. | 2.0 | 7 |
| N. N. W. | 4.5 | N. N. W. | 5.5 | N. W. | 4.0 | N. W. | 4.5 | N. N. W. | 5.5 | N. N. W. | 3.0 | 8 |
| E. S. E. | 0.2 | S. E. by S. | 0.2 | S. S. E. | 0.2 | S. | 1.0 | S. S. W. | 2.5 | S. S. W. | 1.0 | 9 |
| N. W. by W. | 3.5 | N. W. | 4.5 | W. N. W. | 4.0 | W. N. W. | 5.0 | W. N. W. | 4.0 | N. W. by W. | 3.5 | 10 |
| N. W. | 2.5 | N. W. | 2.5 | N. W. | 3.0 | N. N. W. | 3.0 | N. N. W. | 2.5 | N. N. W. | 2.5 | 11 |
| S. by W. | 0.5 | S. by W. | 0.2 | S. | 0.2 | S. | 0.2 | S. by W. | 0.2 | — | 0.0 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 1.0 | S. S. W. | 0.5 | S. S. W. | 0.5 | N. W. | 2.5 | 14 |
| S. | 0.2 | S. by W. | 0.5 | S. S. E. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | 15 |
| N. E. | 3.5 | E. N. E. | 3.5 | E. N. E. | 3.5 | E. N. E. | 3.0 | E. N. E. | 3.0 | E. N. E. | 3.0 | 16 |
| E. by N. | 1.0 | E. | 1.0 | E. | 0.5 | E. N. E. | 1.0 | E. N. E. | 1.0 | E. N. E. | 0.5 | 17 |
| N. E. by E. | 0.5 | E. N. E. | 1.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. N. E. | 2.5 | 18 |
| E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| S. E. | 0.2 | S. E. by S. | 0.2 | — | 0.0 | — | 0.0 | E. S. E. | 0.2 | E. S. E. | 0.2 | 21 |
| E. | 1.5 | E. by N. | 1.5 | E. | 1.5 | E. | 1.0 | E. | 1.0 | E. | 0.5 | 22 |
| E. | 0.2 | E. | 0.2 | E. by N. | 0.2 | N. E. by E. | 0.5 | E. N. E. | 0.5 | N. N. E. | 0.5 | 23 |
| S. S. E. | 0.2 | S. S. E. | 0.2 | N. N. E. | 0.2 | N. | 0.2 | N. N. W. | 0.5 | N. N. W. | 1.0 | 24 |
| E. N. E. | 1.0 | E. | 0.5 | N. E. by E. | 2.5 | E. | 3.0 | E. | 0.5 | W. by S. | 3.0 | 25 |
| E. by S. | 0.2 | E. | 0.5 | E. | 0.2 | E. S. E. | 1.0 | E. by N. | 0.5 | E. | 0.5 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. by W. | 0.2 | — | 0.0 | 28 |
| S. | 0.5 | S. E. by S. | 0.5 | S. by E. | 0.5 | S. S. E. | 0.2 | S. E. | 0.2 | S. W. by S. | 0.2 | 29 |
| E. | 0.5 | N. N. E. | 0.5 | E. | 0.5 | E. N. E. | 0.2 | E. by N. | 0.2 | N. E. | 0.2 | 30 |

APRIL.

APRIL.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| MAY. | 1 | — | 0·0 | — | 0·0 | W. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 0·5 |
| | 2 | W. | 0·2 | W. | 1·0 | W. N. W. | 2·5 | W. N. W. | 2·5 | W. N. W. | 2·0 | W. | 2·0 |
| | 3 | — | 0·0 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·5 | S. S. W. | 1·0 | S. | 1·5 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 5 | — | 0·0 | N. W. | 1·0 | N. W. | 0·5 | N. W. by N. | 0·5 | N. W. by W. | 1·0 | N. W. by W. | 1·0 |
| | 6 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. by W. | 0·2 | S. by E. | 0·5 | S. | 0·5 |
| | 7 | N. N. W. | 1·0 | N. N. W. | 3·0 | N. N. W. | 3·5 | N. W. | 2·5 | N. W. | 3·0 | N. W. | 2·5 |
| | 8 | — | 0·0 | — | 0·0 | N. W. | 0·2 | S. by E. | 0·2 | S. by W. | 0·5 | S. by W. | 0·5 |
| | 9 | E. by S. | 0·2 | N. N. E. | 0·2 | E. | 0·2 | E. S. E. | 0·5 | E. S. E. | 0·5 | E. by S. | 0·5 |
| | 10 | E. | 0·2 | E. | 0·2 | E. S. E. | 0·5 | E. by S. | 0·5 | E. S. E. | 0·5 | S. E. | 0·2 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·5 |
| | 13 | — | 0·0 | S. E. by S. | 0·2 | S. S. E. | 0·2 | — | 0·0 | S. by W. | 0·2 | S. by E. | 0·2 |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | N. by W. | 0·5 | N. by W. | 2·0 | N. N. W. | 2·5 | N. N. W. | 2·5 | N. N. W. | 2·5 | N. N. W. | 0·5 |
| | 16 | N. by W. | 0·2 | N. E. | 0·2 | N. | 0·2 | N. | 1·0 | S. by E. | 0·2 | S. by W. | 0·2 |
| | 17 | N. N. W. | 0·2 | N. | 0·2 | N. N. W. | 0·2 | S. by W. | 0·2 | S. S. E. | 0·2 | S. E. | 0·2 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | — | 0·0 | S. S. W. | 0·2 | S. | 0·2 | S. by E. | 0·2 | S. | 0·5 | S. | 0·5 |
| | 20 | W. N. W. | 0·2 | W. N. W. | 0·5 | W. N. W. | 0·2 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 |
| | 21 | N. N. W. | 0·2 | — | 0·0 | W. by N. | 0·2 | W. N. W. | 0·5 | S. S. W. | 0·5 | S. | 0·5 |
| | 22 | — | 0·0 | — | 0·0 | N. E. by N. | 0·2 | N. by W. | 0·2 | N. E. | 0·2 | E. by S. | 0·2 |
| | 23 | N. W. by W. | 0·2 | W. | 0·2 | W. by S. | 0·2 | S. S. W. | 0·2 | S. | 0·5 | S. S. W. | 0·2 |
| | 24 | N. N. W. | 0·5 | N. W. by N. | 2·0 | N. W. | 1·5 | N. W. | 2·0 | N. W. | 1·5 | N. W. | 1·5 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | W. S. W. | 0·2 | W. S. W. | 0·5 | W. S. W. | 1·0 | W. by S. | 1·0 | W. by S. | 2·0 | W. by S. | 2·5 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | S. by E. | 0·2 |
| | 28 | — | 0·0 | S. S. W. | 0·2 | S. S. W. | 0·5 | S. S. W. | 1·0 | S. by W. | 1·0 | S. W. | 1·5 |
| | 29 | N. N. W. | 1·0 | N. N. W. | 2·5 | N. N. W. | 2·0 | N. W. | 1·5 | N. W. | 0·5 | N. W. | 0·5 |
| | 30 | — | 0·0 | — | 0·0 | N. by E. | 0·2 | S. S. E. | 0·2 | S. | 0·5 | S. | 0·5 |
| | 31 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. | 0·2 | S. | 0·2 | S. | 0·2 | S. | 0·2 |
| MAY. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | 1 | N. N. W. | 0·2 | N. W. | 0·5 | N. N. W. | 0·5 | N. | 0·5 | N. by W. | 0·5 | N. N. W. | 0·5 |
| | 2 | W. | 1·0 | S. S. W. | 0·5 | S. S. W. | 0·2 | W. | 0·2 | W. by S. | 0·2 | W. S. W. | 0·2 |
| | 3 | S. W. | 0·5 | S. W. by W. | 0·5 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 4 | — | — | — | — | — | — | — | — | — | — | — | |
| | 5 | S. | 0·5 | S. S. W. | 0·2 | W. N. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | — | 0·0 | N. | 0·2 | N. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 7 | N. W. | 2·5 | N. W. | 2·0 | N. W. | 2·5 | N. W. | 1·5 | N. W. by N. | 0·5 | N. W. by N. | 0·5 |
| | 8 | S. | 0·5 | S. | 0·5 | S. S. W. | 0·2 | S. S. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 9 | E. | 0·2 | E. N. E. | 0·2 | N. E. by N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 11 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | E. | 0·2 | E. | 0·2 | — | 0·0 | S. | 0·2 | — | 0·0 | — | 0·0 |
| | 14 | N. N. E. | 0·2 | N. W. | 0·2 | N. N. W. | 0·5 | N. E. | 0·5 | N. W. | 0·5 | N. N. W. | 0·5 |
| | 15 | N. N. W. | 2·5 | N. N. W. | 1·5 | N. W. by N. | 1·0 | N. N. W. | 1·0 | N. by W. | 0·2 | — | 0·0 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 18 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 19 | W. S. W. | 0·5 | S. W. | 0·2 | N. W. | 1·5 | N. N. W. | 1·5 | N. N. W. | 0·5 | N. W. | 0·5 |
| | 20 | N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 1·5 | N. W. by N. | 1·0 | — | 0·0 | — | 0·0 |
| | 21 | S. E. by S. | 0·2 | N. E. | 0·2 | N. by E. | 0·2 | — | 0·0 | N. | 0·2 | N. by W. | 0·2 |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 23 | N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 1·0 | N. N. W. | 0·5 | N. W. by N. | 0·2 | N. by W. | 0·5 |
| | 24 | N. W. | 2·0 | N. W. | 2·0 | N. W. | 2·0 | N. W. | 1·5 | N. W. | 1·0 | N. W. | 0·5 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | W. N. W. | 2·5 | N. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | S. W. by S. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 28 | N. W. | 0·5 | N. W. | 2·0 | N. W. | 3·0 | N. W. by N. | 3·5 | N. W. | 2·0 | N. N. W. | 3·0 |
| | 29 | N. W. | 1·5 | N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·2 | N. W. | 0·5 | N. W. | 0·5 |
| | 30 | S. | 0·2 | S. by W. | 0·2 | S. | 0·2 | S. by W. | 0·2 | — | 0·0 | — | 0·0 |
| 31 | S. S. E. | 0·5 | S. S. E. | 0·2 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| JUNE. | 1 | — | lbs. | — | — | — | — | — | — | — | — | — | |
| | 2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 3 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 4 | — | 0.0 | N. N. E. | 0.2 | E. S. E. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. W. by S. | 0.5 |
| | 5 | W. N. W. | 1.5 | W. | 1.0 | W. by N. | 1.5 | E. by N. | 0.2 | S. | 0.2 | S. by W. | 0.2 |
| | 6 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 2.0 | N. W. | 2.0 |
| | 7 | — | 0.0 | E. S. E. | 0.2 | — | 0.0 | N. E. by N. | 0.5 | S. by W. | 0.2 | — | 0.0 |
| | 8 | — | — | — | — | — | — | — | — | N. E. | 0.5 | E. | 0.5 |
| | 9 | — | 0.0 | S. W. by W. | 1.0 | W. S. W. | 1.0 | S. W. by W. | 1.0 | W. | 1.5 | W. | 2.0 |
| | 10 | — | 0.0 | N. W. | 0.2 | S. | 0.2 | S. by W. | 0.5 | S. S. W. | 0.2 | S. by W. | 0.2 |
| | 11 | N. | 0.2 | — | 0.0 | N. by W. | 0.2 | — | 0.0 | N. N. E. | 0.2 | E. by S. | 0.2 |
| | 12 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. by W. | 0.2 |
| | 13 | — | 0.0 | W. | 0.2 | W. | 0.2 | W. by S. | 0.2 | S. by W. | 0.2 | — | 0.0 |
| | 14 | — | 0.0 | — | 0.0 | N. W. by W. | 0.5 | N. N. W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 16 | W. by N. | 0.2 | W. by N. | 0.2 | S. by W. | 0.5 | S. by W. | 0.5 | S. | 0.5 | S. by W. | 0.2 |
| | 17 | — | 0.0 | W. | 0.5 | W. | 2.0 | W. N. W. | 3.0 | W. | 1.0 | N. W. | 1.0 |
| | 18 | — | 0.0 | — | 0.0 | — | 0.0 | S. by W. | 0.2 | S. by W. | 0.2 | S. S. W. | 0.2 |
| | 19 | — | 0.0 | — | 0.0 | S. W. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 0.2 | S. W. by S. | 0.2 |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | S. | 0.2 |
| | 21 | N. | 0.2 | N. by W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.5 | N. N. W. | 0.5 | N. by W. | 0.2 |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 23 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. by W. | 0.2 | S. S. W. | 0.5 |
| | 24 | — | 0.0 | — | 0.0 | S. S. W. | 0.2 | S. by W. | 0.2 | S. S. W. | 0.2 | S. | 0.2 |
| | 25 | — | 0.0 | N. E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | S. by E. | 0.2 |
| | 26 | W. | 0.2 | W. | 0.2 | W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. by W. | 0.2 |
| | 27 | — | 0.0 | — | 0.0 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 |
| | 28 | N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | E. N. E. | 0.2 | — | 0.0 |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 30 | N. by W. | 0.2 | N. by W. | 0.2 | N. N. E. | 0.5 | N. E. | 0.5 | E. N. E. | 0.5 | N. E. by E. | 1.0 |
| JUNE. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | 1 | — | — | — | — | — | — | — | — | — | — | — | |
| | 2 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 3 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 4 | E. by N. | 0.5 | E. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 5 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | |
| | 6 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 7 | E. by S. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 8 | — | — | — | — | — | — | — | — | — | — | — | |
| | 9 | S. S. W. | 0.5 | S. S. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 10 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 11 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 12 | S. W. | 0.5 | W. by S. | 0.2 | W. by S. | 0.2 | — | 0.0 | — | 0.0 | W. S. W. | |
| | 13 | N. by E. | 0.2 | N. by E. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | — | |
| | 14 | N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.2 | — | 0.0 | — | 0.0 | — | |
| | 15 | — | — | — | — | — | — | — | — | — | — | — | |
| | 16 | S. W. | 0.2 | — | 0.0 | — | 0.0 | W. N. W. | 1.5 | N. W. by N. | 1.5 | N. N. W. | |
| | 17 | W. N. W. | 0.5 | W. | 0.2 | — | 0.0 | W. | 0.2 | W. | 0.2 | W. | |
| | 18 | S. W. by S. | 0.2 | W. S. W. | 0.2 | W. by S. | 0.2 | W. | 0.2 | — | 0.0 | — | |
| | 19 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 20 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | W. S. W. | 0.2 | — | |
| | 21 | N. N. W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | — | 0.0 | — | 0.0 | — | |
| | 22 | — | — | — | — | — | — | — | — | — | — | — | |
| | 23 | W. by N. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 24 | N. by W. | 0.2 | N. by W. | 0.2 | N. N. W. | 0.5 | N. by W. | 0.5 | N. N. W. | 0.2 | N. N. W. | |
| | 25 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 26 | W. N. W. | 0.2 | N. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 27 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | |
| | 29 | — | — | — | — | — | — | — | — | — | — | — | |
| 30 | E. by S. | 0.5 | E. by S. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 | — | | |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | |
|----------------------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | lbs. | — | lbs. | — | lbs. | — | lbs. | — | lbs. | — | lbs. | 1 |
| E. | 0.0 | E. | 0.2 | E. | 0.2 | S. S. E. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | 2 |
| S. by W. | 0.5 | S. | 1.0 | S. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | 3 |
| S. S. E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. S. E. | 0.2 | E. | 0.5 | 4 |
| N. W. | 0.5 | W. by N. | 0.5 | N. W. by N. | 0.5 | N. by W. | 0.2 | S. E. | 0.2 | S. E. by E. | 0.2 | 5 |
| — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| E. by S. | 1.0 | E. by S. | 1.0 | E. by S. | 0.5 | E. | 0.5 | E. | 0.5 | E. S. E. | 0.2 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| W. | 2.0 | W. by N. | 2.0 | W. | 2.5 | W. | 1.5 | W. by S. | 2.0 | W. by S. | 1.0 | 9 |
| S. E. by S. | 0.2 | — | 0.0 | S. S. E. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | 10 |
| E. by S. | 0.2 | S. S. E. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. W. by W. | 1.5 | W by S. | 1.0 | S. W. | 0.5 | 12 |
| S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | W. | 0.2 | 13 |
| W. N. W. | 1.5 | W. N. W. | 2.5 | W. by N. | 2.0 | N. N. W. | 1.5 | W. N. W. | 1.5 | W. N. W. | 1.5 | 14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| W. | 0.5 | W. by N. | 0.5 | S. W. | 0.2 | W. | 0.2 | W. | 0.2 | S. S. W. | 0.5 | 16 |
| W. by N. | 1.0 | W. N. W. | 1.5 | N. W. | 1.5 | W. | 1.5 | W. | 1.0 | W. by N. | 2.0 | 17 |
| S. | 0.2 | S. by W. | 0.5 | S. | 0.5 | S. by W. | 0.5 | S. by W. | 0.2 | S. by W. | 0.2 | 18 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. by W. | 0.2 | — | 0.0 | — | 0.0 | 19 |
| S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 1.5 | S. S. W. | 1.5 | S. S. W. | 1.5 | S. S. W. | 1.0 | 20 |
| N. N. W. | 0.2 | N. W. | 0.5 | N. W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. | 0.5 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| S. S. W. | 0.5 | W. by N. | 0.5 | W. by N. | 0.5 | N. W. | 1.0 | W. by N. | 0.5 | W. by S. | 1.0 | 23 |
| S. S. E. | 0.2 | S. by W. | 0.5 | W. N. W. | 0.5 | N. | 0.5 | N. | 0.2 | S. | 0.2 | 24 |
| S. by E. | 0.2 | S. by E. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | N. | 0.2 | 25 |
| S. by W. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | 26 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | E. N. E. | 0.2 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | 28 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| E. | 1.0 | E. | 1.0 | E. | 1.0 | E. | 0.5 | E. | 0.5 | E. S. E. | 0.5 | 30 |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | |
|----------------------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | W. by N. | 0.2 | W. N. W. | 2.0 | W. | 1.5 | 4 |
| — | 0.0 | — | 0.0 | N. W. | 0.2 | W. | 0.2 | — | 0.0 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| W. by S. | 0.5 | W. by N. | 0.5 | W. by N. | 0.5 | W. | 0.2 | W. | 0.2 | — | 0.0 | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| — | 0.0 | N. N. W. | 2.5 | N. | 2.5 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. by E. | 0.2 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.2 | 11 |
| W. | 0.2 | — | 0.0 | W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| W. | 0.2 | W. | 1.0 | W. by N. | 0.5 | W. | 0.2 | W. | 0.2 | W. by N. | 0.2 | 15 |
| W. N. W. | 1.0 | W. S. W. | 0.5 | W. S. W. | 0.2 | W. by S. | 0.2 | — | 0.0 | — | 0.0 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| N. W. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. by E. | 0.2 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | W. by N. | 0.2 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| — | 0.0 | — | 0.0 | E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | N. N. | 0.2 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| N. N. E. | 0.2 | — | 0.0 | — | 0.0 | N. | 0.2 | — | 0.0 | N | 0.2 | 29 |
| N. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| JULY. | 1 | — | 0·0 | E. | 0·2 | E. S. E. | 0·5 | S. E. | 0·5 | S. E. by E. | 0·5 | S. by E. | 0·5 |
| | 2 | N. W. | 0·5 | N. W. by W. | 0·5 | W. | 0·5 | S. W. | 0·5 | S. W. | 0·5 | S. | 0·5 |
| | 3 | N. N. W. | 0·2 | N. W. | 0·5 | N. W. by W. | 0·5 | N. W. | 0·2 | W. | 0·2 | S. | 0·5 |
| | 4 | N. W. | 0·5 | N. W. | 0·5 | N. N. W. | 0·5 | N. W. | 0·2 | N. N. W. | 0·2 | N. W. | 0·2 |
| | 5 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | S. W. | 0·2 | S. W. | 0·2 | W. by N. | 0·5 | W. | 0·2 | W. | 1·0 | W. | 2·0 |
| | 8 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. by S. | 0·2 | S. W. by S. | 0·2 | S. S. W. | 0·2 |
| | 9 | N. N. E. | 0·2 | N. E. by N. | 0·2 | E. | 0·5 | E. | 0·5 | E. | 0·5 | E. | 0·5 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 | E. S. E. | 0·2 |
| | 11 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. S. W. | 0·2 |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. W. | 0·2 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | W. by S. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | W | 0·2 | S. S. W. | 0·5 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | S. S. W. | 0·2 | S. S. W. | 0·2 | W. | 0·5 | W. by S. | 2·0 | W. | 1·5 | W. | 1·5 |
| | 18 | — | 0·0 | — | 0·0 | N. W. by W. | 0·2 | N. by W. | 0·5 | N. W. by N. | 1·0 | N. N. W. | 2·0 |
| | 19 | — | 0·0 | E. by N. | 0·2 | — | 0·0 | E. N. E. | 0·2 | N. E. | 0·5 | N. E. | 0·5 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | — | 0·0 | — | 0·0 | — | 0·0 | S. by W. | 0·2 | S. by E. | 0·2 | S. E. by S. | 0·2 |
| | 22 | W. | 0·5 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 1·0 | N. W. by W. | 0·5 | W. by N. | 1·5 |
| | 23 | N. N. W. | 0·2 | N. W. | 0·5 | N. N. W. | 0·5 | N. W. by N. | 1·0 | N. W. by W. | 2·0 | N. W. by W. | 2·0 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. | 0·5 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. S. W. | 0·2 | S. S. W. | 0·2 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | S. E. | 0·2 | — | 0·0 | — | 0·0 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | — | 0·0 | N. W. by N. | 0·2 | N. W. by N. | 0·5 | N. N. W. | 1·0 | N. N. W. | 1·0 | N. W. | 1·0 |
| | 29 | — | 0·0 | — | 0·0 | — | 0·0 | E. by N. | 0·5 | E. | 0·5 | E. | 0·5 |
| | 30 | N. W. | 1·0 | N. N. W. | 1·0 | N. W. | 1·0 | N. N. W. | 1·0 | N. N. W. | 0·5 | N. N. W. | 0·2 |
| | 31 | — | 0·0 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | S. | 0·2 | S. by W. | 0·5 |
| JULY. | 12 ^h . | | 13 ^h . | | 14 ^h . | | 15 ^h . | | 16 ^h . | | 17 ^h . | | |
| | 1 | S. E. | 0·2 | S. E. | 0·5 | E. S. E. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 3 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. W. by N. | 0·2 | — | 0·0 |
| | 4 | — | 0·0 | — | 0·0 | — | 0·0 | N. by W. | 0·2 | — | 0·0 | — | 0·0 |
| | 5 | S. S. W. | 1·0 | S. W. | 0·5 | S. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 7 | N. N. W. | 0·2 | N. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 8 | N. | 1·0 | N. N. W. | 0·2 | N. N. W. | 0·2 | N. N. W. | 0·5 | N. by W. | 0·5 | N. | 0·5 |
| | 9 | — | 0·0 | — | 0·0 | — | 0·0 | N. E. by N. | 0·2 | — | 0·0 | — | 0·0 |
| | 10 | — | 0·0 | — | 0·0 | — | 0·0 | N. N. E. | 0·2 | N. N. E. | 0·2 | — | 0·0 |
| | 11 | S. S. W. | 0·5 | S. S. W. | 0·5 | S. S. W. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | W. | 0·5 | W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 14 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 15 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 16 | W. | 0·2 | — | 0·0 | S. | 0·0 | S. | 0·2 | — | 0·2 | E. | 0·2 |
| | 17 | W. | 1·0 | W. N. W. | 0·5 | W. N. W. | 0·5 | — | 0·0 | N. N. W. | 0·5 | N. W. by N. | 0·2 |
| | 18 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 19 | E. | 0·2 | E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 20 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 21 | N. E. | 0·5 | — | 0·0 | — | 0·0 | — | 0·0 | N. W. | 0·2 | — | 0·0 |
| | 22 | N. W. | 1·5 | N. W. | 1·5 | N. W. | 1·0 | N. W. | 0·5 | N. W. | 0·2 | N. W. | 0·2 |
| | 23 | N. N. W. | 1·5 | — | 0·0 | — | 0·0 | N. W. | 0·5 | — | 0·0 | — | 0·0 |
| | 24 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 25 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 28 | N. W. by N. | 1·5 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | N. N. W. | 0·2 |
| | 29 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | — | 0·0 | S. W. | 0·5 | W. S. W. | 0·2 |
| | 30 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·2 | N. W. | 0·2 |
| 31 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | — | 0·0 | — | 0·0 | |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| E. by S. | 0.5 | E. | 1.0 | E. | 1.0 | E. | 1.0 | E. | 0.5 | S. E. | 0.2 | 1 |
| S. by W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. by W. | 0.2 | S. W. | 0.2 | — | 0.0 | 2 |
| S. by W. | 0.5 | S. | 0.5 | N. N. W. | 0.2 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. N. W. | 1.0 | 3 |
| S. W. | 0.2 | S. | 0.5 | S. S. W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.2 | S. | 0.2 | 4 |
| S. S. W. | 0.5 | S. by W. | 0.5 | S. | 0.5 | S. | 0.2 | S. | 0.5 | S. by W. | 1.5 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| W. by N. | 2.0 | W. by N. | 2.5 | N. W. | 2.5 | N. W. by W. | 2.0 | N.W. by W. | 1.5 | N. W. | 0.5 | 7 |
| S. | 0.2 | S. by W. | 0.2 | N. by W. | 0.2 | N. W. by N. | 0.5 | N. | 0.5 | N. | 1.0 | 8 |
| S. E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 9 |
| S. E. | 0.2 | E. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| S. by W. | 0.2 | E. S. W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. | 0.2 | S. S. W. | 0.5 | 11 |
| W. S. W. | 0.2 | W. by S. | 0.5 | W. S. W. | 0.5 | W. S. W. | 1.0 | W. | 2.0 | W. | 1.5 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.2 | — | 0.0 | 14 |
| S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | 15 |
| — | 0.0 | E. S. E. | 0.2 | S. S. W. | 0.5 | S. by W. | 0.5 | — | 0.0 | — | 0.0 | 16 |
| W. | 1.5 | W. | 1.0 | W. by N. | 1.5 | W. | 2.0 | W. | 1.5 | W. | 1.0 | 17 |
| N. N. W. | 2.0 | S. by W. | 1.0 | S. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. by E. | 0.2 | 18 |
| N. E. | 0.5 | E. by S. | 1.0 | E. S. E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 0.5 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| S. E. | 0.2 | S. E. | 0.2 | S. S. W. | 1.0 | S. S. W. | 0.5 | S. W. | 0.2 | S. W. by S. | 0.2 | 21 |
| W. N. W. | 1.5 | W. N. W. | 2.0 | N. W. | 2.0 | N. W. | 2.0 | N. W. | 2.0 | N. W. | 2.0 | 22 |
| N. N. W. | 2.5 | N. W. by N. | 2.5 | N. N. W. | 2.5 | N. W. | 2.5 | N. N. W. | 1.5 | N. N. W. | 2.0 | 23 |
| N. N. W. | 1.0 | N. W. | 1.0 | N. N. W. | 1.0 | N. | 1.0 | N. N. W. | 0.2 | N. by E. | 0.2 | 24 |
| S. | 0.2 | S. W. by S. | 0.5 | S. by W. | 0.5 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | 25 |
| — | 0.0 | S. S. E. | 0.2 | S. by E. | 0.2 | S. S. E. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| N. W. | 1.0 | N. N. W. | 2.0 | N. W. | 1.0 | W. N. W. | 1.5 | N. by W. | 1.0 | N. W. by N. | 1.5 | 28 |
| E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | W. N. W. | 0.5 | 29 |
| N. W. by N. | 0.2 | N. N. W. | 0.5 | N. W. | 1.5 | N. W. by N. | 1.5 | N. W. | 1.0 | N. W. by N. | 0.5 | 30 |
| S. by W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. by W. | 0.5 | S. | 0.5 | — | 0.0 | 31 |

JULY.

JULY.

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. S. W. | 0.2 | S. S. W. | 0.2 | S. by E. | 0.2 | S. by E. | 0.5 | S. S. W. | 0.2 | S. W. | 0.2 | 1 |
| S. S. E. | 0.2 | S. by W. | 0.2 | S. | 0.2 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | — | 0.0 | 2 |
| — | — | — | — | — | — | — | — | — | — | — | — | 3 |
| S. S. W. | 0.2 | S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. by W. | 0.2 | S. S. W. | 0.2 | 4 |
| S. by W. | 0.2 | S. S. W. | 0.5 | S. E. | 0.5 | S. E. | 0.5 | E. S. E. | 0.2 | S. E. | 0.2 | 5 |
| S. E. by S. | 0.2 | S. E. | 0.2 | S. E. by E. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | S. E. | 0.2 | 6 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. S. E. | 0.2 | 7 |
| S. E. | 0.2 | S. E. by S. | 0.2 | S. by E. | 0.2 | S. E. | 0.2 | S. E. by S. | 0.2 | — | 0.0 | 8 |
| S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | 9 |
| — | — | — | — | — | — | — | — | — | — | — | — | 10 |
| S. S. W. | 0.5 | S. S. W. | 0.2 | S. E. | 0.2 | W. S. W. | 0.2 | W. | 0.2 | N. N. W. | 0.2 | 11 |
| S. by W. | 0.5 | S. | 1.0 | S. S. W. | 0.5 | W. N. W. | 0.5 | N. W. | 1.5 | W. N. W. | 0.5 | 12 |
| S. S. E. | 0.2 | S. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | 13 |
| S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. | 0.5 | S. | 0.5 | — | 0.0 | 14 |
| E. by S. | 1.0 | E. N. E. | 0.5 | E. N. E. | 0.5 | E. | 0.5 | E. N. E. | 0.5 | E. | 0.5 | 15 |
| S. S. E. | 0.2 | S. S. E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | 16 |
| — | — | — | — | — | — | — | — | — | — | — | — | 17 |
| S. S. W. | 0.2 | S. by E. | 0.2 | S. W. by S. | 0.2 | S. by W. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 18 |
| S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 19 |
| S. S. E. | 0.2 | S. by E. | 0.2 | S. E. | 0.2 | E. by S. | 0.5 | E. by S. | 0.2 | E. S. E. | 0.2 | 20 |
| S. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | 21 |
| S. E. | 0.2 | S. E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | E. S. E. | 0.2 | S. E. by E. | 0.2 | 22 |
| S. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | 23 |
| — | — | — | — | — | — | — | — | — | — | — | — | 24 |
| S. | 0.5 | S. S. W. | 0.2 | S. by E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 25 |
| S. E. | 1.0 | S. E. | 0.0 | S. E. | 0.5 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | 26 |
| N. E. | 0.2 | N. E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. by N. | 0.2 | N. by W. | 0.2 | 27 |
| E. | 2.0 | E. | 0.5 | E by S. | 2.0 | E. by S. | 1.5 | E. by S. | 0.5 | E. | 1.0 | 28 |
| S. E. | 0.2 | S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. by E. | 0.2 | S. by W. | 0.2 | 29 |
| N. W. | 0.2 | N. N. W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. N. W. | 0.5 | N. by W. | 0.5 | 30 |
| — | — | — | — | — | — | — | — | — | — | — | — | 31 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | N. W. | 0.5 | N. N. W. | 0.5 | 7 |
| E. N. E. | 0.2 | N. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| N. N. W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.5 | N. | 0.2 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| N. W. by W. | 0.5 | N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| N. E. | 0.2 | — | 0.0 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | — | 0.0 | 14 |
| N. N. E. | 0.2 | N. N. E. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| S. by W. | 0.2 | S. W. by S. | 0.2 | S. E. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 18 |
| — | 0.0 | N. by E. | 0.2 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| N. E. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | N. E. | 0.2 | — | 0.0 | — | 0.0 | 20 |
| N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.5 | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| — | 0.0 | — | 0.0 | N. by W. | 0.2 | N. by W. | 0.2 | — | 0.0 | N. by W. | 0.2 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | N. by E. | 0.2 | — | 0.0 | 26 |
| N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. N. E. | 0.5 | 27 |
| S. E. | 1.0 | E. S. E. | 0.5 | E. S. E. | 0.5 | S. by E. | 0.2 | — | 0.0 | — | 0.0 | 28 |
| S. W. | 2.0 | S. W. | 1.5 | W. S. W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 |
| — | 0.0 | N. N. E. | 0.2 | N. by W. | 0.2 | N. N. E. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | 31 |

AUGUST.

AUGUST.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|----------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| SEPTEMBER. | 1 | — | 0·0 | N. by E. | 0·2 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | — | 0·0 |
| | 2 | — | 0·0 | — | 0·0 | W. S. W. | 0·2 | W. by N. | 0·5 | W. | 0·2 | N. W. | 0·2 |
| | 3 | — | 0·0 | — | 0·0 | W. by S. | 0·2 | W. | 0·2 | W. | 0·5 | W. | 1·0 |
| | 4 | — | 0·0 | — | 0·0 | — | 0·0 | N. W. | 0·2 | S. by W. | 0·2 | S. W. | 0·2 |
| | 5 | N. W. | 1·0 | N. W. | 1·0 | N. W. | 1·0 | N. W. | 1·0 | N. W. | 1·5 | W. N. W. | 0·5 |
| | 6 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. | 0·2 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | — | 0·0 | N. | 0·2 | N. | 0·2 | E. S. E. | 0·5 | S. S. E. | 0·2 | E. S. E. | 0·2 |
| | 9 | — | 0·0 | N. by W. | 0·5 | E. N. E. | 0·2 | — | 0·0 | S. by W. | 0·2 | S. S. W. | 0·2 |
| | 10 | — | 0·0 | — | 0·0 | W. | 0·5 | W. by N. | 1·0 | W. by N. | 1·5 | W. N. W. | 1·2 |
| | 11 | W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 | N. W. | 0·2 |
| | 12 | — | 0·0 | N. N. E. | 0·2 | N. E. by N. | 0·2 | E. N. E. | 0·2 | E. | 0·2 | E. | 0·5 |
| | 13 | E. | 0·5 | E. | 0·5 | E. | 1·0 | E. | 1·0 | E. | 1·0 | N. E. | 1·0 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | S. W. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 0·2 | W. | 1·5 | W. | 1·5 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | N. | 0·2 | N. N. E. | 0·2 | S. S. E. | 0·2 |
| | 17 | — | 0·0 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. S. E. | 0·2 | S. E. | 0·2 |
| | 18 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | W. S. W. | 0·2 | — | 0·0 | W. S. W. | 0·2 | S. W. | 0·2 |
| | 19 | — | 0·0 | — | 0·0 | N. by W. | 0·2 | S. by W. | 0·2 | S. by W. | 0·5 | S. by W. | 0·5 |
| | 20 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | E. N. E. | 0·2 | N. E. | 0·2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | S. by W. | 0·2 | S. | 0·2 |
| | 23 | E. S. E. | 0·2 | E. S. E. | 0·2 | E. S. E. | 1·0 | S. E. by E. | 1·0 | E. S. E. | 1·0 | E. by S. | 1·5 |
| | 24 | N. W. | 0·2 | N. W. | 0·2 | N. W. by N. | 0·5 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. N. W. | 1·0 |
| | 25 | W. N. W. | 0·2 | W. by N. | 0·2 | W. | 0·2 | S. W. by W. | 0·2 | S. W. by W. | 0·2 | W. by S. | 0·2 |
| | 26 | — | 0·0 | S. S. W. | 0·2 | S. W. by S. | 0·5 | S. W. by S. | 0·2 | S. W. | 0·2 | S. S. W. | 0·2 |
| | 27 | — | 0·0 | — | 0·0 | — | 0·0 | E. | 0·2 | E. S. E. | 0·2 | E. N. E. | 0·2 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | — | 0·0 | — | 0·0 | S. S. W. | 0·2 | S. | 0·2 | S. | 0·5 | S. S. W. | 0·2 |
| | 30 | S. E. | 0·5 | S. S. E. | 0·5 | S. S. E. | 0·5 | S. S. E. | 1·0 | S. S. E. | 0·5 | S. | 1·0 |
| SEPTEMBER. | 1 | E. by S. | 0·2 | E. by N. | 0·2 | — | 0·0 | E. | 0·2 | E. | 0·2 | E. | 0·2 |
| | 2 | W. N. W. | 0·2 | W. N. W. | 0·2 | S. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 3 | W. by N. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | W. N. W. | 0·2 | W. | 0·2 |
| | 4 | N. W. | 2·0 | N. W. | 0·2 | N. W. | 0·2 | N. W. by W. | 0·5 | — | 0·0 | — | 0·0 |
| | 5 | N. N. W. | 0·5 | N. N. W. | 0·5 | N. W. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 6 | S. | 0·2 | S. W. | 0·2 | — | 0·0 | S. | 0·2 | S. by W. | 0·2 | S. by W. | 0·2 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | E. S. E. | 0·2 | E. S. E. | 0·2 | N. E. | 0·2 | — | 0·0 | N. N. E. | 0·2 | N. E. | 0·2 |
| | 9 | W. | 0·5 | W. by N. | 0·2 | W. N. W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 10 | W. N. W. | 1·0 | N. N. W. | 0·2 | — | 0·0 | — | 0·0 | W. by N. | 0·2 | W. by N. | 0·2 |
| | 11 | N. W. by N. | 0·2 | — | 0·0 | N. by W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 12 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 13 | S. by E. | 3·0 | S. by E. | 3·0 | S. by E. | 3·0 | S. by W. | 1·0 | — | 0·0 | S. W. | 0·5 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | W. N. W. | 0·5 | — | 0·0 | W. N. W. | 0·5 | — | 0·0 | — | 0·0 | W. N. W. | 0·2 |
| | 16 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 17 | S. W. by S. | 0·2 | S. W. | 0·2 | S. W. | 0·2 | S. W. by S. | 0·2 | S. W. by S. | 0·2 | S. W. | 0·2 |
| | 18 | N. W. by W. | 1·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 19 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 20 | N. N. W. | 0·5 | N. W. | 1·0 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·5 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0·0 | — | 0·0 | S. by E. | 0·2 | S. by E. | 0·2 | S. | 0·2 | — | 0·0 |
| | 23 | S. W. by W. | 0·5 | S. W. | 0·5 | S. W. by S. | 0·5 | S. S. W. | 0·2 | — | 0·0 | — | 0·0 |
| | 24 | N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. N. W. | 0·2 | W. by N. | 0·2 |
| | 25 | W. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 26 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 27 | E. | 0·2 | N. E. | 0·2 | — | 0·0 | — | 0·0 | — | 0·0 | — | 0·0 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | S. by E. | 0·2 | S. S. E. | 0·5 | S. E. by S. | 0·5 | S. E. by S. | 0·5 | S. S. E. | 0·5 | S. by E. | 1·5 |
| | 30 | S. W. by S. | 0·5 | S. by W. | 0·5 | S. by W. | 0·5 | S. by W. | 0·2 | S. S. W. | 0·2 | S. W. | 0·2 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. by S. | 0.2 | 1 |
| N. N. W. | 0.2 | N. by W. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | W. | 0.2 | 2 |
| W. | 1.5 | W. | 1.5 | W. by S. | 1.5 | W. N. W. | 1.0 | W. N. W. | 1.5 | W. by N. | 1.5 | 3 |
| W. N. W. | 0.2 | N. W. | 1.5 | N. W. | 2.5 | N. W. | 2.5 | N. W. | 2.5 | N. W. | 0.2 | 4 |
| W. N. W. | 0.5 | W. N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.5 | N. W. | 3.0 | N. N. W. | 3.5 | 5 |
| S. | 0.2 | S. by W. | 0.2 | S. by W. | 0.5 | — | 0.0 | — | 0.0 | S. | 0.2 | 6 |
| — | — | — | — | — | — | — | — | — | — | — | — | 7 |
| S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | E. S. E. | 0.2 | 8 |
| W. | 0.5 | W. N. W. | 2.0 | W. | 1.0 | W. | 1.5 | W. | 1.0 | N. W. by W. | 1.5 | 9 |
| N. W. | 3.0 | W. by N. | 1.0 | W. N. W. | 2.0 | N. W. | 2.5 | N. W. | 2.5 | W. N. W. | 1.5 | 10 |
| N. N. W. | 0.2 | — | 0.0 | S. | 0.2 | S. | 0.2 | S. | 0.2 | N. by W. | 0.5 | 11 |
| E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | 12 |
| N. E. | 0.5 | N. E. | 1.0 | E. N. E. | 1.0 | E. | 0.5 | E. by S. | 0.5 | S. E. | 2.5 | 13 |
| — | — | — | — | — | — | — | — | — | — | — | — | 14 |
| N. N. W. | 2.0 | W. N. W. | 2.0 | W. N. W. | 2.0 | W. N. W. | 1.5 | W. N. W. | 2.0 | N. W. | 1.5 | 15 |
| S. S. E. | 0.2 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.2 | — | 0.0 | 16 |
| E. S. E. | 0.2 | E. S. E. | 0.2 | E. by S. | 0.2 | E. | 0.2 | E. | 0.2 | E. by S. | 0.2 | 17 |
| S. W. | 0.2 | S. W. by W. | 0.2 | W. by N. | 1.0 | N. W. | 2.0 | N. W. | 2.5 | N. W. by W. | 1.5 | 18 |
| S. | 0.5 | S. | 0.2 | S. E. | 0.2 | S. E. by S. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | 19 |
| — | 0.0 | S. W. | 0.2 | — | 0.0 | W. S. W. | 0.2 | S. W. | 0.2 | S. W. by W. | 0.2 | 20 |
| — | — | — | — | — | — | — | — | — | — | — | — | 21 |
| S. | 0.2 | S. | 0.2 | S. by E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | 22 |
| E. by S. | 1.5 | E. | 0.5 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. S. E. | 0.2 | S. | 0.5 | 23 |
| N. W. | 1.0 | N. N. W. | 1.0 | N. W. by N. | 0.5 | N. W. | 0.5 | N. W. | 0.2 | N. W. | 0.2 | 24 |
| W. | 0.5 | W. | 1.0 | N. by W. | 1.0 | W. N. W. | 1.0 | S. W. by W. | 0.2 | W. | 0.2 | 25 |
| S. W. | 0.2 | S. S. W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | 26 |
| E. by S. | 0.2 | S. E. | 0.5 | E. by N. | 0.5 | E. | 0.5 | E. | 0.2 | E. | 0.2 | 27 |
| — | — | — | — | — | — | — | — | — | — | — | — | 28 |
| S. by W. | 0.2 | S. by W. | 0.2 | S. | 0.2 | S. by W. | 0.2 | S. by W. | 0.2 | S. by E. | 0.2 | 29 |
| S. by W. | 1.0 | S. by W. | 0.5 | S. by W. | 0.5 | S. | 0.5 | S. | 1.5 | S. | 1.5 | 30 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| E. | 0.2 | E. | 0.2 | — | — | — | — | — | — | — | — | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | S. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| — | 0.0 | N. W. | 0.5 | N. W. | 1.5 | N. W. | 1.5 | N. W. | 1.5 | N. W. | 1.0 | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| E. by N. | 0.2 | S. S. E. | 0.5 | S. S. E. | 0.2 | S. by W. | 0.2 | — | 0.0 | — | 0.0 | 8 |
| — | 0.0 | — | 0.0 | S. by W. | 0.2 | S. by W. | 0.2 | — | 0.0 | — | 0.0 | 9 |
| W. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | W. by N. | 0.2 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| E. | 0.5 | E. | 0.5 | E. | 0.5 | E. | 1.0 | E. | 0.5 | E. | 0.5 | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | 14 |
| W. N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| — | 0.0 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.5 | — | 0.0 | — | 0.0 | 17 |
| W. N. W. | 0.2 | W. N. W. | 0.2 | N. W. | 0.2 | — | 0.0 | N. W. | 0.2 | — | 0.0 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | W. N. W. | 0.2 | 22 |
| — | 0.0 | N. by W. | 0.2 | N. by W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | — | 0.0 | 23 |
| W. by N. | 0.2 | — | 0.0 | W. N. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| S. W. by S. | 0.5 | S. | 1.5 | S. | 1.5 | S. | 1.0 | S. | 1.0 | S. S. E. | 1.0 | 29 |
| S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.5 | S. W. | 0.5 | 30 |

SEPTEMBER.

SEPTEMBER.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| OCTOBER. | 1 | S. W. | 0.5 | S. W. | 0.5 | S. W. by S. | 0.2 | S. S. W. | 0.5 | W. S. W. | 1.5 | W. S. W. | 1.5 |
| | 2 | — | 0.0 | S. W. | 0.5 | S. W. by W. | 0.2 | — | 0.0 | S. S. W. | 0.5 | S. S. W. | 0.5 |
| | 3 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 |
| | 4 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. E. | 0.2 | N. E. by N. | 0.2 | N. by E. | 0.2 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | — | 0.0 | N. by E. | 0.2 | N. by E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | S. E. | 0.2 |
| | 7 | — | 0.0 | — | 0.0 | — | 0.0 | S. E. by S. | 0.2 | S. E. by S. | 0.2 | — | 0.0 |
| | 8 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 9 | S. W. by W. | 1.0 | — | 0.0 | — | 0.0 | W. S. W. | 1.5 | W. by N. | 1.0 | N. W. | 1.5 |
| | 10 | N. E. by E. | 0.2 | E. N. E. | 0.2 | E. S. E. | 0.5 | E. | 1.0 | E. | 1.5 | E. | 1.0 |
| | 11 | — | 0.0 | N. N. W. | 0.5 | N. N. W. | 0.2 | N. W. | 0.2 | — | 0.0 | N. by W. | 0.2 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | — | 0.0 | — | 0.0 | W. by S. | 0.2 | W. by S. | 0.2 | W. by S. | 0.2 | S. S. W. | 0.5 |
| | 14 | W. | 2.5 | W. N. W. | 0.5 | — | 0.0 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. | 0.2 |
| | 15 | — | 0.0 | — | 0.0 | — | 0.0 | W. by N. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 |
| | 16 | W. by N. | 0.2 | W. by N. | 0.2 | W. by N. | 0.2 | W. S. W. | 0.5 | W. by S. | 0.2 | S. W. by W. | 0.5 |
| | 17 | — | 0.0 | — | 0.0 | W. N. W. | 0.2 | W. by S. | 0.2 | S. | 0.2 | S. W. | 0.2 |
| | 18 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. by S. | 0.2 | — | 0.0 | S. | 0.2 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 21 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 0.5 |
| | 22 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | S. S. W. | 0.2 | S. by E. | 0.2 |
| | 23 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 24 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. by S. | 0.2 | W. by N. | 0.2 |
| | 25 | N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | 0.0 | — | 0.0 | — | 0.0 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. S. W. | 0.2 |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 |
| | 29 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 |
| | 30 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. by N. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 |
| | 31 | E. N. E. | 0.5 | E. N. E. | 0.2 | E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | S. E. | 0.2 |
| OCTOBER. | 1 | W. by N. | 0.5 | W. | 0.5 | W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 2 | S. S. W. | 1.0 | S. W. by S. | 0.5 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 3 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 4 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 6 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 7 | S. E. | 0.2 | — | 0.0 | S. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 8 | E. | 0.5 | E. | 1.0 | E. | 0.5 | E. | 1.0 | E. | 0.2 | E. | 0.2 |
| | 9 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 10 | E. | 1.5 | E. N. E. | 1.0 | E. N. E. | 1.0 | E. | 0.5 | E. | 0.2 | — | 0.0 |
| | 11 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. E. | 0.5 | N. N. E. | 0.5 | N. | 0.5 |
| | 12 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 13 | S. | 1.5 | S. | 1.0 | S. | 1.0 | S. | 1.5 | S. S. W. | 2.0 | S. S. W. | 2.5 |
| | 14 | W. | 0.2 | W. | 0.2 | W. | 0.2 | W. by S. | 0.2 | W. | 0.2 | W. | 0.2 |
| | 15 | N. W. | 0.2 | W. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 16 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 17 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 18 | S. S. W. | 0.5 | S. S. W. | 0.5 | S. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 19 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 20 | N. W. by N. | 2.5 | N. W. by W. | 1.5 | N. W. | 1.0 | W. N. W. | 0.5 | N. W. | 0.2 | — | 0.0 |
| | 21 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 22 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 23 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | — | 0.0 | — | 0.0 |
| | 24 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. | 0.2 | N. W. by N. | 0.2 |
| | 25 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 26 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 27 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 28 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 29 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.2 | — | 0.0 | — | 0.0 | W. | 0.5 |
| | 30 | E. | 0.2 | E. | 0.2 | E. by N. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 |
| | 31 | S. W. | 0.2 | S. W. | 0.2 | S. W. by S. | 0.5 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 |

DIRECTION AND FORCE OF THE WIND.

| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
|------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| W. S. W. | 1.5 | W. S. W. | 2.5 | S. W. by W. | 2.0 | W. | 2.0 | W. S. W. | 1.5 | W. S. W. | 1.0 | 1 |
| S. | 0.5 | S. by E. | 0.5 | S. S. E. | 0.5 | S. | 0.5 | S. S. W. | 1.0 | S. S. W. | 1.0 | 2 |
| N. by W. | 0.2 | N. N. E. | 0.2 | — | 0.0 | S. E. | 0.2 | — | 0.0 | — | 0.0 | 3 |
| N. E. | 0.2 | N. E. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 | — | 0.0 | 4 |
| — | — | — | — | — | — | — | — | — | — | — | — | 5 |
| E. S. E. | 0.2 | S. E. | 0.2 | S. E. | 0.2 | S. S. E. | 0.2 | — | 0.0 | — | 0.0 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| E. | 0.2 | E. by N. | 0.5 | E. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 | E. by N. | 0.5 | 8 |
| W. N. W. | 1.5 | N. W. | 1.5 | N. W. by W. | 1.5 | W. N. W. | 0.5 | N. W. by W. | 0.2 | — | 0.0 | 9 |
| N. E. by E. | 1.5 | E. | 1.5 | E. | 1.5 | E. | 1.0 | E. N. E. | 1.0 | E. N. E. | 2.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | E. | 0.2 | — | 0.0 | — | 0.0 | 11 |
| — | — | — | — | — | — | — | — | — | — | — | — | 12 |
| S. S. W. | 1.0 | S. S. W. | 0.5 | S. S. E. | 0.5 | S. S. W. | 1.5 | S. by W. | 2.5 | S. S. W. | 2.5 | 13 |
| W. S. W. | 1.5 | W. | 2.0 | W. | 2.5 | W. | 1.5 | W. by S. | 1.0 | W. by N. | 1.0 | 14 |
| N. W. | 0.2 | N. N. W. | 1.5 | W. N. W. | 1.0 | N. W. | 3.0 | N. N. W. | 1.0 | W. N. W. | 0.2 | 15 |
| S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | S. by W. | 0.2 | — | 0.0 | — | 0.0 | 16 |
| S. by W. | 0.2 | S. | 0.2 | S. by W. | 0.5 | S. by W. | 0.5 | S. by W. | 0.5 | — | 0.0 | 17 |
| S. by W. | 0.2 | S. by E. | 0.2 | S. S. W. | 0.2 | S. | 0.2 | S. | 0.5 | S. S. W. | 0.5 | 18 |
| — | — | — | — | — | — | — | — | — | — | — | — | 19 |
| E. | 0.2 | E. by S. | 0.2 | N. N. E. | 0.2 | N. N. W. | 1.5 | N. N. W. | 1.0 | N. N. W. | 1.5 | 20 |
| W. N. W. | 0.5 | N. N. W. | 0.5 | N. N. W. | 1.0 | N. by W. | 0.5 | N. by W. | 0.2 | N. by W. | 0.2 | 21 |
| S. by W. | 0.2 | S. | 0.2 | S. | 0.2 | S. | 0.2 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| S. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 24 |
| E. by S. | 0.2 | E. S. E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | — | 0.0 | 25 |
| — | — | — | — | — | — | — | — | — | — | — | — | 26 |
| — | 0.0 | — | 0.0 | S. S. W. | 0.2 | S. W. | 0.5 | S. W. | 0.5 | — | 0.0 | 27 |
| S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| S. S. W. | 0.2 | S. W. by S. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.5 | 29 |
| N. N. W. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | E. | 0.2 | E. by N. | 0.2 | E. | 0.5 | 30 |
| S. E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | S. S. E. | 0.2 | E. S. E. | 0.2 | S. W. | 0.2 | 31 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 2 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| — | — | — | — | — | — | — | — | — | — | — | — | 4 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 7 |
| E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | S. S. W. | 0.5 | S. W. by S. | 0.5 | 8 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. by E. | 0.2 | 9 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | — | — | — | — | — | — | — | — | — | — | — | 11 |
| W. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.5 | — | 0.0 | 12 |
| S. S. W. | 3.0 | S. S. W. | 2.5 | S. S. W. | 2.5 | S. S. W. | 0.2 | S. S. W. | 2.0 | S. S. W. | 1.0 | 13 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 14 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | W. N. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 | 16 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| — | — | — | — | — | — | — | — | — | — | — | — | 18 |
| W. N. W. | 0.2 | N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | — | 0.0 | — | 0.0 | 19 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 20 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 23 |
| N. W. by N. | 0.2 | N. N. E. | 0.2 | N. E. | 0.2 | — | 0.0 | — | 0.0 | N. E. | 0.2 | 24 |
| — | — | — | — | — | — | — | — | — | — | — | — | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 26 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 28 |
| W. | 0.5 | W. | 0.5 | W. | 0.2 | W. by S. | 0.5 | W. by S. | 0.2 | — | 0.0 | 29 |
| E. N. E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | E. N. E. | 0.2 | E. | 0.2 | E. N. E. | 0.5 | 30 |
| — | 0.0 | W. by N. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 31 |

OCTOBER.

OCTOBER.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | |
|----------------------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | Mean Göttingen Time. |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| S. S. W. | 1.5 | S. W. | 1.0 | W. S. W. | 3.0 | S.W. by W. | 2.5 | W. | 2.0 | W. | 0.2 | 1 |
| — | — | — | — | — | — | — | — | — | — | — | — | 2 |
| E. by S. | 1.0 | E. by S. | 0.5 | S. | 0.2 | S. by W. | 1.5 | S. W. | 1.0 | S. W. | 0.2 | 3 |
| S. | 0.2 | S. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 4 |
| W. | 0.2 | W. S. W. | 0.2 | W. | 0.2 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | 5 |
| S.W. by W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | N. W. | 0.5 | W.N. W. | 0.5 | N.W. by N. | 0.5 | 6 |
| W. | 0.2 | S.W. by W. | 0.2 | S.W. by W. | 0.2 | S. W. by S. | 0.2 | S. W. | 0.2 | — | 0.0 | 7 |
| N. by W. | 0.2 | N. | 1.0 | N. | 2.0 | N. by E. | 1.5 | N. | 1.0 | N. N. W. | 0.5 | 8 |
| — | — | — | — | — | — | — | — | — | — | — | — | 9 |
| N. W. | 1.0 | S. | 0.5 | S. S. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| N. N. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | S. W. | 0.2 | S. | 0.2 | S. | 0.2 | S. W. | 0.2 | S. W. by W. | 0.2 | 12 |
| S. S. W. | 1.5 | S. S. W. | 1.5 | S. by W. | 0.5 | S. W. by S. | 0.2 | S. W. by S. | 0.5 | S. S. W. | 1.0 | 13 |
| W. by N. | 3.0 | N. W. | 4.0 | N. W. | 5.0 | N. W. | 2.5 | W. N. W. | 2.0 | N. W. | 1.0 | 14 |
| S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | S. by E. | 0.2 | — | 0.0 | — | 0.0 | 15 |
| — | — | — | — | — | — | — | — | — | — | — | — | 16 |
| E. by N. | 0.2 | E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| S. E. | 0.2 | S. E. | 0.2 | E. | 0.2 | E. by N. | 0.2 | E. by N. | 0.2 | E. N. E. | 0.2 | 18 |
| S. W. | 2.5 | S. W. | 2.5 | W. S. W. | 2.5 | S. W. | 1.5 | S. W. | 2.5 | S. W. | 0.5 | 19 |
| S. S. W. | 1.5 | S. S. W. | 1.0 | S. S. W. | 1.0 | S. S. W. | 1.5 | S. S. W. | 1.5 | W. | 1.5 | 20 |
| W. | 2.5 | W. by S. | 2.5 | W. S. W. | 2.0 | W. by S. | 2.0 | W. | 1.0 | W. by S. | 1.0 | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. E. | 0.2 | 22 |
| — | — | — | — | — | — | — | — | — | — | — | — | 23 |
| S. W. | 0.2 | W. S. W. | 0.5 | W. by S. | 1.0 | S. W. | 1.0 | W. by S. | 0.5 | W. | 0.2 | 24 |
| S. W. | 0.5 | S. W. | 0.2 | S. W. | 0.2 | S.W. by W. | 0.2 | W. S. W. | 0.2 | — | 0.0 | 25 |
| N. N. E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | N. N. E. | 0.2 | 26 |
| N. W. | 3.5 | N. W. | 3.0 | N. W. | 3.5 | N. W. | 3.5 | N. W. | 2.5 | W. by N. | 2.0 | 27 |
| W. by S. | 0.2 | W. by S. | 0.5 | W. by S. | 0.2 | — | 0.0 | W. by S. | 0.2 | W. by S. | 0.2 | 28 |
| — | 0.0 | N. N. E. | 0.2 | N. N. E. | 0.2 | N. N. E. | 0.2 | — | 0.0 | S. | 0.5 | 29 |
| — | — | — | — | — | — | — | — | — | — | — | — | 30 |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | Mean Göttingen Time. |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| N. | 1.0 | N. | 1.0 | N. by W. | 2.5 | N. by W. | 3.5 | N. by W. | 2.5 | N. by W. | 2.0 | 2 |
| S. S. W. | 0.2 | S. W. | 0.5 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 3 |
| N.W. by W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | N. N. W. | 0.5 | N. by W. | 0.5 | N. by W. | 0.2 | 4 |
| S. W. by S. | 1.5 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 1.0 | 5 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.5 | — | 0.0 | — | 0.0 | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | 7 |
| — | — | — | — | — | — | — | — | — | — | — | — | 8 |
| N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | W. by N. | 0.2 | W. N. W. | 0.2 | — | 0.0 | 9 |
| S. | 0.2 | N. N. E. | 0.2 | N.W. by N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 11 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 12 |
| W. | 1.0 | W. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 13 |
| — | 0.0 | N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | — | 0.0 | — | 0.0 | 14 |
| — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 16 |
| S. S. W. | 0.5 | S. S. W. | 0.2 | S. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | 17 |
| S. by W. | 3.0 | S. W. | 3.5 | S. W. | 3.5 | S. W. by S. | 5.0 | S. W. by S. | 4.0 | S. W. by S. | 3.5 | 18 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 19 |
| W. by S. | 0.5 | W. | 0.5 | W. | 2.5 | W. N. W. | 1.0 | W. | 1.0 | W. by N. | 1.0 | 20 |
| W. | 0.2 | W. | 0.2 | W. | 0.2 | W. | 0.2 | — | 0.0 | — | 0.0 | 21 |
| — | — | — | — | — | — | — | — | — | — | — | — | 22 |
| W. | 2.0 | W. | 1.5 | W. | 1.0 | W. | 1.0 | W. by N. | 1.0 | — | 0.0 | 23 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. | 0.5 | 24 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | 25 |
| N. | 1.5 | N. | 1.5 | N. | 1.5 | N. by W. | 1.0 | N. N. W. | 1.5 | N. W. by N. | 2.0 | 26 |
| W. by N. | 1.0 | W. | 0.2 | W. | 0.2 | W. by N. | 0.2 | W. | 0.2 | — | 0.0 | 27 |
| — | 0.0 | W. N. W. | 0.2 | W. N. W. | 0.2 | N.W. by W. | 0.2 | N.W. by W. | 0.2 | W. N. W. | 0.2 | 28 |
| — | — | — | — | — | — | — | — | — | — | — | — | 29 |
| N. | 0.2 | — | 0.0 | N. by E. | 0.2 | N. N. E. | 0.2 | N E. | 0.5 | N. N. E. | 0.2 | 30 |

NOVEMBER.

NOVEMBER.

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|------------------|-------------|------------------|-------------|-----|
| Mean Göttingen Time. | 0 ^h . | | 1 ^h . | | 2 ^h . | | 3 ^h . | | 4 ^h . | | 5 ^h . | | |
| | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| DECEMBER. | | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | | lbs. | |
| | 1 | N. N. E. | 0.2 | N. N. E. | 0.5 | N. N. E. | 0.5 | N. by E. | 0.5 | N. by E. | 0.5 | N. | 0.5 |
| | 2 | N. W. | 1.0 | N. W. | 0.5 | N. W. | 0.2 | — | 0.0 | N. | 0.2 | N. N. W. | 0.2 |
| | 3 | N. by E. | 0.2 | N. by E. | 0.2 | N. | 0.2 | N. by E. | 0.2 | N. N. E. | 0.2 | N. E. | 0.2 |
| | 4 | S. E. | 1.0 | S. S. E. | 1.5 | S. by E. | 2.0 | S. by E. | 2.0 | S. | 2.5 | S. by W. | 2.5 |
| | 5 | W. by S. | 0.2 | W. | 0.5 | W. by N. | 2.5 | W. | 3.0 | W. | 3.0 | W. | 3.5 |
| | 6 | — | 0.0 | W. by S. | 0.2 | — | 0.0 | — | 0.0 | W. by S. | 0.2 | W. by S. | 0.2 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | N. | 0.2 | N. | 0.2 | N. N. E. | 0.2 | N. E. by N. | 0.2 | N. N. E. | 0.2 | — | 0.0 |
| | 9 | W. S. W. | 0.2 | S. W. by W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 | S. W. | 0.2 |
| | 10 | W. | 1.0 | W. | 0.5 | W. | 0.5 | W. S. W. | 0.5 | W. by S. | 1.0 | W. S. W. | 3.0 |
| | 11 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | — | 0.0 | N. | 0.2 |
| | 12 | — | 0.0 | — | 0.0 | — | 0.0 | N. N. E. | 0.2 | N. E. by N. | 0.2 | N. N. E. | 0.2 |
| | 13 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. S. E. | 0.2 | E. S. E. | 0.2 | E. | 0.2 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | N. by W. | 0.2 | N. | 0.2 | N. by W. | 0.2 | N. | 0.2 | N. | 0.2 | N. N. W. | 0.2 |
| | 16 | N. W. by N. | 0.2 | N. N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | N. W. by W. | 0.5 | N. W. by W. | 0.5 |
| | 17 | — | 0.0 | S. W. | 0.2 | — | 0.0 | S. W. by S. | 0.5 | S. S. W. | 0.5 | S. S. W. | 1.0 |
| | 18 | S. W. by W. | 1.5 | S. S. W. | 1.0 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 1.0 | S. S. W. | 1.0 |
| | 19 | W. by S. | 1.5 | W. S. W. | 0.5 | W. S. W. | 0.5 | S. W. | 2.0 | S. W. | 4.0 | S. S. W. | 4.0 |
| | 20 | S. W. | 0.2 | S. W. by W. | 0.2 | S. W. by W. | 0.2 | S. W. | 0.2 | W. S. W. | 0.2 | W. by S. | 0.2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 23 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 24 | — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | N. | 0.2 | N. | 0.2 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | N. W. by N. | 1.0 | N. N. W. | 0.2 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | N. N. W. | 0.2 |
| | 27 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 0.5 | S. W. | 2.0 | S. W. by S. | 2.5 | S. W. by W. | 2.5 |
| | 28 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 29 | W. | 0.2 | W. | 0.2 | W. S. W. | 1.0 | S. W. | 1.0 | S. W. | 1.0 | S. W. | 1.0 |
| | 30 | W. | 0.5 | W. | 0.5 | W. | 0.5 | W. N. W. | 0.2 | N. N. W. | 0.5 | N. W. | 0.5 |
| 31 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. E. | 0.2 | E. by N. | 0.2 | |
| DECEMBER. | | | | | | | | | | | | | |
| | | 12 ^h . | 13 ^h . | 14 ^h . | 15 ^h . | 16 ^h . | 17 ^h . | | | | | | |
| | 1 | N. N. W. | 1.5 | N. W. | 1.0 | N. W. | 1.5 | N. N. W. | 2.0 | N. W. | 0.2 | W. by N. | 0.2 |
| | 2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 3 | S. E. by E. | 1.5 | S. E. by E. | 2.0 | S. E. by E. | 1.5 | E. S. E. | 1.0 | E. S. E. | 1.0 | E. S. E. | 1.0 |
| | 4 | — | 0.0 | — | 0.0 | W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 | N. N. W. | 0.2 |
| | 5 | W. | 1.5 | W. S. W. | 0.5 | W. S. W. | 0.2 | W. | 0.2 | W. | 0.2 | W. S. W. | 0.5 |
| | 6 | W. S. W. | 0.5 | W. S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 7 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 8 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 9 | S. W. by W. | 1.5 | S. W. by W. | 2.0 | S. W. by W. | 2.5 | S. W. by W. | 2.5 | W. | 2.5 | W. | 2.5 |
| | 10 | S. W. | 2.5 | W. S. W. | 2.5 | S. W. by W. | 2.0 | W. S. W. | 0.5 | W. | 1.0 | W. by N. | 1.5 |
| | 11 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. by W. | 0.2 | — | 0.0 |
| | 12 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. by S. | 0.2 | E. by S. | 0.2 | — | 0.0 |
| | 13 | E. by N. | 0.5 | E. by N. | 0.5 | E. | 0.5 | S. E. by S. | 0.5 | S. E. by S. | 0.5 | S. E. by S. | 0.5 |
| | 14 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 15 | N. by W. | 0.5 | N. by W. | 1.0 | N. by W. | 2.5 | N. N. W. | 2.0 | N. N. W. | 1.5 | N. N. W. | 2.0 |
| | 16 | W. by N. | 0.2 | W. by N. | 0.2 | W. | 0.2 | W. | 0.2 | W. by S. | 0.2 | — | 0.0 |
| | 17 | S. S. W. | 1.5 | S. S. W. | 1.5 | S. S. W. | 2.5 | S. S. W. | 3.0 | S. S. W. | 2.5 | S. S. W. | 2.5 |
| | 18 | S. | 0.2 | S. | 0.2 | S. S. W. | 0.5 | S. S. E. | 0.5 | S. W. | 3.5 | S. W. by W. | 3.5 |
| | 19 | S. W. | 2.0 | W. S. W. | 2.0 | W. S. W. | 2.5 | W. S. W. | 2.5 | W. S. W. | 2.0 | W. S. W. | 1.5 |
| | 20 | — | 0.0 | — | 0.0 | — | 0.0 | N. W. | 0.2 | N. W. | 0.2 | N. W. | 0.2 |
| | 21 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 22 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 23 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 24 | — | 0.0 | N. N. E. | 0.2 | N. E. | 0.5 | N. N. E. | 0.5 | N. E. by N. | 0.5 | N. E. by N. | 0.5 |
| | 25 | — | — | — | — | — | — | — | — | — | — | — | — |
| | 26 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 |
| | 27 | S. W. | 0.5 | S. W. | 1.0 | S. W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 | S. W. by W. | 0.5 |
| | 28 | — | — | — | — | — | — | — | 0.0 | — | — | — | — |
| | 29 | — | 0.0 | — | 0.0 | — | 0.0 | W. by S. | 0.2 | — | 0.0 | W. | 0.2 |
| 30 | N. by W. | 0.2 | N. by W. | 0.2 | N. by W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | |
| 31 | E. | 0.5 | E. by S. | 1.0 | E. S. E. | 1.5 | E. by S. | 2.0 | E. by S. | 2.5 | E. by S. | 2.5 | |

| DIRECTION AND FORCE OF THE WIND. | | | | | | | | | | | | Mean Göttingen Time. |
|----------------------------------|--------|------------------|--------|------------------|--------|------------------|--------|-------------------|--------|-------------------|--------|-------------------------|
| 6 ^h . | | 7 ^h . | | 8 ^h . | | 9 ^h . | | 10 ^h . | | 11 ^h . | | |
| Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | Wind. | | |
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | |
| N. N. W. | 1.0 | N. N. W. | 1.0 | N. N. W. | 2.0 | N. by W. | 2.5 | N. N. W. | 0.5 | N. N. W. | 1.5 | DECEMBER. |
| N. by W. | 0.2 | N. | 0.2 | N. by E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | |
| N. N. E. | 0.2 | N. N. E. | 0.2 | N. E. | 0.2 | N. E. by N. | 0.5 | E. by S. | 0.5 | S. E. by E. | 1.5 | |
| W. | 0.5 | W. S. W. | 0.5 | S. W. by W. | 0.2 | W. S. W. | 0.5 | W. S. W. | 0.2 | W. S. W. | 0.2 | |
| W. S. W. | 3.0 | W. | 3.5 | W. | 3.5 | W. by S. | 3.0 | W. by S. | 2.5 | W. | 1.5 | |
| — | — | S. W. by W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 1.0 | W. S. W. | 1.5 | W. by S. | 1.0 | |
| — | — | — | — | — | — | — | — | — | — | — | — | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | |
| S. W. | 2.0 | S. W. | 2.5 | S. W. by W. | 1.5 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | S. W. by W. | 1.0 | |
| W. by S. | 3.5 | W. by S. | 3.0 | W. by S. | 2.5 | W. by S. | 2.5 | W. by S. | 2.5 | W. S. W. | 2.5 | |
| N. | 0.2 | N. | 0.2 | N. | 0.2 | N. | 0.2 | N. by E. | 0.2 | N. by E. | 0.2 | |
| N. by E. | 0.2 | N. by E. | 0.2 | S. E. | 0.2 | E. by S. | 0.2 | E. S. E. | 0.2 | E. | 0.2 | |
| E. | 0.2 | E. | 0.2 | E. | 0.2 | E. | 0.2 | E. by N. | 0.2 | — | 0.0 | |
| — | — | — | — | — | — | — | — | — | — | — | — | |
| N. by W. | 1.5 | N. N. W. | 2.5 | N. by W. | 2.5 | N. by W. | 2.5 | N. by W. | 1.5 | N. by W. | 0.5 | |
| N. W. by W. | 0.2 | N. W. by W. | 0.2 | N. W. by W. | 0.5 | W. N. W. | 0.5 | W. N. W. | 0.2 | W. N. W. | 0.2 | |
| S. S. W. | 1.0 | S. by W. | 1.0 | S. S. W. | 0.5 | S. | 0.5 | S. by E. | 0.5 | S. S. W. | 4.0 | |
| W. by S. | 1.0 | W. by S. | 1.0 | S. S. W. | 1.5 | S. S. W. | 1.0 | S. | 0.5 | S. S. W. | 0.5 | |
| S. W. | 3.5 | S. W. | 3.5 | S. W. | 3.5 | S. W. | 3.5 | S. W. | 3.0 | W. S. W. | 3.0 | |
| — | 0.0 | — | 0.0 | — | 0.0 | W. | 0.2 | — | 0.0 | — | 0.0 | |
| — | — | — | — | — | — | — | — | — | — | — | — | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | |
| N. | 0.2 | — | 0.0 | N. N. E. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | |
| — | — | — | — | — | — | — | — | — | — | — | — | |
| N. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 | W. N. W. | 0.2 | N. W. by W. | 0.2 | — | 0.0 | |
| S. W. | 2.5 | S. S. W. | 1.5 | S. S. W. | 2.5 | S. W. | 3.5 | S. W. | 2.5 | S. W. | 0.5 | |
| — | — | — | — | — | — | — | — | — | — | — | — | |
| S. W. by W. | 0.5 | W. S. W. | 0.5 | W. S. W. | 0.2 | W. S. W. | 0.2 | W. by S. | 0.2 | W. | 0.2 | |
| N. W. | 1.5 | W. N. W. | 1.0 | N. W. | 0.2 | N. N. W. | 0.5 | — | 0.0 | N. by W. | 0.2 | |
| E. | 0.2 | N. E. by E. | 0.2 | N. E. | 0.2 | E. | 0.5 | E. | 0.5 | E. | 0.5 | |

| 18 ^h . | | 19 ^h . | | 20 ^h . | | 21 ^h . | | 22 ^h . | | 23 ^h . | | DECEMBER. | |
|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-----------|----|
| Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | Direction. | Force. | | |
| N. W. | 0.5 | N. W. by W. | 1.0 | N. W. | 2.5 | N. W. | 2.5 | N. W. | 2.5 | N. W. | 2.5 | | 1 |
| — | 0.0 | — | 0.0 | — | 0.0 | N. N. W. | 0.2 | N. | 0.2 | N. by E. | 0.2 | | 2 |
| E. S. E. | 0.5 | E. S. E. | 0.5 | E. S. E. | 0.5 | S. E. | 1.0 | S. E. | 1.5 | S. E. | 1.0 | | 3 |
| N. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | W. by N. | 0.2 | W. | 0.5 | | 4 |
| W. by N. | 0.5 | W. by N. | 0.5 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 5 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 6 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | N. | 0.2 | | 7 |
| — | 0.0 | — | 0.0 | — | 0.0 | W. by S. | 0.2 | W. S. W. | 0.2 | W. S. W. | 0.2 | | 8 |
| W. N. W. | 2.5 | N. W. by W. | 2.5 | W. N. W. | 2.5 | W. N. W. | 1.5 | W. by N. | 1.5 | W. by N. | 1.0 | | 9 |
| N. by W. | 0.5 | N. N. W. | 0.5 | — | 0.0 | N. by W. | 0.2 | — | 0.0 | — | 0.0 | | 10 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 11 |
| E. by S. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | E. | 0.2 | | 12 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 13 |
| N. W. by N. | 0.2 | N. W. by N. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | | 14 |
| N. N. W. | 1.5 | N. N. W. | 1.5 | N. N. W. | 2.0 | N. N. W. | 2.0 | N. N. W. | 2.0 | N. N. W. | 0.2 | | 15 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 16 |
| S. S. W. | 3.0 | S. S. W. | 2.5 | S. W. by S. | 2.5 | S. S. W. | 3.0 | W. S. W. | 2.5 | S. W. by W. | 1.5 | | 17 |
| S. S. W. | 3.5 | S. S. W. | 8.0 | S. W. | 9.5 | S. W. | 6.0 | S. W. by W. | 3.5 | W. by S. | 2.0 | | 18 |
| W. S. W. | 1.5 | S. W. | 0.5 | S. W. | 0.2 | — | 0.0 | — | 0.0 | — | 0.0 | | 19 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 20 |
| W. | 0.2 | — | 0.0 | N. W. by W. | 0.2 | N. W. | 0.2 | W. by N. | 0.2 | — | 0.0 | | 21 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 22 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | | 23 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 24 |
| N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. N. W. | 0.2 | N. W. | 0.2 | N. by W. | 1.0 | | 25 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | S. W. | 0.2 | — | 0.0 | | 26 |
| — | — | — | — | — | — | — | — | — | — | — | — | | 27 |
| — | 0.0 | — | 0.0 | — | 0.0 | W. | 0.2 | W. | 0.2 | W. | 0.2 | | 28 |
| W. | 0.2 | W. by N. | 1.0 | W. by N. | 0.5 | W. by N. | 0.5 | W. by N. | 0.5 | W. | 0.5 | | 29 |
| — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | — | 0.0 | 30 | |
| E. by S. | 2.0 | E. | 1.5 | E. | 1.5 | E. | 1.5 | E. | 1.5 | E. | 1.0 | 31 | |

TORONTO, 1845.

METEOROLOGICAL JOURNAL.

| OBSERVATIONS OF THE AURORA. | | | | | | | |
|-----------------------------|--|--------------------------|--------------------------|----------------|------------------------------------|-----------------------------|--------------------------|
| | | Phenomena. | Moon's Age at Mean Noon. | | | Phenomena. | Moon's Age at Mean Noon. |
| 1845 | | | | 1845 | | | |
| January 9th, | 9 ^h to 14 ^h | Faint light | 1.4 | August 1st, | 9 ^h to 11 ^h | Faint light | 28.0 |
| ,, | 16 ^h to 18 ^h | Arch and streams | 1.4 | ,, 2nd, | 10 ^h to 12 ^h | Faint bank of auroral light | 29.0 |
| March 12th, | 15 ^h | Faint light | 4.4 | September 3rd, | 12 ^h to 13 ^h | Faint light | 1.8 |
| ,, | 13th, 14 ^h to 15 ^h | Faint light | 5.4 | ,, 7th, | 12 ^h to 14 ^h | Faint light | 5.8 |
| April 13th, | 12 ^h to 14 ^h | Arches and faint streams | 6.9 | ,, 24th, | 9 ^h to 16 ^h | Arch and pulsation | 22.8 |
| June 30th, | 10 ^h | Faint light | 25.7 | ,, 25th, | 9 ^h to 10 ^h | Faint light | 23.8 |
| July 5th, | 11 ^h | Faint light | 1.0 | ,, 26th, | 14 ^h | Faint light | 24.8 |
| ,, | 8th, 11 ^h to 12 ^h | Faint light | 4.0 | October 20th, | 13 ^h to 14 ^h | Faint light | 19.2 |
| ,, | 24th, 11 ^h to 15 ^h | Faint light | 20.0 | November 27th, | 12 ^h to 15 ^h | Light and streams | 27.7 |

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------|----------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | |
| D. | JANUARY. | | | | | | | In. |
| 1 | Clouded all day; cir.-cum., cum.-strat., and haze | 1.0 | 1.0 | 1.0 | 1.0 | 39.4 | 28.4 | — ^a |
| 2 | Clouded from 12 ^h till 17 ^h ; cir.-cum. and haze; remainder of the day partially clouded; slight and moderate rain from 18 ^h | 0.4 | 0.2 | 1.0 | 1.0 | 40.6 | 27.7 | — |
| 3 | Slight rain continued moderately till 2 ^h 25 ^m ; clouded all day; cum.-strat. and cir.-cum. | 1.0 | 1.0 | 1.0 | 0.5 | 34.7 | 28.3 | — |
| 4 | Clouded from 1 ^h till 4 ^h , and from 7 ^h till 11 ^h with cir.-strat., cir., and haze; remainder of the day nearly clear | 0.9 | 1.0 | — | — | 45.7 | 33.3 | — |
| 5 | Partially clouded with cum.-strat. and cir.-cum. generally dispersed | — | — | 0.2 | 1.0 | 39.9 | 29.7 | — |
| 6 | Clouded all the day with cir.-cum., cum.-strat., and haze; snowing from 11 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 39.1 | 17.7 | — |
| 7 | Snow continued till 1 ^h ; generally clouded with cir.-cum., cir.-strat., and cum.-strat. | 0.7 | 1.0 | 1.0 | 1.0 | 23.2 | 16.3 | — |
| 8 | Generally clouded with cir.-cum. and cum.; clear spaces | 0.4 | 1.0 | 1.0 | 0.5 | 28.7 | 19.4 | — |
| 9 | Clouded till 8 ^h with cir.-cum. and haze; remainder of the day clear; auroral light in N. from 7 ^h till 14 ^h | 0.5 | 0.0 | 0.0 | 1.0 | 33.9 | 22.4 | — |
| 10 | Clouded all day with cir.-cum. and haze | 1.0 | 1.0 | 1.0 | 1.0 | 39.1 | 23.5 | — |
| 11 | Clouded till 8 ^h with cum.-strat., cir.-cum. and haze; remainder of the day mostly clear | 1.0 | 0.2 | — | — | 35.3 | 19.7 | — |
| 12 | Generally clear till 11 ^h ; remainder of the day clouded, and constant snow | — | — | 1.0 | 1.0 | 31.7 | 18.9 | — |
| 13 | Generally clouded with cir.-cum., strat., and haze; ceased snowing at 0 ^h | 0.3 | 0.9 | 1.0 | 0.9 | 29.9 | 16.6 | — |
| 14 | Generally clouded with cir.-cum. and cum.-strat.; snowing from 8 ^h till 13 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 23.7 | 10.9 | — |
| 15 | Clouded all the day with cir.-cum. and haze; snowing from 19 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 26.7 | 14.1 | — |
| 16 | Clouded all the day; dense haze; snow continued till 13 ^h ; turned to sleet and continued all day | 1.0 | 1.0 | 1.0 | 1.0 | 33.1 | 23.5 | — |
| 17 | Generally clouded with cir.-cum. and haze; snow and sleet till 9 ^h | 1.0 | 1.0 | 0.4 | 0.0 | 30.3 | 16.5 | — |
| 18 | In general clear | 0.0 | 0.0 | — | — | 23.9 | 18.1 | — |
| 19 | In general clouded with cir.-cum., cum.-strat., and haze | — | — | 1.0 | 1.0 | 22.7 | -0.2 | — |
| 20 | Clouded all the day with cir.-strat. and haze; rain or light snow accompanied with sleet from 12 ^h till 23 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 25.2 | 6.1 | — |
| 21 | Clouded all day with cir.-cum., cum.-strat., and haze | 1.0 | 1.0 | 1.0 | 1.0 | 30.5 | 21.5 | — |
| 22 | Clouded till 1 ^h with cir.-cum., cir.-strat., and haze; remainder of day generally clear | 0.2 | 0.0 | 0.0 | 1.0 | 37.3 | 29.3 | — |
| 23 | Clouded all day with cir.-cum., cir.-strat., and haze; constant rain from 12 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 39.1 | 13.7 | — |
| 24 | Continued raining till 9 ^h ; clouded all day with cum.-strat., cir.-cum., and haze | 1.0 | 1.0 | 1.0 | 0.7 | 36.7 | 18.4 | — |
| 25 | Clear all day | 0.0 | 0.0 | — | — | 37.9 | 22.7 | — |
| 26 | In general, clear | — | — | 0.0 | 1.0 | 30.1 | 11.4 | — |
| 27 | Clouded all day with cir.-strat. and haze; slight rain from 15 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 31.1 | 10.3 | — |
| 28 | Continued raining till 8 ^h ; slight snow from 9 ^h till 11 ^h ; clouded all day; dense cir.-cum. and haze | 1.0 | 1.0 | 1.0 | 1.0 | 39.5 | 20.7 | — |
| 29 | Generally clouded; cir.-cum. and haze; occasional showers of snow | 1.0 | 0.4 | 0.9 | 0.7 | 42.1 | 29.5 | — |
| 30 | Mostly clear; a few cir.-cum. occasionally | 0.3 | 0.0 | 0.2 | 0.8 | 33.1 | 16.3 | — |
| 31 | Generally clear throughout the day | 0.2 | 0.0 | 0.0 | 1.0 | 24.7 | 11.0 | — |

^a Rain gauge out of order.

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|----------------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | |
| FEBRUARY. | | | | | | | | |
| D. | | | | | | | | In. |
| 1 | Generally clouded till 5 ^h ; cir.-strat. and haze; remainder of the day clear - - | 0·8 | 0·0 | — | — | 15·1 | -2·4 | — ^a |
| 2 | Clouded all day; cir.-cum. and haze - - - - - | — | — | 1·0 | 1·0 | 12·7 | -1·7 | — |
| 3 | Clouded all day; dense haze; snowing and drifting all day - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 18·5 | -2·4 | — |
| 4 | Clouded all day; dense haze; slight snow and heavy drift all day - - | 1·0 | 1·0 | 1·0 | 1·0 | 24·2 | 17·7 | — |
| 5 | Clouded all day; dense haze; slight snow and heavy drift all day - - | 1·0 | 1·0 | 1·0 | 1·0 | 27·7 | 11·7 | — |
| 6 | Clouded nearly all day; dense haze and cir.-cum.; snow drifting; latter part of the day clear - - - - - | 1·0 | 0·5 | 0·0 | 0·1 | 17·7 | 3·1 | — |
| 7 | Generally clear; a few cir.-cum. round horizon - - - - - | 0·2 | 0·4 | 0·0 | 0·3 | 20·5 | 2·8 | — |
| 8 | Clear till 8 ^h ; remainder of the day clouded and hazy - - - - - | 0·0 | 1·0 | — | — | 28·1 | 10·1 | — |
| 9 | Clouded all day; cir.-cum. and haze; snowing most part of the day - - | — | — | 1·0 | 0·8 | 21·9 | 4·9 | — |
| 10 | Clouded all day; cir. and haze - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 28·3 | 8·7 | — |
| 11 | Clouded all day; dense haze; misty - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 33·5 | 25·6 | — |
| 12 | Clouded at 9 ^h ; cir.-cum. and haze; remainder of the day clear - - - | 0·1 | 1·0 | 0·0 | 0·1 | 38·9 | 25·7 | — |
| 13 | Clear till 1 ^h ; remainder of the day clouded; cir.-cum., cum.-strat., and haze; light snow from 17 ^h accompanied with sleet from 18 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 37·9 | -1·9 | — |
| 14 | Snow and sleet continued till 2 ^h ; clouded all day; cir.-cum. and haze - - | 1·0 | 1·0 | 0·9 | 1·0 | 15·3 | -4·2 | — |
| 15 | Clouded all day; cir.-cum. and haze - - - - - | 1·0 | 1·0 | — | — | 35·5 | 13·4 | — |
| 16 | Clouded all day; cir.-strat. and haze - - - - - | — | — | 1·0 | 1·0 | 40·3 | 31·5 | — |
| 17 | Clouded all day; cum.-strat., cir.-cum., and haze - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 40·0 | 31·7 | — |
| 18 | Generally clouded; cir.-cum. and haze; halo round the sun at 1 ^h , imperfect; and round the moon at 11 ^h , perfect - - - - - | 0·7 | 0·8 | 1·0 | 1·0 | 39·9 | 31·7 | — |
| 19 | Generally clouded; cir.-cum. and haze; halo round the moon at 11 ^h , diam. 40 ^o , perfect - - - - - | 1·0 | 0·7 | 1·0 | 1·0 | 36·7 | 27·5 | — |
| 20 | Clear from 9 ^h till 11 ^h ; remainder of the day clouded; cir.-cum. and haze - - | 1·0 | 0·0 | 0·6 | 0·7 | 38·3 | 32·9 | — |
| 21 | In general clouded; cir.-cum., cir.-strat., and haze; occasionally almost clear - | 1·0 | 0·2 | 1·0 | 1·0 | 43·7 | 32·2 | — |
| 22 | Clouded all day; cir.-cum., cir.-strat., and haze - - - - - | 1·0 | 1·0 | — | — | 45·1 | 33·2 | — |
| 23 | Generally clouded till 11 ^h ; remainder of the day nearly clear - - - - | — | — | 0·1 | 0·2 | 40·3 | 32·7 | — |
| 24 | Generally clear; auroral light in N. at 8 ^h and 9 ^h - - - - - | 0·3 | 0·0 | 0·0 | 0·5 | 43·9 | 32·7 | — |
| 25 | Mostly clear till 2 ^h ; remainder of the day clouded; cir., cir.-strat., and haze - | 0·7 | 1·0 | 1·0 | 1·0 | 43·5 | 34·7 | — |
| 26 | Generally clear till 7 ^h ; cir.-cum. and haze; remainder of the day mostly clear - | 1·0 | 0·4 | 0·1 | 0·3 | 49·1 | 34·2 | — |
| 27 | Generally clouded all day; cir.-cum. and cum.-strat. - - - - - | 1·0 | 0·2 | 1·0 | 0·9 | 40·3 | 25·5 | — |
| 28 | In general clouded; cir.-cum. and cum.-strat; snow from 9 ^h to 13 ^h - - - | 0·7 | 1·0 | 0·5 | 0·4 | 38·7 | 25·2 | — |
| MARCH. | | | | | | | | |
| 1 | Mostly clear till 11 ^h ; remainder of the day clouded - - - - - | 0·1 | 0·1 | — | — | 33·9 | 24·7 | — |
| 2 | Clouded all day; rain and snow from 9 ^h till 14 ^h - - - - - | — | — | 1·0 | 1·0 | 45·3 | 33·7 | — |
| 3 | Generally clouded till 4 ^h ; cir.-cum. and cir.-strat.; remainder of the day clear - | 0·7 | 0·0 | 0·0 | 0·9 | 41·1 | 34·5 | — |
| 4 | Clouded all day; cir., cir.-strat. and haze; slight rain from 10 ^h accompanied by snow from 18 ^h till 22 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 32·9 | 24·5 | 0·25 |
| 5 | Clouded till 2 ^h ; cir.-cum. and haze; remainder of the day clear - - - - | 0·1 | 0·0 | 0·0 | 0·1 | 42·6 | 24·7 | — |
| 6 | Generally clear - - - - - | 0·1 | 0·1 | 0·0 | 0·5 | 45·7 | 25·9 | — |
| 7 | Generally clouded; cir.-cum., cir. and haze; rain from 13 ^h till 15 ^h 30 ^m - - | 1·0 | 1·0 | 1·0 | 1·0 | 40·4 | 25·9 | 0·06 |
| 8 | Clouded all day; cir.-cum., cir.-strat. and haze - - - - - | 1·0 | 1·0 | — | — | 41·5 | 32·7 | — |
| 9 | Partially clouded; cir.-strat. and haze - - - - - | — | — | 0·4 | 1·0 | 55·8 | 32·7 | — |
| 10 | Clouded all day; cir.-cum., cir.-strat. and haze; slight snow from 11 ^h till 16 ^h 30 ^m - | 1·0 | 1·0 | 1·0 | 0·1 | 41·1 | 26·3 | — |
| 11 | Mostly clear till 12 ^h ; remainder of the day clouded; cir.-cum., cir.-strat. and haze - | 0·2 | 0·0 | 1·0 | 0·5 | 40·9 | 26·5 | — |
| 12 | Generally clouded till 9 ^h with cir.-cum.; cum.-strat. and haze; remainder of the day clear - - - - - | 0·8 | 0·7 | 0·0 | 1·0 | 37·6 | 28·1 | — |
| 13 | Clear; auroral light in N. at 14 ^h - - - - - | 0·1 | 0·0 | 0·0 | 1·0 | 46·4 | 28·2 | — |
| 14 | Clouded till 7 ^h ; cir.-cum., cir.-strat. and haze; slight rain from 2 ^h till 5 ^h ; mostly clear - | 1·0 | 0·2 | 0·4 | 1·0 | 46·1 | 26·2 | 0·08 |
| 15 | Clouded all day; cir.-cum., cir.-strat. and haze; snow from 6 ^h till 8 ^h - - - | 1·0 | 1·0 | — | — | 45·1 | 17·7 | — |
| 16 | Clouded all day; cir. and haze; snowing all day with little intermission - - | — | — | 1·0 | 1·0 | 24·9 | 6·6 | — |
| 17 | Clouded all day; cir.-cum., cum.-strat. and haze; halo round the moon at 10 ^h and 11 ^h perfect; diameter about 30 ^o - - - - - | 1·0 | 0·6 | 1·0 | 1·0 | 30·7 | 9·9 | — |
| 18 | In general clouded; cum. and cum.-strat.; snow from 1 ^h till 6 ^h - - - - - | 1·0 | 0·6 | 1·0 | 1·0 | 35·2 | 24·9 | — |
| 19 | In general clouded; cir.-cum. and haze; halo round the moon at 10 ^h and 11 ^h , diameter 35 ^o and 30 ^o - - - - - | 1·0 | 1·0 | 0·4 | 1·0 | 29·9 | 19·7 | — |
| 20 | Clouded all day excepting at 10 ^h and 11 ^h , which were clear - - - - - | 1·0 | 0·9 | — | — | 29·2 | 19·2 | — |
| 21 | Clouded from 12 ^h to 17 ^h ; cum.-strat., cir.-cum. and haze; remainder of the day generally clear - - - - - | — | — | 1·0 | 0·0 | 32·9 | 16·9 | — |
| 22 | Mostly clear - - - - - | 0·0 | 0·4 | — | — | 38·9 | 16·4 | — |
| 23 | Generally clouded; cum.-strat. and cir.-cum. - - - - - | — | — | 1·0 | 1·0 | 43·7 | 26·7 | — |
| 24 | Clouded till 11 ^h ; cir.-cum., cum.-strat. and haze; remainder of the day clear - | 0·9 | 1·0 | 0·0 | 0·7 | 49·8 | 32·7 | — |
| 25 | Generally clouded; cir.-cum. and cir.-strat.; clear spaces occasionally - - | 0·5 | 1·0 | 0·8 | 1·0 | 41·5 | 30·9 | — |
| 26 | In general clouded; cir. and cir.-strat. - - - - - | 1·0 | 1·0 | 0·6 | 1·0 | 47·7 | 28·9 | — |
| 27 | Clouded all day; cir.-strat., cir. and haze - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 52·0 | 34·7 | — |
| 28 | In general clouded; cir., cir.-cum. and haze - - - - - | 1·0 | 0·5 | 1·0 | 0·0 | 59·8 | 36·7 | — |

^a Rain gauge out of order.

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|--|-----------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | |
| D. | MARCH. | | | | | ° | ° | In. |
| 29 | Clear all day - - - - - | 0·0 | 0·0 | — | — | 54·3 | 33·2 | — |
| 30 | Clouded from 12 ^h to 7 ^h ; cir. and haze; remainder of the day generally clear - | — | — | 1·0 | 1·0 | 62·7 | 33·4 | — |
| 31 | Clear from 9 ^h to 12 ^h ; remainder of the day clouded; cir.-cum., cir.-strat., and haze; slight rain at 17 ^h and 18 ^h - - - - - | 1·0 | 0·0 | 1·0 | 1·0 | 59·2 | 41·2 | — |
| | APRIL. | | | | | | | |
| 1 | Clear from 8 ^h till 14 ^h ; remainder of the day clouded; cir.-cum., cir.-strat., and haze - | 1·0 | 0·0 | 0·9 | 0·5 | 63·3 | 47·2 | — |
| 2 | Generally clouded; cir.-cum. and cum.-strat.; showers of rain at 0 ^h ; snow from 12 ^h till 14 ^h - - - - - | 0·8 | 0·1 | 0·6 | 0·4 | 48·3 | 26·7 | 0·04 |
| 3 | Mostly clear till 2 ^h ; remainder of the day clouded; cir.-cum., cir.-strat., and haze; snow from 6 ^h till 8 ^h - - - - - | 1·0 | 1·0 | 1·0 | 0·2 | 53·0 | 26·1 | — |
| 4 | Partially clouded; cir.-cum.; cir.-strat. and haze - - - - - | 0·9 | 0·4 | 0·5 | 0·6 | 39·6 ^a | 27·7 ^a | — |
| 5 | Partially clear till 4 ^h ; remainder of the day clear - - - - - | 0·8 | 0·0 | — | — | 43·9 | 24·7 | — |
| 6 | Clear and clouded alternately; suowing from 15 ^h till 20 ^h - - - - - | — | — | 1·0 | 1·0 | 36·9 | 17·9 | — |
| 7 | Clouded till 6 ^h ; cir.-cum. and haze; remainder of the day mostly clear; snow at 19 ^h and 20 ^h - - - - - | 1·0 | 0·0 | 0·4 | 0·8 | 41·7 | 15·5 | — |
| 8 | Mostly clouded till 2 ^h ; cum.-strat. and cir.-cum.; remainder of the day clear - | 0·2 | 0·0 | 0·0 | 1·0 | 35·9 | 19·1 | — |
| 9 | Clouded from 1 ^h till 8 ^h and from 15 ^h till 17 ^h ; cir.-strat. and haze; remainder of the day generally clear - - - - - | 1·0 | 0·0 | 1·0 | 0·8 | 34·1 | 18·4 | — |
| 10 | In general clouded; cir., cir.-cum., cum.-strat., and haze - - - - - | 0·7 | 1·0 | 1·0 | 0·7 | 43·4 | 21·7 | — |
| 11 | Generally clear; clouded from 23 ^h ; cir., cir.-strat., and haze; halo and parhelia round the sun at 21 ^h ; diameter of halo 30°; perfect and very bright - - - - - | 0·0 | 0·0 | 0·2 | 0·4 | 50·8 | 33·1 | — |
| 12 | Continued cloudy till 11 ^h ; cir., cir.-stat., and haze; remainder of the day generally clear - - - - - | 1·0 | 0·8 | — | — | 45·1 | 26·7 | — |
| 13 | Generally clear; auroral light in N. from 11 ^h till 15 ^h - - - - - | — | — | 0·0 | 0·0 | 48·3 | 29·7 | — |
| 14 | Generally clear - - - - - | 0·0 | 0·3 | 0·1 | 0·0 | 66·3 | 37·2 | — |
| 15 | Clear till 1 ^h ; remainder of the day clouded; cir.-cum., cir.-strat., and haze - | 0·8 | 0·8 | 1·0 | 1·0 | 61·5 | 31·8 | — |
| 16 | Clouded all day; cir.-cum. and haze; rain from 2 ^h till 11 ^h and at 17 ^h - - - | 1·0 | 1·0 | 1·0 | 1·0 | 63·7 | 35·7 | 0·28 |
| 17 | Clouded all day; cir.-cum., cum.-strat; slight rain from 2 ^h till 15 ^h - - - | 1·0 | 1·0 | 1·0 | 1·0 | 49·5 | 36·7 | 0·18 |
| 18 | Clouded all day; cir.-cum. and haze; raining at intervals; thunder at 8 ^h , and from 12 ^h till 15 ^h , accompanied by rain - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 44·3 | 37·3 | 0·32 |
| 19 | Clouded all day; cir.-cum., cir.-strat., and haze; drizzling rain nearly all day - | 1·0 | 1·0 | — | — | 46·1 | 41·5 | 0·34 |
| 20 | Generally clouded; cir.-cum., cir.-strat., and haze - - - - - | — | — | 1·0 | 1·0 | 46·3 | 40·7 | — |
| 21 | Clouded till 7 ^h ; cum.-strat. and cir.-cum.; remainder of the day clear - - - | 1·0 | 0·1 | 0·0 | 0·1 | 46·4 | 40·7 | — |
| 22 | Clouded all day; cir.-cum. and cir.-strat. - - - - - | 0·8 | 0·6 | 1·0 | 0·8 | 49·4 | 33·7 | — |
| 23 | Generally clouded; cir. and haze; rain and distant thunder in N.W. from 5 ^h till 8 ^h - | 1·0 | 0·7 | 0·2 | 1·0 | 53·0 | 37·3 | 0·35 |
| 24 | Clouded all day; cir.-cum., cum.-strat., and haze; rain and thunder from 4 ^h till 6 ^h , and from 1 ^h till 16 ^h - - - - - | 1·0 | 1·0 | 1·0 | 1·0 | 66·5 | 46·2 | 0·25 |
| 25 | Clouded all day; cum.-strat. and cir.-cum.; slight rain occasionally - - - | 1·0 | 1·0 | 1·0 | 1·0 | 66·7 | 43·5 | 0·24 |
| 26 | Generally clouded; cir.-cum., cir.-strat., and haze - - - - - | 0·4 | 1·0 | — | — | 49·8 | 40·2 | — |
| 27 | Clouded till 11 ^h ; remainder of the day clear - - - - - | — | — | 0·0 | 1·0 | 57·6 | 39·4 | — |
| 28 | Generally clouded till 11 ^h ; cir.-strat., strat., and haze; remainder of the day clear - | 0·6 | 1·0 | 0·0 | 0·4 | 61·0 | 36·2 | — |
| 29 | Partially clouded all day; cir., cir.-strat., and haze; thunder, lightning, and rain from 15 ^h till 20 ^h - - - - - | 0·4 | 0·4 | 0·6 | 0·9 | 62·5 | 40·3 | — |
| 30 | Generally clouded; cir.-cum., cum., and cir.-strat., thunder, lightning, and rain from 6 ^h till 13 ^h - - - - - | 0·8 | 1·0 | 0·8 | 0·7 | 59·7 | 45·7 | 1·31 |
| | MAY. | | | | | | | |
| 1 | Partially clear; clouds; cir.-cum. and cum. widely dispersed - - - - - | 0·2 | 0·6 | 0·9 | 0·1 | 61·2 | 45·7 | — |
| 2 | Clear; clouded from 18 ^h ; cir. and cir.-strat. - - - - - | 0·0 | 0·0 | 0·0 | 1·0 | 68·3 | 41·1 | — |
| 3 | Mostly clouded; cir., cir.-strat., and haze; halo round the sun at 1 ^h , diameter 30°, perfect - - - - - | 1·0 | 0·7 | — | — | 58·8 | 39·7 | — |
| 4 | Clouded till 12 ^h ; cir.-cum., cir.-strat., and cum.; remainder of the day clear - | — | — | 0·0 | 0·2 | 63·3 | 42·2 | — |
| 5 | In general clear - - - - - | 0·1 | 0·0 | 0·0 | 0·1 | 60·8 | 31·9 | — |
| 6 | Nearly clear till 14 ^h ; remainder of the day clouded; cir.-strat. and haze - - - | 0·1 | 0·1 | 1·0 | 0·9 | 52·6 | 30·9 | — |
| 7 | Clouded till 1 ^h ; cir.-cum. and cir.-strat.; remainder of the day clear - - - | 0·3 | 0·0 | 0·0 | 0·0 | 57·0 | 38·9 | — |
| 8 | Clear till 2 ^h ; remainder of the day clouded; cir.-cum., cir.-strat., and haze - | 1·0 | 1·0 | 0·3 | 0·0 | 49·0 | 27·8 | — |
| 9 | Clouded at 3 ^h , 4 ^h , 15 ^h , and 16 ^h ; cir.-cum. and haze - - - - - | 0·8 | 0·0 | 0·7 | 0·0 | 51·3 | 34·5 | — |
| 10 | Clear all the day - - - - - | 0·0 | 0·0 | — | — | 57·0 | 37·5 | — |
| 11 | Clear all the day - - - - - | — | — | 0·0 | 0·0 | 62·0 | 42·5 | — |
| 12 | Generally clear; at 7 ^h and 8 ^h clouded; cir.-cum. and haze; clouded from 18 ^h till 21 ^h ; cir.-cum., cir.-strat., and cir. - - - - - | 0·0 | 0·0 | 0·2 | 1·0 | 76·0 | 50·1 | — |
| 13 | Generally clear; rain throughout the 23rd hour - - - - - | 0·5 | 0·0 | 0·0 | 1·0 | 77·8 | 53·8 | 0·27 |
| 14 | In general clouded; cir.-cum., cir.-strat., and haze; lightning and thunder in N.W. N., and N.E. from 7 ^h till 13 ^h ; rain from 16 ^h till 17 ^h - - - - - | 1·0 | 0·5 | 1·0 | 1·0 | 75·3 | 52·5 | 0·27 |
| 15 | Clouded till 3 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day clear - | 0·8 | 0·0 | 0·0 | 0·0 | 66·7 | 43·7 | — |

^a Taken from the highest and lowest of the Standard Thermometer.

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | |
| MAY. | | | | | | | | |
| D. 16 | Clear all day | 0·0 | 0·0 | 0·0 | 0·0 | 50·0 | 30·7 | In. — |
| 17 | Clear till 2 ^h ; remainder of the day mostly clouded; cir.-cum., cir., and haze | 0·5 | 0·8 | — | — | 51·0 | 34·1 | — |
| 18 | Mostly clear | — | — | 0·1 | 0·1 | 61·2 | 38·7 | — |
| 19 | Mostly clouded all day; cir.-cum. and cum.-strat.; lightning, thunder, and rain at 2 ^h and 8 ^h | 0·7 | 0·4 | 0·8 | 0·2 | 69·3 | 50·7 | 0·68 |
| 20 | In general clear; cir.-cum. dispersed occasionally | 0·4 | 0·1 | 0·0 | 0·2 | 68·7 | 42·2 | — |
| 21 | In general clear till 13 ^h ; remainder of the day clouded; cir.-cum. and haze; slight rain from 23 ^h | 0·3 | 0·0 | 1·0 | 1·0 | 57·0 | 36·2 | — |
| 22 | Clouded till 3 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day clear; slight rain continued till 6 ^h | 1·0 | 0·0 | 0·0 | 0·2 | 62·7 | 36·7 | 0·50 |
| 23 | In general, clear | 0·4 | 0·0 | 0·1 | 0·0 | 52·2 | 33·1 | — |
| 24 | Generally clear | 0·7 | 0·1 | — | — | 63·3 | 36·2 | — |
| 25 | Mostly clouded; cir., cir.-cum., and haze; halo round the sun at 3 ^h , diameter about 30° perfect; slight rain at 18 ^h | — | — | 1·0 | 0·7 | 53·2 | 33·5 | — |
| 26 | Mostly clear; clouded from 18 ^h to 23 ^h | 0·2 | 0·1 | 0·3 | 1·0 | 59·8 | 40·2 | — |
| 27 | Clouded from 4 ^h till 8 ^h , and from 16 ^h till 17 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day mostly clear | 0·3 | 0·3 | — | 1·0 | 76·1 | 49·7 | — |
| 28 | Clouded; cir.-cum. and cum.-strat.; showery; occasional lightning and thunder | 1·0 | 1·0 | 1·0 | 1·0 | 72·8 | 44·0 | 0·28 |
| 29 | Clouded till 1 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day clear | 0·3 | 0·0 | 0·0 | 0·0 | 70·0 | 35·5 | — |
| 30 | Clear | 0·0 | 0·1 | 0·0 | 0·0 | 43·7 | 30·2 | — |
| 31 | Clear | 0·0 | 0·0 | — | — | 56·8 | 33·2 | — |
| JUNE. | | | | | | | | |
| 1 | In general clear | — | — | 0·3 | 0·7 | 65·3 | 38·5 | — |
| 2 | In general clouded; cir., cir.-cum., and haze; occasionally a little clear; halo round the sun at 19 ^h ; diameter about 35° imperfect | 0·7 | 0·2 | 0·5 | 1·0 | 67·5 | 45·7 | — |
| 3 | Clouded till 1 ^h ; cir. and haze; remainder of the day partially clear; halo round the sun from 20 ^h till 4 ^h 0 ^h , diameter 40° perfect | 0·4 | 0·0 | 0·0 | 0·9 | 72·3 | 54·5 | — |
| 4 | Clouded all day except at 9 ^h and 10 ^h , when it was almost clear; cir.-cum. and cir.-strat.; thunder and lightning in W. from 5 ^h till 14 ^h | 1·0 | 0·2 | 1·0 | 0·4 | 74·2 | 52·1 | 0·04 |
| 5 | Clear from 0 ^h till 5 ^h ; remainder of the day mostly clouded; cir.-cum., cir.-strat., and haze | 0·0 | 1·0 | 0·9 | 1·0 | 77·0 | 53·8 | — |
| 6 | Generally clouded; cir.-cum., cir.-strat., and haze; slight rain from 1 ^h till 3 ^h ; sheet lightning in S. and S.W. from 9 ^h till 12 ^h ; lightning, thunder, and rain from 19 ^h till 7 ^h 0 ^h | 1·0 | 0·3 | 0·8 | 1·0 | 66·5 | 47·3 | 0·25 |
| 7 | Generally clouded; cum., cir.-cum., and haze | 0·8 | 1·0 | — | — | 59·6 | 44·7 | — |
| 8 | Unclouded; hazy; faint auroral light at 13 ^h and 14 ^h | — | — | 0·0 | 0·2 | 63·5 | 52·0 | — |
| 9 | Mostly clear; light cir. and cir.-strat. occasionally | 0·5 | 0·0 | 0·0 | 0·6 | 81·1 | 56·2 | — |
| 10 | Generally clouded; cum.-strat., cir.-cum., and haze; rain from 6 ^h till 14 ^h ; sheet lightning at 13 ^h and 14 ^h | 1·0 | 1·0 | 0·7 | 1·0 | 84·6 | 52·9 | 1·25 |
| 11 | Clouded all day; cir.-cum., cir.-strat., and haze; lightning, thunder, and heavy rain from 11 ^h till 17 ^h ; slight rain from 21 ^h till 22 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 80·0 | 57·5 | 0·92 |
| 12 | Generally clouded till 13 ^h ; cir.-cum., cir.-strat., and haze | 1·0 | 0·6 | 0·0 | 0·1 | 72·8 | 57·5 | — |
| 13 | Mostly clear till 4 ^h ; remainder of the day clouded; cir.-cum., cir., and haze; slight rain from 11 ^h till 13 ^h | 0·3 | 1·0 | 1·0 | 0·1 | 76·3 | 57·5 | 0·03 |
| 14 | Generally clear; except some light cir. occasionally | 0·6 | 0·1 | — | — | 73·8 | 53·7 | — |
| 15 | Clear from 12 ^h till 17 ^h ; remainder of the day clouded; cir.-cum. and haze; rain from 3 ^h 30 ^m till 13 ^h 30 ^m | — | — | 0·1 | 0·8 | 67·5 | 41·2 | 0·58 |
| 16 | Clouded till 9 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day clear; slight rain from 2 ^h till 5 ^h | 1·0 | 1·0 | 0·0 | 0·2 | 59·7 | 50·5 | 0·03 |
| 17 | Generally clear; detached cir.-cum. dispersed occasionally | 0·2 | 0·8 | 0·2 | 0·3 | 60·7 | 39·6 | — |
| 18 | Generally clear; detached cir.-cum. dispersed occasionally | 0·5 | 0·7 | 0·2 | 0·1 | 66·1 | 40·3 | — |
| 19 | Generally clear | 0·0 | 0·2 | 0·0 | 0·2 | 68·5 | 42·7 | — |
| 20 | Partially clear till 4 ^h ; remainder of the day densely clouded; cum.-strat. and cir.-cum. | 0·8 | 0·4 | 1·0 | 0·5 | 72·8 | 42·7 | — |
| 21 | Partially clear all day; clouds; cir. and haze | 0·2 | 0·8 | — | — | 71·8 | 54·7 | — |
| 22 | Mostly clouded till 13 ^h ; haze; remainder of the day nearly clear | — | — | 0·2 | 0·1 | 73·0 | 46·0 | — |
| 23 | Partially clouded all day; cir.-cum. detached | 0·2 | 0·8 | 0·6 | 0·7 | 66·7 | 49·7 | — |
| 24 | Partially clear; clouds; cir.-cum., cum.-strat., and cir. | 0·4 | 0·9 | 0·5 | 0·2 | 81·8 | 57·9 | — |
| 25 | In general clear | 0·1 | 0·0 | 0·0 | 0·0 | 79·8 | 54·5 | — |
| 26 | In general clear | 0·2 | 0·0 | 0·0 | 0·2 | 68·3 | 42·5 | — |
| 27 | Mostly clear till 11 ^h ; remainder of the day clouded; cir., cir.-cum., and haze; occasional sheet lightning; rain from 18 ^h | 0·2 | 0·3 | 1·0 | 1·0 | 74·4 | 46·3 | 0·63 |
| 28 | Rain continued till 3 ^h ; generally clouded; cir.-cum. and cir.-strat.; heavy shower of rain at 12 ^h | 1·0 | 0·4 | — | — | 76·2 | 54·7 | 0·63 |
| 29 | Generally clouded; cir.-cum. and cum.-strat. detached | — | — | 0·4 | 1·0 | 63·7 | 54·3 | — |
| 30 | Generally clouded; partially at intervals; auroral light in N. at 10 ^h | 0·4 | 0·8 | 0·2 | 0·8 | 66·9 | 52·3 | — |

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | |
| JULY. | | | | | | | | |
| D. 1 | Clouded all day: cir.-cum. and cum.-strat.; rain from 1 ^h 30 ^m till 5 ^h , and from 11 ^h till 12 ^h ; sheet lightning in the W. from 10 ^h till 12 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 59.5 | 47.9 | 0.76 |
| 2 | Clouded till 11 ^h ; cir.-cum. and cum.-strat.; slight rain at 3 ^h and 5 ^h ; remainder of the day mostly clear | 1.0 | 1.0 | 0.4 | 0.7 | 58.0 | 48.4 | — |
| 3 | Generally clouded; cir.-cum. and cir. dispersed; clear spaces | 0.5 | 0.7 | 0.8 | 1.0 | 66.7 | 46.5 | — |
| 4 | Mostly clouded till 1 ^h ; cir.-cum. and cum.; remainder of the day generally clear | 0.1 | 0.4 | 0.1 | 0.0 | 66.2 | 49.7 | — |
| 5 | Generally clear | 0.2 | 0.1 | — | — | 67.5 | 45.9 | — |
| 6 | Mostly clear; light cir. and haze occasionally | — | — | 0.3 | 0.3 | 74.6 | 53.5 | — |
| 7 | Generally clear; detached cum. and cir.-cum. occasionally | 0.2 | 0.7 | 0.0 | 0.4 | 79.5 | 60.0 | — |
| 8 | Generally clear; except occasional light cir. | 0.1 | 0.0 | 0.0 | 0.1 | 83.6 | 55.4 | — |
| 9 | Clear all day with very slight exceptions | 0.1 | 0.1 | 0.0 | 0.0 | 84.0 | 52.9 | — |
| 10 | Generally clear; overcast with haze from 19 ^h till 21 ^h | 0.0 | 0.0 | 0.0 | 1.0 | 76.8 | 47.9 | — |
| 11 | Quite clear all day | 0.0 | 0.0 | 0.0 | 0.0 | 80.3 | 51.9 | — |
| 12 | Generally clear | 0.2 | 0.0 | — | — | 89.0 | 60.4 | — |
| 13 | Partially clouded during most of the day; totally clouded from 13 ^h till 17 ^h ; cir.-cum. and haze | — | — | 1.0 | 0.9 | 95.0 | 69.0 | — |
| 14 | Generally clear till 9 ^h ; cir.-cum. dispersed; remainder of the day clear | 0.5 | 0.5 | 0.0 | 0.2 | 91.0 | 69.2 | — |
| 15 | Generally clear | 0.0 | 0.0 | 0.2 | 0.6 | 89.6 | 61.4 | — |
| 16 | Mostly clouded cum. and cum.-strat.; thunder and lightning from 1 ^h till 2 ^h ; sheet lightning on 9 ^h till 12 ^h , and slight rain | 1.0 | 1.0 | 1.0 | 1.0 | 88.8 | 58.7 | 0.03 |
| 17 | Mostly clouded till 4 ^h ; detached cum. and cir.-cum.; clear intervals; remainder of the day clear | 0.5 | 0.5 | 0.0 | 0.0 | 88.0 | 66.0 | — |
| 18 | Generally clear till 10 ^h ; remainder of the day clouded; cir., cir.-strat., cir.-cum., and haze; halo round the moon at 13 ^h , diameter about 35°, perfect | 0.2 | 0.0 | 1.0 | 1.0 | 88.0 | 56.5 | — |
| 19 | Generally clear | 0.1 | 0.3 | — | — | 79.8 | 50.6 | — |
| 20 | Generally clouded; cir.-cum. and haze | — | — | 0.0 | 0.2 | 75.3 | 58.5 | — |
| 21 | Clear from 12 ^h till 22 ^h , remainder of the day clouded with cir.-cum. and cum.-strat.; heavy storm of thunder and lightning accompanied by rain from 5 ^h 50 ^m till 6 ^h 10 ^m , passing from N. to S. | 0.9 | 0.8 | 0.0 | 0.0 | 82.6 | 65.2 | 0.52 |
| 22 | Clouded with cir.-cum. and cum.-strat. till 8 ^h ; remainder of the day clear; distant thunder in N.W. at 7 ^h | 0.6 | 0.2 | 0.2 | 0.6 | 89.0 | 59.0 | — |
| 23 | Generally clear till 6 ^h ; remainder of the day clouded with cir.-cum. and cum.-strat. | 0.3 | 0.9 | 1.0 | 1.0 | 78.0 | 57.2 | — |
| 24 | Generally clouded till 10 ^h ; detached cir.-cum. and cir.-strat.; remainder of the day clear; auroral light in N. from 11 ^h till 15 ^h | 0.6 | 0.5 | 0.1 | 0.4 | 67.3 | 53.7 | — |
| 25 | Partially clear all day | 0.8 | 0.4 | 0.6 | 0.7 | 71.6 | 49.5 | — |
| 26 | Generally clouded; cir.-strat. and haze; clear spaces occasionally | 0.4 | 1.0 | — | — | 78.6 | 50.9 | — |
| 27 | Generally clouded; cir.-cum. scattered; clear intervals | — | — | 1.0 | 0.4 | 79.0 | 54.0 | — |
| 28 | Partially clear till 11 ^h ; remainder of the day clouded; cir.-strat., cum.-strat., and haze; slight rain from 21 ^h | 0.0 | 0.7 | 1.0 | 1.0 | 77.8 | 59.8 | 0.05 |
| 29 | Generally clouded; cir.-cum. and haze; rain ceased at 0 ^h ; storm of thunder and lightning accompanied by rain between 4 ^h and 5 ^h ; passing from S.W. to N.E.; lasting about 30 ^m | 1.0 | 1.0 | 0.7 | 1.0 | 73.2 | 52.7 | 0.72 |
| 30 | Generally clouded; cir.-cum. and haze | 1.0 | 1.0 | 0.3 | 0.1 | 69.8 | 56.0 | — |
| 31 | Mostly clear; a few cir.-cum. dispersed about | 0.2 | 0.1 | 1.0 | 0.4 | 60.8 | 45.7 | — |
| AUGUST. | | | | | | | | |
| 1 | Mostly clouded till 7 ^h ; cir.-cum. and cir.-strat.; remainder of the day clear; auroral light in N. from 9 ^h till 11 ^h | 1.0 | 0.0 | 0.0 | 0.2 | 67.9 | 48.5 | — |
| 2 | Generally clear; cum. and cir.-cum. round horizon; auroral light in N. at 10 ^h and 11 ^h | 0.3 | 0.2 | — | — | 74.0 | 44.7 | — |
| 3 | Generally clear | — | — | 0.1 | 0.3 | 73.2 | 41.5 | — |
| 4 | Generally clear | 0.2 | 0.0 | 0.0 | 0.0 | 75.8 | 52.3 | — |
| 5 | Generally clear | 0.2 | 0.0 | 0.0 | 0.1 | 80.8 | 52.3 | — |
| 6 | Clouded from 1 ^h till 6 ^h ; cir.-strat. and cir.-cum.; remainder of the day clear | 0.8 | 0.0 | 0.0 | 0.3 | 80.2 | 55.3 | — |
| 7 | Clear at 9 ^h and 11 ^h ; remainder of the day mostly clouded; cir.-cum., cir., and haze; slight rain from 18 ^h till 20 ^h | 0.6 | 0.0 | 1.0 | 1.0 | 80.6 | 56.3 | 0.08 |
| 8 | Generally clouded; cir.-strat., cir.-cum., and haze; sheet lightning from 9 ^h till 11 ^h in S.E. and S.W. | 1.0 | 0.8 | 0.7 | 0.5 | 84.8 | 56.1 | — |
| 9 | Partially clear | 0.4 | 0.5 | — | — | 78.0 | 62.6 | — |
| 10 | Generally clouded; nim. and cum.-strat.; rain during the day and distant thunder | — | — | 1.0 | 1.0 | 82.6 | 59.5 | 0.10 |
| 11 | Generally clouded; cir.-cum., nim., and haze; rain from 0 ^h 20 ^m till 1 ^h 20 ^m , accompanied by lightning and thunder; clear from 18 ^h till 23 ^h | 1.0 | 0.4 | 0.5 | 0.0 | 81.3 | 64.0 | 0.12 |
| 12 | Generally clouded; cir. and haze; slight rain from 20 ^h | 0.8 | 0.7 | 0.4 | 1.0 | 77.8 | 57.2 | 0.05 |
| 13 | Rain ceased at 0 ^h ; clouded till 7 ^h and from 10 ^h till 12 ^h ; cir.-cum., cir.-strat. and haze, remainder of the day clear; moderate rain between 2 ^h and 3 ^h ; thunder and rain at 11 ^h | 1.0 | 0.1 | 0.0 | 0.0 | 79.8 | 53.3 | 0.19 |
| 14 | Generally clear till 9 ^h , remainder of the day clouded; cir.-cum., cum., and cir.-strat. | 0.5 | 0.5 | 1.0 | 0.5 | 70.8 | 55.2 | — |

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|--|-----------------------|------------------|-------------------|-------------------|-------------|-------------------|-------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | |
| AUGUST. | | | | | | | | |
| D. | | | | | | ° | ° | In. |
| 15 | Partially clouded; cir. and cir.-cum. generally dispersed | 0·0 | 0·6 | 0·7 | 0·0 | 74·9 | 55·3 | — |
| 16 | Clear and unclouded | 0·0 | 0·0 | — | — | 74·8 | 58·0 | — |
| 17 | Generally clouded; cir. and haze; rain from 8 ^h till 12 ^h ; a slight shower at 20 ^h and 21 ^h | — | — | 1·0 | 1·0 | 78·6 | 55·5 | 0·46 |
| 18 | Generally clouded; cir.-cum. and cum.-strat.; slight shower of rain at 0 ^h and 20 ^h | 0·6 | 1·0 | 0·2 | 1·0 | 79·2 | 57·4 | 0·03 |
| 19 | Generally clouded; cir.-cum., cir.-strat., and haze | 0·3 | 1·0 | 0·4 | 0·4 | 82·0 | 65·2 | — |
| 20 | Generally clear; some light cum. and cir.-cum. occasionally | 0·3 | 0·2 | 0·6 | 0·3 | 74·5 | 61·8 | — |
| 21 | Partially clouded; cir.-cum. and cum. | 0·8 | 0·5 | 0·8 | 0·3 | 79·9 | 60·5 | — |
| 22 | Generally unclouded; but hazy | 0·2 | 0·1 | 0·0 | 0·3 | 82·0 | 62·5 | — |
| 23 | Generally clear; light cir. and cir.-strat. occasionally | 0·8 | 0·0 | — | — | 80·7 | 56·7 | — |
| 24 | Generally clear | — | — | 0·0 | 0·8 | 81·3 | 59·5 | — |
| 25 | Partially clouded till 4 ^h ; cir.-strat. and cir.-cum.; remainder of the day clear | 0·6 | 0·0 | 0·0 | 0·3 | 80·6 | 51·2 | — |
| 26 | Generally clear; rain with lightning and thunder from 19 ^h till 21 ^h | 0·2 | 0·0 | 0·1 | 1·0 | 79·1 | 55·7 | — |
| 27 | Clouded till 6 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day mostly clear | 1·0 | 0·4 | 0·0 | 0·6 | 76·3 | 60·5 | 0·26 |
| 28 | Generally clear | 0·1 | 0·0 | 0·0 | 0·8 | 67·0 | 55·0 | — |
| 29 | Clouded all day; cir.-cum., cir.-strat., and haze; rain with lightning and thunder from 8 ^h till 16 ^h | 1·0 | 1·0 | 1·0 | 1·0 | 67·3 | 52·1 | 0·44 |
| 30 | Clouded most of the day; cir.-cum. and cum.-strat. | 0·7 | 0·9 | — | — | 78·6 | 58·8 | — |
| 31 | Mostly clear; clouded from 18 ^h | — | — | 0·0 | 1·0 | 77·1 | 52·7 | — |
| SEPTEMBER. | | | | | | | | |
| 1 | Clouded all day; cir.-cum., cir.-strat., and haze; raining from 2 ^h till 2 ^h 30 ^m , and from 5 ^h till 13 ^h | 1·0 | 1·0 | — | 1·0 | 70·6 | 51·2 | 0·63 |
| 2 | In general clouded; cir.-cum., and cir.-strat.; slight rain from 5 ^h till 8 ^h ; sheet lightning in S.W. and S. horizons from 8 ^h till 12 ^h | 1·0 | 0·6 | 0·1 | 0·0 | 71·6 | 55·2 | 0·05 |
| 3 | Mostly clear; cir.-cum. and cum.-strat. floating about occasionally; clouded from 18 ^h | 0·8 | 0·0 | 0·6 | 1·0 | 75·0 | 51·7 | — |
| 4 | Clouded till 1 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day clear | 0·2 | 0·0 | 0·1 | 0·4 | 79·6 | 53·8 | — |
| 5 | Mostly clouded till 4 ^h ; cir.-cum.; remainder of the day generally clear; showers of rain from 3 ^h till 5 ^h | 0·8 | 0·0 | 0·4 | 1·0 | 78·2 | 54·0 | 0·06 |
| 6 | Generally clouded; cir.-cum. and cir.-strat.; sheet lightning and distant thunder in W. and N.W. at 9 ^h ; rain from 9 ^h till 11 ^h | 1·0 | 1·0 | — | — | 70·6 | 46·0 | 0·06 |
| 7 | Generally clear | — | — | 0·1 | 0·1 | 70·8 | 47·5 | — |
| 8 | Mostly clear; light cir.-cum. and cir.-strat. round horizon; thunder-storm with heavy gusts of wind from 18 ^h till 19 ^h 30 ^m ; cleared suddenly | 0·2 | 0·5 | 0·0 | 0·2 | 74·0 | 39·7 | — |
| 9 | In general clear; partially clouded from 18 ^h ; showers in the 23rd hour | 0·8 | 0·3 | 0·1 | 0·4 | 69·2 | 41·7 | 0·33 |
| 10 | Partially clouded till 5 ^h ; cir.-cum. and cum.-strat.; clear till 21 ^h ; remainder clouded | 0·4 | 0·0 | 0·0 | 0·6 | 66·9 | 46·0 | — |
| 11 | Mostly clouded till 5 ^h ; cir.-cum. dispersed; partially clouded from 18 ^h ; remainder of the day clear | 0·6 | 0·0 | 0·0 | 0·2 | 62·9 | 40·3 | — |
| 12 | Partially clouded till 6 ^h ; remainder of the day clouded; cir., cir.-strat., and haze; halos round the sun at 2 ^h , and round the moon at 8 ^h ; diameters about 30° and 40°, imperfect | 0·5 | 1·0 | 1·0 | 1·0 | 63·1 | 40·9 | — |
| 13 | Clouded all day; cir.-strat., cir.-cum., and haze; raining from 0 ^h till 11 ^h | 1·0 | 1·0 | — | — | 57·0 | 43·5 | 1·00 |
| 14 | Generally clouded till 11 ^h ; cir.-cum. and cir.-strat.; remainder of the day quite clear; showers during the day | — | — | 0·0 | 0·3 | 63·3 | 53·8 | 0·83 |
| 15 | Generally clear | 0·1 | 0·0 | 0·0 | 0·6 | 69·0 | 48·5 | — |
| 16 | Clear at 9 ^h and 10 ^h ; remainder of the day partially clouded; cir.-cum. dispersed | 0·5 | 0·0 | 0·6 | 1·0 | 68·5 | 34·0 | — |
| 17 | Generally clouded; cir.-cum., cum.-strat., and haze; thunder, lightning, and rain, accompanied by hail, from 19 ^h till 20 ^h | 1·0 | 0·5 | 0·4 | 0·8 | 57·6 | 37·7 | 0·08 |
| 18 | Mostly clouded till 1 ^h ; cum.-strat., cir.-cum., and haze; remainder of the day clear | 0·5 | 0·1 | 0·0 | 0·0 | 64·8 | 39·9 | — |
| 19 | Clear till 7 ^h ; remainder of the day clouded; cir.-strat., cir.-cum., and haze; heavy storm of lightning, thunder, and rain, from 22 ^h till 20 ^h 2 ^h | 0·3 | 1·0 | 1·0 | 1·0 | 74·5 | 46·2 | 1·02 |
| 20 | Storm ceased at 2 ^h ; mostly clouded; cir.-cum., cum.-strat., and haze; clear from 18 ^h | 1·0 | 0·3 | — | — | 63·0 | 46·2 | 0·05 |
| 21 | Generally clear; lightly clouded from 18 ^h | — | — | 0·0 | 0·3 | 58·0 | 40·9 | — |
| 22 | Generally clouded; cir.-cum. and haze; rain from 11 ^h till 18 ^h ; constant rain from 18 ^h till 23 ^h | 0·7 | 1·0 | 1·0 | 1·0 | 55·6 | 35·0 ^a | 0·10 |
| 23 | Clouded all day; cir.-cum., cum., and haze; slight rain at intervals from 18 ^h till 24 ^h | 1·0 | 1·0 | 0·8 | 1·0 | 55·4 | 35·9 | 0·88 |
| 24 | Generally clouded till 11 ^h ; cum.-strat., cir.-cum., and haze; remainder of the day nearly clear; aurora from 9 ^h till 15 ^h | 1·0 | 0·6 | 0·0 | 0·9 | 52·4 | 43·0 | — |
| 25 | In general clouded; cir.-cum. and haze; faint auroral light in N. at 9 ^h and 10 ^h | 1·0 | 0·6 | 1·0 | 1·0 | 52·0 | 41·7 | — |
| 26 | Clouded till 6 ^h ; cir.-cum. and cir.-strat.; and from 18 ^h ; remainder of the day clear; showery | 0·9 | 0·0 | 0·0 | 1·0 | 57·2 | 42·2 | 0·39 |
| 27 | Clouded till 2 ^h and at 6 ^h ; cir. and cir.-cum.; remainder of the day generally clear; slight rain from 20 ^h till 21 ^h | 0·3 | 0·0 | — | — | 59·7 | 36·0 | 0·03 |
| 28 | Partially clouded; dense cir.-cum. and haze | — | — | 1·0 | 0·1 | 58·0 | 38·7 | — |
| 29 | Partially clear till 2 ^h ; remainder of the day clouded; cir.-strat., cir., and haze; slight rain from 13 ^h till 22 ^h | 0·7 | 1·0 | 1·0 | 1·0 | 62·2 | 50·6 | 0·05 |
| 30 | Clouded till 9 ^h ; cir., cir.-cum., and haze; remainder of the day clear and clouded alternately; rain from 4 ^h till 7 ^h , and at 12 ^h | 1·0 | 1·0 | 0·0 | 0·5 | 69·8 | 56·0 | 0·61 |

^a Taken from the lowest reading of the Standard Thermometer.

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|--|-----------------------|-----|------|------|-------------------|-------------|-------|
| | | 3h. | 9h. | 15h. | 21h. | | | |
| | OCTOBER. | | | | | ° | ° | In. |
| D. | | | | | | | | |
| 1 | Clouded till 5 ^h ; cir.-cum. and cum.; remainder of the day mostly clear; slight rain at 4 ^h | 1.0 | 0.1 | 0.0 | 0.0 | 63.7 | 50.4 | — |
| 2 | Clouded all day with cir.-cum., cir.-strat., and haze; rain from 19 ^h till 20 ^h | 0.9 | 1.0 | 1.0 | 1.0 | 59.5 | 40.7 | — |
| 3 | Densely clouded all day; cir.-cum., cir., and haze; rain from 11 ^h till 17 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 59.6 | 46.0 | 0.24 |
| 4 | Clouded with cir.-cum., cir.-strat., and haze till 8 ^h ; remainder of the day partially clear | 1.0 | 0.4 | — | — | 56.8 | 49.9 | — |
| 5 | Clouded till 3 ^h ; cir.-cum., cum., and haze; showery; clear from 12 ^h | — | — | 0.0 | 0.1 | 58.2 | 45.8 | 0.13 |
| 6 | Generally clear all day | 0.3 | 0.0 | 0.3 | 0.5 | 59.5 | 30.7 | — |
| 7 | Mostly clouded; cir.-strat., cir., and haze; slight rain at 8 ^h and 9 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 50.3 | 33.7 | 0.08 |
| 8 | Clouded all day; cir.-cum. and haze; rain from 2 ^h till 11 ^h | 1.0 | 1.0 | 1.0 | 0.8 | 55.3 | 36.2 | 0.65 |
| 9 | Mostly clear from 2 ^h till 8 ^h , and from 12 ^h till 16 ^h ; remainder of the day clouded with cir.-cum. | 0.5 | 0.8 | 0.0 | 0.8 | 59.0 | 45.6 | — |
| 10 | Clouded all day; cir.-cum., cir.-strat., and haze; halo round the moon at 6 ^h , diameter 30°, imperfect | 1.0 | 1.0 | 1.0 | 1.0 | 63.3 | 46.1 | — |
| 11 | Clouded all day; cir.-cum., cum.-strat., and haze; rain from 7 ^h till 17 ^h | 1.0 | 1.0 | — | — | 59.8 | 46.1 | 0.20 |
| 12 | Generally clouded; cir.-cum., cir.-strat., and haze; occasional showers of rain | — | — | 1.0 | 0.0 | 56.2 | 44.7 | 0.27 |
| 13 | Mostly clear till 11 ^h ; remainder of the day clouded; cir.-cum. and haze; rain from 18 ^h till 20 ^h | 0.7 | 0.3 | 1.0 | 1.0 | 49.8 | 33.2 | 0.05 |
| 14 | Generally clouded till 10 ^h ; cir.-cum., cir.-strat., and haze; remainder of the day clear; slight snow at 23 ^h | 0.3 | 1.0 | 0.0 | 0.4 | 54.3 | 35.7 | — |
| 15 | Generally clear till 13 ^h ; clouded till 18 ^h ; cir.-cum. and haze; remainder of the day clear | 0.6 | 0.0 | 1.0 | 0.5 | 52.8 | 24.7 | — |
| 16 | Generally clear all day | 0.1 | 0.0 | 0.0 | 0.2 | 44.2 | 27.1 | — |
| 17 | Mostly clear till 14 ^h ; clouded till 21 ^h ; cir.-cum. and cum.-strat; remainder of the day clear | 0.0 | 0.0 | 0.7 | 0.0 | 47.7 | 29.4 | — |
| 18 | Clear till 1 ^h ; remainder of the day partially clouded; cir.-cum., cir.-strat., and haze | 0.5 | 0.6 | — | — | 51.8 | 32.2 | — |
| 19 | Generally clouded all day; cir.-cum. and haze | — | — | 1.0 | 1.0 | 58.1 | 34.7 | 0.07 |
| 20 | Clouded till 5 ^h ; cir.-strat. and haze; and from 18 ^h till 24 ^h ; cir.-cum. and cum.-strat.; remainder of the day clear; auroral light in N. from 13 ^h till 15 ^h | 1.0 | 0.0 | 0.0 | 1.0 | 64.0 | 38.0 | — |
| 21 | Generally clouded till 10 ^h ; cir.-cum. and cum.-strat.; and from 18 ^h till 22 ^h ; cir.-cum. and cir.-strat.; remainder of the day clear | 0.4 | 1.0 | 0.0 | 0.6 | 42.0 | 21.4 | — |
| 22 | Clear all day | 0.0 | 0.0 | 0.0 | 0.0 | 34.2 | 19.7 | — |
| 23 | Clear till 4 ^h ; remainder of the day clouded; cir.-cum. and haze | 0.0 | 0.7 | 1.0 | 0.0 | 40.9 | 21.3 | — |
| 24 | Quite clear till 22 ^h ; remainder of the day clouded; cir.-cum. and haze | 0.0 | 0.0 | 0.0 | 0.0 | 49.8 | 23.2 | — |
| 25 | Clouded all day; cir.-cum., cir.-strat., and haze | 1.0 | 1.0 | — | — | 54.3 | 33.2 | — |
| 26 | Overcast with cir. and haze till 13 ^h ; remainder of the day clear | — | — | 0.0 | 0.0 | 50.8 | 41.2 | — |
| 27 | Clear till 18 ^h ; remainder of the day clouded with cir.-cum. and haze | 0.0 | 0.0 | 0.0 | 0.2 | 52.8 | 35.9 | — |
| 28 | Clear all day | 0.0 | 0.0 | 0.0 | 0.0 | 60.3 | 37.9 | — |
| 29 | Clouded all day; cir.-cum., cir.-strat., and haze; sheet lightning at 6 ^h and 7 ^h | 0.4 | 1.0 | 1.0 | 1.0 | 60.1 | 35.2 | — |
| 30 | Clouded all day; cir.-cum., cir.-strat., and haze | 1.0 | 1.0 | 1.0 | 1.0 | 61.3 | 35.5 | — |
| 31 | Mostly clouded till 12 ^h ; remainder of the day clear; rain from 6 ^h till 7 ^h | 1.0 | 0.2 | 0.0 | 0.9 | 61.5 | 48.4 | 0.08 |
| | NOVEMBER. | | | | | | | |
| 1 | Overcast with cir.-cum., cir.-strat., and haze till 5 ^h ; remainder of the day clear | 0.2 | 0.0 | — | — | 56.8 | 47.2 | — |
| 2 | Densely overcast from 12 ^h ; a mixture of snow and rain from 12 ^h till 13 ^h ; raining moderately at 14 ^h | — | — | 1.0 | 1.0 | 59.5 | 33.7 | 0.30 |
| 3 | Clouded all day with slight exceptions; cir.-cum. and haze | 1.0 | 1.0 | 0.7 | 0.8 | 44.9 ^a | 34.5 | — |
| 4 | Clouded all day; cir.-cum., cir.-strat., and haze | 1.0 | 1.0 | 1.0 | 1.0 | 49.5 | 36.3 | — |
| 5 | Generally clouded; cum.-strat. and cir.-cum.; slight rain at 1 ^h 20 ^m | 1.0 | 0.6 | 1.0 | 1.0 | 45.2 | 39.1 | — |
| 6 | Clouded the greater portion of the day; cir.-cum. and cum.-strat.; slight rain from 0 ^h till 3 ^h | 1.0 | 0.4 | 1.0 | 1.0 | 44.7 | 39.2 | 0.17 |
| 7 | Clouded all day; cir.-cum., cir.-strat., and haze; rain from 11 ^h till 17 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 45.4 | 37.4 | 0.10 |
| 8 | Clouded all day; cir.-cum. and haze; sleet at 2 ^h ; slight snow at 7 ^h | 1.0 | 1.0 | — | — | 42.5 | 36.2 | 0.02 |
| 9 | Overcast with cir.-cum., cir.-strat., and haze | — | — | 1.0 | 1.0 | 37.6 | 27.4 | — |
| 10 | Clear from 4 ^h till 10 ^h ; remainder of the day clouded; cir.-cum., cir.-strat., and haze | 0.9 | 0.0 | 1.0 | 1.0 | 39.1 | 29.9 | — |
| 11 | Clouded all day; cir.-cum. and haze | 1.0 | 1.0 | 1.0 | 1.0 | 46.4 | 32.5 | — |
| 12 | Generally clouded; cir.-cum. and cir.-strat.; a few clear spaces occasionally | 0.7 | 1.0 | 0.9 | 0.9 | 43.9 | 28.7 | — |
| 13 | Clear from 4 ^h till 8 ^h , and from 12 ^h till 17 ^h ; remainder of the day generally clouded | 0.8 | 1.0 | 0.0 | 1.0 | 42.2 | 29.1 | — |
| 14 | Generally clouded cir.-cum. and cir.-strat. | 0.8 | 0.5 | 1.0 | 0.3 | 50.2 | 34.3 | — |
| 15 | Overcast with dense cir.-cum., cir.-strat., and haze | 0.6 | 1.0 | — | — | 53.0 | 30.7 | — |
| 16 | Unclouded at 14 ^h ; haze round horizon; overcast with light cir. and haze from 15 ^h ; raining from 21 ^h 45 ^m | — | — | 0.0 | 1.0 | 43.6 | 30.5 | 0.15 |
| 17 | Clouded all day; dense haze; rain continued till 4 ^h , and from 10 ^h till 12 ^h , and at 17 ^h | 1.0 | 1.0 | 1.0 | 1.0 | 59.3 | 35.9 | 0.11 |
| 18 | Clouded all day; cir.-cum. and haze; slight rain occasionally | 0.8 | 1.0 | 1.0 | 1.0 | 49.4 | 37.2 | 0.03 |
| 19 | Clear from 8 ^h till 12 ^h ; remainder of the day clouded; cir.-cum., cum., and haze | 1.0 | 0.0 | 1.0 | 1.0 | 53.7 | 45.2 | — |
| 20 | Mostly clouded; cir.-strat. and haze | 1.0 | 1.0 | 1.0 | 0.3 | 44.8 | 29.9 | — |
| 21 | Partially clouded; cir.-cum. and cir.-strat., with clear spaces | 0.6 | 0.3 | 0.4 | 1.0 | 53.8 | 34.7 | — |

^a Taken from the highest reading of the Standard Thermometer.

| Toronto Mean Time. | Weather and Phenomena. | Extent of Cloudy Sky. | | | | Max. Therm. | Min. Therm. | Rain. |
|--------------------|---|-----------------------|------------------|-------------------|-------------------|-------------|-------------|-------|
| | | 3 ^h . | 9 ^h . | 15 ^h . | 21 ^h . | | | |
| NOVEMBER. | | | | | | | | |
| D. 22 | Densely overcast with cir.-strat. and haze; particles of snow falling at 8 ^h and slight rain at 12 ^h | 1.0 | 1.0 | — | — | 38.9 | 27.0 | 0.24 |
| 23 | Clear and unclouded till 19 ^h ; clouded with cir.-cum. from 20 ^h | — | — | 0.0 | 1.0 | 39.6 | 30.5 | — |
| 24 | In general clouded; with cir.-cum. and haze | 0.4 | 1.0 | 1.0 | 1.0 | 34.5 | 21.6 | — |
| 25 | Clouded all day; cir.-strat., cir.-cum., and haze | 1.0 | 1.0 | 1.0 | 1.0 | 31.8 | 19.9 | — |
| 26 | Clouded all day; cir. and haze; snowing from 13 ^h till 23 ^h 15 ^m | 1.0 | 1.0 | 1.0 | 1.0 | 40.4 | 27.2 | — |
| 27 | Clouded till 5 ^h ; cir.-cum. and haze; partially clouded at 17 ^h ; remainder of the day clear | 1.0 | 0.0 | 0.3 | 0.5 | 32.9 | 22.7 | — |
| 28 | Partially clouded all day; cir.-cum. and cum., dispersed | 0.6 | 0.4 | 0.1 | 1.0 | 22.9 | 8.6 | — |
| 29 | Clouded with dense haze; constant moderate snow from 0 ^h till 2 ^h ; slight snow at 8 ^h | 1.0 | 1.0 | — | — | 18.2 | 8.1 | — |
| 30 | Clouded with dense haze; snow from 18 ^h | — | — | 1.0 | 1.0 | 24.2 | 15.7 | — |
| DECEMBER. | | | | | | | | |
| 1 | Clouded from 0 ^h till 14 ^h , and from 19 ^h ; cir.-strat. and haze; snow from 0 ^h till 4 ^h | 1.0 | 0.4 | 0.0 | 0.6 | 20.5 | 9.7 | — |
| 2 | Clouded from 0 ^h till 3 ^h , and from 16 ^h till 17 ^h ; cir.-cum. and cum.-strat.; remainder of the day generally clear | 0.7 | 0.0 | 0.2 | 1.0 | 22.9 | 10.5 | — |
| 3 | Clouded all day; cir.-cum. and haze; slight snow occasionally | 1.0 | 1.0 | 1.0 | 1.0 | 17.1 | -1.2 | — |
| 4 | Clouded all day; cir.-cum. and haze; slight snow occasionally | 1.0 | 1.0 | 1.0 | 0.1 | 28.2 | 9.8 | — |
| 5 | Generally clear till 13 ^h ; remainder of the day clouded; cir. and haze | 0.2 | 0.1 | 1.0 | 1.0 | 31.4 | 20.3 | — |
| 6 | Densely overcast with cir.-cum., cum.-strat., and haze | 1.0 | 1.0 | — | — | 26.7 | 19.8 | — |
| 7 | Densely overcast; snow falling occasionally | — | — | 1.0 | 1.0 | 27.7 | 18.4 | — |
| 8 | Clouded all day; cir.-cum. and haze | 1.0 | 1.0 | 1.0 | 1.0 | 25.9 | 17.7 | — |
| 9 | Generally clouded; cum.-strat., cir.-cum., and haze; slight snow and squalls occasionally | 1.0 | 1.0 | 0.5 | 0.9 | 32.5 | 25.4 | — |
| 10 | Generally clouded; cir.-cum. and cum.-strat.; a few clear spaces occasionally | 0.8 | 1.0 | 0.9 | 1.0 | 33.1 | 16.2 | — |
| 11 | Clouded all day; cir.-cum. and haze | 1.0 | 1.0 | 1.0 | 0.1 | 18.0 | 4.0 | — |
| 12 | Clouded till 7 ^h , and from 13 ^h till 17 ^h ; remainder of the day clear | 1.0 | 0.0 | 1.0 | 0.0 | 10.6 | -2.4 | — |
| 13 | Clouded from 5 ^h with cir.-cum. and haze; remainder of the day clear | 0.0 | 1.0 | — | — | 22.7 | -0.4 | — |
| 14 | Clouded with cir.-cum., cir.-strat., and haze | — | — | 0.4 | 1.0 | 39.2 | 13.2 | — |
| 15 | Clouded from 20 ^h , and partially clouded from 18 ^h ; remainder of the day clear | 0.1 | 0.0 | 0.0 | 0.9 | 39.7 | 31.2 | — |
| 16 | Clouded till 2 ^h ; partially clouded till 12 ^h ; cir.-cum. and cum.-strat.; remainder of the day clear; halos round the moon at 12 ^h and 16 ^h , diameters respectively 35° and 25°, perfect | 0.7 | 0.3 | 0.0 | 1.0 | 33.3 | 22.1 | — |
| 17 | Clouded all day; cir., cir.-cum., and haze; slight hail and drizzling rain occasionally | 1.0 | 1.0 | 1.0 | 1.0 | 34.4 | 19.9 | — |
| 18 | Generally clear; cir.-cum., cir.-strat., and haze, occasionally | 0.3 | 0.5 | 0.2 | 1.0 | 38.2 | 24.1 | — |
| 19 | Clouded till 12 ^h ; cir.-cum. and haze; remainder of the day nearly clear; snow occasionally | 1.0 | 1.0 | 0.1 | 1.0 | 35.2 | 6.5 | — |
| 20 | Clouded; cir.-strat. and haze; a few particles of snow at 8 ^h | 1.0 | 1.0 | — | — | 14.2 | 1.6 | — |
| 21 | Clouded from 18 ^h ; cir.-cum. and cir.-strat., dispersed; remainder of the day clear | — | — | 0.7 | 1.0 | 17.1 | 8.9 | — |
| 22 | Clouded till 5 ^h , and from 16 ^h till 17 ^h ; cir.-cum. and haze; remainder of the day clear | 1.0 | 0.0 | 0.0 | 1.0 | 20.7 | 10.3 | — |
| 23 | Clouded all day; cir.-cum. and haze | 0.9 | 1.0 | 1.0 | 1.0 | 20.7 | 9.1 | — |
| 24 | Clouded till 11 ^h with cir.-cum., cum.-strat., and haze; remainder of the day clear | 1.0 | 1.0 | — | — | 26.5 | 13.7 | — |
| 25 | Clouded at 17 ^h with cir.-cum., cum.-strat., and haze; remainder of the day clear | — | — | 0.0 | 0.0 | 28.7 | 18.2 | — |
| 26 | Generally clear | 0.1 | 0.0 | 0.0 | 0.6 | 27.0 | 12.0 | — |
| 27 | Clouded all day with cir.-cum., cir.-strat., and haze | 1.0 | 1.0 | — | — | 22.2 | 9.2 | — |
| 28 | Clouded throughout the day with cir.-cum., cir.-strat., and haze | — | — | 1.0 | 1.0 | 30.7 | 15.7 | — |
| 29 | The day was generally clouded; cir.-cum., cum.-strat. and haze | 1.0 | 1.0 | 1.0 | 1.0 | 34.6 | 25.0 | — |
| 30 | Generally clouded till 12 ^h ; cir.-cum., cum.-strat., and haze; remainder of the day clear | 1.0 | 1.0 | 0.0 | 1.0 | 35.5 | 28.2 | — |
| 31 | Generally clouded till 8 ^h ; cum.-strat. and haze; remainder of the day mostly clear | 1.0 | 0.0 | 0.3 | — | 37.6 | 9.2 | — |

TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed.
(Continued from the record for 1841, in the first part of the first volume of Observations on Days of Unusual Magnetic Disturbance.)

The H. F. magnet is said to be "considerably" or "very much" disturbed when it vibrates in an arc of 35 to 45 scale divisions; to be "much" disturbed when it vibrates in an arc of 20 to 35 divisions; "moderately" when in an arc of 10 to 20 divisions; and "slightly" when in an arc of 5 to 10 divisions. The same terms are used for the Declin. Magnet when it vibrates through half the above number of scale divisions. The times are Mean Toronto Time, astronomical reckoning.

| 1842. | | FEBRUARY. | |
|-----------|----|-----------|--|
| D. | H. | D. | H. |
| JANUARY. | | 18 | Dec. and H. F. mod. vib. and shocks. |
| 2 | 12 | 20 | Dec. and H. F. mod. vib. and shocks. |
| | 14 | 22 | H. F. much shocks and slight vib. |
| | 16 | 9 | 18 Dec. and H. F. mod. shocks. |
| | 18 | 10 | 10 H. F. slight vib. and shocks. |
| | 20 | 11 | 14 H. F. slight vib. |
| | 22 | 16 | H. F. slight vib. and shocks. |
| 7 | 14 | 13 | 20 H. F. mod. vib. and shocks. |
| | 18 | 22 | H. F. mod. vib. and shocks. |
| | 20 | 14 | 0 H. F. slight vib. and shocks. |
| 12 | 10 | 2 | Dec. mod. vib. and much shocks. |
| | 12 | 8 | Dec. and H. F. mod. vib.; V. F. slight vib. |
| | 14 | 10 | Dec. and V. F. slight vib.; H. F. considerable vib. and shocks. |
| | 16 | 12 | H. F. considerable vib. and shocks; V. F. mod. vib. |
| | 18 | 14 | H. F. mod. vib.; dec. slight vib. |
| | 20 | 16 | H. F. slight vib. |
| | 22 | 20 | H. F. slight vib. and shocks. |
| 13 | 0 | 22 | H. F. much shocks. |
| 16 | 16 | 15 | 6 H. F. slight shocks. |
| | 20 | 8 | H. F. mod. vib. and shocks. |
| 17 | 20 | 10 | H. F. mod. vib. and shocks; Dec. slight vib. and shocks. |
| | 2 | 16 | 12 Dec. mod. shocks; H. F. much vib. and shocks. |
| | 8 | 14 | Dec. slight vib.; H. F. much vib. |
| 20 | 20 | 16 | Dec. mod. shocks; H. F. mod. vib. and shocks. |
| | 22 | 18 | Dec. much shocks; H. F. much vib. |
| | 6 | 18 | 6 H. F. slight vib. |
| | 8 | 20 | Dec. and H. F. mod. shocks. |
| | 10 | 19 | 0 H. F. mod. shocks. |
| 21 | 12 | 2 | H. F. mod. vib. |
| | 14 | 20 | 12 H. F. slight vib. |
| | 16 | 14 | H. F. mod. vib. |
| | 18 | 20 | H. F. slight vib. and shocks. |
| | 20 | 22 | 14 H. F. mod. vib. |
| | 22 | 16 | Dec. slight vib. and shocks; H. F. mod. vib. and shocks. |
| 22 | 0 | 18 | H. F. mod. vib. and much shocks. |
| | 8 | 22 | H. F. slight vib. and shocks. |
| 23 | 12 | 24 | 0 H. F. much shocks. |
| | 14 | 6 | Dec. mod. shocks. |
| | 16 | 18 | Dec. and H. F. mod. vib. and shocks; V. F. mod. vib. |
| | 18 | 20 | Dec. and H. F. mod. shocks. |
| | 20 | 27 | 18 H. F. mod. vib. |
| | 22 | 20 | H. F. mod. shocks. |
| 26 | 12 | MARCH. | |
| | 14 | 1 | 4 H. F. slight shocks. |
| 31 | 14 | 22 | H. F. slight shocks. |
| | 22 | 4 | 16 Declination slightly vibrating; H. F. slight shocks. |
| FEBRUARY. | | 18 | Dec. H. F. and V. F. slightly vibrating. |
| 1 | 0 | 20 | Dec. and H. F. slightly vibrating and shocks; V. F. slightly vibrating |
| | 2 | 5 | 2 } H. F. slight shocks. |
| 7 | 18 | 4 | 4 } H. F. slight shocks. |
| | 20 | 7 | 2 H. F. slight shocks. |
| | 22 | 10 | 16 Dec. and H. F. slightly vibrating. |
| 8 | 0 | 11 | 14 } H. F. slightly vibrating, and shocks. |
| | 2 | 16 | H. F. moderately vibrating. |
| | 4 | 18 | H. F. slightly vibrating and shocks. |
| | 6 | 15 | 18 } H. F. slightly vibrating. |
| | 8 | 20 | 20 } Dec. slight shocks; H. F. slight vibrations and shocks. |
| | 10 | 20 | 14 H. F. moderately vibrating and slight shocks. |
| | 12 | 16 | H. F. slight shocks. |
| | 14 | 18 | Dec. and H. F. moderate shocks. |
| | 16 | 20 | Dec. moderate shocks; H. F. moderately vibrating and shocks. |
| | 18 | 22 | H. F. moderately vibrating. |
| | 20 | | |
| | 22 | | |

TIMES OF OBSERVATION *at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed*—continued.

| JULY. | | | AUGUST. | | |
|-------|----|--|-------------------------------------|----------------------|--|
| D. | H. | | D. | H. | |
| 9 | 9 | H. F. slight shocks. | 1 | 17 | Declin. and H. F. moderate vibration and shocks. |
| | 10 | | 18 | 18 | |
| | 11 | H. F. slight vibration and shocks. | | 19 | Declin. and H. F. moderate vibration and shocks. |
| 10 | 17 | Declin. slight vibrations; H. F. moderate vibration and shocks. | | 22 | |
| | 18 | | 2 | 17 | H. F. slight vibrations. |
| | 19 | Declin. slight vibration; H. F. much shocks. | | 19 | H. F. slight vibrations and shocks. |
| | 20 | H. F. moderate shocks. | | 19 | Declin. moderate; H. F. much shocks. |
| | 22 | Declin. and H. F. slight vibrations. | 4 | 13 | H. F. slight shocks. |
| | 23 | | | 14 | |
| 11 | 11 | Declin. slight shocks. | | 15 | H. F. slight shocks. |
| | 17 | Declin. and H. F. moderate shocks. | | 16 | |
| | 18 | H. F. moderate shocks. | | 20 | Declin. slight; H. F. much shocks. |
| | 19 | H. F. slight vibration. | 5 | 2 | H. F. slight vibrations. |
| 15 | 17 | | Declin. and H. F. slight vibration. | | 10 |
| | 18 | H. F. much vibration. | | 11 | H. F. slight shocks. |
| | 19 | H. F. slight vibration. | 6 | 5 | H. F. slight shocks. |
| | 20 | | | 6 | |
| | 21 | Declin. and H. F. slight shocks. | 8 | 4 | Declin. and H. F. slight shocks. |
| 17 | 17 | | | 6 | |
| | 18 | | 7 | H. F. slight shocks. | |
| 18 | 19 | H. F. moderate shocks. | | 8 | H. F. slight shocks. |
| | 22 | H. F. moderate shocks and slight vibrations. | 11 | 22 | H. F. slight vibrations. |
| | 23 | H. F. slight shocks. | 12 | 1 | H. F. slight shocks. |
| 19 | 13 | H. F. moderate shocks and slight vibrations. | | 9 | H. F. moderate vibrations. |
| | 14 | H. F. moderate vibrations and shocks. | 14 | 17 | H. F. moderate vibrations and shocks. |
| | 15 | | | 18 | |
| | 16 | H. F. moderate vibrations. | 15 | 1 | H. F. slight shocks. |
| | 17 | | | 4 | |
| | 18 | Declin. slight vibrations and shocks; H. F. moderate vibrations and shocks | 17 | 17 | Declin. and H. F. moderate shocks. |
| | 19 | | | 18 | Declin. and H. F. slight shocks. |
| | 20 | Declin. and H. F. moderate vibration and shocks. | | 19 | Declin. and H. F. much shocks. |
| 21 | 18 | H. F. much vibration. | 16 | 13 | H. F. slight vibrations and shocks. |
| 23 | 3 | H. F. moderate vibrations. | | 14 | H. F. slight shocks. |
| 24 | 15 | H. F. much vibration. | | 15 | |
| | 16 | Declin. and H. F. much vibration. | 17 | 10 | H. F. slight vibrations and shocks. |
| | 17 | Declin. moderate; H. F. much vibration and shocks; V. F. slight vibration. | | 11 | H. F. slight vibrations and moderate shocks. |
| | 18 | | | 18 | 5 |
| | 19 | H. F. moderate vibration. | | 6 | H. F. slight shocks. |
| | 20 | | | 7 | H. F. slight vibration and shocks. |
| 25 | 3 | H. F. moderate vibration. | 19 | 16 | H. F. slight vibrations. |
| | 14 | H. F. slight shocks. | 21 | 15 | Declin. slight; H. F. much vibrations and shocks. |
| | 15 | | | 16 | H. F. much vibration. |
| | 16 | Declin. and H. F. slight vibrations. | | 17 | Declin., H. F., and V. F. much vibrations. |
| | 17 | | | 18 | |
| | 18 | Declin. and H. F. moderate shocks | | 19 | Declin. and H. F. slight vibrations. |
| | 19 | | | 20 | H. F. slight vibrations. |
| 27 | 19 | Declin. and H. F. slight vibrations. | | 21 | H. F. slight vibrations. |
| | 20 | | | 22 | H. F. slight shocks. |
| | 22 | H. F. slight vibrations. | 22 | 12 | H. F. slight vibrations. |
| | 23 | | | 15 | |
| 28 | 18 | Declin. and H. F. slight shocks. | | 18 | Declin. and H. F. moderate vibrations and shocks; V. F. slight vibrations. |
| | 19 | Declin. and H. F. slight vibrations and shocks. | | 19 | Declin. and H. F. moderate vibrations and shocks. |
| | 20 | Declin. and H. F. slight shocks. | | 20 | Declin. and H. F. moderate shocks. |
| | 21 | | | 23 | 18 |
| | 22 | H. F. slight shocks. | | 19 | Declin. moderate; H. F. much shocks. |
| | 23 | | | 20 | Declin. slight; H. F. much shocks. |
| 29 | 19 | Declin. moderate shocks. | | 22 | Declin. and H. F. slight shocks. |
| | 31 | Declin. and H. F. slight shocks and moderate vibrations. | | 23 | |
| | 12 | | H. F. slight shocks. | 24 | 4 |
| | 13 | | | | 5 |
| | 14 | H. F. moderate vibrations and slight shocks. | | 17 | H. F. moderate vibrations and shocks. |
| | 15 | | | 18 | |
| | 16 | Declin. and H. F. moderate vibrations and shocks. | 25 | 3 | H. F. slight shocks. |
| | 17 | | | 26 | 2 |
| | 18 | Declin. moderate; H. F. much vibration and shocks. | | 3 | H. F. moderate vibrations. |
| | 19 | Declin. slight; H. F. moderate vibration and shocks. | 28 | 16 | H. F. slight shocks. |
| | 20 | | | 29 | 16 |
| | 21 | H. F. moderate shocks. | | 17 | Declin., H. F., and V. F. slight vibrations. |

TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed—continued.

| AUGUST. | | | SEPT. | | |
|---------|----|--|----------|----|--|
| D. | H. | | D. | H. | |
| 29 | 18 | Declin. slight; H. F. much vibration and shocks; V. F. vibrations. | 20 | 21 | Declin. and H. F. slight shocks. |
| | 19 | H. F. moderate vibrations and shocks. | | 22 | |
| 30 | 14 | Declin. slight vibrations; H. F. slight shocks. | 21 | 18 | H. F. much vibration. |
| | 15 | Declin. and H. F. slight vibrations. | 22 | 13 | H. F. much vibration. |
| | 16 | | | | |
| | 18 | H. F. moderate vibrations and shocks; Declin. moderate shocks. | | 14 | H. F. much vibration. |
| | 19 | H. F. moderate vibrations; much shocks. | | 15 | |
| | 20 | H. F. moderate vibrations and shocks. | | 16 | Declin. and H. F. moderate vibrations and shocks. |
| | | | | 17 | |
| | | | | 18 | Declin. slight; H. F. moderate vibrations and shocks. |
| | | | | 19 | Declin. and H. F. slight vibration and shocks. |
| | | | | 20 | |
| | | | | 21 | H. F. slight vibration and shocks. |
| | | | | 22 | |
| | | | 25 | 17 | H. F. moderate vibrations and shocks. |
| | | | | 18 | |
| | | | | 19 | Declin. and H. F. moderate shocks. |
| | | | | 26 | |
| | | | 28 | 16 | H. F. very much vibrations. |
| | | | | 17 | H. F. moderate vibrations and shocks. |
| | | | | 18 | H. F. moderate vibrations and shocks; V. F. slight vibrations. |
| | | | | 19 | H. F. moderate vibrations; much shocks; V. F. moderate vibrations. |
| | | | | 20 | Declin. and H. F. slight shocks. |
| | | | OCTOBER. | | |
| | | | 2 | 14 | H. F. slight vibration. |
| | | | | 20 | H. F. much shocks. |
| | | | 3 | 13 | H. F. slight vibration and shocks. |
| | | | | 14 | H. F. much vibration. |
| | | | | 15 | |
| | | | | 16 | Declin. and H. F. slight vibration and shocks. |
| | | | | 4 | |
| | | | | 14 | H. F. moderate vibrations and shocks. |
| | | | | 15 | |
| | | | | 16 | Declin. moderate; H. F. much vibration and shocks. |
| | | | | 17 | |
| | | | | 18 | H. F. moderate shocks. |
| | | | | 19 | |
| | | | | 20 | Declin. slight shocks; H. F. moderate vibration and shocks. |
| | | | 5 | 2 | H. F. slight vibration. |
| | | | | 3 | |
| | | | | 4 | Declin. moderate vibration and shocks. |
| | | | | 17 | |
| | | | | 18 | Declin. and H. F. slight; V. F. much vibration. |
| | | | | 20 | Declin. slight; H. F. much shocks. |
| | | | 6 | 17 | Declin. and H. F. moderate vibrations and shocks. |
| | | | | 18 | Decl. and H. F. moderate vibrations and shocks; V. F. moderate vibrations. |
| | | | | 19 | H. F. slight shocks. |
| | | | | 20 | H. F. moderate vibrations and shocks. |
| | | | 7 | 17 | V. F. moderate vibrations. |
| | | | 9 | 17 | Declin. slight; H. F. moderate vibration and shocks. |
| | | | | 18 | Declin. slight; H. F. and V. F. moderate vibrations. |
| | | | | 19 | |
| | | | | 20 | H. F. slight vibrations and shocks; V. F. slight vibrations. |
| | | | 11 | 17 | H. F. moderate shocks. |
| | | | | 18 | |
| | | | | 19 | H. F. moderate vibrations and shocks. |
| | | | | 20 | H. F. slight shocks. |
| | | | 12 | 14 | H. F. slight shocks. |
| | | | | 16 | H. F. slight vibrations and shocks. |
| | | | | 18 | H. F. slight vibrations and shocks. |
| | | | | 19 | |
| | | | | 20 | Declin. and H. F. moderate vibration and shocks; V. F. slight vibrations. |
| | | | 13 | 16 | H. F. slight vibrations and shocks. |
| | | | | 17 | Declin. and H. F. moderate shocks. |
| | | | | 18 | H. F. slight vibrations. |
| | | | | 19 | |
| | | | 14 | 11 | H. F. moderate shocks. |
| | | | | 12 | H. F. slight vibrations and shocks. |
| | | | | 19 | Declin. moderate shocks. |

TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed—continued.

| FEBRUARY. | | AUGUST. | |
|-----------|----|-----------|----|
| D. | H. | D. | H. |
| 1 | 19 | 2 | 4 |
| 2 | 1 | 8 | |
| 4 | 22 | 10 | |
| | 23 | 20 | |
| 6 | 1 | 4 | 16 |
| | 4 | 8 | 21 |
| 8 | 19 | 9 | 11 |
| | 20 | 12 | |
| 13 | 17 | 15 | |
| MARCH. | | 11 | 18 |
| 3 | 20 | 19 | |
| 5 | 19 | 20 | 14 |
| | 20 | 16 | |
| 7 | 1 | 23 | 15 |
| 13 | 20 | 18 | |
| | 21 | SEPT. | |
| 17 | 13 | 4 | 19 |
| | 14 | 26 | 18 |
| | 15 | 19 | |
| | 16 | 27 | 13 |
| | 17 | 29 | 13 |
| 18 | 5 | OCTOBER. | |
| | 8 | 6 | 16 |
| 22 | 16 | 17 | |
| APRIL. | | 18 | |
| 2 | 15 | 19 | |
| | 16 | 20 | |
| 17 | 12 | 21 | |
| | 13 | 7 | 17 |
| | 14 | 19 | |
| | 16 | 15 | 16 |
| | 17 | 27 | 18 |
| 26 | 0 | 19 | |
| | 1 | 20 | |
| | 5 | NOVEMBER | |
| 27 | 0 | 6 | 16 |
| | 1 | 12 | 13 |
| | 2 | 15 | 14 |
| 28 | 12 | 19 | |
| MAY. | | 20 | |
| 1 | 22 | 21 | |
| 2 | 1 | 22 | |
| | 4 | DECEMBER. | |
| | 7 | 2 | 3 |
| 8 | 6 | 26 | 20 |
| 20 | 20 | 21 | |
| | 21 | 22 | |
| 21 | 20 | 1845. | |
| | 21 | JANUARY. | |
| 26 | 12 | 16 | 5 |
| JUNE. | | 6 | |
| 5 | 16 | 7 | |
| 7 | 18 | 24 | 18 |
| 27 | 10 | 19 | |
| JULY. | | 20 | |
| 3 | 0 | 21 | |
| 12 | 6 | 22 | |
| AUGUST. | | 25 | 10 |
| 1 | 18 | 11 | |
| | 19 | 31 | 13 |
| 2 | 1 | | |

TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed—continued.

| JANUARY. | | | AUGUST. | | |
|-----------|----|--|-----------|----|---|
| D. | H. | | D. | H. | |
| 31 | 14 | } H. F. and V. F. very much vibration. | 1 | 18 | H. F. and V. F. much vibration. |
| | 15 | | 6 | 19 | H. F. moderate vibration. |
| | 16 | | 11 | 18 | H. F. much vibration. |
| FEBRUARY. | | | 12 | 18 | H. F. much vibration. |
| 4 | 13 | } H. F. slight shocks; V. F. slight vibration. | 14 | 11 | Declin. and Induc. Incln. slight vibration and shocks; H. F. moderate vibration and shocks. |
| | 14 | | 24 | 18 | } H. F. much vibration and shocks. |
| | 21 | Declin. and H. F. slight vibration. | 19 | | |
| | 22 | H. F. slight vibration. | 31 | 17 | Declin. and H. F. moderate vibration. |
| 12 | 11 | H. F. and V. F. moderate vibration. | | 18 | H. F. and V. F. moderate vibration. |
| | 12 | H. F. and V. F. much vibration. | SEPTEMBER | | |
| | 13 | H. F. moderate vibration. | 7 | 14 | Declin. slight vibration; H. F. much vibration. |
| 19 | 22 | H. F. and V. F. slight vibration. | | 17 | H. F. slight vibration. |
| 24 | 23 | Declin. and Inclinator slight vibration and shocks; H. F. moderate vibration and shocks. | | 18 | H. F. slight vibration. |
| | 0 | } Declin. and H. F. slight vibration and shocks. | 10 | 17 | H. F. moderate vibration. |
| | 1 | | | | 18 |
| 26 | 23 | Declin. and H. F. moderate shocks. | | 19 | H. F. moderate vibration and slight shocks. |
| MARCH. | | | 11 | 14 | H. F. much vibration. |
| 9 | 21 | H. F. moderate vibration. | | 15 | } H. F. moderate vibration. |
| 14 | 1 | } H. F. much vibration; Declin. slight vibration. | | 16 | |
| | 4 | | | | 17 |
| | 9 | H. F. slight vibration and shocks. | 18 | 13 | Declin. and V. F. moderate vibration. |
| | 10 | } H. F. slight vibration. | | 15 | } H. F. and V. F. slight vibration. |
| | 13 | | | | |
| | 14 | H. F. slight vibration and shocks. | | 17 | H. F. moderate vibration. |
| | 15 | } H. F. slight vibration. | | 18 | H. F. moderate vibration. |
| | 16 | | | | 19 |
| | 17 | H. F. much vibration. | 22 | 12 | |
| | 18 | H. F. moderate vibration. | | 13 | } H. F. much vibration. |
| | 19 | H. F. slight vibration; V. F. moderate vibration. | | 14 | |
| | 20 | } H. F. very much vibration; V. F. moderate vibration. | | 15 | H. F. slight vibration. |
| | 22 | | | 26 | 14 |
| 15 | 1 | H. F. moderate vibration. | OCTOBER. | | |
| APRIL. | | | 5 | 18 | H. F. moderate vibration. |
| 13 | 19 | H. F. moderate vibration. | 20 | 10 | H. F. slight vibration. |
| 14 | 0 | Declin. and Induc. Incln. moderate vibration. | | 13 | H. F. and V. F. slight vibration. |
| | 21 | H. F. moderate vibration. | | 15 | } H. F. moderate vibration. |
| | 22 | H. F. moderate vibration; Declin. slight vibration. | | 16 | |
| 15 | 0 | Declin. and H. F. moderate vibration. | NOVEMBER. | | |
| | 11 | V. F. moderate vibration. | 23 | 12 | H. F. moderate vibration. |
| MAY. | | | | 13 | H. F. slight vibration. |
| 14 | 17 | H. F. moderate vibration. | DECEMBER. | | |
| | 22 | H. F. much vibration. | 2 | 13 | } H. F. moderate vibrations. |
| | 23 | H. F. moderate vibration. | | 14 | |
| 21 | 15 | H. F. moderate vibration. | 18 | 16 | H. F. much vibration; V. F. moderate vibration. |
| 28 | 18 | H. F. slight vibration. | | 17 | H. F. moderate vibration. |
| | 19 | H. F. moderate vibration. | | 18 | } H. F. much vibration; V. F. moderate vibration. |
| | 20 | H. F. much vibration. | | 19 | |
| | 21 | H. F. moderate vibration. | | 20 | H. F. and V. F. moderate vibration. |
| JUNE. | | | | 21 | H. F. moderate vibration; V. F. slight vibration. |
| 5 | 18 | H. F. moderate vibration. | | 22 | H. F. moderate vibration. |
| 13 | 19 | H. F. slight vibration. | | 23 | } H. F. much vibration. |
| JULY. | | | | 0 | |
| 9 | 16 | } H. F. moderate vibration. | 19 | 0 | |
| | 17 | | | | 1 |
| | 19 | H. F. and V. F. moderate vibration. | | 2 | |
| 17 | 19 | H. F. and V. F. moderate vibration. | | 3 | H. F. much vibration. |
| 22 | 16 | H. F. and V. F. moderate vibration. | | 4 | H. F. moderate vibration. |
| 30 | 17 | H. F. moderate vibration. | | 5 | H. F. and V. F. slight vibration. |
| | 18 | H. F. much vibration. | | 7 | V. F. much vibration. |
| | | | | 11 | } H. F. moderate vibration. |
| | | | | 13 | |
| | | | | 14 | H. F. much vibration, and V. F. moderate vibration. |
| | | | | 15 | V. F. moderate vibration. |
| | | | 25 | 12 | } H. F. moderate vibration. |
| | | | | 13 | |

OBSERVATIONS OF THE MAGNETIC INCLINATION.

1843, 1844, and 1845.

Index to Initials of Observers.

| INITIALS. | NAMES. | INITIALS. | NAMES. |
|-------------|--|-----------|---|
| C. J. B. R. | Captain Riddell, <i>Royal Artillery.</i> | W. H. | Sergeant Henry, <i>Royal Artillery.</i> |
| J. H. L. | Captain Lefroy, ,, | W. McP. | Bombardier McPhun, ,, |
| C. W. Y. | Captain Younghusband, ,, | W. G. | Bombardier Grace, ,, |
| W. H. G. | Lieutenant Goodenough, ,, | J. L. | Corporal Lennon, ,, |
| J. J. | Sergeant Johnston, ,, | C. J. | Bombardier Jones, ,, |
| J. W. | Sergeant Walker, ,, | Liley. | Acting Bombardier Liley, ,, |
| T. M. | Corporal Menzies, ,, | W. T. | Corporal Thom, ,, |
| T. S. M. | Bombardier Malins, ,, | W. A. S. | Bombardier Stewart, ,, |

Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|-------------------|---|
| | | Face of Needle. | | | | Face of Needle. | | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | | |
| 1843. | | | | | | | | | | | | | |
| D. H. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 3 20 | T. S. M. | 73 53.5 | 76 08.2 | 74 22.3 | 75 51.4 | — | — | — | — | 13.5 | 75 17.3 | | |
| 4 4 | T. S. M. | 73 52.6 | 76 04.5 | 74 26.5 | 75 44.6 | 76 29.3 | 74 31.0 | 76 34.4 | 74 21.8 | — | 75 15.5 | | |
| 6 20 | W. H. | 73 52.6 | 76 06.2 | 74 24.0 | 75 39.8 | — | — | — | — | 14.8 | 75 15.4 | | |
| 7 4 | W. H. | 73 36.8 | 76 14.0 | 74 21.2 | 75 49.4 | 76 30.4 | 74 27.6 | 76 37.9 | 74 24.2 | — | 75 15.1 | | |
| 10 22 | J. J. | 73 42.2 | 76 13.9 | 74 16.0 | 75 46.0 | — | — | — | — | 15.7 | 75 15.2 | | |
| 11 4 | J. J. | 73 41.5 | 76 05.9 | 74 14.0 | 75 47.2 | 76 25.2 | 74 28.5 | 76 37.8 | 74 22.5 | — | 75 12.8 | | |
| 13 20 | J. J. | 73 43.6 | 76 04.9 | 74 15.9 | 75 45.6 | — | — | — | — | 15.9 | 75 13.4 | | |
| 14 4 | J. J. | 73 48.5 | 76 06.1 | 74 12.0 | 75 45.4 | 76 26.3 | 74 32.4 | 76 35.4 | 74 25.5 | — | 75 13.9 | | |
| 17 20 | J. W. | 73 32.6 | 76 04.4 | 74 04.5 | 75 41.4 | — | — | — | — | 22.8 | 75 13.5 | 75 14.5 | |
| 18 4 | J. W. | 73 33.3 | 76 02.0 | 74 09.5 | 75 37.7 | 76 45.9 | 74 35.4 | 76 38.2 | 74 25.8 | — | 75 13.4 | | |
| 20 20 | J. W. | 73 36.1 | 76 01.0 | 74 04.7 | 75 38.3 | — | — | — | — | 23.4 | 75 13.4 | | |
| 21 4 | J. W. | 73 34.5 | 75 58.5 | 74 07.0 | 75 38.2 | 76 43.6 | 74 33.7 | 76 39.3 | 74 29.1 | — | 75 12.9 | | |
| 24 20 | T. S. M. | 73 37.1 | 76 12.6 | 74 15.2 | 75 44.1 | — | — | — | — | 17.3 | 75 14.5 | | |
| 25 4 | T. S. M. | 73 36.1 | 76 11.3 | 74 11.2 | 75 46.2 | 76 30.5 | 74 28.1 | 76 37.6 | 74 27.1 | — | 75 13.5 | | |
| 27 20 | T. S. M. | 73 35.9 | 76 10.8 | 74 11.1 | 75 43.7 | — | — | — | — | 22.5 | 75 17.9 | | |
| 28 4 | T. S. M. | 73 31.1 | 76 06.3 | 74 00.0 | 75 53.8 | 76 36.7 | 74 48.1 | 76 40.6 | 74 25.8 | — | 75 15.3 | | |
| Jan. | | | | | | | | | | | | | |
| 31 21 | T. S. M. | 73 38.1 | 76 12.2 | 74 11.4 | 75 48.7 | — | — | — | — | 19.9 | 75 17.5 | | |
| 1 4 | T. S. M. | 73 32.2 | 76 13.1 | 74 12.1 | 75 45.9 | 76 38.1 | 74 38.4 | 76 40.9 | 74 25.4 | — | 75 15.7 | | |
| 3 20 | W. McP. | 73 32.7 | 76 07.7 | 74 05.8 | 75 44.1 | — | — | — | — | 24.6 | 75 17.2 | | |
| 4 4 | W. McP. | 73 33.5 | 76 06.2 | 74 01.3 | 75 43.1 | 76 38.3 | 74 43.3 | 77 00.2 | 74 19.4 | — | 75 15.6 | | |
| 7 20 | J. J. | 73 31.9 | 76 22.6 | 74 09.5 | 75 50.5 | — | — | — | — | 17.4 | 75 16.0 | | |
| 8 4 | J. J. | 73 35.3 | 76 13.9 | 74 09.9 | 75 48.7 | 76 25.4 | 74 38.7 | 76 32.0 | 74 30.6 | — | 75 14.3 | | |
| 10 20 | J. J. | 73 25.6 | 76 08.0 | 74 04.7 | 75 42.8 | — | — | — | — | 21.1 | 75 11.4 | | |
| 11 4 | J. J. | 73 29.0 | 76 04.5 | 74 03.2 | 75 47.8 | 76 30.0 | 74 44.9 | 76 28.5 | 74 29.7 | — | 75 12.2 | 75 15.2 | |
| 14 20 | J. W. | 73 28.9 | 76 04.1 | 74 03.8 | 75 42.7 | — | — | — | — | 24.9 | 75 14.6 | | |
| 15 4 | J. W. | 73 27.4 | 76 03.1 | 74 03.0 | 75 45.5 | 76 42.9 | 74 39.6 | 76 45.5 | 74 30.1 | — | 75 14.6 | | |
| 17 20 | J. W. | 73 26.1 | 75 59.6 | 74 02.4 | 75 43.3 | — | — | — | — | 26.6 | 75 14.4 | | |
| 18 4 | J. W. | 73 29.6 | 75 57.3 | 74 02.3 | 75 38.3 | 76 45.4 | 74 37.2 | 76 51.6 | 74 26.3 | — | 75 13.5 | | |
| 21 20 | T. S. M. | 73 31.4 | 76 05.4 | 74 11.1 | 75 39.6 | — | — | — | — | 23.9 | 75 15.8 | | |
| 22 4 | T. S. M. | 73 27.6 | 76 02.4 | 74 13.6 | 75 37.4 | 76 33.5 | 74 48.1 | 76 41.8 | 74 28.9 | — | 75 14.1 | | |
| 24 20 | T. S. M. | 73 24.4 | 76 11.5 | 74 06.8 | 75 46.3 | — | — | — | — | 25.5 | 75 17.7 | | |
| 25 4 | T. S. M. | 73 20.3 | 76 10.3 | 74 01.7 | 75 41.0 | 76 35.2 | 74 48.3 | 76 45.1 | 74 29.2 | — | 75 13.8 | | |
| Feb. | | | | | | | | | | | | | |
| 28 20 | W. McP. | 73 28.9 | 76 05.9 | 74 05.8 | 75 41.1 | — | — | — | — | 25.7 | 75 16.1 | | |
| 1 4 | W. McP. | 73 25.3 | 76 02.9 | 74 06.5 | 75 41.2 | 76 50.8 | 74 33.9 | 76 55.0 | 74 21.4 | — | 75 14.6 | | |
| 3 20 | W. McP. | 73 35.6 | 76 03.7 | 74 05.3 | 75 42.4 | — | — | — | — | 25.2 | 75 17.0 | | |
| 4 4 | W. McP. | 73 25.6 | 76 03.9 | 74 03.0 | 75 35.8 | 76 43.1 | 74 29.4 | 76 54.9 | 74 22.6 | — | 75 12.3 | | |
| 7 20 | J. J. | 73 25.0 | 76 05.0 | 73 55.2 | 75 40.6 | — | — | — | — | 25.0 | 75 11.5 | | |
| 8 4 | J. J. | 73 29.0 | 76 02.6 | 74 03.2 | 75 42.8 | 76 43.5 | 74 35.7 | 76 46.7 | 74 32.3 | — | 75 14.4 | | |
| 10 20 | J. J. | 73 25.7 | 76 05.2 | 74 02.6 | 75 41.8 | — | — | — | — | 25.9 | 75 14.7 | | |
| 11 4 | J. J. | 73 25.9 | 76 05.6 | 73 57.4 | 75 42.1 | 76 40.5 | 74 42.5 | 76 40.2 | 74 35.0 | — | 75 13.6 | | |
| 14 20 | J. W. | 73 24.4 | 75 58.0 | 73 57.0 | 75 37.7 | — | — | — | — | 27.7 | 75 12.0 | | |
| 15 4 | J. W. | 73 30.3 | 75 57.7 | 73 57.5 | 75 32.8 | 76 38.9 | 74 46.2 | 76 41.9 | 74 32.9 | — | 75 12.3 | 75 14.1 | |
| 17 20 | J. W. | 73 24.4 | 75 59.0 | 74 01.1 | 75 33.6 | — | — | — | — | 28.7 | 75 13.2 | | |
| 18 4 | J. W. | 73 24.0 | 76 01.0 | 74 03.5 | 75 37.3 | 76 39.3 | 74 53.1 | 76 46.6 | 74 36.6 | — | 75 15.1 | | |
| 21 20 | T. S. M. | 73 19.6 | 76 06.8 | 73 56.2 | 75 40.1 | — | — | — | — | 28.7 | 75 14.4 | | |
| 22 4 | T. S. M. | 73 16.2 | 76 05.0 | 73 55.0 | 75 39.6 | 76 43.5 | 74 40.5 | 76 49.3 | 74 31.8 | — | 75 12.6 | | |
| 24 20 | T. S. M. | 73 20.6 | 76 04.2 | 73 56.3 | 75 39.4 | — | — | — | — | 29.1 | 75 14.2 | | |
| 25 4 | T. S. M. | 73 20.9 | 76 02.4 | 73 58.2 | 75 41.0 | 76 45.4 | 74 45.5 | 76 55.0 | 74 29.5 | — | 75 14.7 | | |
| 28 20 | W. McP. | 73 22.9 | 76 03.1 | 73 56.0 | 75 44.8 | — | — | — | — | 30.9 | 75 17.6 | | |
| 29 4 | W. McP. | 73 19.7 | 75 59.5 | 73 55.7 | 75 41.1 | 76 45.9 | 74 50.6 | 77 00.2 | 74 27.0 | — | 75 14.9 | | |

Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|-------------------|-----------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | | |
| 1843. | | | | | | | | | | | | | |
| April. | | | | | | | | | | | | | |
| D. H. | | | | | | | | | | | | | |
| 31 20 | W. M ^c P. | 73 21.6 | 76 02.4 | 73 50.8 | 75 47.2 | — | — | — | — | 29.9 | 75 15.4 | } 75 13.3 | |
| 1 4 | W. M ^c P. | 73 17.8 | 76 03.7 | 73 52.6 | 75 39.7 | 76 44.1 | 74 42.8 | 76 54.1 | 74 31.9 | — | 75 13.3 | | |
| 4 20 | J. J. | 73 20.5 | 76 03.0 | 73 51.2 | 75 45.9 | — | — | — | — | 29.4 | 75 14.5 | | |
| 5 4 | J. J. | 73 19.5 | 76 03.7 | 73 56.0 | 75 45.0 | 76 44.5 | 74 47.5 | 76 55.0 | 74 32.4 | — | 75 15.4 | | |
| 7 20 | J. J. | 73 19.2 | 76 05.6 | 73 56.7 | 75 42.2 | — | — | — | — | 32.1 | 75 18.0 | | |
| 8 4 | J. J. | 73 18.2 | 76 11.5 | 73 50.2 | 75 32.0 | 76 48.5 | 74 49.0 | 76 47.5 | 74 44.0 | — | 75 15.1 | | |
| 11 20 | J. W. | 73 22.5 | 75 58.0 | 73 45.3 | 75 40.5 | — | — | — | — | 31.7 | 75 13.3 | | |
| 12 4 | J. W. | 73 22.3 | 75 59.2 | 73 48.5 | 75 37.3 | 76 44.1 | 74 44.7 | 76 54.6 | 74 37.8 | — | 75 13.5 | | |
| 14 20 | J. W. | 73 20.0 | 75 59.2 | 73 47.0 | 75 36.1 | — | — | — | — | 31.7 | 75 12.3 | | |
| 15 4 | J. W. | 73 22.8 | 75 56.9 | 73 47.1 | 75 36.4 | 76 45.5 | 74 44.0 | 76 55.0 | 74 32.8 | — | 75 12.5 | | |
| 18 20 | J. W. | 73 12.0 | 75 57.6 | 73 48.5 | 75 30.6 | — | — | — | — | 34.3 | 75 11.5 | | |
| 19 4 | J. W. | 73 14.2 | 76 00.0 | 73 44.7 | 75 33.4 | 76 49.5 | 74 47.9 | 76 57.0 | 74 32.7 | — | 75 12.4 | | |
| 21 20 | W. M ^c P. | 73 18.8 | 76 00.0 | 73 43.0 | 75 37.5 | — | — | — | — | 32.3 | 75 12.1 | | |
| 22 4 | W. M ^c P. | 73 19.0 | 76 00.4 | 73 50.0 | 75 36.7 | 76 47.2 | 74 43.9 | 76 57.4 | 74 36.1 | — | 75 13.8 | | |
| 25 20 | J. W. | 73 00.5 | 75 51.6 | 73 52.3 | 75 31.5 | — | — | — | — | 37.1 | 75 11.1 | | |
| 26 4 | J. W. | 73 05.6 | 75 45.7 | 73 53.1 | 75 34.9 | 76 47.2 | 74 44.8 | 76 56.2 | 74 48.2 | — | 75 11.9 | | |
| 28 20 | J. W. | 73 13.0 | 75 45.0 | 73 51.6 | 75 33.8 | — | — | — | — | 35.3 | 75 11.1 | | |
| 29 4 | J. W. | 73 13.7 | 75 50.7 | 73 49.5 | 75 33.8 | 76 45.8 | 74 48.9 | 76 51.1 | 74 44.7 | — | 75 12.2 | | |
| May. | | | | | | | | | | | | | |
| 2 20 | T. S. M. | 73 15.0 | 76 02.3 | 73 47.1 | 75 28.2 | — | — | — | — | 36.9 | 75 15.0 | | } 75 14.4 |
| 3 4 | T. S. M. | 73 13.4 | 75 58.7 | 73 50.7 | 75 32.6 | 76 57.5 | 74 49.4 | 77 07.3 | 74 36.7 | — | 75 15.7 | | |
| 5 20 | T. S. M. | 73 09.9 | 76 01.3 | 73 45.8 | 75 34.6 | — | — | — | — | 34.3 | 75 12.2 | | |
| 6 4 | T. S. M. | 73 09.8 | 75 59.9 | 73 46.9 | 75 31.2 | 76 50.8 | 74 44.9 | 76 59.4 | 74 26.9 | — | 75 11.2 | | |
| 9 20 | W. M ^c P. | 73 23.3 | 76 02.4 | 73 44.9 | 75 39.7 | — | — | — | — | 30.9 | 75 13.5 | | |
| 10 4 | W. M ^c P. | 73 23.5 | 75 53.3 | 73 59.0 | 75 40.0 | 76 46.9 | 74 49.7 | 76 59.0 | 74 27.0 | — | 75 14.8 | | |
| 12 20 | W. M ^c P. | 73 29.3 | 76 04.1 | 73 46.3 | 75 42.0 | — | — | — | — | 35.0 | 75 20.4 | | |
| 13 4 | W. M ^c P. | 73 29.5 | 75 57.0 | 73 40.1 | 75 30.5 | 76 55.2 | 74 45.3 | 77 00.0 | 74 36.7 | — | 75 14.3 | | |
| 16 20 | J. W. | 73 25.0 | 75 53.3 | 73 49.2 | 75 26.7 | — | — | — | — | 37.4 | 75 15.9 | | |
| 17 4 | J. W. | 73 22.7 | 75 47.8 | 73 49.1 | 75 27.6 | 76 42.4 | 74 50.4 | 77 03.8 | 74 49.8 | — | 75 14.2 | | |
| 19 20 | J. W. | 73 28.3 | 76 04.8 | 73 55.8 | 75 36.2 | — | — | — | — | 24.0 | 75 10.3 | | |
| 20 4 | J. W. | 73 28.0 | 76 04.8 | 73 55.0 | 75 42.0 | 76 33.8 | 74 29.6 | 76 46.0 | 74 32.1 | — | 75 11.4 | | |
| 23 20 | T. S. M. | 73 31.5 | 75 58.0 | 74 05.8 | 75 47.8 | — | — | — | — | 25.3 | 75 16.1 | | |
| 24 4 | T. S. M. | 73 02.7 | 76 14.0 | 73 57.1 | 75 49.9 | 76 38.5 | 74 28.5 | 76 55.0 | 74 24.0 | — | 75 11.2 | | |
| 26 20 | T. S. M. | 73 14.9 | 76 13.8 | 74 09.7 | 75 53.8 | — | — | — | — | 26.0 | 75 19.0 | | |
| 27 4 | T. S. M. | 73 24.7 | 76 10.0 | 73 58.3 | 75 42.5 | 76 37.7 | 74 34.5 | 76 49.8 | 74 41.5 | — | 75 14.9 | | |
| 30 20 | W. M ^c P. | 73 20.4 | 76 04.3 | 73 51.7 | 75 37.4 | — | — | — | — | 29.7 | 75 13.2 | | |
| 31 4 | W. M ^c P. | 73 11.3 | 76 07.8 | 74 01.4 | 75 44.9 | 76 48.5 | 74 46.0 | 76 49.4 | 74 38.8 | — | 75 16.0 | | |
| June. | | | | | | | | | | | | | |
| 2 20 | W. M ^c P. | 73 24.4 | 76 03.4 | 73 46.3 | 75 39.9 | — | — | — | — | 31.4 | 75 14.9 | } 75 13.4 | |
| 3 4 | W. M ^c P. | 73 24.6 | 75 58.4 | 73 57.7 | 75 36.5 | 76 50.9 | 74 50.3 | 76 59.6 | 74 28.0 | — | 75 15.7 | | |
| 6 20 | J. W. | 73 25.4 | 76 03.4 | 73 51.2 | 75 45.2 | — | — | — | — | 29.6 | 75 15.9 | | |
| 7 4 | J. W. | 73 24.2 | 76 05.8 | 73 42.9 | 75 37.1 | 76 38.1 | 74 35.7 | 76 45.2 | 74 47.8 | — | 75 12.1 | | |
| 9 20 | J. W. | 73 26.2 | 76 04.0 | 73 54.0 | 75 46.9 | — | — | — | — | 24.5 | 75 12.3 | | |
| 10 4 | J. W. | 73 27.7 | 76 03.8 | 73 52.4 | 75 44.2 | 76 37.0 | 74 34.6 | 76 46.2 | 74 26.4 | — | 75 11.5 | | |
| 13 20 | T. S. M. | 73 16.8 | 76 03.1 | 73 50.0 | 75 35.4 | — | — | — | — | 29.7 | 75 11.0 | | |
| 14 4 | T. S. M. | 73 15.0 | 76 06.2 | 73 49.0 | 75 29.0 | 76 46.9 | 74 32.9 | 76 53.0 | 74 24.0 | — | 75 09.5 | | |
| 16 20 | T. S. M. | 73 23.8 | 76 05.3 | 73 54.1 | 75 42.7 | — | — | — | — | 28.4 | 75 14.9 | | |
| 17 4 | T. S. M. | 73 23.0 | 76 06.8 | 73 53.9 | 75 38.3 | 76 46.9 | 74 35.5 | 77 03.2 | 74 24.2 | — | 75 13.9 | | |
| 20 20 | W. M ^c P. | 73 24.8 | 76 02.3 | 73 43.6 | 75 39.7 | — | — | — | — | 30.8 | 75 13.4 | | |
| 21 4 | W. M ^c P. | 73 21.7 | 75 54.9 | 74 00.5 | 75 40.5 | 76 47.8 | 74 47.9 | 77 00.2 | 74 27.9 | — | 75 15.2 | | |
| 23 20 | W. M ^c P. | 73 24.5 | 76 05.5 | 73 41.0 | 75 40.5 | — | — | — | — | 29.4 | 75 12.3 | | |
| 24 4 | W. M ^c P. | 73 26.7 | 75 52.6 | 74 05.4 | 75 39.8 | 76 47.6 | 74 48.2 | 76 57.0 | 74 26.9 | — | 75 15.5 | | |
| 27 20 | J. W. | 73 22.1 | 75 57.8 | 73 15.2 | 75 31.3 | — | — | — | — | 40.6 | 75 12.2 | | |
| 28 4 | J. W. | 73 26.0 | 75 59.0 | 73 14.2 | 75 37.7 | 76 52.1 | 74 27.9 | 77 55.2 | 74 26.8 | — | 75 14.8 | | |

Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. | | |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--|--------------|-------------------|-----------|-----------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | | | | |
| 1843. | | | | | | | | | | | | | | |
| June | D. H. | | | | | | | | | | | | | |
| 30 | 20 | J. W. | 73 30.4 | 76 00.3 | 73 20.6 | 75 43.0 | — | — | — | — | 39.1 | 75 17.7 | } 75 14.5 | |
| 1 | 4 | J. W. | 73 33.4 | 76 00.9 | 73 19.8 | 75 38.0 | 76 51.2 | 74 48.4 | 77 22.8 | 74 42.9 | — | 75 17.1 | | |
| 4 | 20 | T. S. M. | 73 30.9 | 76 06.9 | 73 35.7 | 75 43.3 | — | — | — | — | 30.5 | 75 14.7 | | |
| 5 | 4 | T. S. M. | 73 26.7 | 76 04.5 | 73 27.0 | 75 38.7 | 76 34.1 | 74 28.6 | 77 02.5 | 74 35.5 | — | 75 09.7 | | |
| 7 | 20 | T. S. M. | 73 26.9 | 75 59.1 | 73 29.1 | 75 38.0 | — | — | — | — | 34.1 | 75 12.4 | | |
| 8 | 4 | T. S. M. | 73 23.7 | 76 00.2 | 73 38.4 | 75 35.0 | 76 46.9 | 74 36.5 | 76 51.8 | 74 55.4 | — | 75 13.4 | | |
| 11 | 20 | W. McP. | 73 27.9 | 76 07.5 | 73 39.2 | 75 43.3 | — | — | — | — | 33.3 | 75 17.8 | | |
| 12 | 4 | W. McP. | 73 28.2 | 76 03.8 | 73 39.8 | 75 29.6 | 76 50.6 | 74 48.5 | 76 39.1 | 74 49.6 | — | 75 13.6 | | |
| 14 | 20 | W. McP. | 73 22.8 | 76 04.4 | 73 45.0 | 75 39.9 | — | — | — | — | 33.9 | 75 16.9 | | |
| 15 | 4 | W. McP. | 73 15.5 | 76 06.6 | 73 43.6 | 75 35.7 | 76 49.1 | 74 35.9 | 76 53.6 | 74 53.6 | — | 75 14.2 | | |
| 18 | 20 | J. W. | 73 24.6 | 76 03.5 | 73 34.8 | 75 30.7 | — | — | — | — | 31.7 | 75 10.1 | | |
| 19 | 4 | J. W. | 73 31.2 | 76 00.4 | 73 35.0 | 75 35.8 | 76 43.4 | 74 36.4 | 76 45.8 | 74 50.9 | — | 75 12.3 | | |
| 21 | 20 | J. W. | 73 23.8 | 76 01.9 | 73 37.6 | 75 34.6 | — | — | — | — | 32.6 | 75 12.1 | | |
| 22 | 4 | J. W. | 73 44.8 | 76 02.5 | 73 32.5 | 75 31.2 | 76 46.1 | 74 32.4 | 76 55.8 | 74 57.3 | — | 75 15.3 | | |
| 25 | 20 | T. S. M. | 73 37.9 | 76 08.7 | 73 34.0 | 75 38.2 | — | — | — | — | 35.6 | 75 20.3 | | |
| 26 | 4 | T. S. M. | 73 24.6 | 75 59.2 | 63 30.1 | 75 34.8 | 76 46.7 | 74 40.6 | 76 52.9 | 74 53.8 | — | 75 12.8 | | |
| 28 | 20 | T. S. M. | 73 25.1 | 76 00.6 | 73 35.4 | 75 40.9 | — | — | — | — | 36.0 | 75 16.5 | | |
| 29 | 4 | T. S. M. | 73 20.0 | 75 57.6 | 73 38.2 | 75 40.5 | 76 47.2 | 74.47.3 | 76.56.5 | 74 53.1 | — | 75 15.0 | | |
| July | | | | | | | | | | | | | | |
| 1 | 20 | W. McP. | 73 25.5 | 75 44.7 | 73 40.9 | 75 43.0 | — | — | — | — | 38.1 | 75 16.6 | | } 75 14.8 |
| 2 | 4 | W. McP. | 73 20.5 | 75 38.2 | 73 40.4 | 75 41.6 | 76 52.0 | 74 34.1 | 76 52.6 | 75 07.0 | — | 75 13.3 | | |
| 4 | 20 | W. McP. | 73 29.8 | 76 00.0 | 73 29.9 | 75 39.6 | — | — | — | — | 33.9 | 75 13.7 | | |
| 5 | 4 | W. McP. | 73 25.3 | 76 01.2 | 73 46.0 | 75 30.9 | 76 52.0 | 74 37.3 | 76 58.5 | 74 46.5 | — | 75 14.7 | | |
| 8 | 20 | J. W. | 73 14.8 | 76 01.8 | 73 37.3 | 75 37.0 | — | — | — | — | 35.4 | 75 13.1 | | |
| 9 | 4 | J. W. | 73 19.8 | 75 57.3 | 73 37.6 | 75 38.4 | 76 48.6 | 74 36.7 | 76 58.1 | 74 52.9 | — | 75 13.7 | | |
| 11 | 20 | J. W. | 73 18.4 | 75 56.8 | 73 35.8 | 75 36.5 | — | — | — | — | 37.9 | 75 14.8 | | |
| 12 | 4 | J. W. | 73 20.0 | 75 54.8 | 73 33.2 | 75 37.2 | 76 51.9 | 74 39.4 | 77 03.6 | 74 54.0 | — | 75 14.2 | | |
| 15 | 20 | T. S. M. | 73 23.8 | 75 58.0 | 73 30.3 | 75 46.0 | — | — | — | — | 35.1 | 75 14.6 | | |
| 16 | 4 | T. S. M. | 73 17.6 | 75 50.9 | 73 41.6 | 75 47.5 | 76 54.6 | 74 32.0 | 76 58.7 | 74 53.6 | — | 75 14.5 | | |
| 18 | 20 | T. S. M. | 73 16.4 | 76 13.3 | 73 33.5 | 75 33.4 | — | — | — | — | 37.6 | 75 16.7 | | |
| 19 | 4 | T. S. M. | 73 16.0 | 76 08.3 | 73 23.6 | 75 29.9 | 76 50.8 | 74 39.4 | 76 51.2 | 74 57.3 | — | 75 12.0 | | |
| 22 | 20 | W. McP. | 73 21.0 | 75 50.4 | 73 38.0 | 75 22.3 | — | — | — | — | 41.4 | 75 14.3 | | |
| 23 | 4 | W. McP. | 73 21.3 | 75 53.5 | 73 36.9 | 75 10.5 | 76 55.5 | 74 40.7 | 77 03.4 | 74 53.7 | — | 75 11.9 | | |
| 25 | 20 | W. McP. | 73 18.6 | 76 03.5 | 73 37.0 | 75 38.8 | — | — | — | — | 41.4 | 75 20.9 | | |
| 26 | 4 | W. McP. | 73 15.3 | 76 07.2 | 73 19.8 | 75 23.5 | 76 54.4 | 74 44.0 | 76 55.0 | 75 03.9 | — | 75 12.8 | | |
| 29 | 20 | J. W. | 73 18.6 | 75 57.0 | 73 31.8 | 75 36.2 | — | — | — | — | 42.0 | 75 17.9 | | |
| 30 | 4 | J. W. | 73 15.8 | 75 55.2 | 73 33.7 | 75 38.4 | 76 51.6 | 74 40.0 | 77 03.3 | 75 24.4 | — | 75 17.8 | | |
| August | | | | | | | | | | | | | | |
| 1 | 20 | J. W. | 73 19.0 | 75 55.0 | 73 36.4 | 75 38.3 | — | — | — | — | 39.6 | 75 16.8 | } 75 15.3 | |
| 2 | 4 | J. W. | 73 16.3 | 75 54.4 | 73 37.2 | 75 36.0 | 76 53.7 | 74 51.2 | 76 59.5 | 74 56.9 | — | 75 15.6 | | |
| 5 | 20 | T. S. M. | 73 20.0 | 75 58.4 | 73 45.5 | 75 34.2 | — | — | — | — | 36.4 | 75 15.9 | | |
| 6 | 4 | T. S. M. | 73 15.8 | 75 55.5 | 73 44.1 | 75 44.5 | 76 58.8 | 74 37.5 | 76 57.4 | 74 58.0 | — | 75 16.4 | | |
| 8 | 20 | T. S. M. | 73 17.0 | 75 54.8 | 73 40.4 | 75 40.0 | — | — | — | — | 40.3 | 75 18.3 | | |
| 9 | 4 | T. S. M. | 73 18.4 | 75 53.0 | 73 39.0 | 75 41.4 | 76 57.5 | 74 54.1 | 77 00.5 | 75 01.7 | — | 75 18.2 | | |
| 12 | 20 | W. McP. | 73 31.1 | 76 15.5 | 74 10.2 | 75 52.0 | — | — | — | — | 18.0 | 75 15.2 | | |
| 13 | 4 | W. McP. | 73 34.6 | 76 14.7 | 74 09.2 | 75 48.4 | 76 25.6 | 74 40.0 | 76 35.5 | 74 29.6 | — | 75 14.7 | | |
| 15 | 20 | W. McP. | 73 20.0 | 75 40.6 | 73 51.3 | 75 36.1 | — | — | — | — | 38.7 | 75 15.7 | | |
| 16 | 4 | W. McP. | 73 19.0 | 75 51.5 | 73 44.0 | 75 36.2 | 76 59.0 | 74 39.2 | 77 04.3 | 74 58.3 | — | 75 16.4 | | |
| 19 | 20 | J. W. | 73 18.6 | 75 53.6 | 73 37.4 | 75 36.2 | — | — | — | — | 36.1 | 75 12.5 | | |
| 20 | 4 | J. W. | 73 19.6 | 75 49.6 | 73 39.4 | 75 33.8 | 76 57.7 | 74 49.5 | 77 05.6 | 74 18.5 | — | 75 11.7 | | |
| 22 | 20 | J. W. | 73 17.8 | 75 54.0 | 73 40.0 | 75 34.4 | — | — | — | — | 36.3 | 75 12.8 | | |
| 23 | 4 | J. W. | 73 16.4 | 75 53.8 | 73 35.6 | 75 33.2 | 76 56.6 | 74 43.9 | 77 04.0 | 74 25.1 | — | 75 11.0 | | |
| 26 | 20 | T. S. M. | 73 22.2 | 75 54.3 | 73 42.3 | 75 42.0 | — | — | — | — | 36.8 | 75 17.0 | | |
| 27 | 4 | T. S. M. | 73 21.0 | 76 09.0 | 73 42.3 | 75 26.5 | 76 59.6 | 74 42.0 | 77 00.6 | 74 50.9 | — | 75 16.5 | | |
| 29 | 20 | T. S. M. | 73 22.5 | 75 58.4 | 73 45.6 | 75 33.6 | — | — | — | — | 36.4 | 75 16.4 | | |
| 30 | 4 | T. S. M. | 73 23.6 | 75 58.5 | 73 42.2 | 75 29.3 | 77 03.9 | 74 37.4 | 76 55.4 | 74 48.2 | — | 75 14.8 | | |

Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | | |
| 1843. | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 3 20 | W. McP. | 73 10.0 | 75 56.5 | 73 39.6 | 75 31.7 | — | — | — | — | 38.0 | 75 12.4 | |
| 4 4 | W. McP. | 73 11.3 | 75 56.5 | 73 43.5 | 75 34.6 | 76 59.1 | 74 38.5 | 77 09.5 | 74 43.3 | — | 75 14.5 | |
| 6 20 | W. McP. | 73 22.9 | 75 54.5 | 73 49.3 | 75 36.0 | — | — | — | — | 38.3 | 75 19.0 | |
| 7 4 | W. McP. | 73 13.5 | 75 57.4 | 73 47.4 | 75 34.8 | 76 56.3 | 74 40.9 | 77 08.3 | 74 54.4 | — | 75 16.6 | |
| 10 20 | J. W. | 72 37.4 | 75 54.0 | 72 51.4 | 75 25.4 | — | — | — | — | 62.7 | 75 14.7 | |
| 11 4 | J. W. | 72 36.6 | 75 52.6 | 72 50.8 | 75 25.0 | 77 48.3 | 74 35.2 | 77 43.8 | 74 59.4 | — | 75 13.9 | |
| 13 20 | J. W. | 72 46.8 | 75 51.3 | 72 44.1 | 75 28.1 | — | — | — | — | 62.0 | 75 14.6 | |
| 14 4 | J. W. | 72 45.8 | 75 48.3 | 72 45.8 | 75 26.4 | 77 41.1 | 74 34.7 | 77 45.0 | 75 01.5 | — | 75 13.6 | |
| 17 20 | T. S. M. | 72 11.0 | 75 58.0 | 72 50.5 | 75 32.4 | — | — | — | — | 62.1 | 75 10.1 | 75 14.5 |
| 18 4 | T. S. M. | 72 35.0 | 75 51.9 | 73 06.5 | 75 24.0 | 77 45.7 | 74 39.3 | 77 44.8 | 75 04.6 | — | 75 16.4 | |
| 20 20 | T. S. M. | 72 28.8 | 75 57.8 | 72 54.1 | 75 30.5 | — | — | — | — | 62.1 | 75 14.9 | |
| 21 4 | T. S. M. | 72 35.4 | 75 59.2 | 72 51.5 | 75 33.8 | 77 46.0 | 74 44.4 | 77 43.0 | 75 03.9 | — | 75 17.1 | |
| 24 20 | W. McP. | 72 43.5 | 75 51.5 | 72 53.9 | 75 14.5 | — | — | — | — | 65.4 | 75 16.2 | |
| 25 4 | W. McP. | 72 33.0 | 75 50.0 | 72 48.5 | 75 24.8 | 77 47.4 | 74 42.3 | 77 47.5 | 75 02.8 | — | 75 14.5 | |
| 27 20 | W. McP. | 72 39.5 | 75 52.4 | 72 52.2 | 75 25.5 | — | — | — | — | 60.3 | 75 12.7 | |
| 28 4 | W. McP. | 72 43.3 | 75 50.5 | 72 49.9 | 75 22.9 | 78 05.5 | 74 41.4 | 77 35.3 | 74 26.4 | — | 75 11.9 | |
| Oct. | | | | | | | | | | | | |
| 31 20 | J. W. | 72 48.5 | 75 48.1 | 72 45.4 | 75 35.8 | — | — | — | — | 60.3 | 75 14.5 | |
| 1 4 | J. W. | 72 49.6 | 75 53.2 | 72 45.0 | 75 37.4 | 77 44.6 | 74 36.4 | 77 45.2 | 75 01.8 | — | 75 16.6 | |
| 3 20 | J. W. | 72 43.4 | 75 53.2 | 72 53.5 | 75 28.0 | — | — | — | — | 64.2 | 75 18.7 | |
| 4 4 | J. W. | 72 43.4 | 75 50.8 | 72 49.5 | 75 29.9 | 77 48.3 | 74 42.7 | 77 49.3 | 75 07.4 | — | 75 17.6 | |
| 7 20 | T. S. M. | 72 49.8 | 75 51.6 | 73 01.6 | 75 32.8 | — | — | — | — | 60.5 | 75 19.4 | |
| 8 4 | T. S. M. | 72 48.3 | 75 56.5 | 73 04.0 | 75 34.9 | 77 47.7 | 74 52.3 | 77 59.4 | 74 48.1 | — | 75 21.4 | |
| 10 20 | T. S. M. | 72 46.7 | 76 07.0 | 72 44.8 | 75 20.1 | — | — | — | — | 66.1 | 75 20.7 | |
| 11 4 | T. S. M. | 72 40.4 | 75 52.1 | 72 50.1 | 75 29.8 | 77 55.2 | 74 55.4 | 77 45.3 | 75 04.9 | — | 75 19.2 | |
| 14 20 | W. McP. | 72 21.4 | 76 01.1 | 72 34.6 | 75 27.9 | — | — | — | — | 70.7 | 75 16.9 | 75 16.8 |
| 15 4 | W. McP. | 72 18.1 | 76 00.0 | 72 29.7 | 75 31.0 | 78 02.2 | 74 45.0 | 77 52.0 | 75 05.4 | — | 75 15.4 | |
| 17 20 | W. McP. | 72 22.2 | 76 02.2 | 72 33.2 | 75 29.9 | — | — | — | — | 70.6 | 75 17.5 | |
| 18 4 | W. McP. | 72 18.6 | 76 03.6 | 72 33.2 | 75 31.7 | 78 02.0 | 74 46.9 | 77 55.4 | 75 07.8 | — | 75 17.4 | |
| 21 20 | J. W. | 72 23.2 | 76 03.8 | 72 34.2 | 75 31.6 | — | — | — | — | 66.8 | 75 15.0 | |
| 22 4 | J. W. | 72 17.3 | 76 02.4 | 72 32.6 | 75 32.3 | 77 48.6 | 74 42.9 | 77 42.9 | 75 04.6 | — | 75 12.9 | |
| 24 20 | J. W. | 72 41.0 | 75 47.5 | 72 37.1 | 75 31.5 | — | — | — | — | 66.9 | 75 16.2 | |
| 25 4 | J. W. | 72 29.7 | 75 55.0 | 72 38.2 | 75 26.4 | 77 44.4 | 74 51.2 | 77 47.7 | 75 01.1 | — | 75 14.2 | |
| 28 20 | T. S. M. | 72 23.8 | 75 54.6 | 72 43.4 | 75 28.1 | — | — | — | — | 68.7 | 75 16.2 | |
| 29 4 | T. S. M. | 72 23.8 | 75 31.5 | 72 42.8 | 75 41.3 | 77 46.0 | 74 47.2 | 77 48.6 | 70 06.8 | — | 75 13.5 | |
| December. | | | | | | | | | | | | |
| 2 20 | T. S. M. | 72 05.8 | 75 52.6 | 72 44.6 | 75 37.8 | — | — | — | — | 70.8 | 75 16.0 | |
| 3 4 | T. S. M. | 72 24.7 | 75 44.0 | 72 45.1 | 75 20.2 | 77 56.8 | 74 49.4 | 77 48.5 | 75 05.6 | — | 75 14.3 | |
| 5 20 | W. McP. | 72 33.2 | 75 43.8 | 72 43.6 | 75 36.4 | — | — | — | — | 67.3 | 75 16.5 | |
| 6 4 | W. McP. | 72 30.6 | 75 42.0 | 72 48.5 | 75 31.0 | 77 55.0 | 74 48.2 | 77 50.0 | 74 57.8 | — | 75 15.3 | |
| 8 20 | W. McP. | 72 33.2 | 75 48.0 | 72 35.0 | 75 36.8 | — | — | — | — | 66.5 | 75 14.8 | |
| 9 4 | W. McP. | 72 33.6 | 75 43.2 | 72 49.4 | 75 32.2 | 77 57.2 | 74 43.0 | 77 52.6 | 74 57.4 | — | 75 16.1 | |
| 12 20 | J. W. | 72 40.2 | 75 49.8 | 72 38.5 | 75 30.8 | — | — | — | — | 68.8 | 75 18.6 | |
| 13 4 | J. W. | 72 29.0 | 75 45.6 | 72 43.8 | 75 28.0 | 78 01.3 | 74 42.4 | 77 54.6 | 74 59.0 | — | 75 15.4 | |
| 15 20 | J. W. | 72 35.2 | 75 51.2 | 72 42.1 | 75 30.1 | — | — | — | — | 67.3 | 75 16.9 | |
| 16 4 | J. W. | 72 31.6 | 75 49.2 | 72 42.8 | 75 26.7 | 77 50.5 | 74 46.9 | 77 54.4 | 74 57.2 | — | 75 14.9 | 75 15.7 |
| 19 20 | T. S. M. | 72 28.5 | 75 55.0 | 72 43.8 | 75 26.1 | — | — | — | — | 66.0 | 75 14.3 | |
| 20 4 | T. S. M. | 72 20.0 | 75 55.4 | 72 47.1 | 75 22.5 | 77 53.1 | 74 39.8 | 78 09.4 | 74 30.7 | — | 75 12.2 | |
| 22 20 | T. S. M. | 72 26.0 | 75 50.3 | 72 44.3 | 75 29.4 | — | — | — | — | 70.0 | 75 17.5 | |
| 23 4 | T. S. M. | 72 20.0 | 76 01.5 | 72 37.7 | 75 26.2 | 77 50.4 | 74 57.5 | 78 00.4 | 74 56.9 | — | 75 16.3 | |
| 26 20 | W. McP. | 72 33.2 | 75 45.0 | 72 37.4 | 75 33.6 | — | — | — | — | 69.1 | 75 16.4 | |
| 27 4 | W. McP. | 72 30.6 | 75 43.2 | 72 39.0 | 75 37.0 | 77 52.0 | 74 48.0 | 78 03.0 | 74 59.5 | — | 75 16.5 | |
| 29 20 | W. McP. | 72 33.0 | 75 45.0 | 72 41.6 | 75 34.2 | — | — | — | — | 67.4 | 75 15.8 | |
| 30 4 | W. McP. | 72 32.2 | 75 42.6 | 72 43.8 | 75 33.6 | 77 46.8 | 74 43.6 | 78 04.0 | 74 56.7 | — | 75 15.4 | |

Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | |
| 1844. | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| 2 20 | J. W. | 72 29.7 | 75 52.4 | 72 48.0 | 75 30.8 | — | — | — | — | 69.6 | 75 19.8 | |
| 3 4 | J. W. | 72 25.7 | 75 50.6 | 72 44.6 | 75 23.1 | 77 52.7 | 74 46.6 | 77 59.4 | 75 02.2 | — | 75 15.6 | |
| 5 20 | J. W. | 72 31.0 | 75 48.4 | 72 47.7 | 75 28.6 | — | — | — | — | 69.8 | 75 18.7 | |
| 6 4 | J. W. | 72 30.7 | 75 44.4 | 72 43.7 | 75 26.8 | 78 00.7 | 74 41.5 | 77 59.0 | 75 03.4 | — | 75 16.2 | |
| 9 20 | T. S. M. | 72 20.6 | 75 58.8 | 72 49.0 | 75 26.9 | — | — | — | — | 64.6 | 75 13.4 | |
| 10 4 | T. S. M. | 72 25.6 | 75 50.3 | 72 47.8 | 75 27.0 | 77 48.6 | 74 46.2 | 77 55.0 | 74 37.8 | — | 75 12.3 | |
| 12 20 | T. S. M. | 72 24.2 | 75 48.8 | 72 44.8 | 75 27.2 | — | — | — | — | 69.6 | 75 15.8 | |
| 13 4 | T. S. M. | 72 22.6 | 75 46.8 | 72 47.7 | 75 27.1 | 77 49.5 | 74 53.4 | 77 59.7 | 74 58.4 | — | 75 15.6 | |
| 16 20 | W. M ^c P. | 72 35.0 | 75 41.2 | 72 48.3 | 75 24.1 | — | — | — | — | 69.1 | 75 16.3 | 75 15.4 |
| 17 4 | W. M ^c P. | 72 23.2 | 75 47.6 | 72 45.1 | 75 31.1 | 78 00.0 | 74 45.6 | 78 01.2 | 74 53.5 | — | 75 15.9 | |
| 19 20 | W. M ^c P. | 72 25.0 | 75 43.2 | 72 28.4 | 75 25.5 | — | — | — | — | 71.9 | 75 12.4 | |
| 20 4 | W. M ^c P. | 72 27.2 | 75 40.6 | 72 29.6 | 75 26.5 | 78 04.4 | 74 40.0 | 77 51.2 | 75 03.6 | — | 75 12.9 | |
| 23 20 | J. W. | 72 31.7 | 75 45.2 | 72 42.6 | 75 30.2 | — | — | — | — | 68.9 | 75 16.3 | |
| 24 4 | J. W. | 72 30.3 | 75 42.3 | 72 38.7 | 75 26.2 | 78 01.2 | 74 43.2 | 77 44.4 | 75 00.4 | — | 75 13.3 | |
| 26 20 | J. W. | 72 33.0 | 75 52.1 | 72 33.3 | 75 26.6 | — | — | — | — | 71.5 | 75 17.7 | |
| 27 4 | J. W. | 72 32.3 | 75 49.2 | 72 34.4 | 75 25.9 | 78 08.5 | 74 47.9 | 77 58.6 | 74 59.1 | — | 75 16.9 | |
| 30 20 | T. S. M. | 72 22.9 | 75 48.2 | 72 47.0 | 75 25.8 | — | — | — | — | 68.9 | 75 14.9 | |
| 31 4 | T. S. M. | 72 23.7 | 75 50.2 | 72 43.7 | 75 20.3 | 77 53.0 | 74 49.8 | 77 42.9 | 75 04.0 | — | 75 13.4 | |
| | | | | | | | | | | | | |
| February. | | | | | | | | | | | | |
| 2 20 | T. S. M. | 72 20.5 | 75 52.9 | 72 44.4 | 75 22.8 | — | — | — | — | 70.2 | 75 15.3 | |
| 3 4 | T. S. M. | 72 18.6 | 75 47.9 | 72 44.4 | 75 21.4 | 77 47.4 | 74 47.7 | 77 57.0 | 75 01.9 | — | 75 13.3 | |
| 6 20 | W. M ^c P. | 72 32.2 | 75 45.4 | 72 41.5 | 75 23.2 | — | — | — | — | 67.3 | 75 12.9 | |
| 7 4 | W. M ^c P. | 72 31.8 | 75 47.0 | 72 39.9 | 75 25.0 | 77 46.8 | 74 42.3 | 77 52.0 | 75 01.0 | — | 75 13.2 | |
| 9 20 | W. M ^c P. | 72 32.6 | 75 48.0 | 72 46.0 | 75 24.0 | — | — | — | — | 68.9 | 75 16.6 | |
| 10 4 | W. M ^c P. | 72 25.8 | 75 48.0 | 72 51.5 | 75 22.2 | 77 53.2 | 74 48.2 | 78 00.0 | 74 57.8 | — | 75 15.8 | |
| 13 20 | J. W. | 72 23.2 | 75 43.8 | 72 49.0 | 75 25.8 | — | — | — | — | 73.2 | 75 18.6 | |
| 14 4 | J. W. | 72 21.5 | 75 41.3 | 72 45.8 | 75 27.6 | 77 54.8 | 74 59.2 | 78 02.4 | 75 05.6 | — | 75 17.2 | 75 15.7 |
| 16 20 | J. W. | 72 25.6 | 75 41.3 | 72 45.2 | 75 28.0 | — | — | — | — | 71.3 | 75 16.3 | |
| 17 4 | J. W. | 72 21.2 | 75 39.8 | 72 50.5 | 75 26.2 | 77 56.5 | 74 51.6 | 77 54.1 | 75 06.1 | — | 75 15.7 | |
| 20 20 | T. S. M. | 72 17.4 | 75 48.1 | 72 51.0 | 75 26.6 | — | — | — | — | 73.4 | 75 19.2 | |
| 21 4 | T. S. M. | 72 17.0 | 75 47.0 | 72 43.0 | 75 26.3 | 78 06.0 | 74 49.6 | 77 58.2 | 75 07.2 | — | 75 16.7 | |
| 23 20 | T. S. M. | 72 22.3 | 75 48.5 | 72 38.0 | 75 30.6 | — | — | — | — | 71.0 | 75 15.8 | |
| 24 4 | T. S. M. | 72 21.4 | 75 46.7 | 72 36.4 | 75 29.2 | 77 47.8 | 74 51.3 | 77 57.7 | 75 05.2 | — | 75 14.4 | |
| 27 20 | W. M ^c P. | 72 19.4 | 75 43.2 | 72 44.5 | 75 26.0 | — | — | — | — | 74.8 | 75 18.1 | |
| 28 4 | W. M ^c P. | 72 23.6 | 75 37.0 | 72 33.5 | 75 17.5 | 77 54.5 | 74 54.9 | 77 53.0 | 75 08.0 | — | 75 12.7 | |
| | | | | | | | | | | | | |
| March. | | | | | | | | | | | | |
| 1 20 | W. M ^c P. | 72 12.6 | 75 41.6 | 72 49.5 | 75 29.0 | — | — | — | — | 73.2 | 75 16.4 | |
| 2 4 | W. M ^c P. | 72 22.0 | 75 40.0 | 72 47.6 | 75 27.8 | 77 59.0 | 74 56.2 | 77 59.0 | 75 09.1 | — | 75 17.5 | |
| 5 20 | J. W. | 72 21.8 | 75 44.8 | 72 47.4 | 75 29.6 | — | — | — | — | 71.5 | 75 17.4 | |
| 6 4 | J. W. | 72 16.7 | 75 43.2 | 72 50.0 | 75 26.8 | 77 51.1 | 74 56.5 | 78 01.8 | 74 59.4 | — | 75 15.7 | |
| 8 20 | J. W. | 72 10.2 | 75 48.6 | 72 47.4 | 75 32.8 | — | — | — | — | 74.3 | 75 19.0 | |
| 9 4 | J. W. | 72 06.5 | 75 49.3 | 72 43.1 | 75 29.3 | 78 03.2 | 74 54.5 | 77 57.3 | 75 07.9 | — | 75 16.3 | |
| 12 20 ^a | T. S. M. | 72 16.7 | 75 47.6 | 72 48.4 | 75 29.0 | — | — | — | — | 78.0 | 75 13.4 | 75 14.5 |
| 13 4 ^b | T. S. M. | 72 17.2 | 75 48.7 | 72 49.1 | 75 27.9 | 78 01.0 | 74 50.4 | 77 50.7 | 74 45.3 | — | 75 13.7 | |
| 26 20 ^b | J. W. | 74 56.1 | 74 18.6 | 75 36.9 | 73 38.6 | — | — | — | — | 31.2 | 75 08.7 | |
| 27 4 ^c | J. W. | 74 55.4 | 76 30.2 | 75 18.6 | 76 03.5 | 75 00.8 | 74 21.5 | 75 35.0 | 73 40.2 | — | 75 10.6 | |
| 29 20 | J. W. | 74 57.6 | 76 27.6 | 75 22.8 | 76 00.6 | — | — | — | — | 28.7 | 75 13.4 | |
| 30 4 | J. W. | 74 58.2 | 76 24.0 | 75 20.6 | 76 01.5 | 74 59.0 | 74 22.9 | 75 37.7 | 73 55.2 | — | 75 12.4 | |

^a Axle of Needle "No. 1" broken after this observation.

^b Needle "Robinson No. 2" employed.

^c Needle "Old Static No. 1" employed until June 12th, 1844.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half-Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. | |
|-----------------------|------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|----------------|---------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | | |
| 1844. | | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 2 20 | T. S. M. | 74 53.3 | 76 31.1 | 75 20.0 | 76 13.9 | — | — | — | — | 29.9 | 75 14.7 | 75 13.2 | |
| 3 4 | T. S. M. | 74 53.0 | 76 31.9 | 75 20.0 | 76 12.2 | 75 09.7 | 74 19.0 | 75 37.5 | 73 51.5 | — | 75 14.3 | | |
| 5 20 | T. S. M. | 74 55.1 | 76 24.5 | 75 26.5 | 75 59.0 | — | — | — | — | 31.4 | 75 09.9 | | |
| 6 4 | T. S. M. | 75 05.7 | 76 33.1 | 75 30.2 | 75 58.4 | 75 00.6 | 74 20.7 | 75 42.1 | 73 52.8 | — | 75 15.4 | | |
| 9 20 | W. McP. | 75 10.7 | 76 07.4 | 75 31.7 | 75 42.9 | — | — | — | — | 28.2 | 75 10.0 | | |
| 10 4 | W. McP. | 75 12.9 | 76 08.5 | 75 29.4 | 75 47.6 | 74 55.9 | 74 17.5 | 75 43.0 | 73 55.9 | — | 75 11.3 | | |
| 12 20 | W. McP. | 75 08.8 | 76 11.4 | 75 35.8 | 75 41.2 | — | — | — | — | 27.8 | 75 11.6 | | |
| 13 4 | W. McP. | 75 09.2 | 76 14.6 | 75 31.5 | 75 46.0 | 74 55.3 | 74 24.2 | 75 42.8 | 73 56.2 | — | 75 12.5 | | |
| 16 20 | J. W. | 75 04.8 | 76 31.2 | 75 32.7 | 76 00.0 | — | — | — | — | 27.7 | 75 19.5 | | |
| 17 4 | J. W. | 75 01.6 | 76 25.6 | 75 28.5 | 75 56.3 | 74 49.8 | 74 28.5 | 75 24.2 | 74 28.0 | — | 75 15.3 | | |
| 19 20 | J. W. | 74 58.1 | 76 23.7 | 75 24.7 | 75 58.4 | — | — | — | — | 26.2 | 75 15.0 | | |
| 20 4 | J. W. | 74 57.7 | 76 26.0 | 75 14.7 | 76 03.8 | 75 06.9 | 74 32.4 | 75 27.4 | 74 05.4 | — | 75 14.2 | | |
| 23 20 | T. S. M. | 74 59.2 | 76 17.7 | 75 38.4 | 75 49.1 | — | — | — | — | 28.8 | 75 12.3 | | |
| 24 4 | T. S. M. | 74 59.6 | 76 19.4 | 75 33.5 | 75 46.7 | 74 52.2 | 74 28.4 | 75 29.7 | 73 58.6 | — | 75 11.0 | | |
| 26 20 | T. S. M. | 74 58.3 | 76 25.4 | 75 26.0 | 75 51.9 | — | — | — | — | 27.1 | 75 13.3 | | |
| 27 4 | T. S. M. | 74 59.3 | 76 26.4 | 75 24.2 | 75 46.3 | 74 49.3 | 74 38.8 | 75 22.4 | 74 08.8 | — | 75 11.9 | | |
| April. | | | | | | | | | | | | | |
| 30 20 | W. McP. | 76 06.5 | 76 08.3 | 75 26.9 | 75 49.7 | — | — | — | — | 27.3 | 75 10.5 | | 75 12.5 |
| 1 4 | W. McP. | 75 05.5 | 76 18.5 | 75 21.8 | 75 44.3 | 74 59.4 | 74 19.0 | 75 43.5 | 73 49.7 | — | 75 10.2 | | |
| 3 20 | W. McP. | 74 55.0 | 76 19.0 | 75 34.5 | 75 43.8 | — | — | — | — | 26.9 | 75 11.2 | | |
| 4 4 | W. McP. | 75 05.0 | 76 27.5 | 75 17.7 | 75 43.6 | 75 49.4 | 74 18.2 | 75 51.3 | 73 49.4 | — | 75 11.5 | | |
| 7 20 | J. W. | 74 58.0 | 76 26.8 | 75 28.9 | 75 36.1 | — | — | — | — | 22.7 | 75 14.7 | | |
| 8 4 | J. W. | 74 54.1 | 76 24.2 | 75 28.7 | 75 34.2 | 75 02.9 | 74 24.3 | 75 57.7 | 73 54.4 | — | 75 12.5 | | |
| 10 20 | J. W. | 75 00.0 | 76 23.3 | 75 30.1 | 76 06.2 | — | — | — | — | 33.1 | 75 11.8 | | |
| 11 4 | J. W. | 74 53.5 | 76 40.0 | 75 23.6 | 75 48.1 | 74 47.3 | 74 21.7 | 75 17.5 | 73 53.9 | — | 75 08.2 | | |
| 14 20 | T. S. M. | 75 47.0 | 74 46.8 | 75 55.8 | 74 38.8 | — | — | — | — | 03.2 | 75 13.9 | | |
| 15 4 | T. S. M. | 75 41.6 | 74 47.4 | 75 53.2 | 74 46.5 | 74 29.6 | 75 44.7 | 75 00.4 | 75 28.4 | — | 75 14.0 | | |
| 17 20 | T. S. M. | 75 30.6 | 75 01.3 | 75 38.7 | 74 50.2 | — | — | — | — | 03.4 | 75 11.8 | | |
| 18 4 | T. S. M. | 75 28.3 | 75 07.4 | 75 38.2 | 74 45.1 | 74 42.7 | 75 31.4 | 74 58.2 | 75 19.2 | — | 75 11.3 | | |
| 21 20 | W. McP. | 75 40.1 | 74 56.3 | 75 53.2 | 74 37.2 | — | — | — | — | 06.1 | 75 10.6 | | |
| 22 4 | W. McP. | 75 39.8 | 74 58.5 | 75 52.0 | 74 47.5 | 74 47.8 | 75 33.5 | 75 03.4 | 75 03.7 | — | 75 13.3 | | |
| 24 20 | W. McP. | 75 59.0 | 74 49.5 | 75 53.4 | 74 38.0 | — | — | — | — | 04.2 | 75 15.8 | | |
| 25 4 | W. McP. | 75 51.8 | 75 04.5 | 75 47.5 | 74 43.0 | 74 34.4 | 75 47.0 | 74 53.5 | 75 37.8 | — | 75 17.5 | | |
| 28 20 | J. W. | 75 39.1 | 74 58.2 | 75 49.3 | 74 51.8 | — | — | — | — | 05.2 | 75 14.4 | | |
| 29 4 | J. W. | 75 39.2 | 74 56.8 | 75 47.1 | 74 48.6 | 74 38.8 | 75 44.2 | 74 43.9 | 75 23.0 | — | 75 12.7 | | |
| May. | | | | | | | | | | | | | |
| 31 20 | J. W. | 75 44.2 | 75 08.7 | 75 28.9 | 74 51.6 | — | — | — | — | 06.0 | 75 12.3 | 75 11.6 | |
| 1 4 | J. W. | 75 34.7 | 75 00.1 | 75 39.8 | 74 57.6 | 74 29.6 | 75 44.7 | 74 36.1 | 75 33.1 | — | 75 11.9 | | |
| 4 20 | J. J. | 75 24.7 | 75 07.8 | 75 45.7 | 74 57.3 | — | — | — | — | 04.2 | 75 14.7 | | |
| 5 4 | J. J. | 75 04.9 | 75 28.6 | 75 49.2 | 74 55.0 | 74 25.3 | 75 56.0 | 75 03.7 | 75 18.8 | — | 75 15.1 | | |
| 7 20 | J. J. | 75 18.5 | 75 24.4 | 75 38.3 | 74 57.3 | — | — | — | — | 05.1 | 75 14.5 | | |
| 8 4 | J. J. | 75 09.8 | 75 22.8 | 75 37.4 | 74 58.8 | 73 59.5 | 76 21.1 | 74 24.5 | 75 43.0 | — | 75 12.1 | | |
| 11 20 | J. J. | 75 25.7 | 75 21.2 | 75 35.4 | 74 50.0 | — | — | — | — | 10.2 | 75 08.0 | | |
| 12 4 ^a | J. J. | 75 18.9 | 75 26.5 | 75 47.8 | 74 53.0 | 74 12.6 | 75 50.7 | 74 43.5 | 75 17.4 | — | 75 11.2 | | |
| 14 20 ^b | J. J. | 74 47.4 | 74 27.7 | 75 20.0 | 73 53.5 | — | — | — | — | 33.2 | 75 10.3 | | |
| 15 4 | J. J. | 74 48.5 | 76 44.7 | 75 22.5 | 76 01.4 | 74 48.0 | 74 40.2 | 75 12.8 | 73 50.2 | — | 75 11.0 | | |
| 18 20 | J. W. | 74 46.9 | 76 49.2 | 75 19.2 | 76 19.1 | — | — | — | — | 34.8 | 75 13.8 | | |
| 19 4 | J. W. | 74 43.1 | 76 44.6 | 75 22.0 | 76 11.4 | 74 47.7 | 74 20.9 | 75 23.3 | 73 50.8 | — | 75 19.5 | | |
| 21 20 | J. J. | 74 48.9 | 76 42.6 | 75 20.0 | 76 16.7 | — | — | — | — | 34.5 | 75 12.5 | | |
| 22 4 | J. J. | 74 44.7 | 76 37.3 | 75 23.4 | 76 14.4 | 74 44.8 | 74 26.4 | 75 21.4 | 73 50.5 | — | 75 19.3 | | |
| 25 20 | J. W. | 74 43.4 | 76 30.0 | 75 23.3 | 76 09.4 | — | — | — | — | 31.9 | 75 09.6 | | |
| 26 4 | J. W. | 74 44.6 | 76 36.8 | 75 22.5 | 76 07.1 | 74 58.6 | 74 17.8 | 75 30.4 | 73 48.3 | — | 75 10.7 | | |
| 28 20 | J. J. | 74 43.2 | 76 33.6 | 75 21.2 | 76 19.5 | — | — | — | — | 31.9 | 75 10.2 | | |
| 29 4 | J. J. | 74 42.6 | 76 31.8 | 75 22.8 | 76 12.1 | 74 52.4 | 74 25.5 | 75 20.4 | 73 55.4 | — | 75 10.3 | | |

^a "Old Static No. 1" broken after this observation.

^b "Old Static No. 2" employed until 31st December, 1845.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | |
| 1844. | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| July. | | | | | | | | | | | | |
| 2 20 | T. M. | 74 57.1 | 76 23.5 | 75 30.9 | 76 01.7 | — | — | — | — | 24.7 | 75 18.6 | 75 10.1 |
| 3 4 | T. M. | 74 53.2 | 76 05.0 | 74 57.1 | 76 06.7 | 75 17.0 | 74 21.6 | 75 17.4 | 73 48.5 | — | 75 05.8 | |
| 5 20 | J. W. | 74 54.1 | 76 22.8 | 74 41.6 | 76 07.3 | — | — | — | — | 18.2 | 75 13.2 | |
| 6 4 | J. W. | 74 53.5 | 76 24.8 | 74 37.5 | 75 46.9 | 75 02.5 | 74 36.7 | 75 42.2 | 73 54.3 | — | 75 07.4 | |
| 9 20 | J. J. | 74 39.3 | 76 40.6 | 75 20.1 | 76 10.2 | — | — | — | — | 29.5 | 75 13.0 | |
| 10 4 | J. J. | 74 38.1 | 76 34.2 | 75 16.0 | 76 16.6 | 74 55.1 | 74 38.8 | 75 14.4 | 74 00.2 | — | 75 11.6 | |
| 12 20 | T. M. | 74 54.2 | 76 24.2 | 75 43.8 | 75 39.7 | — | — | — | — | 31.9 | 75 08.2 | |
| 13 4 | T. M. | 74 57.9 | 76 18.9 | 75 26.6 | 75 43.9 | 74 51.0 | 74 16.3 | 75 23.9 | 73 40.4 | — | 75 04.8 | |
| 16 20 | J. J. | 74 42.5 | 76 35.5 | 75 21.8 | 76 09.8 | — | — | — | — | 34.3 | 75 08.1 | |
| 17 4 | J. J. | 75 02.4 | 76 16.4 | 75 47.4 | 75 51.4 | 75 09.8 | 74 00.2 | 75 37.8 | 73 35.5 | — | 75 10.1 | |
| 19 20 | W. G. | 74 54.6 | 76 40.8 | 75 16.9 | 76 03.4 | — | — | — | — | 32.8 | 75 11.1 | |
| 20 4 | W. G. | 74 38.9 | 76 44.1 | 75 22.4 | 76 07.0 | 75 25.1 | 74 11.2 | 74 57.1 | 73 56.3 | — | 75 10.2 | |
| 23 20 | J. W. | 74 52.4 | 76 42.6 | 75 26.3 | 76 00.8 | — | — | — | — | 35.2 | 75 10.3 | |
| 24 4 | J. W. | 74 51.1 | 76 39.2 | 75 25.3 | 76 00.5 | 74 59.4 | 74 09.4 | 75 20.0 | 73 45.2 | — | 75 08.7 | |
| 26 20 | J. W. | 74 50.4 | 76 37.0 | 75 13.6 | 76 07.0 | — | — | — | — | 33.4 | 75 08.6 | |
| 27 4 | J. W. | 74 49.7 | 76 37.5 | 75 15.7 | 76 08.9 | 74 43.7 | 74 21.7 | 75 14.7 | 74 03.8 | — | 75 09.4 | |
| 30 20 | T. M. | 75 02.2 | 76 35.1 | 75 55.2 | 75 48.1 | — | — | — | — | 40.0 | 75 10.1 | |
| 31 4 | T. M. | 74 56.4 | 77 23.5 | 75 26.0 | 75 46.9 | 75 03.8 | 73 56.7 | 75 37.2 | 73 35.0 | — | 75 13.2 | |
| August. | | | | | | | | | | | | |
| 2 20 | J. W. | 74 54.5 | 76 33.2 | 75 21.6 | 75 40.5 | — | — | — | — | 27.8 | 75 09.6 | 75 10.1 |
| 3 4 | J. W. | 75 04.6 | 76 31.2 | 75 22.5 | 75 17.7 | 75 04.4 | 74 15.6 | 75 23.0 | 73 50.6 | — | 75 06.2 | |
| 9 20 | T. M. | 74 54.9 | 76 36.2 | 75 51.6 | 75 12.6 | — | — | — | — | 31.2 | 75 07.6 | |
| 10 4 | T. M. | 75 07.8 | 76 31.6 | 75 47.1 | 75 20.9 | 75 01.8 | 74 13.7 | 73 53.2 | 75 28.9 | — | 75 10.6 | |
| 13 20 | J. J. | 74 48.3 | 76 41.0 | 75 16.1 | 75 59.8 | — | — | — | — | 31.8 | 75 09.5 | |
| 14 4 | J. J. | 74 46.9 | 76 37.4 | 75 16.9 | 76 04.9 | 74 41.4 | 74 28.5 | 75 17.3 | 74 04.0 | — | 75 09.6 | |
| 16 20 | W. G. | 74 48.2 | 76 32.2 | 75 19.3 | 75 51.9 | — | — | — | — | 30.0 | 75 07.9 | |
| 17 4 | W. G. | 74 53.0 | 76 35.2 | 75 20.9 | 75 54.6 | 75 09.4 | 75 22.7 | 73 56.2 | 74 15.0 | — | 75 10.8 | |
| 20 20 | J. W. | 74 53.0 | 76 31.8 | 75 22.4 | 75 50.4 | — | — | — | — | 27.5 | 75 11.9 | |
| 21 4 | J. W. | 74 52.0 | 76 25.0 | 75 13.0 | 75 52.4 | 74 56.5 | 74 21.1 | 75 25.0 | 73 59.8 | — | 75 08.1 | |
| 23 20 | J. J. | 74 43.6 | 76 42.6 | 75 12.3 | 75 59.4 | — | — | — | — | 30.6 | 75 08.9 | |
| 24 4 | J. J. | 74 45.0 | 76 40.8 | 75 11.4 | 76 01.2 | 74 44.3 | 74 29.0 | 75 14.7 | 74 05.7 | — | 75 09.0 | |
| 27 20 | T. M. | 74 55.0 | 76 27.7 | 75 46.9 | 75 45.2 | — | — | — | — | 28.5 | 75 15.2 | |
| 28 4 | T. M. | 74 51.4 | 76 25.5 | 75 23.4 | 75 52.0 | 74 10.3 | 75 20.3 | 74 32.1 | 74 41.9 | — | 75 09.6 | |
| 30 20 | J. W. | 74 53.9 | 76 36.8 | 75 26.2 | 75 56.6 | — | — | — | — | 31.9 | 75 11.5 | |
| 31 4 | J. W. | 74 53.6 | 76 34.5 | 75 26.1 | 75 57.0 | 74 47.2 | 74 26.5 | 75 19.5 | 74 02.7 | — | 75 10.9 | |
| September. | | | | | | | | | | | | |
| 3 20 | W. G. | 74 56.7 | 76 28.1 | 75 54.5 | 75 50.0 | — | — | — | — | 27.8 | 75 19.5 | 75 17.9 |
| 4 4 | W. G. | 74 55.0 | 76 29.2 | 75 45.5 | 75 49.1 | 75 04.7 | 74 39.3 | 75 28.0 | 74 04.1 | — | 75 16.8 | |
| 6 20 | T. M. | 74 50.2 | 76 30.6 | 75 35.8 | 75 53.0 | — | — | — | — | 24.9 | 75 17.5 | |
| 7 4 | T. M. | 75 04.0 | 76 32.5 | 75 41.3 | 75 38.1 | 75 06.6 | 74 38.5 | 75 18.7 | 74 32.2 | — | 75 19.0 | |
| 10 20 | J. J. | 74 42.7 | 76 42.3 | 75 17.0 | 76 24.5 | — | — | — | — | 32.7 | 75 13.9 | |
| 11 4 | J. J. | 74 48.6 | 76 49.8 | 75 26.7 | 76 01.9 | 74 25.3 | 75 03.3 | 75 16.0 | 74 00.5 | — | 75 14.0 | |
| 13 20 | W. G. | 75 02.8 | 76 36.5 | 75 45.4 | 75 49.8 | — | — | — | — | 26.7 | 75 21.9 | |
| 14 4 | W. G. | 74 57.3 | 76 25.2 | 75 56.6 | 75 52.1 | 75 03.7 | 74 43.6 | 75 37.6 | 74 12.6 | — | 75 21.1 | |
| 17 20 | J. W. | 74 44.6 | 76 41.9 | 75 27.9 | 76 15.7 | — | — | — | — | 28.2 | 75 19.3 | |
| 18 4 | J. W. | 74 52.9 | 76 36.2 | 75 29.8 | 76 12.1 | 75 05.8 | 74 45.8 | 75 18.2 | 74 15.5 | — | 75 19.5 | |
| 20 20 | J. J. | 74 48.6 | 76 41.1 | 75 23.9 | 76 21.6 | — | — | — | — | 29.6 | 75 19.2 | |
| 21 4 | J. J. | 74 40.2 | 76 44.7 | 75 28.9 | 76 15.2 | 74 43.9 | 74 55.1 | 75 12.2 | 74 21.0 | — | 75 17.6 | |
| 24 20 | T. M. | 74 54.8 | 76 19.2 | 76 00.7 | 75 50.1 | — | — | — | — | 28.2 | 75 18.0 | |
| 25 4 | T. M. | 74 58.0 | 76 19.6 | 75 44.9 | 75 53.7 | 74 58.0 | 74 40.4 | 75 35.4 | 73 57.2 | — | 75 15.9 | |
| 27 20 | J. W. | 74 58.6 | 76 22.3 | 75 44.2 | 76 03.1 | — | — | — | — | 29.8 | 75 17.2 | |
| 28 4 | J. W. | 75 00.0 | 76 20.5 | 75 43.2 | 75 48.0 | 74 41.3 | 74 45.0 | 75 15.5 | 74 11.4 | — | 75 13.1 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--|--------------|-------------------|---------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | | | |
| 1844. | | | | | | | | | | | | | |
| D. H. | | | | | | | | | | | | | |
| 1 20 | W. G. | 75 02.5 | 76 24.9 | 75 47.3 | 76 04.2 | — | — | — | — | 21.7 | 75 28.0 | 75 17.9 | |
| 2 4 | W. G. | 74 57.0 | 76 17.8 | 76 06.5 | 75 37.9 | 75 08.1 | 74 42.9 | 75 43.2 | 74 31.3 | — | 75 23.1 | | |
| 4 20 | T. M. | 75 00.1 | 76 25.7 | 75 48.7 | 75 33.4 | — | — | — | — | 28.7 | 75 13.3 | | |
| 5 4 | T. M. | 75 01.9 | 76 19.9 | 75 44.5 | 75 45.3 | 75 07.0 | 74 28.4 | 75 36.4 | 73 49.8 | — | 75 14.1 | | |
| 8 20 | J. J. | 74 43.9 | 76 52.7 | 75 32.5 | 76 21.1 | — | — | — | — | 37.6 | 75 14.9 | | |
| 9 4 | J. J. | 74 38.9 | 76 54.7 | 75 31.4 | 76 18.0 | 74 45.7 | 74 18.0 | 74 58.0 | 74 19.9 | — | 75 13.1 | | |
| 11 20 | W. G. | 74 45.1 | 76 47.2 | 75 21.1 | 76 17.8 | — | — | — | — | 32.4 | 75 15.4 | | |
| 12 4 | W. G. | 74 49.3 | 76 39.8 | 75 33.1 | 76 17.1 | 75 04.6 | 74 25.6 | 75 38.5 | 73 51.5 | — | 75 17.4 | | |
| 15 20 | J. W. | 74 59.5 | 76 41.4 | 75 47.4 | 76 07.7 | — | — | — | — | 33.6 | 75 20.4 | | |
| 16 4 | J. W. | 74 56.5 | 76 36.9 | 75 42.8 | 76 04.1 | 75 07.5 | 74 24.8 | 75 36.4 | 73 42.9 | — | 75 16.5 | | |
| 18 20 | J. J. | 74 38.5 | 77 02.2 | 75 19.4 | 76 27.2 | — | — | — | — | 32.4 | 75 19.4 | | |
| 19 4 | J. J. | 74 34.9 | 76 56.9 | 75 22.1 | 76 32.4 | 74 49.9 | 74 49.4 | 75 24.8 | 74 02.8 | — | 75 19.1 | | |
| 22 20 | T. M. | 75 02.1 | 76 35.1 | 76 02.8 | 75 43.9 | — | — | — | — | 32.4 | 75 18.6 | | |
| 23 4 | T. M. | 74 55.9 | 76 35.0 | 75 38.4 | 76 06.0 | 75 09.1 | 74 21.6 | 75 44.3 | 73 41.2 | — | 75 16.4 | | |
| 25 20 | J. W. | 74 59.9 | 76 37.3 | 75 46.7 | 76 10.6 | — | — | — | — | 32.2 | 75 21.4 | | |
| 26 4 | J. W. | 74 57.3 | 76 38.5 | 75 49.1 | 76 06.8 | 74 52.8 | 74 31.3 | 75 44.5 | 74 04.9 | — | 75 20.6 | | |
| 29 20 | W. G. | 74 57.3 | 76 39.5 | 75 36.0 | 76 04.4 | — | — | — | — | 35.0 | 75 14.3 | | |
| 30 4 | W. G. | 75 12.5 | 76 26.1 | 75 34.5 | 76 12.0 | 75 11.5 | 74 21.6 | 75 37.5 | 73 34.6 | — | 75 16.3 | | |
| 1 20 | T. M. | 74 56.8 | 76 30.2 | 75 49.1 | 76 10.1 | — | — | — | — | 31.8 | 75 19.7 | | 75 20.3 |
| 2 4 | T. M. | 75 08.1 | 76 27.8 | 75 46.1 | 75 49.5 | 75 12.0 | 74 16.6 | 75 45.9 | 73 42.3 | — | 75 16.0 | | |
| 5 20 | J. J. | 74 38.4 | 76 55.7 | 75 41.5 | 76 33.2 | — | — | — | — | 32.0 | 75 25.2 | | |
| 6 4 | J. J. | 74 40.3 | 76 50.0 | 75 25.1 | 76 27.7 | 74 43.8 | 74 47.3 | 75 18.7 | 74 20.5 | — | 75 19.0 | | |
| 8 20 | W. G. | 74 52.2 | 76 43.0 | 75 49.1 | 76 04.0 | — | — | — | — | 32.6 | 75 19.5 | | |
| 9 4 | W. G. | 74 51.8 | 76 32.9 | 75 44.6 | 76 13.6 | 75 01.9 | 74 28.0 | 75 32.2 | 73 59.8 | — | 75 18.1 | | |
| 12 20 | J. W. | 74 49.0 | 76 43.6 | 75 34.1 | 76 16.7 | — | — | — | — | 33.9 | 75 16.9 | | |
| 13 4 | J. W. | 74 53.3 | 76 42.4 | 75 28.7 | 76 16.4 | 75 00.9 | 74 28.7 | 75 34.1 | 73 45.5 | — | 75 16.2 | | |
| 20 4 | T. M. | 75 01.5 | 76 09.8 | 75 18.6 | 75 49.3 | 75 07.8 | 74 45.0 | 76 17.9 | 73 40.5 | — | 75 16.3 | | |
| 22 20 | J. W. | 74 53.9 | 76 34.7 | 75 43.6 | 76 01.9 | — | — | — | — | 22.4 | 75 26.1 | | |
| 23 4 | J. W. | 75 11.8 | 76 10.5 | 75 44.1 | 76 10.8 | 75 12.8 | 75 24.0 | 76 00.1 | 73 40.8 | — | 75 26.8 | | |
| 26 20 | T. M. | 74 50.1 | 76 32.7 | 75 46.1 | 76 02.1 | — | — | — | — | 29.2 | 75 18.5 | | |
| 27 4 | T. M. | 74 55.7 | 76 28.9 | 75 38.1 | 75 58.4 | 75 01.2 | 74 26.0 | 76 02.7 | 73 37.7 | — | 75 16.1 | | |
| 29 20 | W. H. | 74 55.2 | 76 34.0 | 75 47.0 | 76 06.5 | — | — | — | — | 26.2 | 75 24.5 | | |
| 30 4 | W. H. | 75 03.4 | 76 35.0 | 75 43.2 | 76 07.2 | 74 56.7 | 74 37.4 | 76 38.6 | 73 46.0 | — | 75 25.9 | | |
| 3 20 | W. G. | 75 39.8 | 76 13.0 | 74 51.3 | 76 32.4 | — | — | — | — | 32.0 | 75 17.1 | 75 19.0 | |
| 4 4 | W. G. | 74 56.4 | 76 29.8 | 75 37.3 | 76 17.7 | 74 45.9 | 74 42.8 | 75 36.3 | 74 00.2 | — | 75 18.3 | | |
| 6 20 | J. W. | 74 54.1 | 76 32.5 | 75 37.8 | 76 17.6 | — | — | — | — | 35.7 | 75 14.8 | | |
| 7 4 | J. W. | 74 51.5 | 76 38.1 | 75 40.0 | 76 14.3 | 74 56.7 | 74 20.1 | 75 38.7 | 73 42.6 | — | 75 15.2 | | |
| 10 20 | J. J. | 74 43.0 | 76 55.4 | 75 19.4 | 76 35.6 | — | — | — | — | 29.3 | 75 24.0 | | |
| 11 4 | J. J. | 74 35.8 | 76 57.7 | 75 14.1 | 76 44.1 | 74 50.1 | 74 45.6 | 75 21.6 | 74 39.5 | — | 75 23.5 | | |
| 13 20 | T. M. | 74 58.8 | 76 23.4 | 75 38.2 | 76 10.9 | — | — | — | — | 33.4 | 75 14.4 | | |
| 14 4 | T. M. | 74 59.3 | 76 23.8 | 75 40.1 | 76 11.3 | 75 01.4 | 74 25.4 | 75 30.4 | 73 50.2 | — | 75 15.2 | | |
| 17 21 | W. H. | 74 53.8 | 76 33.6 | 75 40.6 | 76 18.2 | — | — | — | — | 23.9 | 75 32.6 | | |
| 18 4 | W. H. | 74 51.4 | 76 35.4 | 75 39.0 | 76 19.6 | 75 06.8 | 74 34.2 | 76 42.8 | 73 50.2 | — | 75 27.4 | | |
| 20 20 | W. G. | 74 40.0 | 76 51.3 | 75 22.6 | 76 30.3 | — | — | — | — | 38.1 | 75 12.9 | | |
| 21 4 | W. G. | 74 39.3 | 76 49.9 | 75 29.7 | 76 16.0 | 74 42.1 | 74 26.8 | 75 36.2 | 73 24.9 | — | 75 10.6 | | |
| 27 20 | T. M. | 74 59.1 | 76 33.5 | 75 40.8 | 76 08.3 | — | — | — | — | 30.1 | 75 20.3 | | |
| 28 4 | T. M. | 74 56.8 | 76 29.8 | 75 47.0 | 76 05.9 | 75 00.8 | 74 15.5 | 75 43.1 | 74 19.6 | — | 75 19.8 | | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed" | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|---|--------------|-------------------|---------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | | |
| 1845. | | | | | | | | | | | | | |
| D. H. | | | | | | | | | | | | | |
| Dec. | 31 20 | T. M. | 74 57.0 | 76 30.3 | 75 44.0 | 76 07.5 | — | — | — | — | 33.6 | 75 16.1 | 75 18.4 |
| | 1 4 | T. M. | 74 56.4 | 76 26.4 | 75 37.7 | 76 11.8 | 75 08.4 | 74 14.2 | 75 39.4 | 73 41.2 | — | 75 14.4 | |
| | 3 20 | J. W. | 74 44.3 | 76 49.4 | 75 35.0 | 76 23.2 | — | — | — | — | 37.0 | 75 16.0 | |
| | 4 5 | J. W. | 74 56.2 | 76 48.9 | 75 46.9 | 76 12.0 | 75 15.6 | 74 09.8 | 75 44.1 | 73 38.3 | — | 75 18.9 | |
| | 7 20 | J. J. | 74 43.7 | 76 57.8 | 75 26.3 | 76 40.2 | — | — | — | — | 33.7 | 75 23.3 | |
| | 8 4 | J. J. | 74 38.7 | 76 50.7 | 75 22.8 | 76 31.3 | 74 46.2 | 74 38.4 | 75 13.8 | 74 15.3 | — | 75 17.1 | |
| | 10 20 | W. G. | 75 01.2 | 76 33.3 | 76 12.5 | 76 11.6 | — | — | — | — | 37.3 | 75 22.3 | |
| | 11 4 | W. G. | 75 01.2 | 76 33.2 | 75 43.5 | 76 10.3 | 74 49.7 | 74 30.3 | 75 17.4 | 73 52.6 | — | 75 14.8 | |
| | 14 20 | W. H. | 75 06.1 | 73 49.9 | 74 22.3 | 75 36.9 | — | — | — | — | 28.9 | 75 12.7 | |
| | 15 4 | W. H. | 76 49.4 | 75 36.2 | 76 11.2 | 74 58.8 | 73 49.0 | 75 12.3 | 75 06.4 | 75 36.6 | — | 75 25.0 | |
| | 17 20 | T. M. | 75 09.8 | 76 40.7 | 75 33.5 | 76 15.6 | — | — | — | — | 34.8 | 75 17.8 | |
| | 18 4 | T. M. | 74 56.4 | 76 44.5 | 75 33.1 | 76 11.4 | 75 05.8 | 74 19.7 | 75 34.1 | 73 47.1 | — | 75 16.5 | |
| | 21 20 | J. W. | 74 47.4 | 76 41.9 | 75 37.8 | 76 18.1 | — | — | — | — | 33.9 | 75 17.4 | |
| | 22 4 | J. W. | 74 48.5 | 76 49.7 | 75 30.4 | 76 17.0 | 75 08.1 | 74 28.1 | 75 39.0 | 73 39.4 | — | 75 17.5 | |
| | 24 20 | J. J. | 74 42.8 | 77 09.2 | 75 19.3 | 76 31.3 | — | — | — | — | 34.3 | 75 21.3 | |
| | 25 4 | J. J. | 74 44.7 | 76 58.4 | 75 18.7 | 76 34.9 | 74 41.2 | 74 48.0 | 75 15.8 | 74 17.5 | — | 75 19.9 | |
| | 28 20 | W. G. | 74 51.4 | 76 47.6 | 75 48.8 | 76 15.3 | — | — | — | — | 34.7 | 75 21.1 | |
| | 29 4 | W. G. | 75 03.0 | 76 47.4 | 75 38.1 | 76 10.6 | 75 08.8 | 74 26.1 | 75 47.5 | 73 38.7 | — | 75 20.0 | |
| Jan. | | | | | | | | | | | | | |
| | 31 20 | W. H. | 74 58.0 | 76 48.2 | 75 42.4 | 76 12.0 | — | — | — | — | 34.6 | 75 20.5 | |
| | 1 4 | W. H. | 74 55.6 | 76 35.4 | 75 40.0 | 76 07.4 | 75 03.6 | 74 20.2 | 75 32.6 | 73 45.2 | — | 75 15.0 | |
| | 7 20 | J. W. | 75 18.0 | 76 31.8 | 75 44.9 | 76 01.2 | — | — | — | — | 34.3 | 75 19.7 | |
| | 8 4 | J. W. | 75 12.2 | 76 35.4 | 75 45.7 | 76 00.1 | 75 02.5 | 74 36.5 | 75 28.4 | 73 51.2 | — | 75 18.9 | |
| | 11 20 | J. J. | 74 54.8 | 76 55.5 | 75 25.4 | 76 22.5 | — | — | — | — | 38.9 | 75 15.6 | |
| | 12 4 | J. J. | 74 51.5 | 77 01.2 | 75 30.4 | 76 33.6 | 74 41.0 | 74 57.0 | 74 48.3 | 74 19.1 | — | 75 20.2 | |
| | 14 20 | W. G. | 75 15.2 | 76 40.5 | 75 50.1 | 76 10.1 | — | — | — | — | 27.8 | 75 31.2 | |
| | 15 4 | W. G. | 75 16.2 | 76 45.3 | 75 49.3 | 76 10.7 | 74 40.7 | 75 14.8 | 74 27.7 | 75 56.2 | — | 75 32.6 | |
| | 18 20 | W. H. | 74 59.4 | 76 39.2 | 75 36.8 | 76 18.9 | — | — | — | — | 36.7 | 75 16.9 | |
| | 19 4 | W. H. | 75 00.6 | 76 43.2 | 75 42.8 | 76 11.8 | 75 03.2 | 74 20.2 | 75 39.2 | 73 42.2 | — | 75 17.9 | |
| | 21 20 | T. M. | 75 04.0 | 76 17.2 | 75 10.4 | 76 22.0 | — | — | — | — | 35.0 | 75 08.4 | |
| | 22 4 | T. M. | 75 29.0 | 76 35.1 | 75 17.8 | 76 17.0 | 75 21.2 | 74 21.9 | 75 07.8 | 74 07.8 | — | 75 19.7 | |
| | 25 20 | J. W. | 75 27.0 | 76 21.0 | 75 25.9 | 76 20.3 | — | — | — | — | 34.4 | 75 19.1 | |
| | 26 4 | J. W. | 75 21.9 | 76 18.9 | 75 27.4 | 76 21.7 | 75 19.0 | 74 20.7 | 74 58.2 | 74 16.4 | — | 75 18.0 | |
| Feb. | | | | | | | | | | | | | |
| | 28 20 | J. J. | 74 37.6 | 74 36.8 | 75 12.2 | 76 43.1 | — | — | — | — | 21.3 | 75 16.1 | |
| | 1 4 | J. J. | 74 41.6 | 76 36.0 | 75 15.4 | 76 40.6 | 75 00.4 | 74 30.9 | 74 55.0 | 74 36.9 | — | 75 17.1 | |
| | 4 20 | W. G. | 75 18.7 | 75 47.8 | 75 19.8 | 76 15.1 | — | — | — | — | 28.0 | 75 12.3 | |
| | 5 4 | W. G. | 75 19.6 | 76 16.4 | 75 11.5 | 76 10.0 | 75 38.7 | 73 59.8 | 74 10.6 | 75 24.6 | — | 75 16.4 | |
| | 7 20 | W. H. | 75 26.0 | 76 22.6 | 75 24.6 | 76 14.6 | — | — | — | — | 31.6 | 75 20.3 | |
| | 8 4 | W. H. | 75 23.6 | 76 17.0 | 75 28.0 | 76 22.2 | 75 20.4 | 74 23.4 | 75 22.6 | 74 11.8 | — | 75 21.1 | |
| | 11 20 | T. M. | 75 47.0 | 75 52.2 | 75 43.6 | 75 47.9 | — | — | — | — | 36.0 | 75 11.7 | |
| | 12 4 | T. M. | 75 50.5 | 75 45.0 | 75 52.7 | 75 40.9 | 74 52.2 | 74 09.0 | 74 43.4 | 74 36.6 | — | 75 11.3 | |
| | 14 20 | J. W. | 75 19.7 | 76 20.8 | 75 13.1 | 76 12.7 | — | — | — | — | 33.8 | 75 12.8 | |
| | 15 4 | J. W. | 75 21.9 | 76 13.8 | 75 18.2 | 76 20.4 | 75 20.4 | 74 02.9 | 75 03.5 | 74 16.7 | — | 75 14.7 | |
| | 18 20 | J. J. | 74 59.2 | 76 33.1 | 74 55.5 | 76 42.3 | — | — | — | — | 31.3 | 75 16.2 | |
| | 19 4 | J. J. | 75 02.8 | 76 33.5 | 74 57.4 | 76 38.1 | 75 28.2 | 74 09.4 | 75 13.9 | 74 09.9 | — | 75 16.6 | |
| | 21 20 | J. J. | 75 00.7 | 76 21.4 | 74 46.2 | 76 26.3 | — | — | — | — | 33.6 | 75 05.0 | |
| | 22 4 | T. M. | 75 02.5 | 76 30.5 | 75 00.4 | 76 25.1 | 75 13.9 | 73 54.9 | 75 10.6 | 74 10.2 | — | 75 11.0 | |
| | 25 20 | J. W. | 75 09.0 | 76 26.6 | 75 06.2 | 76 22.8 | — | — | — | — | 34.0 | 75 12.1 | |
| | 26 4 | J. W. | 75 10.4 | 76 26.0 | 75 11.4 | 76 22.5 | 75 10.6 | 74 03.4 | 75 06.5 | 74 18.1 | — | 75 13.6 | |
| | 28 20 | J. J. | 75 17.2 | 76 25.6 | 75 08.0 | 76 20.0 | — | — | — | — | 30.5 | 75 17.2 | |
| | 29 4 | J. J. | 75 17.2 | 76 25.3 | 75 08.5 | 76 20.0 | 75 09.3 | 74 20.0 | 75 10.0 | 74 27.2 | — | 75 17.1 | |
| March. | | | | | | | | | | | | | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | |
| 1845. | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| April. | | | | | | | | | | | | |
| 1 20 | W. G. | 75 05.9 | 76 20.8 | 75 18.6 | 76 27.0 | — | — | — | — | 35.3 | 75 12.8 | } 75 11.5 |
| 2 4 | W. G. | 75 12.4 | 76 25.7 | 75 13.3 | 76 21.3 | 74 57.2 | 73 56.6 | 75 15.3 | 74 21.2 | — | 75 12.9 | |
| 4 20 | W. H. | 75 19.4 | 76 30.6 | 75 13.9 | 76 09.6 | — | — | — | — | 33.6 | 75 14.8 | |
| 5 4 | W. H. | 75 23.0 | 76 28.4 | 75 17.6 | 76 08.4 | 75 08.6 | 74 11.8 | 75 06.1 | 74 21.4 | — | 75 15.6 | |
| 8 20 | T. M. | 75 31.4 | 76 11.1 | 75 23.5 | 76 09.7 | — | — | — | — | 34.1 | 75 14.8 | |
| 9 4 | T. M. | 75 31.2 | 75 26.1 | 75 27.4 | 76 09.4 | 75 04.7 | 74 01.9 | 74 40.0 | 74 14.2 | — | 75 04.3 | |
| 11 20 | J. W. | 75 51.4 | 75 47.0 | 75 27.7 | 76 22.1 | — | — | — | — | 37.1 | 75 14.9 | |
| 12 4 | J. W. | 75 51.6 | 75 56.1 | 75 21.9 | 76 15.4 | 74 56.8 | 74 04.0 | 75 04.4 | 74 22.3 | — | 75 14.0 | |
| 15 20 | J. J. | 75 22.7 | 75 47.1 | 75 24.8 | 76 23.5 | — | — | — | — | 30.1 | 75 14.4 | |
| 16 4 | J. J. | 75 20.8 | 76 00.0 | 75 18.2 | 76 06.9 | 75 02.5 | 74 03.3 | 75 28.1 | 74 11.4 | — | 75 11.4 | |
| 18 20 | W. G. | 75 21.7 | 75 59.8 | 75 22.4 | 76 11.2 | — | — | — | — | 32.4 | 75 11.4 | |
| 19 4 | W. G. | 75 32.1 | 76 02.1 | 75 31.6 | 76 10.6 | 75 09.8 | 74 11.9 | 75 15.6 | 74 19.8 | — | 75 16.7 | |
| 25 20 | T. M. | 76 38.2 | 75 38.3 | 76 46.9 | 75 31.9 | — | — | — | — | 59.8 | 75 09.0 | |
| 26 4 | T. M. | 76 34.0 | 75 36.3 | 76 43.0 | 75 28.8 | 73 37.8 | 74 33.1 | 73 42.9 | 74 30.3 | — | 75 05.7 | |
| 29 20 | J. W. | 76 49.0 | 75 37.0 | 76 44.9 | 75 32.3 | — | — | — | — | 66.3 | 75 04.5 | |
| 30 4 | W. G. | 76 43.1 | 75 40.7 | 76 52.5 | 75 38.9 | 73 40.6 | 74 20.7 | 73 30.6 | 74 32.4 | — | 75 07.4 | |
| May. | | | | | | | | | | | | |
| 2 20 | J. J. | 76 31.9 | 75 45.7 | 76 43.7 | 75 36.2 | — | — | — | — | 61.1 | 75 08.3 | } 75 15.4 |
| 3 4 | J. J. | 76 28.8 | 75 47.0 | 76 33.9 | 75 41.5 | 73 30.0 | 74 40.9 | 73 30.0 | 74 41.6 | — | 75 06.7 | |
| 6 20 | W. G. | 76 29.7 | 74 19.4 | 76 20.0 | 74 29.5 | — | — | — | — | 4.2 | 75 20.4 | |
| 7 5 | W. G. | 76 23.0 | 74 14.3 | 76 20.5 | 74 31.4 | 74 01.0 | 76 25.7 | 73 59.4 | 76 29.4 | — | 75 18.1 | |
| 9 20 | W. H. | 76 29.2 | 74 12.6 | 76 16.8 | 74 26.0 | — | — | — | — | 3.2 | 75 18.0 | |
| 10 4 | W. H. | 76 28.6 | 74 15.6 | 76 15.7 | 74 23.9 | 74 04.4 | 76 18.8 | 74 07.4 | 76 27.1 | — | 75 17.6 | |
| 13 20 | T. M. | 76 30.1 | 74 01.1 | 76 31.3 | 74 07.9 | — | — | — | — | 2.7 | 75 14.9 | |
| 14 4 | T. M. | 76 30.1 | 74 00.0 | 76 32.2 | 74 05.2 | 73 56.9 | 76 21.3 | 74 10.8 | 76 16.6 | — | 75 14.1 | |
| 16 20 | J. W. | 76 31.7 | 74 12.7 | 76 21.3 | 74 19.6 | — | — | — | — | 2.3 | 75 19.0 | |
| 17 4 | J. W. | 76 34.4 | 73 55.0 | 76 17.6 | 74 16.9 | 74 17.0 | 76 09.8 | 73 57.6 | 76 21.1 | — | 75 13.7 | |
| 20 20 | J. J. | 76 41.4 | 73 59.0 | 76 28.6 | 74 21.0 | — | — | — | — | 5.3 | 75 17.2 | |
| 21 4 | J. J. | 76 39.7 | 74 00.8 | 76 24.6 | 74 19.1 | 74 26.1 | 76 02.0 | 73 52.9 | 76 20.4 | — | 75 15.6 | |
| 23 20 | W. G. | 76 51.8 | 73 57.1 | 76 17.3 | 74 17.7 | — | — | — | — | 1.9 | 75 19.0 | |
| 24 4 | W. G. | 76 47.9 | 73 49.7 | 76 25.2 | 74 09.2 | 74 07.1 | 76 15.4 | 74 09.6 | 76 25.0 | — | 75 16.1 | |
| 27 20 | W. H. | 76 29.8 | 74 12.2 | 76 16.0 | 74 22.8 | — | — | — | — | 6.9 | 75 13.3 | |
| 28 4 | W. H. | 76 31.7 | 74 11.0 | 76 23.8 | 74 24.4 | 74 15.8 | 76 09.6 | 73 51.8 | 76 18.6 | — | 75 15.8 | |
| 30 20 | T. M. | 76 31.4 | 74 08.1 | 76 18.7 | 74 21.8 | — | — | — | — | 6.2 | 75 13.8 | |
| 31 4 | T. M. | 76 40.3 | 74 02.5 | 76 26.4 | 74 17.7 | 74 13.7 | 76 02.5 | 74 01.2 | 76 19.8 | — | 75 15.5 | |
| June. | | | | | | | | | | | | |
| 3 20 | J. W. | 76 24.0 | 74 09.6 | 76 23.9 | 74 35.2 | — | — | — | — | 6.9 | 75 16.3 | } 75 15.2 |
| 4 4 | J. W. | 76 32.1 | 74 12.6 | 76 20.0 | 74 30.0 | 74 12.0 | 76 09.8 | 73 53.7 | 76 24.0 | — | 75 16.8 | |
| 6 20 | J. J. | 76 41.6 | 74 02.7 | 76 28.8 | 74 19.8 | — | — | — | — | 7.5 | 75 15.7 | |
| 7 4 | J. J. | 76 41.9 | 73 59.0 | 76 27.8 | 74 19.4 | 74 18.2 | 76 00.0 | 74 03.6 | 76 05.8 | — | 75 14.4 | |
| 10 20 | W. G. | 77 09.8 | 74 14.8 | 76 21.8 | 74 27.2 | — | — | — | — | 12.2 | 75 21.2 | |
| 11 4 | W. G. | 76 31.4 | 74 04.8 | 76 25.4 | 74 50.4 | 73 57.2 | 76 04.6 | 73 54.4 | 76 18.0 | — | 75 15.8 | |
| 13 20 | J. J. | 76 41.8 | 74 01.6 | 76 23.5 | 74 20.4 | — | — | — | — | 9.1 | 75 12.7 | |
| 14 4 | J. J. | 76 40.2 | 74 00.8 | 76 29.8 | 74 17.2 | 74 15.2 | 75 50.4 | 74 05.1 | 76 04.0 | — | 75 12.8 | |
| 17 20 | T. M. | 76 46.4 | 74 01.1 | 76 31.2 | 74 13.8 | — | — | — | — | 9.0 | 75 14.1 | |
| 18 4 | T. M. | 76 48.7 | 74 00.3 | 76 40.6 | 74 09.8 | 74 00.9 | 76 04.4 | 73 56.1 | 76 25.8 | — | 75 15.8 | |
| 20 20 | J. W. | 76 40.3 | 74 02.1 | 76 22.6 | 74 22.8 | — | — | — | — | 10.3 | 75 11.6 | |
| 21 4 | J. W. | 76 42.0 | 73 58.4 | 76 26.2 | 74 27.6 | 74 01.3 | 75 59.0 | 73 47.3 | 76 23.5 | — | 75 13.1 | |
| 24 20 | J. J. | 76 40.8 | 74 12.2 | 76 24.4 | 74 24.2 | — | — | — | — | 12.1 | 75 13.3 | |
| 25 4 | J. J. | 76 34.0 | 74 11.2 | 76 29.2 | 74 29.0 | 74 00.0 | 76 06.6 | 73 56.0 | 76 04.0 | — | 75 13.7 | |
| 27 20 | W. G. | 76 35.7 | 74 12.7 | 76 41.4 | 74 21.2 | — | — | — | — | 7.5 | 75 20.3 | |
| 28 4 | W. G. | 76 41.4 | 74 06.2 | 76 24.4 | 74 22.4 | 73 55.3 | 76 23.4 | 73 43.1 | 76 32.8 | — | 75 16.1 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|-------------------|---|
| | | Face of Needle. | | | | Face of Needle. | | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | | |
| 1845. | | | | | | | | | | | | | |
| D. H. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| July. | | | | | | | | | | | | | |
| 1 20 | W. H. | 76 40.2 | 74 09.8 | 76 19.2 | 74 23.6 | — | — | — | — | 8.4 | 75 14.8 | | |
| 2 4 | W. H. | 76 39.2 | 74 00.2 | 76 23.0 | 74 22.4 | 74 03.8 | 76 03.2 | 73 47.0 | 76 23.2 | — | 75 12.7 | | |
| 4 20 | T. M. | 76 45.6 | 74 00.4 | 76 29.7 | 74 11.8 | — | — | — | — | 10.4 | 75 11.5 | | |
| 5 4 | T. M. | 76 42.3 | 74 01.6 | 76 33.0 | 74 14.1 | 73 50.7 | 76 10.4 | 73 41.1 | 76 25.4 | — | 75 12.3 | | |
| 8 20 | J. W. | 76 38.4 | 74 11.4 | 76 26.6 | 74 27.7 | — | — | — | — | 11.4 | 75 14.6 | | |
| 9 4 | J. W. | 76 38.5 | 74 07.6 | 76 29.0 | 74 22.2 | 73 55.9 | 76 05.4 | 73 41.8 | 76 22.9 | — | 75 12.9 | | |
| 11 20 | J. J. | 76 32.6 | 74 10.8 | 76 21.4 | 74 26.8 | — | — | — | — | 10.2 | 75 12.7 | | |
| 12 4 | J. J. | 76 52.5 | 74 12.2 | 76 30.5 | 74 12.0 | 73 55.6 | 76 00.8 | 73 55.0 | 76 34.0 | — | 75 16.5 | | |
| 15 20 | W. G. | 76 30.6 | 74 23.7 | 76 38.6 | 74 27.2 | — | — | — | — | 10.9 | 75 19.1 | | |
| 16 4 | W. G. | 76 53.9 | 74 15.6 | 76 33.1 | 74 17.0 | 73 57.4 | 76 16.0 | 73 49.2 | 76 29.9 | — | 75 19.0 | 75 14.2 | |
| 18 20 | W. H. | 76 39.2 | 74 10.8 | 76 30.2 | 74 24.2 | — | — | — | — | 12.4 | 75 13.7 | | |
| 19 4 | W. H. | 76 41.4 | 74 11.0 | 76 25.8 | 74 25.6 | 73 54.6 | 76 06.8 | 73 41.8 | 76 20.8 | — | 75 13.4 | | |
| 22 20 | T. M. | 76 40.2 | 74 08.2 | 76 20.3 | 74 19.5 | — | — | — | — | 11.4 | 75 10.6 | | |
| 23 4 | T. M. | 76 44.0 | 74 04.7 | 76 30.0 | 74 20.8 | 73 59.2 | 75 59.7 | 73 52.8 | 76 17.0 | — | 75 13.5 | | |
| 25 20 | J. W. | 76 39.5 | 74 05.7 | 76 28.4 | 74 21.7 | — | — | — | — | 10.8 | 75 13.0 | | |
| 26 4 | J. W. | 76 42.5 | 74 05.5 | 76 29.3 | 74 18.9 | 74 02.1 | 76 05.5 | 73 50.4 | 76 11.3 | — | 75 13.1 | | |
| 29 20 | J. J. | 76 49.9 | 74 03.0 | 76 42.9 | 74 11.4 | — | — | — | — | 10.1 | 75 16.7 | | |
| 30 4 | J. J. | 76 56.0 | 74 00.5 | 76 36.5 | 74 09.2 | 74 11.2 | 75 52.3 | 73 59.6 | 76 18.1 | — | 75 15.4 | | |
| August. | | | | | | | | | | | | | |
| 1 20 | W. G. | 76 36.7 | 74 14.6 | 76 13.9 | 74 30.8 | — | — | — | — | 10.4 | 75 13.6 | | |
| 2 4 | W. G. | 76 34.9 | 74 15.4 | 76 29.2 | 74 29.9 | 73 42.6 | 76 30.2 | 73 41.5 | 76 31.8 | — | 75 16.9 | | |
| 5 20 | W. H. | 76 38.8 | 74 09.2 | 76 30.4 | 74 23.5 | — | — | — | — | 10.5 | 75 15.0 | | |
| 6 4 | W. H. | 76 40.2 | 74 10.0 | 76 31.2 | 74 18.4 | 73 58.9 | 76 07.0 | 73 51.8 | 76 18.1 | — | 75 14.4 | | |
| 8 20 | T. M. | 76 50.0 | 74 02.8 | 76 32.0 | 73 49.6 | — | — | — | — | 9.0 | 75 09.6 | | |
| 9 4 | T. M. | 76 48.0 | 73 59.3 | 76 30.0 | 74 09.6 | 74 08.6 | 76 07.3 | 73 56.6 | 76 02.3 | — | 75 12.7 | | |
| 12 20 | J. W. | 76 39.8 | 74 02.6 | 76 23.1 | 74 16.8 | — | — | — | — | 9.8 | 75 10.8 | | |
| 13 4 | J. W. | 76 40.4 | 74 02.9 | 76 27.0 | 74 18.2 | 74 01.9 | 76 00.7 | 73 49.1 | 76 18.3 | — | 75 12.3 | | |
| 15 20 | J. J. | 76 36.9 | 74 12.8 | 76 25.1 | 74 26.9 | — | — | — | — | 11.1 | 75 14.3 | | |
| 16 4 | J. J. | 76 36.1 | 74 11.6 | 76 28.2 | 74 24.9 | 74 00.6 | 76 05.6 | 73 50.8 | 76 14.8 | — | 75 14.0 | 75 14.4 | |
| 19 20 | W. G. | 76 37.2 | 74 09.7 | 76 35.2 | 74 29.6 | — | — | — | — | 8.0 | 75 19.9 | | |
| 20 4 | W. G. | 76 36.4 | 74 21.3 | 76 34.8 | 74 24.6 | 74 15.5 | 76 30.6 | 73 54.4 | 76 12.6 | — | 75 21.3 | | |
| 22 20 | W. H. | 76 40.8 | 74 04.5 | 76 26.6 | 74 23.0 | — | — | — | — | 10.5 | 75 13.2 | | |
| 23 4 | W. H. | 76 43.2 | 74 07.7 | 76 27.9 | 74 24.0 | 74 03.8 | 76 04.8 | 73 51.2 | 76 18.6 | — | 75 15.1 | | |
| 26 20 | T. M. | 76 44.9 | 74 07.2 | 76 34.3 | 74 24.6 | — | — | — | — | 13.0 | 75 14.7 | | |
| 27 4 | T. M. | 76 42.1 | 74 04.1 | 76 29.7 | 74 25.0 | 73 49.3 | 76 03.4 | 73 46.6 | 76 17.4 | — | 75 12.2 | | |
| 29 20 | J. W. | 76 33.4 | 74 21.3 | 76 22.4 | 74 33.2 | — | — | — | — | 12.7 | 75 14.9 | | |
| 30 4 | J. W. | 76 32.8 | 74 20.1 | 76 23.1 | 74 33.5 | 74 00.8 | 76 00.3 | 73 52.0 | 76 14.6 | — | 75 14.6 | | |
| September. | | | | | | | | | | | | | |
| 2 20 | W. H. | 76 34.6 | 74 19.5 | 76 29.0 | 74 23.5 | — | — | — | — | 12.2 | 75 14.4 | | |
| 3 4 | W. H. | 76 36.2 | 74 13.2 | 76 29.6 | 74 27.8 | 74 04.2 | 76 02.4 | 73 51.1 | 76 11.5 | — | 75 14.5 | | |
| 5 20 | W. G. | 76 33.0 | 74 23.0 | 76 32.4 | 74 33.2 | — | — | — | — | 10.8 | 75 19.6 | | |
| 6 4 | W. G. | 76 40.0 | 74 13.4 | 76 34.1 | 74 22.7 | 73 58.3 | 76 15.2 | 73 52.4 | 76 17.8 | — | 75 16.7 | | |
| 9 20 | W. H. | 76 37.6 | 74 12.0 | 76 31.1 | 74 32.2 | — | — | — | — | 10.7 | 75 17.5 | | |
| 10 4 | W. H. | 76 38.4 | 74 16.4 | 76 26.8 | 74 28.8 | 74 07.0 | 76 07.4 | 73 45.4 | 76 25.2 | — | 75 16.9 | | |
| 12 20 | T. M. | 76 51.9 | 74 00.2 | 76 35.5 | 74 18.5 | — | — | — | — | 9.0 | 75 17.5 | | |
| 13 4 | T. M. | 76 47.2 | 74 01.3 | 76 35.3 | 74 22.4 | 74 05.8 | 76 19.4 | 73 56.6 | 76 12.3 | — | 75 17.5 | | |
| 16 20 | J. W. | 76 36.5 | 74 09.7 | 76 19.2 | 74 29.0 | — | — | — | — | 9.8 | 75 13.8 | | |
| 17 4 | J. W. | 76 41.1 | 74 07.3 | 76 20.6 | 74 22.8 | 74 11.2 | 75 54.2 | 73 50.5 | 76 16.8 | — | 75 13.0 | | |
| 19 20 | J. J. | 76 41.3 | 74 17.4 | 76 21.0 | 74 41.6 | — | — | — | — | 11.5 | 75 18.8 | | |
| 20 4 | J. J. | 76 34.8 | 74 27.8 | 76 27.8 | 74 27.8 | 73 59.9 | 76 08.8 | 73 59.6 | 76 17.4 | — | 75 17.9 | | |
| 23 20 | W. G. | 76 30.7 | 74 18.4 | 76 34.9 | 74 19.8 | — | — | — | — | 9.2 | 75 19.0 | | |
| 24 4 | W. G. | 76 43.0 | 74 14.1 | 76 31.5 | 74 27.8 | 73 54.4 | 76 11.8 | 74 11.0 | 76 25.3 | — | 75 19.8 | | |
| 26 20 | W. H. | 76 37.7 | 74 13.0 | 76 16.8 | 74 26.8 | — | — | — | — | 8.0 | 75 15.6 | | |
| 27 4 | W. H. | 76 36.0 | 74 13.8 | 76 15.8 | 74 25.0 | 73 55.2 | 76 16.6 | 73 53.2 | 76 20.8 | — | 75 14.5 | | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Half- Difference between Poles "Direct" and "Reversed." | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | |
| 1845. | | | | | | | | | | | | |
| Sept. 30 20 | W. G. | 76 27.7 | 74 15.9 | 76 15.0 | 74 31.2 | — | — | — | — | 16.1 | 75 06.3 | |
| 1 4 | W. G. | 76 39.2 | 74 28.8 | 76 30.1 | 74 38.0 | 73 50.0 | 76 03.7 | 73 55.0 | 76 18.1 | — | 75 17.9 | |
| 3 20 | J. W. | 76 33.0 | 74 16.4 | 76 22.2 | 74 20.6 | — | — | — | — | 10.9 | 75 12.1 | |
| 4 4 | J. W. | 76 37.1 | 74 20.4 | 76 18.7 | 74 18.1 | 74 04.0 | 75 59.8 | 73 45.8 | 76 17.2 | — | 75 12.6 | |
| 7 20 | J. J. | 76 35.8 | 74 16.4 | 76 34.0 | 74 35.2 | — | — | — | — | 13.9 | 75 16.4 | |
| 8 4 | J. J. | 76 34.5 | 74 21.8 | 76 24.0 | 74 41.0 | 74 05.4 | 75 59.5 | 73 46.3 | 76 18.6 | — | 75 16.3 | |
| 10 20 | W. G. | 76 39.0 | 74 16.7 | 76 29.6 | 74 21.0 | — | — | — | — | 15.1 | 75 11.5 | |
| 11 4 | W. G. | 76 37.3 | 74 28.9 | 76 29.2 | 74 31.6 | 74 04.8 | 76 04.8 | 73 47.0 | 76 09.2 | — | 75 16.5 | |
| 14 20 | W. H. | 76 34.8 | 74 19.0 | 76 31.2 | 74 28.6 | — | — | — | — | 13.5 | 75 14.9 | |
| 15 4 | W. H. | 76 35.0 | 74 19.0 | 76 25.6 | 74 29.2 | 74 03.2 | 76 02.2 | 73 45.4 | 76 10.2 | — | 75 13.7 | 75 14.3 |
| 17 20 | T. M. | 76 39.7 | 74 11.3 | 76 28.0 | 74 26.9 | — | — | — | — | 13.7 | 75 12.8 | |
| 18 4 | T. M. | 76 44.1 | 74 11.4 | 76 32.6 | 74 22.2 | 73 53.8 | 75 57.3 | 73 56.1 | 76 13.4 | — | 75 13.8 | |
| 21 20 | J. W. | 76 56.0 | 74 16.7 | 76 39.4 | 74 40.5 | — | — | — | — | 16.5 | 75 21.6 | |
| 22 4 | J. W. | 76 52.0 | 74 15.5 | 76 34.4 | 74 40.2 | 74 01.8 | 76 07.6 | 73 41.0 | 76 19.8 | — | 75 19.0 | |
| 24 20 | J. J. | 76 41.2 | 74 21.4 | 76 25.9 | 74 36.8 | — | — | — | — | 19.1 | 75 12.2 | |
| 25 4 | J. J. | 76 44.2 | 74 30.4 | 76 35.0 | 74 41.4 | 74 00.2 | 76 00.0 | 73 28.4 | 76 29.0 | — | 75 18.5 | |
| 28 20 | J. J. | 76 53.3 | 74 01.8 | 77 02.1 | 74 15.9 | — | — | — | — | 24.4 | 75 08.9 | |
| 29 4 | W. G. | 77 06.8 | 74 08.3 | 76 53.5 | 74 19.9 | 73 57.3 | 75 57.9 | 73 04.1 | 76 13.8 | — | 75 12.7 | |
| Oct. 31 20 | W. G. | 76 52.6 | 74 04.7 | 77 02.3 | 74 34.2 | — | — | — | — | 17.8 | 75 20.6 | |
| 1 4 | W. H. | 77 02.4 | 73 53.2 | 77 07.4 | 74 25.4 | 73 49.8 | 76 09.0 | 73 53.4 | 76 13.6 | — | 75 19.2 | |
| 4 20 | W. H. | 77 22.6 | 73 48.7 | 77 26.0 | 73 57.4 | — | — | — | — | 20.0 | 75 18.7 | |
| 5 4 | T. M. | 77 20.0 | 73 43.3 | 77 24.6 | 73 56.5 | 73 36.8 | 76 07.4 | 73 25.6 | 76 34.3 | — | 75 16.0 | |
| 7 20 | J. W. | 77 00.2 | 74 11.0 | 77 04.7 | 74 07.3 | — | — | — | — | 19.7 | 75 16.1 | |
| 8 4 | J. W. | 77 08.8 | 74 03.0 | 77 12.6 | 74 06.0 | 73 35.4 | 76 12.7 | 73 22.8 | 76 42.1 | — | 75 17.9 | |
| 11 20 | J. J. | 77 01.0 | 74 14.1 | 77 01.6 | 74 18.0 | — | — | — | — | 21.9 | 75 16.8 | |
| 12 4 | J. J. | 77 12.0 | 74 09.8 | 76 55.5 | 74 22.4 | 73 23.7 | 76 30.2 | 73 08.4 | 76 42.0 | — | 75 18.0 | |
| 14 20 | W. G. | 77 03.4 | 73 58.3 | 77 04.6 | 74 08.1 | — | — | — | — | 25.4 | 75 08.2 | |
| 15 4 | W. G. | 77 00.9 | 74 09.6 | 77 05.1 | 74 17.1 | 73 15.9 | 76 18.1 | 73 18.4 | 76 16.8 | — | 75 12.7 | 75 16.8 |
| 18 20 | W. H. | — | — | — | — | 73 44.1 | 76 15.4 | 73 25.7 | 76 35.9 | 17.4 | 75 17.7 | |
| 19 4 | W. H. | 76 59.1 | 74 08.4 | 77 00.6 | 74 11.3 | 73 41.5 | 76 18.2 | 73 23.0 | 76 36.9 | — | 75 17.3 | |
| 21 20 | T. M. | 76 52.3 | 74 08.1 | 76 49.2 | 74 19.5 | — | — | — | — | 17.7 | 75 14.6 | |
| 22 4 | T. M. | 76 56.9 | 74 04.0 | 76 58.6 | 74 16.6 | 73 49.9 | 76 04.7 | 73 40.2 | 76 19.4 | — | 75 16.2 | |
| 25 20 | J. W. | 77 00.3 | 74 13.0 | 76 56.6 | 74 24.6 | — | — | — | — | 18.3 | 75 20.3 | |
| 26 4 | J. W. | 77 01.1 | 74 03.8 | 76 57.6 | 74 17.7 | 73 49.8 | 76 13.0 | 73 21.5 | 76 29.2 | — | 75 16.7 | |
| 28 20 | J. J. | 77 06.8 | 74 00.8 | 77 00.0 | 74 12.5 | — | — | — | — | — | 75 17.3 | |
| 29 4 | J. J. | 77 09.3 | 73 57.6 | 77 03.3 | 74 11.6 | 73 49.1 | 76 10.7 | 73 31.1 | 76 29.1 | — | 75 17.7 | |
| Dec. 5 20 | W. H. | 76 51.6 | 74 13.5 | 76 53.1 | 74 14.3 | 73 28.2 | 76 41.3 | 73 26.1 | 76 39.8 | 9.0 | 75 18.4 | |
| 6 4 | W. H. | 76 49.3 | 74 12.3 | 76 53.4 | 74 14.4 | 73 31.5 | 76 35.1 | 73 32.5 | 76 36.7 | — | 75 18.1 | |
| 9 20 | T. M. | 76 53.9 | 73 58.8 | 76 57.1 | 74 00.7 | — | — | — | — | 19.2 | 75 08.4 | |
| 10 4 | T. M. | 77 02.1 | 74 04.5 | 76 58.8 | 74 05.9 | 73 55.3 | 75 41.1 | 73 33.4 | 76 27.6 | — | 75 13.5 | |
| 12 20 | J. W. | 76 52.6 | 74 00.4 | 77 01.6 | 74 08.0 | — | — | — | — | 17.5 | 75 13.1 | |
| 13 4 | J. W. | 77 02.3 | 74 00.4 | 77 05.7 | 74 07.9 | 73 39.8 | 76 13.7 | 73 35.3 | 76 27.4 | — | 75 16.5 | |
| 16 20 | J. J. | 76 56.0 | 73 59.6 | 76 59.5 | 74 01.3 | 73 39.4 | 76 16.8 | 73 37.4 | 76 31.2 | — | 75 15.1 | |
| 17 4 | J. J. | 76 59.9 | 74 08.4 | 76 55.3 | 73 58.8 | 73 39.5 | 76 20.4 | 73 31.7 | 76 29.4 | — | 75 15.4 | |
| 19 20 | W. G. | 76 36.4 | 74 16.5 | 76 45.1 | 74 04.9 | — | — | — | — | 16.5 | 75 09.2 | 75 15.2 |
| 20 4 | W. G. | 77 05.2 | 74 09.9 | 76 54.7 | 74 06.8 | 73 04.6 | 77 11.2 | 73 07.4 | 76 41.3 | — | 75 17.6 | |
| 23 20 | W. H. | 77 02.6 | 74 03.0 | 77 03.8 | 74 05.1 | — | — | — | — | 17.6 | 75 16.0 | |
| 24 4 | W. H. | 77 04.0 | 74 03.5 | 77 03.6 | 74 04.8 | 73 38.4 | 76 17.9 | 73 35.9 | 76 22.8 | — | 75 16.3 | |
| 26 20 | W. H. | 77 00.3 | 74 04.2 | 77 03.0 | 74 03.1 | — | — | — | — | 15.3 | 75 17.3 | |
| 27 4 | W. H. | 76 59.9 | 74 01.9 | 76 53.6 | 74 11.2 | 73 44.7 | 76 20.3 | 73 44.2 | 76 14.3 | — | 75 16.2 | |
| 30 20 | W. G. | 76 58.7 | 74 04.9 | 77 02.6 | 74 01.7 | — | — | — | — | 17.4 | 75 14.6 | |
| 31 4 | W. G. | 77 00.6 | 74 13.5 | 77 02.8 | 74 06.2 | 73 32.3 | 76 32.8 | 73 34.0 | 76 24.5 | — | 75 18.3 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Gambey, G. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|---------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | | |
| 1846. | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| 2 20 ^a | W. H. | 75 00.9 | 75 32.1 | 75 39.4 | 74 56.2 | 74 58.9 | 75 43.9 | 75 26.3 | 74 40.3 | 75 14.7 | | |
| 3 4 | W. H. | 75 01.1 | 75 34.7 | 75 39.9 | 74 57.9 | 74 59.2 | 75 42.4 | 75 28.8 | 74 41.2 | 75 15.6 | | |
| 6 20 | T. M. | 74 55.6 | 75 44.7 | 75 28.5 | 74 35.7 | 75 00.8 | 75 28.5 | 75 31.2 | 74 55.1 | 75 12.5 | | |
| 7 4 | T. M. | 74 54.4 | 75 40.8 | 75 28.1 | 74 36.8 | 74 56.9 | 75 34.4 | 75 28.3 | 75 02.5 | 75 12.7 | | |
| 9 20 | J. W. | 75 00.8 | 75 43.9 | 75 32.7 | 74 43.5 | 75 00.0 | 75 24.7 | 75 31.8 | 74 58.4 | 75 14.4 | | |
| 10 4 | J. W. | 75 00.6 | 75 40.4 | 75 30.2 | 74 45.3 | 75 01.0 | 75 23.3 | 75 33.6 | 74 55.1 | 75 13.6 | | |
| 13 20 | J. W. | 74 59.6 | 75 41.4 | 75 28.2 | 74 42.0 | 75 03.6 | 75 27.8 | 75 38.6 | 74 54.7 | 75 14.5 | | |
| 14 4 | J. W. | 74 59.4 | 75 41.6 | 75 29.2 | 74 41.4 | 75 03.5 | 75 30.4 | 75 33.2 | 74 55.9 | 75 14.3 | | |
| 16 20 | J. J. | 74 55.1 | 75 42.8 | 75 26.2 | 74 41.2 | 75 04.4 | 75 27.6 | 75 36.2 | 74 54.3 | 75 13.5 | 75 13.9 | |
| 17 4 | J. J. | 74 56.8 | 75 41.9 | 75 26.2 | 74 41.3 | 75 02.5 | 75 27.5 | 75 36.4 | 74 54.8 | 75 13.4 | | |
| 20 20 | W. H. | 75 01.3 | 75 44.4 | 75 34.0 | 74 43.1 | 75 04.0 | 75 27.9 | 75 33.3 | 74 56.2 | 75 15.5 | | |
| 21 4 | W. H. | 75 01.2 | 75 44.0 | 75 33.1 | 74 42.6 | 75 01.8 | 75 26.2 | 75 32.9 | 74 56.7 | 75 14.8 | | |
| 23 20 | J. J. | 74 55.5 | 75 41.5 | 75 32.0 | 74 47.2 | 75 00.0 | 75 30.0 | 75 34.0 | 74 54.3 | 75 14.3 | | |
| 24 4 | J. J. | 75 00.4 | 75 40.8 | 75 32.7 | 74 39.4 | 75 01.6 | 75 30.6 | 75 31.7 | 74 54.6 | 75 14.0 | | |
| 27 20 | J. W. | 74 51.2 | 75 33.0 | 75 35.6 | 74 48.4 | 74 50.4 | 75 36.0 | 75 36.0 | 74 56.4 | 75 13.3 | | |
| 28 4 | J. W. | 74 58.1 | 75 40.2 | 75 29.8 | 74 42.8 | 74 58.4 | 75 33.3 | 75 31.6 | 74 56.1 | 75 13.7 | | |
| 30 20 | J. J. | 74 53.0 | 75 42.8 | 75 22.8 | 74 43.1 | 75 06.8 | 75 28.8 | 75 29.4 | 74 53.7 | 75 12.5 | | |
| 31 4 | J. J. | 74 53.3 | 75 41.0 | 75 26.7 | 74 40.8 | 75 01.0 | 75 29.8 | 75 33.4 | 74 53.4 | 75 12.5 | | |
| January. | | | | | | | | | | | | |
| | 3 20 | W. G. | 75 02.4 | 75 30.8 | 75 35.0 | 74 57.1 | 74 55.4 | 75 44.1 | 75 28.9 | 74 57.3 | 75 16.3 | |
| | 4 4 | W. G. | 75 00.9 | 75 28.5 | 75 32.2 | 74 59.2 | 74 55.7 | 75 41.7 | 75 29.9 | 74 44.3 | 75 14.0 | |
| | 6 20 | W. H. | 75 04.6 | 75 29.1 | 75 32.6 | 74 59.0 | 74 56.4 | 74 45.1 | 75 25.1 | 74 42.7 | 75 14.3 | |
| | 7 4 | W. H. | 75 01.8 | 75 26.7 | 75 33.6 | 74 57.0 | 74 56.2 | 75 44.0 | 75 26.8 | 74 45.9 | 75 14.0 | |
| | 10 20 | T. M. | 74 56.4 | 75 38.9 | 75 24.0 | 74 38.4 | 75 00.0 | 75 28.2 | 75 30.0 | 74 57.7 | 75 11.7 | |
| | 11 4 | T. M. | 75 00.0 | 75 44.3 | 75 29.3 | 74 40.7 | 75 00.0 | 75 25.6 | 75 30.4 | 74 54.9 | 75 13.1 | |
| | 13 20 | J. W. | 75 00.8 | 75 34.0 | 75 33.4 | 74 45.4 | 74 59.0 | 75 35.7 | 75 40.0 | 4 58.1 | 75 15.8 | |
| | 14 4 | J. W. | 75 00.2 | 75 40.2 | 75 32.7 | 74 47.5 | 75 02.5 | 75 32.4 | 75 34.3 | 74 58.8 | 75 16.0 | 75 14.2 |
| | 17 20 | J. J. | 75 01.4 | 75 20.0 | 75 31.7 | 75 01.6 | 74 57.7 | 75 44.8 | 75 29.1 | 74 44.2 | 75 13.8 | |
| | 18 4 | J. J. | 75 07.6 | 75 38.8 | 75 21.5 | 74 50.5 | 74 57.8 | 75 43.3 | 75 25.4 | 74 48.0 | 75 14.1 | |
| | 20 20 | W. G. | 74 51.8 | 75 42.3 | 75 22.4 | 74 51.0 | 75 01.4 | 75 28.4 | 75 33.4 | 74 56.2 | 75 13.3 | |
| | 21 4 | W. G. | 74 55.5 | 75 39.4 | 75 24.7 | 74 48.5 | 75 02.0 | 75 36.2 | 75 31.9 | 74 52.8 | 75 13.8 | |
| 24 20 | W. H. | 75 05.0 | 75 33.6 | 75 24.3 | 75 02.3 | 75 03.0 | 75 24.7 | 75 36.4 | 74 55.7 | 75 15.6 | | |
| 25 4 | W. H. | 75 03.8 | 75 32.8 | 75 25.2 | 75 03.2 | 74 58.2 | 75 25.4 | 75 35.8 | 74 55.6 | 75 14.9 | | |
| 27 20 | T. M. | 74 55.0 | 75 44.6 | 75 23.1 | 74 53.0 | 75 02.7 | 75 27.3 | 75 31.0 | 74 50.1 | 75 13.3 | | |
| 28 4 | T. M. | 74 52.6 | 75 41.2 | 75 29.2 | 74 49.4 | 75 04.8 | 75 27.6 | 75 31.4 | 74 52.7 | 75 13.6 | | |
| February. | | | | | | | | | | | | |
| | 3 20 | J. W. | 74 51.2 | 75 42.8 | 75 24.5 | 74 48.0 | 75 03.0 | 75 28.2 | 75 31.2 | 74 48.8 | 75 12.2 | |
| | 4 4 | J. W. | 74 55.8 | 75 41.2 | 75 29.4 | 74 45.9 | 75 03.0 | 75 30.8 | 75 32.5 | 74 55.3 | 75 14.2 | |
| | 6 20 | J. J. | 74 58.4 | 75 40.2 | 75 25.7 | 74 41.7 | 75 04.0 | 75 30.8 | 75 31.3 | 74 49.4 | 75 12.7 | |
| | 7 4 | J. J. | 74 58.0 | 75 39.3 | 75 25.2 | 74 41.1 | 75 04.8 | 75 30.0 | 75 32.4 | 74 57.6 | 75 13.5 | |
| | 10 20 | W. G. | 74 57.0 | 75 42.5 | 75 29.5 | 74 46.2 | 75 03.9 | 75 29.6 | 75 31.4 | 75 00.2 | 75 15.0 | |
| | 11 4 | W. G. | 75 01.9 | 75 42.2 | 75 31.6 | 74 42.5 | 74 59.3 | 75 36.6 | 75 28.9 | 74 59.5 | 75 15.3 | |
| | 13 20 | W. H. | 74 58.4 | 75 39.5 | 75 24.7 | 74 39.5 | 75 06.7 | 75 32.8 | 75 34.7 | 74 58.1 | 75 14.3 | |
| | 14 4 | W. H. | 74 58.5 | 75 37.9 | 75 26.4 | 74 39.5 | 75 07.1 | 75 32.7 | 75 35.8 | 74 55.7 | 75 14.2 | 75 13.8 |
| | 17 20 | T. M. | 74 52.0 | 75 39.4 | 75 26.2 | 74 42.2 | 75 02.2 | 75 30.2 | 75 33.0 | 74 59.4 | 75 13.0 | |
| | 18 4 | T. M. | 74 56.4 | 75 39.6 | 75 30.0 | 74 41.4 | 75 02.4 | 75 33.9 | 75 31.8 | 74 57.6 | 75 14.1 | |
| | 20 20 | J. W. | 74 54.2 | 75 41.8 | 75 25.0 | 74 49.2 | 75 02.4 | 75 31.3 | 75 30.6 | 74 57.2 | 75 13.9 | |
| | 21 4 | J. W. | 74 53.8 | 75 41.5 | 75 20.4 | 74 46.8 | 75 03.8 | 75 32.4 | 75 30.2 | 75 00.0 | 75 13.6 | |
| 24 20 | J. J. | 74 54.3 | 75 42.0 | 75 25.4 | 74 47.6 | 75 05.3 | 75 31.2 | 75 30.6 | 74 58.0 | 75 14.3 | | |
| 25 4 | J. J. | 74 54.4 | 75 41.4 | 75 27.0 | 74 47.8 | 75 04.3 | 75 31.0 | 75 30.6 | 74 57.7 | 75 14.2 | | |
| 27 20 | W. G. | 74 55.6 | 75 48.7 | 75 25.4 | 74 45.1 | 75 08.0 | 75 27.1 | 75 30.1 | 74 56.6 | 75 14.5 | | |
| 28 4 | W. G. | 74 53.2 | 75 39.3 | 75 25.4 | 74 40.6 | 75 05.1 | 75 29.7 | 75 30.0 | 74 57.2 | 75 12.5 | | |
| March. | | | | | | | | | | | | |

* Gambey's Circle with Needle G 1 taken into use.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1846. | | | | | | | | | | | |
| D. H. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| Mar. 31 20 | W. H. | 75 33.4 | 75 00.7 | 74 55.0 | 75 32.0 | 76 02.8 | 74 24.8 | 75 02.0 | 75 23.6 | 75 14.3 | |
| 1 4 ^a | W. H. | 75 34.6 | 74 59.5 | 74 58.1 | 75 29.5 | 75 34.4 | 74 55.8 | 75 03.2 | 75 32.8 | 75 15.9 | |
| 3 20 | T. M. | 75 30.8 | 75 09.3 | 75 16.3 | 75 12.7 | 75 10.9 | 75 12.6 | 75 21.0 | 74 56.4 | 75 13.7 | |
| 4 4 | T. M. | 75 27.8 | 75 08.3 | 75 21.1 | 75 00.2 | 75 03.8 | 75 21.2 | 75 11.3 | 75 20.4 | 75 14.2 | |
| 7 20 | J. W. | 75 10.8 | 75 13.6 | 75 16.8 | 75 10.2 | 74 57.8 | 75 28.2 | 75 11.6 | 75 18.0 | 75 13.3 | |
| 8 4 | J. W. | 75 18.8 | 75 11.2 | 75 28.0 | 74 58.8 | 74 59.6 | 75 30.0 | 75 10.4 | 75 18.4 | 75 14.4 | |
| 10 20 | W. H. | 75 14.2 | 75 12.8 | 75 25.1 | 75 06.4 | 75 01.3 | 75 25.9 | 75 13.9 | 75 17.4 | 75 14.6 | |
| 11 4 | W. H. | 75 15.5 | 75 14.1 | 75 23.9 | 75 08.2 | 74 59.3 | 75 27.1 | 75 14.4 | 75 16.8 | 75 14.9 | |
| 14 20 | T. M. | 75 13.4 | 75 15.2 | 75 20.2 | 75 04.0 | 75 02.0 | 75 37.1 | 75 09.8 | 75 01.8 | 75 13.0 | 75 14.3 |
| 15 4 | T. M. | 75 13.0 | 75 20.0 | 75 14.4 | 75 03.6 | 75 01.4 | 75 24.5 | 75 16.7 | 75 17.2 | 75 13.8 | |
| 17 20 | J. W. | 75 20.0 | 75 12.0 | 75 34.4 | 75 02.4 | 75 00.8 | 75 22.4 | 75 18.2 | 75 09.0 | 75 14.9 | |
| 18 4 | J. W. | 75 18.8 | 75 12.4 | 75 30.4 | 75 09.8 | 75 00.2 | 75 21.6 | 75 19.2 | 75 10.4 | 75 15.3 | |
| 21 20 | J. J. | 75 19.4 | 75 12.0 | 75 31.2 | 75 07.0 | 75 00.8 | 75 21.5 | 75 18.8 | 75 10.4 | 75 15.1 | |
| 22 4 | J. J. | 75 20.7 | 75 10.8 | 75 32.4 | 75 07.0 | 75 00.4 | 75 20.0 | 75 20.8 | 75 09.8 | 75 15.2 | |
| 24 20 | W. G. | 75 21.6 | 75 04.6 | 75 29.5 | 75 03.0 | 75 06.6 | 75 17.8 | 75 05.2 | 75 09.4 | 75 12.2 | |
| 25 4 | W. G. | 75 10.4 | 75 10.5 | 75 23.2 | 75 10.7 | 75 00.8 | 75 19.3 | 75 10.6 | 75 12.5 | 75 12.2 | |
| 28 20 | W. H. | 75 19.8 | 75 11.9 | 75 29.5 | 75 08.3 | 75 02.5 | 75 23.0 | 75 18.9 | 75 09.2 | 75 15.4 | |
| 29 4 | W. H. | 75 21.1 | 75 08.3 | 75 28.0 | 75 10.1 | 75 03.3 | 75 22.2 | 75 18.2 | 75 08.5 | 75 15.0 | |
| 1 20 | T. M. | 75 11.6 | 75 11.8 | 75 19.6 | 75 11.6 | 74 58.8 | 75 27.8 | 75 14.7 | 75 17.5 | 75 14.1 | |
| 2 4 | T. M. | 75 16.2 | 75 11.0 | 75 17.6 | 75 17.3 | 75 05.9 | 75 23.0 | 75 10.7 | 75 06.5 | 75 13.5 | |
| 5 20 | J. W. | 75 17.6 | 75 07.6 | 75 28.4 | 75 04.0 | 74 59.2 | 75 31.8 | 75 14.8 | 75 14.8 | 75 14.7 | |
| 6 4 | J. W. | 75 20.6 | 75 07.9 | 75 28.4 | 75 02.3 | 74 59.6 | 75 29.2 | 75 15.5 | 75 13.2 | 75 14.6 | |
| 8 20 | J. J. | 75 17.2 | 75 09.6 | 75 25.1 | 75 07.8 | 74 54.8 | 75 34.2 | 75 19.6 | 75 13.8 | 75 15.2 | |
| 9 4 | J. J. | 75 14.0 | 75 13.1 | 75 25.2 | 75 08.2 | 75 00.6 | 75 25.6 | 75 21.4 | 75 14.2 | 75 15.3 | |
| 12 20 | W. G. | 75 10.7 | 75 13.1 | 75 27.3 | 75 16.5 | 75 10.7 | 75 23.3 | 75 12.8 | 75 11.5 | 75 15.7 | |
| 13 4 | W. G. | 75 12.1 | 75 15.9 | 75 19.5 | 75 11.4 | 75 10.8 | 75 14.9 | 75 15.5 | 75 14.6 | 75 14.3 | |
| 15 20 | W. H. | 75 16.5 | 75 09.1 | 75 27.8 | 75 06.3 | 74 56.8 | 75 35.7 | 75 16.2 | 75 13.4 | 75 15.2 | 75 14.4 |
| 16 4 | W. H. | 75 14.8 | 75 10.6 | 75 27.9 | 75 04.4 | 74 58.8 | 75 34.0 | 75 14.3 | 75 15.7 | 75 15.3 | |
| 19 20 | T. M. | 75 10.0 | 75 16.3 | 75 24.2 | 75 02.0 | 75 04.4 | 75 20.5 | 74 57.7 | 75 30.8 | 75 13.2 | |
| 20 4 | T. M. | 75 10.7 | 75 08.9 | 75 19.2 | 75 08.0 | 75 19.2 | 75 21.1 | 75 12.8 | 75 09.8 | 75 13.7 | |
| 22 20 | J. W. | 75 14.8 | 75 18.3 | 75 25.4 | 75 08.3 | 74 56.6 | 75 14.2 | 75 24.3 | 75 16.4 | 75 14.8 | |
| 23 4 | J. W. | 75 16.6 | 75 11.5 | 75 18.2 | 75 09.4 | 74 59.2 | 75 08.2 | 75 25.6 | 75 10.4 | 75 12.3 | |
| 26 20 | J. J. | 75 21.0 | 75 04.6 | 75 24.8 | 75 09.6 | 75 07.2 | 75 24.0 | 75 14.6 | 75 18.7 | 75 15.5 | |
| 27 4 | J. J. | 75 16.5 | 75 12.8 | 75 05.8 | 75 25.2 | 75 05.4 | 75 31.9 | 75 19.2 | 75 13.2 | 75 15.6 | |
| 29 20 | W. G. | 75 03.5 | 75 23.5 | 75 12.9 | 75 14.2 | 75 14.2 | 75 16.1 | 75 06.0 | 75 15.7 | 75 13.2 | |
| 30 4 | W. G. | 75 14.1 | 75 13.8 | 75 13.0 | 75 14.0 | 75 15.3 | 75 13.7 | 75 16.6 | 75 10.5 | 75 13.8 | |
| 2 20 | W. H. | 75 12.9 | 75 15.2 | 75 30.9 | 75 13.6 | 75 15.5 | 75 09.8 | 75 09.6 | 75 14.9 | 75 15.3 | |
| 3 4 | W. H. | 75 11.0 | 75 15.8 | 75 29.0 | 75 13.5 | 75 13.8 | 75 11.8 | 75 08.6 | 75 13.6 | 75 14.6 | |
| 5 20 | T. M. | 75 18.7 | 75 05.7 | 75 27.7 | 75 00.0 | 75 04.1 | 75 19.3 | 75 17.4 | 75 20.3 | 75 14.1 | |
| 6 4 | T. M. | 75 10.0 | 75 09.8 | 75 27.7 | 75 10.2 | 75 03.0 | 75 18.0 | 75 19.2 | 75 18.7 | 75 14.5 | |
| 9 20 | J. W. | 75 10.4 | 75 21.8 | 75 02.4 | 75 22.4 | 74 56.6 | 75 34.3 | 75 12.9 | 75 30.8 | 75 16.4 | |
| 10 4 | J. W. | 74 58.4 | 75 25.4 | 75 03.0 | 75 23.1 | 74 53.2 | 75 33.4 | 75 16.0 | 75 26.7 | 75 14.9 | |
| 12 20 | J. J. | 75 17.9 | 75 12.8 | 75 28.2 | 75 21.2 | 75 09.6 | 75 11.5 | 75 16.6 | 75 14.6 | 75 16.5 | |
| 13 4 | J. J. | 75 18.8 | 75 12.4 | 75 25.2 | 75 21.2 | 75 09.6 | 75 22.1 | 75 09.1 | 75 10.8 | 75 16.4 | 75 14.8 |
| 16 20 | T. M. | 75 10.9 | 75 18.0 | 75 20.5 | 75 02.4 | 74 55.4 | 75 30.1 | 75 11.1 | 75 20.2 | 75 13.5 | |
| 17 4 | T. M. | 75 00.0 | 75 24.5 | 75 02.7 | 75 19.2 | 74 54.2 | 75 31.8 | 75 15.5 | 75 26.0 | 75 14.1 | |
| 19 20 | W. H. | 75 13.0 | 75 14.5 | 75 20.0 | 75 10.2 | 75 00.4 | 75 22.7 | 75 16.2 | 75 17.7 | 75 14.3 | |
| 20 4 | W. H. | 75 12.7 | 75 14.6 | 75 22.1 | 75 12.8 | 75 00.9 | 75 22.3 | 75 15.8 | 75 16.7 | 75 14.7 | |
| 23 20 | T. M. | 75 12.9 | 75 15.1 | 75 28.0 | 75 15.0 | 75 10.0 | 75 18.2 | 75 11.8 | 75 12.0 | 75 15.3 | |
| 24 4 | T. M. | 75 18.4 | 75 10.0 | 75 20.0 | 75 14.0 | 75 08.8 | 75 21.2 | 75 12.3 | 75 13.6 | 75 14.8 | |
| 26 20 | J. W. | 75 14.1 | 75 10.8 | 75 28.8 | 75 07.3 | 75 00.0 | 75 24.5 | 75 15.4 | 75 12.7 | 75 14.1 | |
| 27 4 | J. W. | 75 14.7 | 75 15.1 | 75 29.2 | 75 03.5 | 75 58.8 | 75 23.6 | 75 13.2 | 75 12.2 | 75 13.8 | |

* "Robinson, No. 1," (New) taken into use.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1846. | | | | | | | | | | | |
| June 30 20 | J. J. | 75 14.6 | 75 02.2 | 75 32.8 | 75 06.6 | 74 59.2 | 75 26.8 | 75 15.2 | 75 14.4 | 75 14.0 | |
| 1 4 | J. J. | 75 28.8 | 75 09.1 | 75 28.2 | 74 49.2 | 74 31.7 | 75 40.1 | 75 10.1 | 75 32.1 | 75 13.7 | |
| 3 20 | W. G. | 75 14.8 | 75 07.0 | 75 22.6 | 75 06.0 | 75 11.8 | 75 15.9 | 75 13.2 | 75 15.7 | 75 13.4 | |
| 4 4 | W. G. | 75 11.6 | 75 10.4 | 75 18.3 | 75 14.4 | 75 09.1 | 75 17.5 | 75 15.4 | 75 13.0 | 75 13.7 | |
| 7 20 | J. W. | 75 15.9 | 75 10.9 | 75 29.9 | 75 01.8 | 75 00.2 | 75 23.2 | 75 19.2 | 75 12.0 | 75 14.1 | |
| 8 4 | J. W. | 75 09.6 | 75 16.7 | 75 20.9 | 75 09.8 | 74 58.2 | 75 22.4 | 75 16.4 | 75 13.2 | 75 13.3 | |
| 10 20 | J. W. | 75 15.2 | 75 13.6 | 75 29.6 | 75 05.8 | 74 57.8 | 75 28.6 | 75 13.6 | 75 11.6 | 75 14.4 | |
| 11 4 | J. W. | 75 12.5 | 75 15.1 | 75 32.0 | 75 07.4 | 74 57.8 | 75 23.8 | 75 17.4 | 75 08.8 | 75 14.3 | |
| 14 20 | J. W. | 75 13.0 | 75 11.8 | 75 27.8 | 75 02.0 | 74 57.8 | 75 28.8 | 75 17.0 | 75 12.2 | 75 13.8 | |
| 15 4 | J. W. | 75 14.1 | 75 16.2 | 75 31.6 | 75 00.8 | 74 58.8 | 75 25.4 | 75 14.8 | 75 12.3 | 75 14.2 | 75 14.0 |
| 17 20 | J. J. | 75 08.2 | 75 20.2 | 75 11.4 | 75 21.6 | 75 01.6 | 75 28.8 | 75 17.6 | 75 17.0 | 75 15.7 | |
| 18 4 | J. J. | 75 07.2 | 75 14.2 | 75 29.2 | 75 13.2 | 74 59.1 | 75 20.4 | 75 20.6 | 75 22.6 | 75 15.8 | |
| 21 20 | T. M. | 75 10.0 | 75 19.4 | 75 16.0 | 75 06.1 | 74 59.3 | 75 26.6 | 75 19.0 | 75 06.3 | 75 12.8 | |
| 22 4 | T. M. | 75 00.1 | 75 21.0 | 75 11.4 | 75 15.2 | 74 59.6 | 75 23.4 | 75 13.2 | 75 13.2 | 75 12.1 | |
| 24 20 | J. W. | 75 12.4 | 75 21.8 | 75 19.2 | 75 03.6 | 74 58.0 | 75 28.8 | 75 19.8 | 75 14.2 | 75 14.7 | |
| 25 4 | J. W. | 75 10.8 | 75 22.0 | 75 21.8 | 75 04.8 | 74 57.8 | 75 26.6 | 75 16.5 | 75 17.3 | 75 14.7 | |
| 28 20 | T. M. | 75 10.4 | 75 14.0 | 75 25.9 | 75 07.1 | 75 00.0 | 75 27.2 | 75 16.8 | 75 12.0 | 75 14.2 | |
| 29 11 | T. M. | 75 10.0 | 75 15.0 | 75 26.4 | 75 08.4 | 74 54.2 | 75 31.4 | 75 08.3 | 75 15.3 | 75 13.6 | |
| July 31 20 | J. W. | 74 59.6 | 75 18.6 | 75 28.8 | 75 08.8 | 74 57.6 | 75 28.0 | 75 18.8 | 75 12.8 | 75 14.1 | |
| 1 4 | J. W. | 75 07.8 | 75 10.6 | 75 32.2 | 75 05.0 | 74 56.2 | 75 27.4 | 75 22.6 | 75 12.9 | 75 14.3 | |
| 4 20 | J. J. | 75 14.5 | 75 10.2 | 75 22.5 | 75 03.2 | 74 55.2 | 75 23.8 | 75 23.8 | 75 13.8 | 75 13.4 | |
| 5 4 | J. J. | 75 10.4 | 75 17.8 | 75 21.6 | 75 01.9 | 75 01.9 | 75 23.4 | 75 21.8 | 75 12.9 | 75 13.9 | |
| 7 20 | T. M. | 75 10.2 | 75 17.3 | 75 23.0 | 75 04.7 | 74 44.2 | 75 25.2 | 75 19.2 | 75 19.3 | 75 12.9 | |
| 8 4 | J. L. | 75 05.7 | 75 30.3 | 75 19.8 | 75 01.2 | 74 49.6 | 75 20.6 | 75 12.6 | 75 12.4 | 75 11.5 | |
| 11 20 | W. H. | 75 14.7 | 75 16.3 | 75 13.5 | 75 15.0 | 75 01.0 | 75 12.9 | 75 13.4 | 75 31.7 | 75 14.3 | |
| 12 4 | W. H. | 75 14.1 | 75 15.9 | 75 13.8 | 75 15.2 | 75 01.2 | 75 16.7 | 75 13.3 | 75 32.9 | 75 15.3 | |
| 14 20 | T. M. | 75 06.9 | 75 28.4 | 75 10.6 | 75 03.2 | 75 00.0 | 75 18.4 | 75 19.5 | 75 13.4 | 75 12.5 | 75 14.4 |
| 15 4 | T. M. | 75 09.7 | 75 28.8 | 75 20.6 | 74 59.0 | 74 53.0 | 75 25.5 | 75 20.6 | 75 14.6 | 75 13.9 | |
| 18 20 | J. W. | 75 12.5 | 75 18.2 | 75 29.2 | 75 14.6 | 75 01.2 | 75 27.2 | 75 18.0 | 75 09.6 | 75 16.3 | |
| 19 4 | J. W. | 75 00.8 | 75 32.6 | 75 21.7 | 75 13.8 | 74 53.4 | 75 23.8 | 75 22.4 | 75 11.2 | 75 14.9 | |
| 21 20 | J. J. | 75 06.6 | 75 27.0 | 75 03.6 | 75 23.8 | 74 47.0 | 75 47.4 | 75 08.0 | 75 23.2 | 75 15.8 | |
| 22 4 | J. J. | 75 08.0 | 75 25.1 | 75 22.4 | 74 59.8 | 74 53.8 | 75 33.4 | 74 53.3 | 75 29.6 | 75 13.2 | |
| 25 20 | J. L. | 75 11.1 | 75 24.8 | 75 23.8 | 75 13.1 | 75 03.3 | 75 24.7 | 75 12.6 | 75 23.6 | 75 17.1 | |
| 26 4 | J. L. | 75 16.8 | 75 12.2 | 75 14.0 | 75 26.8 | 75 05.3 | 75 26.6 | 75 02.5 | 75 16.3 | 75 15.0 | |
| 28 20 | W. H. | 75 15.3 | 75 16.9 | 75 08.0 | 75 21.2 | 75 05.5 | 75 26.6 | 75 10.5 | 75 18.7 | 75 15.3 | |
| 29 4 | W. H. | 75 17.1 | 75 16.6 | 75 09.2 | 75 21.5 | 75 03.7 | 75 25.2 | 75 10.6 | 75 21.2 | 75 15.6 | |
| September 1 20 | T. M. | 75 20.0 | 75 15.6 | 75 03.2 | 75 12.4 | 74 56.9 | 75 25.4 | 75 14.9 | 75 16.0 | 75 13.0 | |
| 2 4 | T. M. | 75 17.6 | 75 18.0 | 75 05.6 | 75 14.1 | 74 58.0 | 75 23.0 | 75 15.9 | 75 14.4 | 75 13.3 | |
| 4 20 | J. W. | 75 22.1 | 75 09.4 | 75 27.0 | 75 00.6 | 75 00.2 | 75 30.2 | 75 17.0 | 75 16.0 | 75 15.3 | |
| 5 4 | J. W. | 75 18.6 | 75 15.5 | 75 28.1 | 75 57.8 | 74 58.8 | 75 29.8 | 75 18.4 | 75 19.8 | 75 15.8 | |
| 8 20 | J. J. | 75 18.8 | 75 11.5 | 75 24.3 | 75 05.6 | 75 00.4 | 75 27.0 | 75 16.0 | 75 18.0 | 75 15.2 | |
| 9 4 | J. J. | 75 17.2 | 75 15.4 | 75 22.6 | 75 05.2 | 74 57.8 | 75 24.8 | 75 14.0 | 75 22.6 | 75 15.0 | |
| 11 20 | J. L. | 75 18.4 | 75 20.6 | 75 14.4 | 75 21.9 | 75 16.2 | 75 31.6 | 75 12.8 | 75 36.1 | 75 19.6 | |
| 12 4 | J. L. | 75 18.1 | 75 11.9 | 75 09.7 | 75 07.7 | 74 49.7 | 75 43.9 | 74 43.4 | 75 43.8 | 75 13.5 | |
| 15 20 | W. H. | 75 42.7 | 74 49.3 | 75 25.1 | 75 04.5 | 75 01.5 | 75 30.7 | 75 14.5 | 75 14.6 | 75 15.3 | 75 15.7 |
| 16 4 | W. H. | 75 39.7 | 74 52.7 | 75 24.2 | 75 05.3 | 75 00.4 | 75 30.6 | 75 15.6 | 75 14.4 | 75 15.3 | |
| 18 20 | T. M. | 75 14.7 | 75 20.4 | 75 20.2 | 75 09.0 | 75 58.8 | 75 19.7 | 75 15.7 | 75 19.4 | 75 14.7 | |
| 19 4 | T. M. | 75 18.0 | 75 09.2 | 75 24.4 | 75 01.8 | 74 59.2 | 75 27.8 | 75 15.0 | 75 20.0 | 75 14.4 | |
| 22 20 | J. W. | 74 57.6 | 75 28.3 | 75 22.4 | 75 09.2 | 75 00.8 | 75 31.8 | 75 21.8 | 75 17.8 | 75 16.2 | |
| 23 4 | J. W. | 75 20.0 | 75 16.2 | 75 27.8 | 75 00.2 | 74 57.4 | 75 23.6 | 75 20.6 | 75 19.6 | 75 15.6 | |
| 25 20 | J. J. | 75 19.0 | 75 16.4 | 75 15.5 | 75 11.2 | 74 55.1 | 75 37.2 | 75 16.5 | 75 18.4 | 75 16.2 | |
| 26 4 | J. J. | 75 17.4 | 75 17.9 | 75 24.0 | 75 06.6 | 74 57.4 | 75 34.4 | 75 14.6 | 75 19.2 | 75 16.4 | |
| 29 20 | J. L. | 75 12.1 | 75 14.3 | 75 17.5 | 75 10.2 | 75 20.1 | 75 22.9 | 75 16.2 | 75 20.7 | 75 16.9 | |
| 30 4 | J. L. | 75 20.9 | 75 22.9 | 75 17.8 | 75 16.9 | 75 14.6 | 75 32.6 | 75 17.3 | 75 22.3 | 75 20.6 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | |
| 1846. | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| October. | | | | | | | | | | | |
| 2 20 | W. H. | 75 12.4 | 75 24.1 | 75 13.8 | 75 12.3 | 74 58.7 | 75 33.4 | 75 14.4 | 75 15.3 | 75 15.5 | |
| 3 4 | W. H. | 75 13.3 | 75 25.0 | 75 13.7 | 75 12.6 | 74 59.5 | 75 29.3 | 75 13.4 | 75 13.4 | 75 15.0 | |
| 6 20 | T. M. | 75 14.0 | 75 22.8 | 75 17.6 | 75 08.0 | 74 57.7 | 75 30.4 | 75 22.6 | 75 12.0 | 75 15.6 | |
| 7 4 | J. J. | 75 17.6 | 75 15.6 | 75 24.3 | 75 06.2 | 74 56.4 | 75 31.1 | 75 19.0 | 75 19.1 | 75 16.1 | |
| 9 20 | J. L. | 75 11.6 | 75 22.9 | 75 14.2 | 75 13.8 | 75 04.8 | 75 29.7 | 75 12.5 | 75 32.3 | 75 17.7 | |
| 10 4 | J. L. | 75 12.6 | 75 19.8 | 75 16.2 | 75 10.6 | 75 00.5 | 75 32.4 | 75 09.0 | 75 26.3 | 75 15.9 | |
| 13 20 | J. J. | 75 14.4 | 75 17.0 | 75 21.8 | 75 07.4 | 74 56.2 | 75 30.6 | 75 21.0 | 75 14.8 | 75 15.4 | |
| 14 4 | J. J. | 75 14.0 | 75 19.6 | 75 24.0 | 74 58.4 | 74 58.0 | 75 31.1 | 75 16.8 | 75 15.8 | 75 14.7 | |
| 16 20 | J. L. | 75 13.0 | 75 22.1 | 75 09.3 | 75 08.7 | 75 03.0 | 75 36.2 | 75 16.7 | 75 14.8 | 75 15.5 | |
| 17 4 | J. L. | 75 09.8 | 75 20.5 | 75 09.9 | 75 11.2 | 74 57.6 | 75 32.1 | 75 16.4 | 75 17.4 | 75 14.4 | 75 15.4 |
| 20 20 | W. H. | 75 11.9 | 75 19.6 | 75 17.7 | 75 11.8 | 74 55.5 | 75 32.6 | 75 15.8 | 75 13.8 | 75 14.8 | |
| 21 4 | W. H. | 75 12.8 | 75 16.9 | 75 18.4 | 75 11.9 | 74 59.6 | 75 32.5 | 75 14.9 | 75 16.3 | 75 15.4 | |
| 23 20 | T. M. | 75 07.6 | 75 15.0 | 75 20.0 | 75 10.2 | 75 15.7 | 75 10.0 | 75 15.0 | 75 21.5 | 75 14.4 | |
| 24 4 | T. M. | 75 13.3 | 75 06.4 | 75 09.0 | 75 26.5 | 75 13.0 | 75 14.0 | 75 17.0 | 75 12.4 | 75 14.0 | |
| 27 20 | J. W. | 75 21.0 | 75 06.1 | 75 03.9 | 75 27.0 | 75 23.4 | 75 20.4 | 75 13.0 | 75 16.5 | 75 16.4 | |
| 28 4 | J. W. | 75 21.6 | 75 07.9 | 75 05.0 | 75 20.8 | 75 18.4 | 75 23.9 | 75 19.2 | 75 10.9 | 75 16.0 | |
| 30 20 | J. J. | 75 25.3 | 75 12.0 | 75 09.2 | 75 15.4 | 75 14.8 | 75 15.6 | 75 14.6 | 75 14.1 | 75 15.2 | |
| 31 4 | J. J. | 75 20.0 | 75 05.4 | 75 12.6 | 75 17.2 | 75 14.0 | 75 19.6 | 75 20.0 | 75 14.0 | 75 15.3 | |
| November. | | | | | | | | | | | |
| 3 20 | J. L. | 75 09.8 | 75 16.8 | 75 08.2 | 75 24.4 | 75 13.4 | 75 19.8 | 75 16.5 | 75 13.0 | 75 15.2 | |
| 4 4 | J. L. | 75 09.4 | 75 19.2 | 75 08.5 | 75 20.8 | 75 16.6 | 75 17.1 | 75 15.2 | 75 08.5 | 75 14.4 | |
| 6 20 | W. H. | 75 07.9 | 75 26.9 | 75 10.2 | 75 16.2 | 75 04.7 | 75 26.6 | 75 12.9 | 75 16.3 | 75 15.2 | |
| 7 4 | W. H. | 75 05.4 | 75 29.9 | 75 07.3 | 75 15.2 | 75 02.8 | 75 26.8 | 75 13.5 | 75 15.9 | 75 14.6 | |
| 10 20 | T. M. | 75 12.2 | 75 04.0 | 75 04.9 | 75 25.0 | 75 09.8 | 75 26.8 | 75 15.1 | 75 15.4 | 75 14.1 | |
| 11 4 | T. M. | 75 16.0 | 75 15.6 | 75 17.4 | 75 09.4 | 75 09.4 | 75 15.4 | 75 14.6 | 75 20.4 | 75 14.7 | |
| 13 20 | J. W. | 75 07.4 | 75 17.8 | 75 20.4 | 75 13.8 | 75 10.0 | 75 17.2 | 75 23.8 | 75 11.2 | 75 15.1 | |
| 14 4 | J. W. | 75 11.6 | 75 14.7 | 75 31.1 | 75 05.2 | 75 11.2 | 75 19.6 | 75 26.2 | 75 07.6 | 75 15.8 | |
| 17 20 | J. J. | 75 19.2 | 75 12.9 | 75 31.0 | 75 01.2 | 74 58.6 | 75 30.2 | 75 24.4 | 75 11.6 | 75 16.1 | 75 15.0 |
| 18 4 | J. J. | 75 19.8 | 75 20.6 | 75 11.2 | 75 04.6 | 74 58.0 | 75 30.6 | 75 24.6 | 75 10.4 | 75 15.0 | |
| 20 20 | J. J. | 75 15.0 | 75 16.8 | 75 28.6 | 75 00.8 | 74 58.0 | 75 33.2 | 75 14.8 | 75 15.0 | 75 15.3 | |
| 21 4 | J. L. | 75 14.2 | 75 21.8 | 75 27.4 | 75 05.2 | 74 54.6 | 75 30.3 | 75 14.8 | 75 19.5 | 75 16.0 | |
| 24 20 | J. W. | 75 08.0 | 75 28.8 | 75 06.2 | 75 16.9 | 75 05.2 | 75 26.5 | 75 06.6 | 75 14.3 | 75 14.1 | |
| 25 4 | W. H. | 75 06.0 | 75 26.9 | 75 11.6 | 75 15.6 | 75 03.5 | 75 25.6 | 75 12.9 | 75 15.6 | 75 14.7 | |
| 27 20 | T. M. | 75 04.4 | 75 22.2 | 75 10.7 | 75 16.7 | 75 19.6 | 75 31.6 | 75 04.0 | 75 14.4 | 75 15.4 | |
| 28 4 | T. M. | 75 08.8 | 75 18.0 | 75 12.0 | 75 10.4 | 75 05.0 | 75 29.7 | 75 23.2 | 75 12.4 | 75 14.9 | |
| December. | | | | | | | | | | | |
| 1 20 | J. W. | 75 12.6 | 75 15.3 | 75 21.7 | 75 09.8 | 75 59.2 | 75 28.4 | 75 10.0 | 75 21.9 | 75 14.8 | |
| 2 4 | J. W. | 75 08.8 | 75 15.2 | 75 24.0 | 75 10.7 | 74 58.8 | 75 32.3 | 75 18.4 | 75 13.4 | 75 15.2 | |
| 4 20 | J. J. | 75 16.5 | 75 12.0 | 75 29.0 | 75 04.0 | 74 59.4 | 75 30.0 | 75 25.5 | 75 09.2 | 75 15.7 | |
| 5 4 | J. J. | 75 12.8 | 75 18.4 | 75 24.0 | 75 07.4 | 74 59.4 | 75 30.2 | 75 25.4 | 75 07.5 | 75 15.6 | |
| 8 20 | J. L. | 75 13.0 | 75 11.0 | 75 29.6 | 75 05.2 | 75 00.0 | 75 30.2 | 75 19.2 | 75 17.4 | 75 15.7 | |
| 9 4 | J. L. | 75 09.2 | 75 13.6 | 75 22.2 | 75 06.8 | 75 04.4 | 75 27.6 | 75 20.2 | 75 16.0 | 75 15.0 | |
| 11 20 | W. H. | 74 59.5 | 75 29.2 | 75 13.9 | 75 16.3 | 75 05.4 | 75 27.0 | 75 05.4 | 75 24.9 | 75 15.2 | |
| 12 4 | W. H. | 75 12.1 | 75 12.4 | 75 26.0 | 75 10.0 | 75 05.0 | 75 22.2 | 75 11.5 | 75 20.5 | 75 15.0 | |
| 15 20 | T. M. | 75 06.9 | 75 11.8 | 75 20.0 | 75 18.0 | 75 00.0 | 75 30.0 | 75 15.9 | 75 13.8 | 75 14.5 | |
| 16 4 | W. H. | 75 08.1 | 75 10.8 | 75 17.3 | 75 20.0 | 75 00.0 | 75 31.6 | 75 18.3 | 75 12.4 | 75 14.8 | 75 15.1 |
| 18 20 | J. W. | 75 12.3 | 75 18.6 | 75 26.0 | 75 03.3 | 74 59.8 | 75 27.7 | 75 18.3 | 75 13.3 | 75 14.9 | |
| 19 4 | J. W. | 75 10.8 | 75 16.4 | 75 26.0 | 75 05.3 | 74 59.0 | 75 31.4 | 75 19.6 | 75 15.8 | 75 15.5 | |
| 22 20 | J. J. | 75 17.1 | 75 14.8 | 75 20.6 | 75 09.6 | 74 58.8 | 75 28.8 | 75 19.7 | 75 10.8 | 75 15.0 | |
| 23 4 | J. J. | 75 18.9 | 75 17.8 | 75 15.5 | 75 07.8 | 75 00.0 | 75 32.4 | 75 19.6 | 75 08.0 | 75 15.0 | |
| 25 20 | T. M. | 75 11.6 | 75 19.8 | 75 18.6 | 75 10.0 | 75 05.6 | 75 29.8 | 75 10.4 | 75 13.4 | 75 14.9 | |
| 26 4 | T. M. | 75 11.2 | 75 17.2 | 75 21.0 | 75 06.4 | 75 00.0 | 75 32.6 | 75 10.7 | 75 16.4 | 75 14.4 | |
| 29 20 | J. W. | 75 10.2 | 75 17.9 | 75 23.3 | 75 07.2 | 75 07.7 | 75 30.5 | 75 13.7 | 75 12.3 | 75 15.3 | |
| 30 4 | J. W. | 75 08.4 | 75 15.4 | 75 23.9 | 75 05.5 | 75 01.0 | 75 32.3 | 75 18.0 | 75 14.0 | 75 14.8 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1847. | | | | | | | | | | | |
| | D. H. | | | | | | | | | | |
| April. | 2 20 | J. J. | 75 00.8 | 74 58.8 | 75 28.1 | 74 54.8 | 75 08.9 | 75 23.0 | 75 28.0 | 75 25.4 | 75 13.4 |
| | 3 4 | J. J. | 75 06.3 | 75 14.2 | 75 05.6 | 74 50.6 | 75 09.2 | 75 33.2 | 75 25.5 | 75 28.6 | 75 14.1 |
| | 6 20 | J. L. | 75 03.2 | 75 07.2 | 75 27.2 | 75 06.8 | 75 04.0 | 75 35.2 | 75 23.6 | 75 20.4 | 75 15.9 |
| | 7 4 | J. L. | 74 57.0 | 75 16.9 | 75 19.4 | 74 59.2 | 75 08.5 | 75 36.4 | 75 22.0 | 75 16.0 | 75 14.4 |
| | 9 20 | W. H. | 75 02.3 | 75 16.7 | 75 13.6 | 75 25.9 | 75 02.1 | 75 19.1 | 75 21.4 | 75 21.1 | 75 15.2 |
| | 10 4 | W. H. | 75 02.7 | 75 17.3 | 75 15.2 | 75 25.8 | 75 02.2 | 75 23.5 | 75 19.8 | 75 19.5 | 75 15.7 |
| | 13 20 | T. M. | 75 02.8 | 75 14.8 | 75 20.0 | 74 57.0 | 75 02.0 | 75 43.0 | 75 22.4 | 75 19.6 | 75 15.1 |
| | 14 4 | T. M. | 75 02.0 | 75 12.0 | 75 20.5 | 74 57.6 | 75 09.6 | 75 43.8 | 75 26.0 | 75 20.0 | 75 16.4 |
| | 16 20 | J. W. | 75 02.1 | 75 11.2 | 75 29.2 | 74 51.0 | 74 58.2 | 75 44.8 | 75 25.0 | 75 21.6 | 75 15.4 |
| | 17 4 | J. W. | 75 03.7 | 75 12.5 | 75 30.8 | 74 50.4 | 74 56.1 | 74 46.3 | 75 23.7 | 75 23.4 | 75 15.8 |
| | 20 20 | T. M. | 75 09.9 | 75 11.3 | 75 40.9 | 74 54.0 | 75 01.8 | 75 45.9 | 75 30.6 | 75 16.8 | 75 18.9 |
| | 21 4 | T. M. | 75 09.3 | 75 11.9 | 75 43.4 | 74 55.0 | 75 13.6 | 75 24.2 | 75 29.0 | 75 10.8 | 75 17.1 |
| | 23 20 | J. W. | 75 09.2 | 75 13.8 | 75 38.6 | 74 50.8 | 75 01.2 | 75 45.1 | 75 25.5 | 75 19.4 | 75 17.9 |
| | 24 4 | J. W. | 75 08.6 | 75 11.0 | 75 33.3 | 74 48.8 | 74 56.3 | 75 48.4 | 75 23.0 | 75 21.5 | 75 16.3 |
| 27 20 | J. J. | 75 06.5 | 75 12.6 | 75 31.3 | 75 00.4 | 74 57.0 | 75 50.4 | 75 20.4 | 75 20.6 | 75 17.4 | |
| 28 4 | J. J. | 75 05.8 | 75 11.6 | 75 30.7 | 74 52.2 | 74 56.1 | 75 50.2 | 75 20.0 | 75 19.8 | 75 15.8 | |
| Apr. 30 20 | J. L. | 75 05.0 | 75 15.8 | 75 26.5 | 74 57.4 | 75 01.6 | 75 40.8 | 75 20.4 | 75 22.6 | 75 15.7 | |
| | 1 4 | J. L. | 75 09.7 | 75 09.8 | 75 34.1 | 74 51.2 | 75 05.3 | 75 46.8 | 75 19.8 | 75 20.0 | 75 17.1 |
| | 4 20 | W. H. | 75 07.0 | 75 18.1 | 75 25.9 | 75 04.5 | 75 00.7 | 75 41.1 | 75 12.5 | 75 19.1 | 75 16.1 |
| | 5 4 | W. H. | 75 05.8 | 75 14.5 | 75 26.2 | 75 04.0 | 74 52.4 | 75 50.6 | 75 08.0 | 75 29.6 | 75 16.3 |
| | 7 20 | T. M. | 75 07.6 | 75 15.8 | 75 30.5 | 75 06.4 | 74 53.4 | 75 32.4 | 75 20.0 | 75 14.8 | 75 15.1 |
| | 8 4 | T. M. | 75 00.2 | 75 15.0 | 75 20.8 | 75 06.2 | 74 58.6 | 75 45.9 | 75 21.4 | 75 16.4 | 75 15.5 |
| | 11 20 | J. W. | 75 09.0 | 75 11.8 | 75 34.7 | 74 51.6 | 75 04.1 | 75 45.0 | 75 28.5 | 75 11.1 | 75 17.0 |
| | 12 4 | J. W. | 75 07.0 | 75 08.7 | 75 34.9 | 74 48.9 | 75 06.9 | 75 40.8 | 75 30.2 | 75 08.9 | 75 15.8 |
| | 14 20 | J. J. | 75 06.0 | 75 11.6 | 75 32.2 | 74 53.6 | 74 58.0 | 75 45.8 | 75 27.5 | 75 13.3 | 75 16.0 |
| | 15 4 | J. J. | 75 07.2 | 75 10.8 | 75 36.8 | 74 49.8 | 74 58.2 | 75 45.2 | 75 27.4 | 75 14.8 | 75 16.3 |
| | 18 20 | J. L. | 75 06.6 | 75 12.0 | 75 25.8 | 74 59.2 | 74 57.2 | 75 41.2 | 75 22.8 | 75 16.2 | 75 15.1 |
| | 19 4 | J. L. | 75 00.8 | 75 15.8 | 75 24.4 | 75 01.6 | 75 00.4 | 75 44.4 | 75 22.2 | 75 16.8 | 75 15.7 |
| | 21 20 | W. H. | 75 05.9 | 75 17.0 | 75 24.2 | 74 58.2 | 75 02.8 | 75 45.9 | 75 19.2 | 75 20.1 | 75 15.5 |
| | 22 4 | W. H. | 75 05.5 | 75 17.4 | 75 24.5 | 75 03.3 | 75 05.0 | 75 43.0 | 75 21.8 | 75 20.5 | 75 17.6 |
| 25 20 | T. M. | 74 59.2 | 75 10.8 | 75 07.8 | 75 12.2 | 75 14.2 | 75 40.7 | 75 27.4 | 75 27.2 | 75 17.4 | |
| 26 4 | T. M. | 74 57.0 | 75 08.0 | 75 09.4 | 75 11.0 | 75 18.8 | 75 36.9 | 75 29.4 | 75 29.4 | 75 17.4 | |
| 28 20 | J. W. | 75 03.2 | 75 09.4 | 75 23.2 | 75 09.8 | 75 17.8 | 75 19.6 | 74 59.4 | 75 38.4 | 75 15.1 | |
| 29 4 | J. W. | 75 05.3 | 75 15.2 | 75 29.0 | 75 12.4 | 75 20.4 | 75 13.3 | 74 51.2 | 75 36.2 | 75 15.4 | |
| June. | 1 20 | J. J. | 75 25.4 | 74 37.8 | 75 31.6 | 75 04.0 | 75 14.2 | 75 20.2 | 74 58.6 | 75 38.9 | 75 13.9 |
| | 2 4 | J. J. | 75 22.0 | 75 14.6 | 74 47.8 | 75 32.0 | 75 46.7 | 74 20.7 | 75 31.6 | 75 09.2 | 75 13.1 |
| | 4 20 | T. M. | 75 43.9 | 74 28.4 | 75 14.6 | 75 07.8 | 75 23.4 | 75 15.0 | 74 53.8 | 75 36.6 | 75 12.9 |
| | 5 4 | T. M. | 74 58.4 | 75 28.2 | 75 15.4 | 75 12.6 | 75 16.2 | 75 08.4 | 75 00.2 | 75 35.2 | 75 14.3 |
| | 8 20 | J. L. | 75 37.2 | 74 37.8 | 75 29.4 | 75 09.8 | 75 23.6 | 75 12.4 | 74 53.2 | 75 28.8 | 75 14.0 |
| | 9 4 | J. L. | 75 33.0 | 74 37.8 | 75 06.4 | 75 10.4 | 75 07.2 | 75 05.6 | 74 52.4 | 75 30.8 | 75 08.0 |
| | 11 20 | J. H. L. | 75 26.7 | 74 50.8 | 75 15.5 | 75 15.1 | 75 06.7 | 75 15.8 | 74 50.6 | 75 22.6 | 75 10.5 |
| | 12 4 | J. J. | 75 37.3 | 74 44.4 | 75 08.3 | 75 18.9 | 75 21.4 | 75 08.3 | 74 57.5 | 75 26.7 | 75 12.8 |
| | 15 20 | J. L. | 75 31.2 | 74 41.2 | 75 10.6 | 75 17.0 | 75 19.2 | 75 16.8 | 74 49.2 | 75 34.4 | 75 12.4 |
| | 16 4 | J. L. | 75 28.2 | 74 42.2 | 75 21.2 | 75 15.4 | 75 17.6 | 75 12.2 | 74 45.4 | 75 31.1 | 75 11.7 |
| | 18 20 | W. H. | 75 27.0 | 74 43.2 | 75 09.9 | 75 19.3 | 75 23.9 | 75 21.8 | 74 48.9 | 75 30.4 | 75 13.0 |
| | 19 4 | W. H. | 75 22.2 | 74 46.8 | 75 14.7 | 75 16.6 | 75 23.4 | 75 21.9 | 74 48.2 | 75 31.8 | 75 13.2 |
| | 22 20 | J. J. | 75 25.6 | 74 45.0 | 75 16.2 | 75 17.1 | 75 25.4 | 75 20.6 | 75 00.4 | 75 25.6 | 75 14.5 |
| | 23 4 | J. J. | 75 33.2 | 74 43.9 | 75 16.9 | 75 17.4 | 75 28.8 | 75 17.2 | 75 00.2 | 75 22.5 | 75 15.0 |
| 25 20 | T. M. | 75 34.2 | 74 40.9 | 75 10.4 | 75 17.9 | 75 31.6 | 75 10.4 | 75 01.8 | 75 21.4 | 75 13.5 | |
| 26 4 | T. M. | 75 39.8 | 74 34.2 | 75 10.0 | 75 13.6 | 75 17.4 | 75 24.2 | 74 54.0 | 75 30.4 | 75 13.0 | |
| 29 20 | J. W. | 75 22.4 | 74 55.2 | 75 06.5 | 75 00.8 | 75 27.5 | 75 06.8 | 75 23.3 | 75 30.6 | 75 14.1 | |
| 30 4 | J. W. | 75 22.4 | 74 45.6 | 75 02.3 | 74 59.6 | 75 30.6 | 75 21.3 | 75 14.6 | 75 41.4 | 75 14.7 | |

Observations of Inclination continued from Vol. 1, p. 332; Needles employed "Robinson, No. 1.—No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|-----------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | |
| 1847. | | | | | | | | | | | | |
| D. H. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' | |
| 2 20 | J. J. | 75 22.8 | 74 13.2 | 75 01.8 | 74 29.4 | 75 23.2 | 75 52.8 | 75 20.2 | 75 53.0 | 75 12.0 | | |
| 3 4 | J. J. | 75 22.7 | 74 23.0 | 74 49.2 | 74 41.4 | 75 23.0 | 75 39.8 | 75 22.0 | 75 53.2 | 75 11.8 | | |
| 6 20 | J. L. | 75 20.4 | 74 28.0 | 75 05.0 | 74 36.0 | 75 14.6 | 75 29.0 | 74 46.6 | 76 02.2 | 75 07.7 | | |
| 7 4 | J. L. | 75 31.4 | 74 13.2 | 75 04.6 | 74 41.0 | 75 18.6 | 75 23.4 | 74 46.4 | 75 53.4 | 75 06.5 | | |
| 9 20 | J. W. | 75 38.8 | 74 49.4 | 75 14.4 | 74 35.9 | 75 30.8 | 75 22.0 | 75 02.4 | 75 52.6 | 75 15.7 | | |
| 10 4 | T. M. | 75 19.2 | 74 34.8 | 75 04.2 | 74 49.4 | 75 17.6 | 75 28.0 | 74 55.8 | 76 09.0 | 75 12.2 | | |
| 13 20 | T. M. | 75 23.4 | 75 24.4 | 75 02.2 | 74 58.2 | 75 14.8 | 75 29.2 | 75 01.4 | 75 13.6 | 75 13.4 | | |
| 14 4 | T. M. | 75 14.8 | 75 30.4 | 75 04.8 | 75 04.6 | 75 10.0 | 75 23.4 | 75 05.2 | 75 17.8 | 75 13.8 | | |
| 16 20 | C. J. | 75 13.6 | 74 28.6 | 75 09.3 | 74 44.6 | 75 13.6 | 75 19.5 | 74 50.6 | 76 02.4 | 75 07.7 | } 75 11.6 | |
| 17 4 | J. L. | 75 22.4 | 74 30.6 | 75 04.2 | 74 44.0 | 75 40.6 | 75 31.8 | 74 26.4 | 75 50.0 | 75 08.7 | | |
| 20 20 | J. J. | 75 30.6 | 74 19.6 | 75 12.6 | 74 51.2 | 75 21.2 | 75 45.0 | 74 30.2 | 76 03.6 | 75 11.7 | | |
| 21 4 | J. J. | 75 30.2 | 74 11.7 | 75 09.6 | 74 46.6 | 75 20.8 | 75 37.4 | 74 42.0 | 76 09.6 | 75 11.0 | | |
| 23 20 | T. M. | 75 50.0 | 74 12.0 | 75 12.6 | 74 32.2 | 75 22.6 | 75 28.2 | 75 00.0 | 76 02.6 | 75 12.5 | | |
| 24 4 | T. M. | 75 35.2 | 74 22.6 | 75 30.0 | 74 38.4 | 75 21.4 | 75 30.4 | 75 00.3 | 76 02.9 | 75 15.1 | | |
| 27 20 | J. J. | 75 41.2 | 74 28.0 | 75 06.2 | 74 49.0 | 75 21.0 | 75 30.0 | 75 02.2 | 76 04.4 | 75 15.2 | | |
| 28 4 | J. J. | 75 37.2 | 74 28.8 | 75 09.6 | 74 44.6 | 75 20.4 | 75 29.6 | 75 02.4 | 76 04.0 | 75 14.6 | | |
| 30 20 | T. M. | 75 41.5 | 74 29.8 | 75 11.4 | 74 52.0 | 75 15.0 | 75 34.0 | 75 00.0 | 75 13.6 | 75 09.7 | | |
| 31 4 | T. M. | 75 37.0 | 74 32.0 | 75 12.0 | 74 48.2 | 75 12.4 | 75 38.0 | 75 00.4 | 75 18.4 | 75 09.8 | | |
| | | | | | | | | | | | | |
| August. | | | | | | | | | | | | |
| 3 20 | J. W. | 75 20.8 | 74 38.2 | 75 10.8 | 74 42.9 | 75 23.1 | 75 30.9 | 75 03.9 | 75 59.0 | 75 13.7 | | } 75 12.6 |
| 4 4 | J. W. | 75 28.8 | 74 30.2 | 75 11.2 | 74 45.6 | 75 18.6 | 75 11.0 | 75 04.0 | 76 04.5 | 75 11.7 | | |
| 6 20 | C. J. | 75 30.7 | 74 44.6 | 75 00.9 | 74 51.9 | 75 08.8 | 74 51.9 | 75 37.4 | 75 56.2 | 75 12.9 | | |
| 7 4 | C. J. | 75 20.5 | 74 34.3 | 74 59.7 | 74 40.4 | 75 10.4 | 75 40.3 | 74 40.7 | 76 26.4 | 75 11.6 | | |
| 10 20 | J. L. | 75 22.2 | 74 36.6 | 75 00.6 | 74 51.4 | 75 14.9 | 75 27.2 | 74 59.2 | 76 10.2 | 75 12.8 | | |
| 11 4 | J. L. | 75 17.2 | 74 34.8 | 75 01.0 | 74 47.0 | 75 18.8 | 75 26.8 | 74 55.8 | 76 13.4 | 75 11.8 | | |
| 13 20 | J. J. | 75 23.6 | 74 30.1 | 75 11.4 | 74 40.0 | 75 18.8 | 75 21.4 | 75 09.4 | 76 10.0 | 75 13.1 | | |
| 14 4 | J. J. | 75 18.5 | 74 40.4 | 74 58.9 | 74 44.5 | 75 19.6 | 75 21.0 | 75 10.6 | 76 06.8 | 75 12.6 | | |
| 17 20 | T. M. | 75 16.4 | 74 38.4 | 75 06.0 | 74 59.2 | 75 14.2 | 75 23.2 | 75 11.2 | 76 03.2 | 75 13.9 | | |
| 18 4 | T. M. | 75 17.2 | 74 35.0 | 75 00.3 | 74 34.6 | 75 15.0 | 75 19.4 | 75 08.0 | 75 58.4 | 75 08.5 | | |
| 20 20 | J. W. | 75 34.0 | 74 37.1 | 75 15.9 | 74 37.2 | 75 22.3 | 75 28.6 | 75 02.5 | 76 09.8 | 75 15.9 | | |
| 21 4 | J. W. | 75 27.6 | 74 33.5 | 75 06.7 | 74 50.8 | 75 13.8 | 75 19.6 | 75 08.2 | 75 43.1 | 75 10.4 | | |
| 24 20 | C. J. | 75 25.4 | 74 30.4 | 75 11.6 | 74 28.9 | 75 12.8 | 75 30.8 | 75 05.0 | 75 49.4 | 75 09.3 | | |
| 25 4 | C. J. | 75 24.2 | 74 34.4 | 75 10.0 | 74 49.2 | 75 18.6 | 75 29.2 | 75 00.9 | 76 08.8 | 75 14.5 | | |
| 27 20 | J. L. | 75 20.6 | 74 38.2 | 75 05.6 | 74 49.6 | 75 12.2 | 75 30.2 | 74 54.8 | 76 00.2 | 75 11.4 | | |
| 28 4 | J. L. | 75 16.4 | 75 05.4 | 75 01.0 | 74 50.0 | 75 12.8 | 75 56.0 | 74 55.0 | 76 03.4 | 75 17.5 | | |
| | | | | | | | | | | | | |
| September. | | | | | | | | | | | | |
| 3 20 ^a | T. M. | 75 41.2 | 74 56.0 | 74 54.1 | 75 22.6 | 75 40.4 | 74 57.2 | 74 51.4 | 75 22.2 | 75 13.1 | } 75 15.4 | |
| 4 4 | T. M. | 75 41.2 | 74 54.0 | 74 51.2 | 75 23.6 | 75 49.6 | 74 43.2 | 75 07.1 | 75 25.0 | 75 14.4 | | |
| 7 20 | J. W. | 75 40.4 | 74 57.3 | 75 11.4 | 75 23.9 | 75 46.2 | 74 47.1 | 75 06.7 | 75 13.5 | 75 15.8 | | |
| 8 4 | J. W. | 75 37.4 | 75 00.8 | 75 06.0 | 75 28.4 | 75 49.2 | 74 49.8 | 75 09.0 | 75 16.5 | 75 17.1 | | |
| 10 20 | C. J. | 75 19.6 | 75 07.5 | 74 57.4 | 75 24.7 | 75 49.6 | 74 54.2 | 75 11.0 | 75 24.7 | 75 16.1 | | |
| 11 4 | C. J. | 75 35.1 | 74 57.7 | 75 20.1 | 75 24.6 | 75 41.4 | 74 54.7 | 75 09.7 | 75 25.0 | 75 18.5 | | |
| 14 20 | J. L. | 75 19.6 | 75 11.6 | 74 53.6 | 75 39.4 | 75 38.2 | 74 50.2 | 75 00.6 | 75 22.6 | 75 14.5 | | |
| 15 4 | J. L. | 75 27.6 | 74 58.8 | 74 48.8 | 75 41.6 | 75 41.0 | 74 52.9 | 74 48.4 | 75 26.2 | 75 13.2 | | |
| 21 20 | T. M. | 75 25.0 | 74 54.0 | 75 02.0 | 75 31.6 | 75 41.6 | 74 51.4 | 75 00.4 | 75 21.0 | 75 13.4 | | |
| 22 3 | T. M. | 75 43.2 | 74 41.2 | 74 59.6 | 75 21.0 | 75 30.8 | 75 06.4 | 75 04.0 | 75 18.6 | 75 13.0 | | |
| 24 20 | J. W. | 75 40.0 | 75 03.8 | 75 01.6 | 75 41.0 | 75 37.8 | 74 55.9 | 74 59.4 | 75 24.0 | 75 17.9 | | |
| 25 4 | J. W. | 75 39.2 | 75 01.6 | 75 06.7 | 75 24.6 | 75 41.0 | 74 48.4 | 75 01.0 | 75 23.5 | 75 15.7 | | |
| 28 20 | C. J. | 75 29.6 | 75 04.8 | 75 04.6 | 75 40.3 | 75 45.5 | 74 53.6 | 75 06.3 | 75 23.8 | 75 18.5 | | |
| 29 3 | C. J. | 75 22.4 | 75 00.0 | 75 00.4 | 75 32.1 | 75 46.6 | 74 49.0 | 75 09.9 | 75 20.1 | 75 15.1 | | |

^a R. 1. inadvertently left exposed, and the axle injured. R. 2. taken into use.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|---------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | | |
| 1847. | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| October. | | | | | | | | | | | | |
| 1 20 | J. L. | 75 36.4 | 75 09.0 | 75 01.6 | 75 36.4 | 75 34.2 | 74 56.0 | 75 05.8 | 75 26.8 | 75 18.2 | 75 17.6 | |
| 2 4 | J. L. | 75 29.2 | 75 04.0 | 74 57.2 | 75 38.2 | 75 38.2 | 74 56.6 | 75 09.8 | 75 23.0 | 75 17.0 | | |
| 5 20 | J. J. | 75 40.0 | 75 00.0 | 75 00.0 | 75 28.3 | 75 43.0 | 74 54.3 | 75 00.6 | 75 29.4 | 75 17.0 | | |
| 6 4 | J. J. | 75 36.8 | 75 00.0 | 75 04.0 | 75 32.6 | 75 38.4 | 74 59.2 | 75 01.8 | 75 26.2 | 75 17.4 | | |
| 8 20 | T. M. | 75 32.2 | 75 05.3 | 75 04.8 | 75 24.0 | 75 40.8 | 74 51.6 | 75 01.8 | 75 30.6 | 75 16.4 | | |
| 9 4 | T. M. | 75 35.6 | 75 03.4 | 75 10.0 | 75 18.0 | 75 40.2 | 74 49.2 | 75 06.8 | 75 28.6 | 75 16.4 | | |
| 12 20 | J. W. | 75 36.3 | 75 05.9 | 75 14.7 | 75 33.4 | 75 39.0 | 74 54.2 | 75 09.4 | 75 15.1 | 75 18.5 | | |
| 13 4 | J. W. | 75 45.1 | 74 57.0 | 75 11.6 | 75 20.6 | 75 45.0 | 74 50.4 | 75 12.9 | 75 17.8 | 75 17.5 | | |
| 15 20 | C. J. | 75 36.8 | 75 05.7 | 75 15.1 | 75 32.5 | 75 36.4 | 74 54.2 | 75 10.4 | 75 15.7 | 75 18.3 | | |
| 16 4 | C. J. | 75 44.9 | 74 55.4 | 75 14.8 | 75 20.8 | 75 44.5 | 74 50.4 | 75 11.0 | 75 17.8 | 75 17.4 | | |
| 19 20 | J. L. | 75 35.2 | 75 03.2 | 74 57.2 | 75 41.2 | 75 35.6 | 75 04.4 | 75 03.2 | 75 26.0 | 75 18.2 | | |
| 20 4 | J. L. | 75 27.2 | 75 05.6 | 74 51.4 | 75 39.4 | 75 36.2 | 74 56.8 | 75 02.0 | 75 27.4 | 75 15.7 | | |
| 23 4 | J. J. | 75 38.4 | 74 58.6 | 75 18.8 | 75 17.6 | 75 47.0 | 74 55.8 | 75 19.3 | 75 19.4 | 75 19.4 | | |
| 26 20 | J. J. | 75 39.4 | 75 02.8 | 75 17.0 | 75 27.2 | 75 39.9 | 74 52.9 | 75 19.6 | 75 17.2 | 75 19.5 | | |
| 27 4 | T. M. | 75 43.6 | 74 57.0 | 75 12.0 | 75 31.0 | 75 41.9 | 74 52.4 | 75 22.0 | 75 12.0 | 75 19.0 | | |
| 29 20 | T. M. | 75 30.8 | 75 09.8 | 75 05.1 | 75 30.2 | 75 28.0 | 75 02.1 | 75 08.4 | 75 20.4 | 75 16.8 | | |
| 30 4 | J. W. | 75 29.4 | 75 08.6 | 75 05.9 | 75 29.2 | 75 29.4 | 75 00.8 | 75 08.4 | 75 25.8 | 75 17.2 | | |
| November. | | | | | | | | | | | | |
| 2 20 | C. J. | 75 35.3 | 75 09.7 | 75 10.4 | 75 20.6 | 75 28.2 | 74 55.1 | 75 16.6 | 75 20.0 | 75 17.0 | | 75 17.7 |
| 3 4 | C. J. | 75 23.8 | 75 05.4 | 75 20.0 | 75 35.3 | 75 35.0 | 75 01.4 | 75 04.8 | 75 23.0 | 75 18.4 | | |
| 5 20 | J. L. | 75 30.6 | 75 06.2 | 74 55.0 | 75 42.4 | 75 31.4 | 75 07.3 | 75 05.0 | 75 28.8 | 75 18.3 | | |
| 6 4 | J. L. | 75 22.6 | 75 09.2 | 74 53.6 | 75 37.9 | 75 24.4 | 75 04.1 | 75 00.0 | 75 29.0 | 75 15.1 | | |
| 9 20 | J. J. | 75 32.2 | 75 06.4 | 75 08.6 | 75 31.2 | 75 33.9 | 74 53.4 | 75 10.8 | 75 20.5 | 75 17.1 | | |
| 10 4 | J. J. | 75 33.5 | 75 02.2 | 75 09.4 | 75 33.0 | 75 35.9 | 74 54.5 | 75 08.8 | 75 20.7 | 75 17.2 | | |
| 12 20 | T. M. | 75 30.4 | 75 06.4 | 75 03.8 | 75 34.2 | 75 49.0 | 75 02.2 | 75 11.6 | 75 08.6 | 75 18.2 | | |
| 13 4 | T. M. | 75 30.0 | 75 12.6 | 75 02.0 | 75 29.2 | 75 48.4 | 74 53.0 | 75 16.2 | 75 08.4 | 75 17.4 | | |
| 16 20 | J. W. | 75 29.2 | 75 09.6 | 75 04.6 | 75 32.8 | 75 35.3 | 75 00.0 | 75 03.9 | 75 29.8 | 75 18.1 | | |
| 17 4 | J. W. | 75 28.0 | 75 03.1 | 75 11.9 | 75 29.8 | 75 34.3 | 74 58.4 | 75 03.1 | 75 28.2 | 75 17.1 | | |
| 19 20 | C. J. | 75 39.6 | 75 15.6 | 75 20.8 | 75 29.9 | 75 30.6 | 74 57.0 | 75 20.7 | 75 19.7 | 75 21.8 | | |
| 20 4 | C. J. | 75 27.6 | 75 15.0 | 75 24.4 | 75 23.4 | 75 30.0 | 74 58.0 | 75 19.0 | 75 17.4 | 75 19.2 | | |
| 23 20 | J. L. | 75 23.2 | 75 15.8 | 74 59.1 | 75 42.6 | 75 29.0 | 75 01.8 | 75 05.0 | 75 34.2 | 75 18.8 | | |
| 24 4 | J. L. | 75 21.4 | 75 12.0 | 74 53.2 | 75 41.6 | 75 32.0 | 75 03.3 | 75 01.8 | 75 31.0 | 75 17.0 | | |
| 26 20 | J. J. | 75 25.5 | 75 12.0 | 75 01.7 | 75 29.4 | 75 24.0 | 75 04.2 | 75 09.4 | 75 30.8 | 75 17.1 | | |
| 27 4 | J. J. | 75 31.5 | 75 00.0 | 75 06.0 | 75 21.7 | 75 30.4 | 75 09.7 | 75 00.0 | 75 30.8 | 75 16.3 | | |
| December. | | | | | | | | | | | | |
| Nov. 30 20 | T. M. | 75 25.0 | 75 14.2 | 75 04.6 | 75 30.2 | 75 37.0 | 75 01.0 | 75 20.4 | 75 20.2 | 75 19.0 | 75 17.0 | |
| 1 4 | T. M. | 75 28.0 | 75 11.6 | 75 06.2 | 75 26.0 | 75 37.0 | 75 01.8 | 75 25.6 | 75 18.4 | 75 19.3 | | |
| 3 20 | J. W. | 75 19.2 | 75 12.5 | 75 00.8 | 75 36.9 | 75 32.1 | 74 49.2 | 75 11.0 | 75 25.8 | 75 17.1 | | |
| 4 4 | J. W. | 75 21.5 | 75 06.1 | 75 01.6 | 75 39.4 | 75 36.9 | 75 02.7 | 75 06.5 | 75 29.4 | 75 18.0 | | |
| 7 20 | C. J. | 75 35.1 | 75 00.1 | 75 11.2 | 74 55.1 | 75 35.4 | 74 55.6 | 75 12.8 | 75 15.2 | 75 12.6 | | |
| 8 4 | C. J. | 75 32.9 | 75 10.3 | 75 15.1 | 75 01.3 | 75 31.4 | 75 00.0 | 75 20.0 | 75 25.0 | 75 17.0 | | |
| 10 20 | J. L. | 75 24.5 | 75 11.8 | 74 57.8 | 75 37.2 | 75 24.4 | 75 01.7 | 75 09.8 | 75 20.6 | 75 16.0 | | |
| 11 4 | J. L. | 75 31.8 | 75 09.0 | 75 06.4 | 75 34.3 | 75 36.9 | 75 01.0 | 75 09.8 | 75 19.8 | 75 18.6 | | |
| 14 20 | J. J. | 75 20.1 | 75 07.8 | 75 10.5 | 75 29.7 | 75 15.9 | 75 04.8 | 75 11.5 | 75 21.7 | 75 15.2 | | |
| 15 4 | J. J. | 75 30.1 | 75 04.0 | 75 07.6 | 75 25.3 | 75 28.6 | 75 00.0 | 75 02.0 | 75 24.8 | 75 15.2 | | |
| 17 20 | T. M. | 75 26.8 | 75 02.6 | 75 10.0 | 75 18.8 | 75 17.2 | 75 00.4 | 75 15.2 | 75 27.2 | 75 14.8 | | |
| 18 4 | T. M. | 75 33.2 | 75 11.6 | 75 03.0 | 75 14.0 | 75 26.8 | 74 59.2 | 75 09.6 | 75 21.6 | 75 14.9 | | |
| 21 20 | J. W. | 75 22.3 | 75 04.4 | 75 13.3 | 75 24.5 | 75 28.8 | 74 58.8 | 75 11.4 | 75 25.6 | 75 16.1 | | |
| 22 4 | J. W. | 75 26.1 | 75 04.6 | 75 08.6 | 75 29.2 | 75 33.9 | 75 01.7 | 75 17.6 | 75 21.4 | 75 17.8 | | |
| 28 20 | J. L. | 75 25.6 | 75 12.8 | 75 12.0 | 75 32.5 | 75 32.6 | 75 04.6 | 75 13.0 | 75 21.4 | 75 19.3 | | |
| 29 4 | J. L. | 75 29.4 | 75 10.8 | 75 03.4 | 75 39.2 | 75 36.4 | 75 05.8 | 75 12.6 | 75 21.2 | 75 19.8 | | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | |
| 1848. | | | | | | | | | | | |
| January. | | | | | | | | | | | |
| D. | | | | | | | | | | | |
| 16 | T. M. | 75 29.1 | 75 12.5 | 75 06.1 | 75 32.6 | 75 34.6 | 75 04.1 | 75 14.5 | 75 20.4 | 75 19.2 | 75 20.3 |
| 17 | C. J. | 75 28.4 | 75 10.7 | 75 03.4 | 75 35.0 | 75 35.3 | 75 06.2 | 75 21.2 | 75 25.0 | 75 20.7 | |
| 17 | C. J. | 75 29.1 | 75 09.1 | 75 12.0 | 75 34.9 | 75 35.4 | 75 09.9 | 75 07.1 | 75 19.8 | 75 19.7 | |
| 18 | C. J. | 75 30.1 | 74 59.8 | 75 19.6 | 75 29.6 | 75 35.2 | 75 00.5 | 75 16.8 | 75 30.1 | 75 20.3 | |
| 18 | J. J. | 75 22.8 | 75 07.2 | 75 16.9 | 75 33.5 | 75 35.2 | 75 24.8 | 75 07.0 | 75 12.0 | 75 19.9 | |
| 19 | J. J. | 75 33.8 | 75 00.1 | 75 03.5 | 75 52.8 | 75 14.4 | 75 50.6 | 74 58.8 | 75 10.4 | 75 20.5 | |
| 19 | J. J. | 75 15.4 | 75 22.1 | 75 16.6 | 75 26.2 | 75 13.0 | 75 19.8 | 75 14.8 | 75 39.8 | 75 20.9 | |
| 19 | J. J. | 75 26.6 | 75 20.4 | 74 55.1 | 75 47.0 | 75 28.3 | 75 12.3 | 75 13.0 | 75 26.8 | 75 21.2 | |
| February. | | | | | | | | | | | |
| 16 | J. L. | 75 33.1 | 75 17.8 | 75 22.4 | 75 29.0 | 75 44.1 | 74 51.3 | 75 20.1 | 75 25.1 | 75 22.8 | 75 18.7 |
| 16 | J. L. | 75 34.3 | 75 00.3 | 75 11.5 | 75 43.3 | 75 48.0 | 74 53.2 | 75 12.6 | 75 34.3 | 75 22.1 | |
| 17 | J. W. | 75 35.4 | 74 58.4 | 75 10.8 | 75 15.0 | 75 17.6 | 75 19.5 | 75 35.0 | 75 10.0 | 75 17.7 | |
| 17 | J. W. | 75 11.8 | 75 24.9 | 75 30.8 | 75 11.9 | 75 13.8 | 75 22.2 | 75 33.3 | 75 06.4 | 75 19.3 | |
| 17 | T. M. | 75 12.5 | 75 27.0 | 75 28.9 | 75 08.7 | 75 18.3 | 75 15.6 | 75 41.0 | 74 58.0 | 75 18.8 | |
| 17 | T. M. | 75 12.0 | 75 30.2 | 75 31.2 | 75 12.2 | 75 20.0 | 75 14.8 | 75 39.8 | 75 01.0 | 75 20.1 | |
| 18 | J. J. | 75 10.3 | 75 26.2 | 75 28.6 | 75 01.8 | 75 05.2 | 75 22.3 | 75 28.9 | 75 08.7 | 75 16.5 | |
| 18 | J. J. | 75 05.7 | 75 30.0 | 75 25.2 | 75 07.9 | 75 06.6 | 75 21.1 | 75 30.4 | 75 08.2 | 75 16.9 | |
| 18 | C. J. | 75 10.5 | 75 18.8 | 75 32.7 | 74 59.3 | 75 19.2 | 75 20.6 | 75 14.8 | 75 20.0 | 75 17.0 | |
| 19 | C. J. | 75 01.2 | 75 24.0 | 75 19.2 | 75 05.8 | 75 08.3 | 75 32.9 | 75 25.3 | 75 10.0 | 75 15.8 | |
| March. | | | | | | | | | | | |
| 13 | J. W. | 75 07.6 | 75 25.9 | 75 36.8 | 75 01.2 | 75 05.3 | 75 26.5 | 75 41.7 | 74 53.8 | 75 17.3 | 75 17.2 |
| 13 | J. W. | 75 00.0 | 75 26.1 | 75 39.2 | 74 57.7 | 75 09.0 | 75 28.5 | 75 37.8 | 74 58.8 | 75 17.1 | |
| 13 | C. J. | 75 11.1 | 75 17.1 | 75 36.0 | 75 09.4 | 75 19.6 | 75 27.1 | 75 11.0 | 74 56.8 | 75 16.0 | |
| 13 | C. J. | 75 13.5 | 75 19.8 | 75 35.0 | 74 55.4 | 75 13.0 | 75 29.5 | 75 34.4 | 74 58.1 | 75 17.4 | |
| 14 | J. J. | 74 50.4 | 75 43.5 | 75 45.1 | 74 59.0 | 75 09.0 | 75 27.2 | 75 39.0 | 74 51.3 | 75 18.0 | |
| 14 | J. J. | 74 52.7 | 75 41.3 | 75 35.2 | 74 59.2 | 75 00.0 | 75 38.6 | 75 38.8 | 74 51.0 | 75 17.1 | |
| 14 | J. L. | 75 01.0 | 75 38.2 | 75 28.0 | 75 03.8 | 75 08.8 | 75 27.0 | 75 47.6 | 74 49.5 | 75 18.0 | |
| 14 | J. L. | 74 52.2 | 75 30.1 | 75 36.9 | 74 54.9 | 75 11.4 | 75 29.0 | 75 48.2 | 74 45.4 | 75 16.0 | |
| 15 | T. M. | 74 56.1 | 75 41.0 | 75 29.8 | 75 00.0 | 75 08.0 | 75 25.2 | 75 54.2 | 74 45.3 | 75 17.4 | |
| 15 | T. M. | 74 58.4 | 75 39.7 | 75 30.0 | 74 57.4 | 75 09.2 | 75 27.2 | 75 50.2 | 74 46.4 | 75 17.3 | |
| April. | | | | | | | | | | | |
| 16 | T. M. | 75 01.0 | 75 36.3 | 75 43.0 | 75 00.0 | 75 05.1 | 75 25.1 | 75 43.8 | 75 45.3 | 75 17.4 | 75 18.0 |
| 16 | T. M. | 74 58.4 | 75 32.8 | 75 44.1 | 75 00.0 | 75 13.1 | 75 21.8 | 75 42.8 | 74 45.0 | 75 17.2 | |
| 17 | J. W. | 75 04.9 | 75 29.2 | 75 34.7 | 74 57.6 | 75 01.0 | 75 39.8 | 75 47.2 | 74 52.9 | 75 18.4 | |
| 17 | J. W. | 75 05.1 | 75 34.8 | 75 36.2 | 74 52.6 | 74 58.2 | 75 37.6 | 75 47.1 | 74 52.1 | 75 17.9 | |
| 17 | C. J. | 75 04.6 | 75 34.4 | 75 35.2 | 74 57.4 | 75 01.0 | 75 39.6 | 75 40.2 | 74 57.4 | 75 18.8 | |
| 17 | C. J. | 75 05.4 | 75 36.4 | 75 39.5 | 74 55.6 | 75 05.0 | 75 36.7 | 75 38.2 | 74 56.4 | 75 19.2 | |
| 18 | J. L. | 75 02.6 | 75 33.4 | 75 33.1 | 75 01.9 | 75 07.1 | 75 36.1 | 75 40.6 | 74 49.2 | 75 18.0 | |
| 18 | J. L. | 74 53.6 | 75 46.0 | 75 32.8 | 75 03.9 | 75 10.0 | 75 36.3 | 75 37.6 | 74 49.0 | 75 18.6 | |
| 18 | J. J. | 74 52.0 | 75 47.4 | 75 39.4 | 74 51.9 | 74 57.6 | 75 49.0 | 75 37.2 | 74 48.7 | 75 17.9 | |
| 18 | J. J. | 74 48.5 | 75 51.1 | 75 37.6 | 74 51.0 | 75 12.8 | 75 36.3 | 75 35.2 | 74 45.6 | 75 17.3 | |
| 19 | T. M. | 74 53.2 | 75 47.2 | 75 38.2 | 74 49.6 | 74 56.0 | 75 43.3 | 75 44.9 | 74 52.8 | 75 18.1 | |
| 19 | T. M. | 74 55.6 | 75 46.0 | 75 37.4 | 74 49.6 | 74 55.0 | 75 42.4 | 75 35.0 | 75 00.0 | 75 17.6 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1848. | | | | | | | | | | | |
| D. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| 14 | J. W. | 74 58.8 | 75 37.5 | 75 40.3 | 74 50.0 | 75 06.2 | 75 29.6 | 75 47.2 | 74 55.3 | 75 18.2 | |
| 14 | C. J. | 75 00.0 | 75 40.0 | 75 40.5 | 74 50.0 | 74 55.1 | 75 29.9 | 75 45.0 | 75 08.5 | 75 18.6 | |
| 15 | J. J. | 74 49.7 | 75 39.6 | 75 37.7 | 75 01.0 | 74 56.5 | 75 37.5 | 75 36.0 | 74 50.4 | 75 16.0 | |
| 15 | J. J. | 74 48.8 | 75 39.8 | 75 38.7 | 74 59.2 | 74 50.9 | 75 36.8 | 75 40.3 | 74 54.8 | 75 16.1 | |
| 15 | C. J. | 74 50.0 | 75 44.1 | 75 32.6 | 74 58.2 | 74 59.4 | 75 35.3 | 75 45.1 | 74 54.9 | 75 17.5 | |
| 15 | C. J. | 75 05.4 | 75 44.1 | 75 34.9 | 74 50.0 | 74 55.1 | 75 30.1 | 75 40.0 | 75 00.2 | 75 17.5 | |
| 16 | J. W. | 74 49.6 | 75 45.5 | 75 34.3 | 75 59.8 | 74 54.2 | 75 40.6 | 75 34.8 | 74 52.3 | 75 16.4 | 75 17.2 |
| 16 | J. W. | 74 54.4 | 75 44.8 | 75 33.4 | 74 58.6 | 74 58.6 | 75 34.1 | 75 37.0 | 74 54.2 | 75 16.9 | |
| 16 | T. M. | 74 59.4 | 75 40.2 | 75 38.5 | 75 04.4 | 75 02.6 | 75 21.8 | 75 46.4 | 74 45.3 | 75 17.2 | |
| 16 | T. M. | 74 57.6 | 75 39.1 | 75 41.5 | 75 02.8 | 75 07.0 | 75 18.0 | 75 45.8 | 74 44.4 | 75 17.0 | |
| 17 | J. L. | 74 56.4 | 75 44.2 | 75 41.3 | 74 53.1 | 75 00.4 | 75 32.6 | 75 39.6 | 74 56.4 | 75 18.0 | |
| 17 | J. L. | 75 00.8 | 75 42.7 | 75 35.7 | 75 00.4 | 74 57.3 | 75 27.0 | 75 43.8 | 74 52.7 | 75 17.5 | |
| 14 | C. J. | 74 55.6 | 75 35.4 | 75 30.2 | 75 00.2 | 74 54.7 | 75 42.0 | 75 34.6 | 74 55.3 | 75 16.1 | |
| 14 | C. J. | 74 53.8 | 75 37.9 | 75 35.0 | 74 55.0 | 75 00.2 | 75 39.2 | 75 31.0 | 74 59.1 | 75 16.4 | |
| 15 | T. M. | 75 02.0 | 75 34.5 | 75 24.8 | 75 02.5 | 75 11.6 | 75 09.5 | 75 39.6 | 75 10.0 | 75 16.8 | |
| 15 | T. M. | 75 10.2 | 75 38.4 | 75 25.4 | 75 00.0 | 75 08.4 | 75 08.4 | 75 37.0 | 75 12.0 | 75 17.4 | |
| 15 | J. J. | 74 56.3 | 75 30.1 | 75 33.6 | 75 06.8 | 75 03.9 | 75 23.7 | 75 30.8 | 75 25.2 | 75 17.2 | |
| 15 | J. J. | 75 04.2 | 75 29.0 | 75 30.5 | 75 02.4 | 75 22.1 | 75 22.9 | 75 31.6 | 74 57.2 | 75 17.5 | 75 16.8 |
| 16 | J. J. | 74 57.2 | 75 40.7 | 75 29.0 | 74 56.7 | 75 04.6 | 75 28.8 | 75 38.8 | 74 48.8 | 75 15.6 | |
| 16 | J. J. | 74 49.2 | 75 40.6 | 75 29.8 | 74 59.4 | 75 11.8 | 75 27.8 | 75 38.2 | 74 49.0 | 75 15.7 | |
| 16 | J. W. | 74 57.2 | 75 39.0 | 75 37.1 | 74 49.6 | 75 07.1 | 75 27.9 | 75 42.1 | 74 49.6 | 75 16.2 | |
| 16 | J. W. | 74 57.3 | 75 40.0 | 75 38.8 | 74 52.0 | 75 04.5 | 75 38.5 | 75 39.0 | 74 50.4 | 75 17.5 | |
| 17 | J. W. | 74 57.9 | 75 36.9 | 75 47.7 | 74 50.1 | 75 01.4 | 75 26.8 | 75 40.8 | 74 50.2 | 75 16.4 | |
| 17 | J. W. | 75 01.6 | 75 23.2 | 75 48.0 | 74 49.2 | 75 08.4 | 75 41.8 | 75 50.6 | 74 48.5 | 75 18.9 | |
| 17 | J. W. | 75 04.1 | 75 41.4 | 75 55.6 | 74 38.4 | 75 03.6 | 75 30.6 | 75 50.1 | 74 34.7 | 75 17.3 | |
| 17 | J. W. | 74 56.8 | 75 54.2 | 75 48.8 | 74 39.0 | 75 01.7 | 75 30.2 | 75 49.8 | 74 31.8 | 75 16.5 | |
| 18 | J. W. | 74 56.5 | 75 44.3 | 75 54.2 | 74 40.6 | 74 57.2 | 75 30.2 | 75 54.2 | 74 37.8 | 75 16.8 | |
| 18 | J. W. | 74 57.0 | 75 40.7 | 75 52.0 | 74 41.6 | 74 58.2 | 75 30.8 | 75 51.4 | 74 40.0 | 75 16.4 | |
| 18 | J. J. | 74 50.9 | 75 23.3 | 75 51.0 | 74 47.0 | 74 56.6 | 75 33.9 | 75 48.6 | 74 30.7 | 75 12.7 | |
| 18 | T. M. | 74 55.7 | 75 34.6 | 76 05.0 | 74 34.4 | 75 36.7 | 74 58.8 | 75 54.7 | 74 28.6 | 75 16.0 | 75 16.4 |
| 19 | T. M. | 74 53.2 | 75 30.4 | 75 58.6 | 74 39.0 | 74 56.4 | 75 38.0 | 76 00.0 | 74 29.2 | 75 15.6 | |
| 19 | T. M. | 74 57.1 | 75 24.0 | 76 01.0 | 74 40.7 | 75 02.7 | 75 28.4 | 75 57.6 | 74 44.0 | 75 16.9 | |
| 19 | J. J. | 75 12.6 | 75 39.8 | 75 54.0 | 74 33.9 | 74 50.0 | 75 34.1 | 75 40.0 | 74 38.0 | 75 15.3 | |
| 19 | J. J. | 75 03.2 | 75 36.5 | 75 48.8 | 74 34.8 | 74 56.6 | 75 38.2 | 75 47.4 | 74 34.5 | 75 15.0 | |
| 20 | C. J. | 75 13.3 | 75 40.1 | 75 58.8 | 74 39.4 | 75 00.4 | 75 37.4 | 75 39.5 | 74 46.4 | 75 19.4 | |
| 20 | C. J. | 75 11.4 | 75 36.5 | 75 31.0 | 74 54.6 | 75 05.8 | 75 20.6 | 75 40.4 | 75 09.7 | 75 18.8 | |
| 14 | J. W. | 74 54.7 | 75 37.4 | 76 00.0 | 74 29.2 | 75 10.1 | 75 29.1 | 76 02.0 | 74 28.2 | 75 16.3 | |
| 14 | J. W. | 75 06.7 | 75 36.4 | 76 01.9 | 74 32.0 | 75 13.2 | 75 30.4 | 76 03.6 | 74 27.5 | 75 18.9 | |
| 15 | T. M. | 74 53.5 | 75 40.8 | 75 54.0 | 74 34.0 | 75 12.2 | 75 30.0 | 76 00.0 | 74 33.4 | 75 17.2 | |
| 15 | T. M. | 75 02.0 | 75 36.8 | 75 52.6 | 74 35.0 | 75 24.2 | 75 30.6 | 75 57.8 | 74 37.6 | 75 19.6 | |
| 15 | T. M. | 75 12.5 | 75 46.0 | 76 02.0 | 74 28.4 | 75 14.4 | 75 30.8 | 76 01.0 | 74 29.2 | 75 20.5 | |
| 15 | T. M. | 75 07.6 | 75 49.2 | 75 59.6 | 74 35.2 | 75 10.0 | 75 32.4 | 76 01.0 | 74 28.0 | 75 20.3 | |
| 16 | J. W. | 74 50.3 | 75 59.8 | 75 51.0 | 74 39.6 | 74 52.2 | 75 32.7 | 76 02.7 | 74 35.6 | 75 18.0 | |
| 16 | J. W. | 74 51.3 | 75 56.5 | 75 49.6 | 74 42.0 | 74 56.1 | 75 30.9 | 76 06.1 | 74 28.1 | 75 17.5 | 75 19.0 |
| 16 | C. J. | 75 08.0 | 75 57.2 | 75 25.9 | 74 44.6 | 74 45.0 | 75 16.5 | 76 07.0 | 75 02.4 | 75 18.3 | |
| 16 | C. J. | 74 46.5 | 75 56.3 | 75 51.1 | 74 40.8 | 75 15.7 | 75 44.2 | 75 53.8 | 74 36.6 | 75 20.7 | |
| 17 | C. J. | 74 50.0 | 75 42.7 | 75 58.0 | 74 55.5 | 74 58.5 | 75 31.3 | 75 41.1 | 74 56.9 | 75 19.3 | |
| 17 | C. J. | 75 05.8 | 75 57.7 | 75 35.1 | 74 54.5 | 74 51.9 | 75 36.0 | 75 45.0 | 74 58.7 | 75 20.6 | |
| 17 | J. J. | 75 02.2 | 75 47.1 | 75 54.2 | 74 44.5 | 74 48.6 | 75 46.7 | 76 07.0 | 74 37.5 | 75 20.9 | |
| 17 | J. J. | 75 07.2 | 76 05.6 | 75 45.3 | 74 40.2 | 74 50.2 | 75 29.4 | 76 10.6 | 74 39.2 | 75 21.0 | |
| 18 | J. J. | 74 54.1 | 75 41.3 | 75 42.7 | 74 40.1 | 74 45.7 | 75 45.9 | 76 04.5 | 74 38.1 | 75 16.5 | |
| 18 | J. J. | 75 02.6 | 75 49.7 | 75 33.5 | 74 44.8 | 74 54.2 | 75 50.0 | 76 05.2 | 74 33.6 | 75 19.2 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | |
| 1848. | | | | | | | | | | | |
| | D. | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| September. | 14 | J. J. | 74 56.9 | 75 59.8 | 75 54.3 | 74 35.0 | 74 50.3 | 75 10.9 | 76 02.7 | 75 06.0 | 75 19.5 |
| | 14 | J. J. | 75 23.8 | 75 30.1 | 75 42.6 | 74 58.2 | 75 16.2 | 75 07.3 | 75 17.9 | 75 01.0 | 75 17.2 |
| | 15 | C. J. | 75 05.0 | 75 26.7 | 75 26.2 | 75 10.7 | 75 42.1 | 75 29.9 | 75 35.5 | 74 38.4 | 75 19.3 |
| | 15 | C. J. | 75 17.8 | 75 25.3 | 75 25.1 | 75 12.6 | 75 39.8 | 75 30.0 | 75 45.3 | 74 29.4 | 75 20.6 |
| | 15 | J. J. | 75 19.8 | 75 25.5 | 75 32.9 | 75 02.0 | 75 04.0 | 75 14.8 | 75 22.3 | 74 46.0 | 75 13.4 |
| | 15 | J. J. | 75 28.8 | 75 22.1 | 75 32.4 | 74 47.5 | 75 21.3 | 75 09.4 | 75 22.5 | 74 40.5 | 75 13.1 |
| | 16 | J. W. | 75 14.0 | 75 23.1 | 75 42.8 | 74 53.5 | 75 21.0 | 75 24.0 | 75 49.3 | 74 35.0 | 75 17.8 |
| | 16 | J. W. | 75 14.1 | 75 33.9 | 75 46.8 | 75 04.3 | 75 28.8 | 75 10.2 | 75 43.8 | 74 35.4 | 75 19.6 |
| | 18 | J. J. | 75 08.7 | 75 36.8 | 75 39.2 | 75 00.2 | 75 10.3 | 75 30.9 | 75 52.0 | 74 23.0 | 75 17.6 |
| | 18 | J. J. | 75 13.2 | 75 31.3 | 75 42.2 | 74 49.8 | 75 11.3 | 75 52.0 | 75 32.1 | 74 27.0 | 75 17.3 |
| 19 | C. J. | 75 10.2 | 75 21.0 | 75 42.4 | 74 39.6 | 75 10.2 | 75 36.4 | 75 52.7 | 74 27.2 | 75 14.9 | |
| 19 | C. J. | 75 12.3 | 75 22.1 | 75 35.6 | 74 41.0 | 75 29.2 | 75 30.6 | 75 39.4 | 74 52.2 | 75 17.8 | |
| October. | 16 | J. J. | 75 07.0 | 75 49.7 | 75 34.5 | 74 46.2 | 75 24.8 | 75 30.5 | 75 41.5 | 74 26.2 | 75 17.5 |
| | 16 | J. J. | 74 50.0 | 75 44.2 | 75 48.4 | 74 48.4 | 75 17.9 | 75 41.2 | 75 54.4 | 74 25.2 | 75 18.7 |
| | 17 | C. J. | 74 49.2 | 75 42.0 | 75 49.8 | 74 48.6 | 75 04.6 | 75 41.9 | 75 42.7 | 74 59.8 | 75 19.9 |
| | 17 | C. J. | 75 02.2 | 75 54.8 | 75 35.0 | 74 34.9 | 75 14.7 | 75 46.0 | 75 42.9 | 74 43.9 | 75 19.3 |
| | 18 | J. W. | 74 47.8 | 75 54.9 | 75 50.6 | 74 44.5 | 75 10.9 | 75 27.2 | 75 59.2 | 74 36.3 | 75 18.9 |
| | 18 | J. W. | 74 51.6 | 76 01.7 | 75 42.1 | 74 48.6 | 75 11.8 | 75 43.0 | 76 01.6 | 74 39.1 | 75 22.4 |
| | 18 | J. W. | 74 53.6 | 76 01.7 | 75 53.0 | 74 42.0 | 75 07.8 | 75 28.2 | 76 03.8 | 74 40.4 | 75 21.2 |
| | 18 | J. W. | 74 52.4 | 76 04.4 | 75 52.4 | 74 42.8 | 75 06.7 | 75 29.4 | 76 03.2 | 74 37.8 | 75 21.4 |
| | 19 | T. M. | 75 05.6 | 75 42.2 | 75 50.0 | 74 54.5 | 75 19.5 | 75 40.9 | 75 32.4 | 74 46.1 | 75 21.4 |
| | 19 | T. M. | 75 00.4 | 75 36.5 | 75 31.5 | 74 55.9 | 75 10.4 | 75 32.7 | 75 35.8 | 75 01.6 | 75 18.1 |
| | 19 | C. J. | 74 45.0 | 75 30.0 | 75 39.9 | 74 57.0 | 74 52.1 | 75 30.8 | 75 48.7 | 74 54.1 | 75 14.7 |
| | 19 | C. J. | 74 48.3 | 75 34.7 | 75 39.0 | 74 58.1 | 74 50.8 | 75 32.7 | 75 47.6 | 74 48.1 | 75 14.9 |
| 20 | J. J. | 74 39.9 | 75 43.0 | 75 27.4 | 75 15.3 | 75 30.5 | 75 43.7 | 75 37.5 | 74 35.0 | 75 19.0 | |
| 20 | J. J. | 74 55.0 | 75 45.7 | 75 20.6 | 75 02.0 | 75 07.6 | 75 40.4 | 75 52.5 | 74 45.7 | 75 18.7 | |
| November. | 20 | C. J. | 74 43.1 | 75 50.7 | 75 40.0 | 74 51.9 | 75 21.1 | 75 40.0 | 76 02.8 | 74 34.3 | 75 20.5 |
| | 20 | C. J. | 74 42.5 | 75 40.1 | 75 40.4 | 74 59.1 | 75 14.8 | 75 40.4 | 76 07.4 | 74 34.9 | 75 20.2 |
| | 21 | T. M. | 74 40.5 | 76 10.0 | 75 39.6 | 74 50.7 | 75 05.5 | 75 37.7 | 76 06.1 | 74 35.0 | 75 20.6 |
| | 21 | T. M. | 74 38.0 | 76 07.6 | 75 40.0 | 74 45.0 | 75 02.8 | 75 37.0 | 76 08.4 | 74 37.8 | 75 19.5 |
| | 21 | J. J. | 75 04.0 | 75 43.3 | 75 33.5 | 74 48.7 | 75 06.6 | 75 44.6 | 75 50.6 | 74 35.3 | 75 18.3 |
| | 21 | J. J. | 74 45.4 | 75 58.0 | 75 38.6 | 74 47.4 | 74 51.0 | 75 50.2 | 75 50.5 | 74 33.7 | 75 16.9 |
| | 22 | C. J. | 74 47.4 | 75 45.1 | 75 41.3 | 74 53.6 | 75 16.2 | 75 40.7 | 75 53.1 | 74 36.1 | 75 19.2 |
| | 22 | C. J. | 75 03.2 | 75 32.6 | 75 43.7 | 75 00.0 | 75 13.1 | 75 41.9 | 75 52.5 | 74 36.3 | 75 20.5 |
| | 22 | J. W. | 75 14.3 | 75 31.7 | 75 50.1 | 75 01.8 | 74 56.4 | 75 41.2 | 75 44.1 | 74 36.7 | 75 19.5 |
| | 22 | J. W. | 75 16.3 | 75 46.9 | 75 51.2 | 74 36.4 | 75 15.7 | 75 31.8 | 75 41.2 | 74 53.5 | 75 21.6 |
| 23 | J. J. | 75 05.2 | 75 09.8 | 75 56.9 | 74 45.3 | 75 09.7 | 75 44.7 | 75 49.7 | 74 36.6 | 75 17.2 | |
| 23 | J. J. | 75 08.8 | 75 34.1 | 75 45.1 | 74 43.5 | 75 59.6 | 75 52.1 | 75 44.9 | 74 39.8 | 75 18.5 | |
| December. | 18 | C. J. | 75 02.2 | 75 26.0 | 75 47.4 | 75 04.2 | 75 23.0 | 75 32.8 | 75 52.5 | 74 56.9 | 75 23.5 |
| | 18 | C. J. | 75 24.3 | 75 37.9 | 75 29.9 | 74 44.8 | 75 28.8 | 75 29.0 | 75 37.9 | 74 52.5 | 75 20.6 |
| | 19 | T. M. | 75 02.4 | 75 55.5 | 75 48.0 | 74 44.8 | 75 11.6 | 75 43.2 | 76 08.0 | 75 00.4 | 75 26.8 |
| | 19 | T. M. | 75 56.0 | 76 03.2 | 75 45.0 | 74 46.8 | 74 51.2 | 75 41.2 | 76 04.4 | 75 09.6 | 75 24.7 |
| | 19 | J. J. | 75 18.3 | 75 16.8 | 75 27.6 | 74 53.6 | 75 18.0 | 75 28.8 | 75 20.6 | 74 56.8 | 75 15.1 |
| | 19 | J. J. | 75 08.4 | 75 30.0 | 75 19.9 | 75 03.1 | 75 15.5 | 75 27.4 | 75 42.7 | 74 49.5 | 75 17.1 |
| | 20 | J. W. | 75 27.5 | 75 41.1 | 75 33.6 | 75 09.8 | 75 13.6 | 75 19.9 | 75 37.8 | 75 05.9 | 75 23.6 |
| | 20 | J. W. | 75 15.1 | 75 08.8 | 75 28.7 | 75 04.1 | 75 18.1 | 75 30.8 | 75 32.0 | 75 11.2 | 75 18.6 |
| | 20 | C. J. | 75 34.7 | 75 16.0 | 75 10.6 | 75 31.8 | 75 39.4 | 75 15.2 | 75 25.4 | 75 08.5 | 75 22.7 |
| | 20 | C. J. | 75 20.0 | 75 25.9 | 75 08.5 | 75 30.0 | 75 47.6 | 75 16.3 | 75 33.1 | 74 50.5 | 75 21.5 |
| | 21 | C. J. | 75 08.4 | 75 15.0 | 75 21.5 | 75 22.4 | 75 27.2 | 75 13.4 | 75 18.6 | 74 58.0 | 75 15.5 |
| 21 | C. J. | 75 11.8 | 75 22.0 | 75 15.3 | 75 19.5 | 75 31.3 | 75 15.1 | 75 27.5 | 74 54.7 | 75 17.1 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|---------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | | |
| 1849. | | | | | | | | | | | | |
| D. | | | | | | | | | | | | |
| 15 | J. W. | 75 23.6 | 75 28.3 | 75 10.0 | 75 00.6 | 75 14.4 | 75 12.3 | 75 23.7 | 75 32.2 | 75 18.1 | 75 18.4 | |
| 15 | J. W. | 75 16.5 | 75 27.3 | 75 13.2 | 75 03.9 | 75 29.9 | 75 16.7 | 75 14.2 | 75 16.6 | 75 17.2 | | |
| 16 | J. J. | 75 16.4 | 75 17.8 | 75 10.7 | 75 21.8 | 75 32.3 | 75 02.7 | 75 21.1 | 75 12.3 | 75 16.9 | | |
| 16 | J. J. | 75 16.9 | 75 16.6 | 75 11.9 | 75 23.0 | 75 32.7 | 75 10.5 | 75 19.5 | 75 15.9 | 75 17.2 | | |
| 16 | T. M. | 75 10.0 | 75 22.2 | 75 13.0 | 75 23.0 | 75 25.4 | 75 09.4 | 75 22.6 | 75 13.6 | 75 17.4 | | |
| 16 | T. M. | 74 51.6 | 75 27.8 | 75 18.8 | 75 22.0 | 75 43.2 | 75 00.2 | 75 18.0 | 75 09.8 | 75 16.4 | | |
| 17 | J. W. | 75 15.3 | 75 15.0 | 75 29.6 | 75 27.7 | 75 43.8 | 75 08.8 | 75 27.2 | 74 59.8 | 75 20.9 | | |
| 17 | J. W. | 75 09.6 | 75 17.8 | 75 32.2 | 75 22.4 | 75 37.5 | 75 05.8 | 75 30.9 | 75 06.1 | 75 20.3 | | |
| 17 | C. J. | 75 11.7 | 75 22.0 | 75 25.3 | 75 10.7 | 75 36.2 | 75 22.6 | 75 32.0 | 75 05.7 | 75 20.8 | | |
| 17 | C. J. | 75 11.5 | 75 22.8 | 75 24.8 | 75 16.1 | 75 14.0 | 75 31.9 | 75 27.9 | 75 14.4 | 75 20.5 | | |
| 18 | T. M. | 75 05.8 | 75 20.6 | 75 28.0 | 75 11.6 | 75 20.8 | 75 11.0 | 75 22.7 | 75 17.8 | 75 17.2 | | |
| 18 | T. M. | 75 11.2 | 75 27.0 | 75 21.8 | 75 11.8 | 75 31.0 | 75 10.6 | 75 21.6 | 75 10.6 | 75 18.1 | | |
| 17 | J. J. | 75 11.1 | 75 29.2 | 75 08.4 | 75 14.1 | 75 18.7 | 75 14.4 | 75 23.2 | 75 11.1 | 75 16.2 | | 75 18.5 |
| 17 | J. J. | 75 11.6 | 75 23.4 | 75 14.0 | 75 13.7 | 75 16.0 | 75 13.8 | 75 27.2 | 75 13.2 | 75 16.6 | | |
| 18 | J. W. | 75 25.4 | 75 24.4 | 75 26.5 | 75 07.0 | 75 30.6 | 75 18.3 | 75 30.8 | 75 02.5 | 75 20.6 | | |
| 18 | J. W. | 75 06.0 | 75 41.8 | 75 22.9 | 75 14.0 | 75 26.1 | 75 14.4 | 75 34.6 | 75 05.3 | 75 20.6 | | |
| 18 | C. J. | 75 04.5 | 75 35.4 | 75 34.8 | 75 10.4 | 75 25.2 | 75 24.2 | 75 25.4 | 75 13.4 | 75 21.7 | | |
| 18 | C. J. | 75 06.3 | 75 36.0 | 75 35.7 | 75 05.0 | 75 19.1 | 75 28.3 | 75 38.5 | 75 04.3 | 75 21.7 | | |
| 19 | J. J. | 75 09.4 | 75 29.4 | 75 32.2 | 75 02.2 | 75 27.0 | 75 10.2 | 75 48.2 | 74 47.7 | 75 18.3 | | |
| 19 | J. J. | 75 19.4 | 75 28.7 | 75 02.8 | 75 16.9 | 75 19.8 | 75 22.0 | 75 29.0 | 74 52.3 | 75 16.4 | | |
| 19 | J. J. | 75 21.7 | 75 23.2 | 75 25.5 | 74 57.0 | 75 26.9 | 75 27.7 | 75 12.9 | 75 14.5 | 75 18.6 | | |
| 19 | J. J. | 75 14.1 | 75 30.9 | 75 24.2 | 74 51.6 | 75 26.3 | 75 31.8 | 75 16.8 | 75 08.0 | 75 17.9 | | |
| 20 | J. J. | 75 18.0 | 75 34.5 | 75 22.5 | 74 59.0 | 75 27.4 | 75 20.1 | 75 23.4 | 74 49.4 | 75 16.3 | | |
| 20 | J. J. | 75 14.6 | 75 31.9 | 75 25.4 | 74 57.8 | 75 22.0 | 75 10.7 | 75 38.0 | 74 53.1 | 75 16.7 | | |
| 16 | J. J. | 75 10.3 | 75 37.9 | 75 22.2 | 75 04.1 | 75 20.3 | 75 29.7 | 75 16.7 | 75 00.9 | 75 17.7 | 75 18.0 | |
| 16 | J. J. | 75 04.9 | 75 28.9 | 75 26.7 | 74 59.0 | 75 28.1 | 75 23.3 | 75 31.8 | 75 01.0 | 75 17.9 | | |
| 17 | C. J. | 75 05.3 | 75 44.4 | 75 21.6 | 75 00.1 | 75 24.8 | 75 32.0 | 75 26.2 | 74 42.0 | 75 17.1 | | |
| 17 | C. J. | 75 02.1 | 75 42.5 | 75 29.4 | 74 59.8 | 75 25.2 | 75 32.6 | 75 31.0 | 74 43.8 | 75 18.3 | | |
| 17 | J. W. | 74 51.5 | 75 32.1 | 75 41.1 | 74 52.7 | 75 27.7 | 75 21.0 | 75 24.7 | 74 51.6 | 75 15.3 | | |
| 17 | J. W. | 75 18.5 | 75 07.5 | 75 35.8 | 74 48.6 | 75 12.6 | 75 42.4 | 75 25.1 | 74 58.3 | 75 16.1 | | |
| 18 | J. W. | 75 23.2 | 75 00.0 | 74 57.6 | 75 26.9 | 75 22.9 | 75 44.8 | 75 50.9 | 74 55.3 | 75 20.2 | | |
| 18 | J. W. | 75 20.0 | 74 56.4 | 75 14.8 | 75 06.4 | 75 22.2 | 75 42.2 | 75 53.0 | 74 57.7 | 75 19.1 | | |
| 18 | J. J. | 75 15.7 | 75 02.9 | 75 35.9 | 74 55.4 | 75 22.8 | 75 51.9 | 75 18.2 | 74 55.6 | 75 17.3 | | |
| 18 | J. J. | 75 09.8 | 74 59.3 | 75 33.3 | 74 51.3 | 75 19.6 | 75 46.2 | 75 31.1 | 75 17.8 | 75 18.5 | | |
| 19 | T. M. | 75 32.9 | 75 10.0 | 75 03.8 | 75 14.2 | 75 28.7 | 76 00.8 | 75 11.4 | 74 52.6 | 75 18.0 | | |
| 19 | T. M. | 75 30.4 | 75 14.8 | 75 05.4 | 75 13.2 | 75 34.6 | 76 01.8 | 75 14.2 | 74 50.6 | 75 20.6 | | |
| 15 | T. M. | 75 47.1 | 74 53.4 | 75 02.0 | 75 13.2 | 75 34.4 | 75 51.4 | 75 12.2 | 75 00.0 | 75 19.2 | 75 19.3 | |
| 15 | T. M. | 75 35.6 | 75 02.0 | 74 57.2 | 75 13.0 | 75 31.8 | 75 52.8 | 75 14.8 | 74 55.7 | 75 17.8 | | |
| 16 | C. J. | 75 42.2 | 74 48.2 | 75 11.6 | 75 10.0 | 75 37.2 | 75 43.4 | 75 02.0 | 75 09.0 | 75 17.9 | | |
| 16 | C. J. | 75 24.2 | 75 13.2 | 75 06.8 | 75 08.2 | 75 39.8 | 75 44.6 | 75 20.8 | 74 56.0 | 75 19.2 | | |
| 16 | C. J. | 75 09.5 | 75 46.8 | 75 21.8 | 75 09.8 | 75 10.4 | 75 20.9 | 75 23.2 | 75 02.6 | 75 18.2 | | |
| 17 | C. J. | 75 01.0 | 75 50.6 | 75 33.4 | 74 59.3 | 75 19.7 | 75 24.3 | 75 35.7 | 75 00.6 | 75 20.6 | | |
| 17 | C. J. | 75 00.4 | 75 47.2 | 75 33.9 | 75 00.3 | 75 16.7 | 75 29.9 | 75 36.4 | 75 00.5 | 75 20.6 | | |
| 17 | J. W. | 75 24.5 | 74 59.6 | 75 21.9 | 75 01.3 | 75 12.4 | 75 27.9 | 75 38.9 | 75 30.5 | 75 19.6 | | |
| 17 | J. W. | 75 23.0 | 75 15.5 | 75 39.6 | 74 56.7 | 75 11.3 | 75 30.5 | 75 28.2 | 75 22.4 | 75 20.9 | | |
| 18 | J. W. | 75 22.6 | 75 00.8 | 75 43.7 | 74 51.9 | 75 01.5 | 75 32.6 | 75 37.0 | 75 25.0 | 75 19.4 | | |
| 18 | J. W. | 75 31.1 | 75 02.4 | 75 45.4 | 74 51.3 | 75 09.3 | 75 28.3 | 75 30.0 | 75 12.2 | 75 18.7 | | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1849. | | | | | | | | | | | |
| D. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| September. | | | | | | | | | | | |
| 18 | C. J. | 75 25.7 | 75 37.1 | 75 43.2 | 75 05.0 | 75 11.6 | 75 51.2 | 75 20.0 | 75 01.4 | 75 24.5 | 75 21.6 |
| 18 | C. J. | 75 34.1 | 75 3 .5 | 75 45.2 | 75 01.0 | 75 05.2 | 75 43.1 | 75 15.9 | 75 13.1 | 75 24.1 | |
| 19 | C. J. | 75 29.9 | 75 34.2 | 75 42.7 | 75 01.0 | 75 11.6 | 75 43.4 | 75 09.2 | 75 00.9 | 75 21.6 | |
| 19 | C. J. | 75 31.0 | 75 32.9 | 75 40.6 | 75 00.4 | 75 10.7 | 75 43.4 | 75 09.5 | 75 10.9 | 75 22.4 | |
| 19 | J. W. | 75 19.5 | 75 16.2 | 75 30.9 | 74 44.2 | 75 20.8 | 75 46.2 | 75 36.0 | 75 16.1 | 75 21.2 | |
| 19 | J. W. | 75 27.3 | 74 54.2 | 75 38.6 | 74 54.0 | 75 10.7 | 75 44.8 | 75 42.1 | 75 12.7 | 75 20.5 | |
| 20 | J. W. | 75 34.9 | 74 48.8 | 75 43.9 | 74 51.5 | 75 12.7 | 75 41.2 | 75 38.4 | 75 12.9 | 75 20.5 | |
| 20 | J. W. | 75 25.4 | 74 51.8 | 75 44.0 | 74 50.0 | 75 14.8 | 75 41.3 | 75 27.5 | 75 20.2 | 75 19.3 | |
| 20 | T. M. | 75 36.8 | 74 55.8 | 75 40.2 | 74 58.4 | 75 07.7 | 75 41.2 | 75 21.0 | 75 19.6 | 75 20.1 | |
| 20 | T. M. | 75 23.2 | 75 00.0 | 75 44.0 | 75 05.8 | 75 11.6 | 75 36.6 | 75 39.0 | 75 19.2 | 75 22.4 | |
| 21 | T. M. | 75 07.0 | 75 00.0 | 75 52.3 | 75 10.0 | 75 12.0 | 75 30.6 | 75 40.0 | 75 20.7 | 75 21.5 | |
| 21 | T. M. | 75 09.0 | 74 54.0 | 75 50.0 | 75 10.0 | 75 06.8 | 75 47.4 | 75 37.0 | 75 13.0 | 75 20.8 | |
| October. | | | | | | | | | | | |
| 15 | C. J. | 75 25.5 | 74 55.1 | 75 51.6 | 74 56.8 | 75 14.1 | 75 49.4 | 75 25.5 | 74 54.3 | 75 19.0 | 75 20.6 |
| 15 | C. J. | 75 25.3 | 74 55.6 | 75 55.1 | 74 55.5 | 75 11.3 | 75 55.9 | 75 29.6 | 74 52.3 | 75 22.6 | |
| 16 | C. J. | 75 35.1 | 74 50.1 | 75 50.0 | 74 45.2 | 75 20.3 | 75 34.5 | 75 29.5 | 75 14.0 | 75 19.9 | |
| 16 | C. J. | 75 35.2 | 74 44.0 | 75 50.1 | 74 50.9 | 75 19.8 | 75 30.5 | 75 25.6 | 75 14.9 | 75 18.9 | |
| 16 | T. M. | 75 34.2 | 74 42.6 | 75 30.0 | 74 47.2 | 75 11.6 | 75 44.4 | 75 49.8 | 75 18.4 | 75 19.8 | |
| 16 | T. M. | 75 32.6 | 74 41.6 | 75 32.0 | 74 48.0 | 75 10.8 | 75 40.4 | 75 52.6 | 75 30.2 | 75 21.0 | |
| 17 | J. W. | 75 41.8 | 74 48.9 | 75 38.2 | 74 56.1 | 75 08.0 | 75 31.9 | 75 43.3 | 75 28.8 | 75 22.1 | |
| 17 | J. W. | 75 32.7 | 74 40.1 | 75 39.2 | 74 49.8 | 75 10.8 | 75 26.2 | 75 44.7 | 75 29.0 | 75 19.0 | |
| 17 | J. W. | 75 30.9 | 74 59.7 | 75 32.4 | 74 51.4 | 75 29.8 | 75 41.5 | 74 51.3 | 75 56.2 | 73 21.6 | |
| 17 | J. W. | 75 39.6 | 74 55.7 | 75 29.9 | 74 54.5 | 75 28.6 | 75 33.9 | 74 56.1 | 75 56.6 | 75 21.8 | |
| 18 | T. M. | 75 24.0 | 74 57.0 | 75 32.6 | 74 49.6 | 76 01.6 | 75 37.8 | 74 49.4 | 75 35.4 | 75 20.9 | |
| 18 | T. M. | 75 26.7 | 75 03.8 | 75 33.2 | 74 49.4 | 75 34.4 | 75 34.2 | 75 00.0 | 75 38.8 | 75 20.0 | |
| November. | | | | | | | | | | | |
| 15 | J. W. | 75 46.0 | 74 45.9 | 75 29.8 | 74 48.4 | 75 14.4 | 75 39.4 | 74 51.0 | 75 44.0 | 75 17.4 | 75 20.1 |
| 15 | J. W. | 75 39.5 | 74 49.6 | 75 40.1 | 74 43.6 | 75 16.5 | 75 55.4 | 75 46.0 | 75 22.5 | 75 24.1 | |
| 16 | J. W. | 75 44.0 | 74 56.2 | 75 40.6 | 74 46.5 | 74 50.2 | 75 58.8 | 74 50.8 | 76 00.4 | 75 20.9 | |
| 16 | J. W. | 75 38.5 | 74 55.7 | 75 38.4 | 74 46.7 | 74 51.4 | 75 58.5 | 74 57.5 | 76 01.8 | 75 21.0 | |
| 16 | C. J. | 75 34.6 | 74 37.1 | 75 45.0 | 74 55.7 | 75 38.6 | 75 22.5 | 74 56.3 | 75 57.5 | 75 20.9 | |
| 16 | C. J. | 75 39.3 | 74 35.2 | 75 44.6 | 74 53.8 | 75 26.5 | 75 44.8 | 74 58.6 | 75 45.3 | 75 21.0 | |
| 17 | T. M. | 75 38.0 | 74 45.3 | 75 39.6 | 74 43.6 | 75 13.0 | 75 44.8 | 74 51.0 | 75 47.0 | 75 17.7 | |
| 17 | T. M. | 75 32.2 | 74 44.2 | 75 45.8 | 74 49.8 | 75 14.6 | 75 33.8 | 74 56.5 | 75 42.7 | 75 17.4 | |
| 18 | T. M. | 75 44.6 | 74 38.4 | 75 48.6 | 74 41.2 | 75 18.4 | 75 48.4 | 75 58.4 | 75 44.8 | 75 20.3 | |
| 18 | T. M. | 75 40.7 | 74 48.8 | 75 51.7 | 74 47.7 | 75 22.3 | 75 45.5 | 75 02.5 | 75 40.3 | 75 22.7 | |
| 19 | J. W. | 75 42.8 | 74 51.6 | 75 35.8 | 74 40.0 | 75 25.8 | 75 34.0 | 74 51.2 | 75 40.6 | 75 17.7 | |
| 19 | J. W. | 75 37.0 | 74 47.4 | 75 52.5 | 74 41.0 | 75 31.0 | 75 31.2 | 74 50.0 | 75 42.4 | 75 19.0 | |
| December. | | | | | | | | | | | |
| 17 | T. M. | 75 44.2 | 74 45.9 | 75 43.4 | 74 44.4 | 75 22.9 | 75 22.3 | 74 41.4 | 75 55.6 | 75 20.0 | 75 18.1 |
| 17 | T. M. | 75 48.0 | 74 41.7 | 75 41.4 | 74 52.6 | 75 31.2 | 75 38.8 | 74 41.2 | 75 48.8 | 75 20.4 | |
| 18 | J. W. | 75 58.1 | 74 11.0 | 75 47.1 | 74 34.9 | 75 06.6 | 76 05.1 | 74 38.4 | 76 02.0 | 75 17.9 | |
| 18 | J. W. | 76 02.6 | 74 16.9 | 75 54.0 | 74 49.4 | 75 07.2 | 75 51.5 | 74 29.1 | 76 00.0 | 75 18.8 | |
| 18 | C. J. | 75 33.0 | 74 32.0 | 75 37.0 | 75 00.6 | 75 05.6 | 76 01.8 | 74 21.2 | 76 00.4 | 74 16.5 | |
| 18 | C. J. | 75 32.4 | 74 30.9 | 75 39.4 | 75 00.5 | 75 19.1 | 76 00.4 | 74 21.7 | 75 49.8 | 75 16.7 | |
| 19 | T. M. | 75 50.0 | 74 35.2 | 75 36.6 | 74 40.8 | 75 25.0 | 75 43.8 | 74 46.4 | 75 59.4 | 75 17.6 | |
| 19 | T. M. | 75 45.8 | 74 42.6 | 75 35.0 | 74 39.7 | 75 28.2 | 75 44.0 | 74 46.2 | 75 38.8 | 75 17.5 | |
| 19 | J. W. | 75 37.1 | 74 49.8 | 75 38.8 | 74 48.4 | 75 11.2 | 75 49.6 | 74 30.6 | 75 53.6 | 75 17.3 | |
| 19 | J. W. | 75 43.3 | 74 52.3 | 75 32.2 | 74 54.7 | 75 06.2 | 75 53.5 | 74 33.3 | 75 56.7 | 75 19.0 | |
| 20 | C. J. | 75 49.0 | 74 40.8 | 75 36.5 | 74 44.4 | 75 12.1 | 75 45.3 | 74 35.7 | 75 55.8 | 75 17.5 | |
| 20 | C. J. | 75 46.3 | 74 43.7 | 75 33.2 | 74 47.7 | 75 14.0 | 75 46.0 | 74 39.2 | 75 52.1 | 75 17.8 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | |
| 1850. | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| January. | | | | | | | | | | | |
| 15 23 | C. J. | 75 47.6 | 74 48.2 | 75 57.4 | 74 35.0 | 74 59.6 | 75 44.8 | 75 52.0 | 75 47.5 | 75 19.0 | |
| 16 0 | C. J. | 75 39.1 | 74 58.6 | 75 59.9 | 74 33.2 | 74 57.5 | 75 45.1 | 75 46.5 | 75 40.2 | 75 17.5 | |
| 16 2 | J. W. | 75 39.5 | 74 53.5 | 75 37.2 | 74 47.4 | 75 18.7 | 75 48.0 | 75 11.7 | 75 35.6 | 75 21.4 | |
| 16 3 | J. W. | 75 41.4 | 74 50.6 | 75 34.6 | 74 45.5 | 75 16.0 | 75 43.2 | 75 07.8 | 75 39.0 | 75 19.7 | |
| 16 23 | C. J. | 75 54.4 | 74 41.0 | 75 57.4 | 74 26.0 | 74 59.0 | 75 52.2 | 75 18.1 | 75 42.3 | 75 21.3 | |
| 17 0 | C. J. | 75 52.5 | 74 43.1 | 75 55.6 | 74 32.8 | 74 58.5 | 75 54.4 | 75 21.0 | 75 38.0 | 75 22.0 | |
| 17 2 | C. J. | 75 51.6 | 74 36.3 | 75 45.0 | 74 50.0 | 74 56.1 | 75 49.4 | 75 24.5 | 75 40.4 | 75 21.7 | 75 19.9 |
| 17 3 | C. J. | 75 49.8 | 74 39.2 | 75 42.9 | 74 53.0 | 75 00.6 | 75 45.1 | 75 31.6 | 75 32.6 | 75 21.8 | |
| 17 23 | C. J. | 75 34.0 | 74 38.5 | 75 47.2 | 74 51.1 | 74 56.8 | 75 47.5 | 75 59.1 | 75 57.0 | 75 18.9 | |
| 18 0 | C. J. | 75 40.5 | 74 29.0 | 75 53.3 | 74 47.0 | 75 02.1 | 75 42.7 | 75 03.3 | 75 46.3 | 75 18.1 | |
| 18 2 | J. W. | 75 37.4 | 74 35.7 | 75 49.8 | 74 41.4 | 75 28.1 | 75 34.3 | 75 09.8 | 75 37.6 | 75 19.3 | |
| 18 3 | J. W. | 75 37.3 | 74 32.7 | 75 51.7 | 74 42.4 | 75 31.6 | 75 35.7 | 75 01.4 | 75 36.4 | 75 18.6 | |
| February. | | | | | | | | | | | |
| 15 23 | J. W. | 75 24.4 | 74 44.8 | 75 49.2 | 74 38.7 | 75 25.3 | 75 43.6 | 74 44.9 | 75 59.2 | 75 18.7 | |
| 16 0 | J. W. | 75 28.0 | 74 44.2 | 75 54.9 | 74 37.2 | 75 37.3 | 75 47.4 | 74 55.6 | 75 56.8 | 75 22.7 | |
| 16 2 | T. M. | 75 20.2 | 74 55.2 | 75 43.4 | 74 44.0 | 75 25.1 | 75 42.2 | 74 51.0 | 75 49.8 | 75 18.8 | |
| 16 3 | T. M. | 75 17.7 | 75 00.0 | 75 42.0 | 74 43.4 | 75 22.6 | 75 38.4 | 74 52.4 | 75 54.0 | 75 18.8 | |
| 17 23 | T. M. | 75 39.8 | 74 56.7 | 75 42.2 | 74 28.4 | 75 32.2 | 75 49.6 | 74 42.8 | 75 45.4 | 75 19.6 | |
| 18 0 | T. M. | 75 37.0 | 74 42.6 | 75 39.7 | 74 54.0 | 75 27.0 | 75 49.8 | 74 45.5 | 75 46.6 | 75 20.2 | 75 18.7 |
| 18 2 | C. J. | 75 18.6 | 74 46.6 | 75 50.4 | 74 47.0 | 75 15.6 | 75 47.5 | 74 52.3 | 75 41.2 | 75 17.5 | |
| 18 3 | C. J. | 75 22.0 | 74 41.7 | 75 37.2 | 24 56.1 | 75 18.9 | 75 44.2 | 74 49.0 | 75 51.7 | 75 17.6 | |
| 18 23 | T. M. | 75 46.4 | 74 39.9 | 75 42.5 | 74 49.0 | 75 11.6 | 75 49.0 | 74 48.4 | 75 17.8 | 75 15.6 | |
| 19 0 | T. M. | 75 42.9 | 74 44.1 | 75 36.6 | 74 51.5 | 75 16.2 | 75 44.0 | 74 54.1 | 75 15.4 | 75 15.6 | |
| 19 2 | T. M. | 75 27.0 | 74 42.1 | 75 49.7 | 74 56.6 | 75 18.5 | 75 48.5 | 74 51.6 | 75 44.5 | 75 19.9 | |
| 19 3 | Liley. | 75 35.2 | 74 55.5 | 75 53.8 | 74 37.5 | 75 19.9 | 75 46.6 | 74 38.8 | 75 50.2 | 75 19.7 | |
| March. | | | | | | | | | | | |
| 17 23 | Liley. | 75 27.1 | 75 56.1 | 75 32.2 | 74 53.6 | 75 09.3 | 75 28.3 | 74 46.4 | 75 54.5 | 75 15.9 | |
| 18 0 | Liley. | 75 35.3 | 74 46.7 | 75 45.0 | 74 35.7 | 75 34.6 | 75 38.3 | 74 45.5 | 75 37.7 | 75 17.2 | |
| 18 2 | J. W. | 75 32.1 | 74 50.1 | 75 35.1 | 74 39.6 | 75 22.2 | 75 50.9 | 74 56.9 | 75 49.8 | 75 19.5 | |
| 18 3 | J. W. | 75 31.1 | 74 50.7 | 75 34.5 | 74 39.6 | 75 18.8 | 75 46.4 | 74 56.4 | 75 46.2 | 75 17.9 | |
| 18 23 | J. W. | 75 41.9 | 74 51.5 | 75 41.6 | 75 01.0 | 75 04.7 | 75 20.1 | 74 38.6 | 76 00.2 | 75 17.4 | |
| 19 0 | J. W. | 75 33.4 | 74 47.3 | 75 27.2 | 74 54.6 | 75 26.7 | 75 23.9 | 74 42.7 | 76 04.0 | 75 17.4 | 75 18.0 |
| 19 2 | T. M. | 75 43.1 | 74 41.7 | 75 17.8 | 75 02.3 | 75 32.0 | 75 20.0 | 74 41.7 | 76 03.4 | 75 18.7 | |
| 19 3 | T. M. | 75 39.2 | 74 42.6 | 75 13.8 | 75 12.4 | 75 19.8 | 75 26.5 | 74 47.0 | 76 12.8 | 75 19.2 | |
| 19 23 | T. M. | 75 37.4 | 74 52.2 | 75 38.1 | 74 47.2 | 75 12.0 | 75 29.6 | 75 00.6 | 75 51.0 | 75 18.5 | |
| 20 0 | C. J. | 75 29.6 | 74 55.2 | 75 31.0 | 74 47.4 | 75 20.3 | 75 44.2 | 75 11.1 | 75 20.8 | 75 17.5 | |
| 20 2 | T. M. | 75 34.4 | 74 54.8 | 75 32.6 | 74 53.8 | 75 16.0 | 75 32.6 | 75 02.2 | 75 37.6 | 75 18.0 | |
| 20 3 | T. M. | 75 29.2 | 75 00.0 | 75 31.2 | 74 49.2 | 75 18.9 | 75 40.6 | 74 51.8 | 75 46.8 | 75 18.4 | |
| April. | | | | | | | | | | | |
| 16 23 | J. W. | 75 34.2 | 74 40.0 | 75 29.4 | 74 58.7 | 75 30.8 | 75 46.1 | 74 40.4 | 76 01.3 | 75 20.1 | |
| 17 0 | J. W. | 75 38.5 | 74 40.8 | 75 30.0 | 74 57.8 | 75 31.4 | 75 47.2 | 74 40.0 | 75 59.9 | 75 20.7 | |
| 17 2 | T. M. | 75 32.2 | 74 38.2 | 75 09.2 | 75 19.4 | 75 34.6 | 75 44.0 | 74 44.7 | 75 56.2 | 75 19.8 | |
| 17 3 | T. M. | 75 30.0 | 74 42.2 | 75 03.6 | 75 18.0 | 75 28.8 | 75 44.5 | 74 35.8 | 76 01.6 | 75 19.4 | |
| 17 23 | T. M. | 75 40.9 | 74 48.4 | 75 33.4 | 75 25.0 | 75 13.2 | 75 37.0 | 75 01.8 | 75 30.2 | 75 21.2 | |
| 18 0 | T. M. | 75 23.4 | 74 54.2 | 75 26.2 | 75 28.6 | 75 11.4 | 75 41.4 | 75 04.0 | 75 28.2 | 75 19.6 | |
| 18 2 | C. J. | 75 41.7 | 74 53.1 | 75 50.2 | 74 41.4 | 75 15.2 | 75 35.1 | 75 02.5 | 75 40.1 | 75 19.9 | 75 19.7 |
| 18 3 | C. J. | 75 37.9 | 74 52.6 | 75 54.9 | 74 39.9 | 75 14.4 | 75 39.9 | 74 53.9 | 75 46.0 | 75 19.9 | |
| 18 23 | C. J. | 75 35.9 | 74 52.5 | 75 57.0 | 74 35.5 | 75 19.0 | 75 47.1 | 74 52.2 | 75 52.8 | 75 21.5 | |
| 19 0 | C. J. | 75 37.2 | 74 55.8 | 75 46.4 | 74 50.1 | 75 03.3 | 75 46.1 | 74 52.5 | 76 02.8 | 75 21.8 | |
| 19 2 | C. J. | 75 47.8 | 74 40.3 | 75 51.6 | 74 37.2 | 75 34.1 | 75 38.4 | 74 18.0 | 75 47.6 | 75 16.9 | |
| 19 3 | C. J. | 75 41.5 | 74 54.4 | 75 52.9 | 74 31.1 | 75 07.1 | 75 36.5 | 74 43.4 | 75 36.7 | 75 15.5 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1850. | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| May. | | | | | | | | | | | |
| 18 23 | J. W. | 75 41.3 | 74 42.8 | 75 39.4 | 74 42.8 | 75 19.0 | 75 42.0 | 74 40.0 | 76 06.7 | 75 19.2 | 75 19.5 |
| 19 0 | J. W. | 75 43.1 | 74 38.2 | 75 41.6 | 74 46.4 | 75 15.8 | 75 46.5 | 74 37.5 | 76 08.5 | 75 19.7 | |
| 19 2 | Liley. | 75 42.5 | 74 41.6 | 75 55.0 | 74 34.8 | 75 36.2 | 75 46.7 | 74 42.0 | 75 42.6 | 75 20.1 | |
| 19 3 | Liley. | 75 52.3 | 74 53.1 | 76 03.1 | 74 43.8 | 75 16.4 | 75 31.5 | 74 49.5 | 75 48.6 | 75 23.1 | |
| 19 23 | Liley. | 75 48.8 | 74 49.8 | 75 55.1 | 74 30.3 | 75 18.9 | 75 43.5 | 74 31.4 | 75 47.7 | 75 18.1 | |
| 20 0 | Liley. | 75 33.2 | 74 33.7 | 75 54.7 | 74 41.3 | 75 29.4 | 75 44.7 | 74 37.3 | 75 47.5 | 75 17.7 | |
| 20 2 | T. M. | 75 39.2 | 74 49.2 | 75 30.6 | 74 43.0 | 75 23.8 | 75 46.6 | 75 00.0 | 75 53.6 | 75 29.7 | |
| 20 3 | T. M. | 75 39.0 | 74 42.4 | 75 29.4 | 74 48.7 | 75 32.6 | 75 36.8 | 75 00.0 | 75 50.8 | 75 19.9 | |
| 20 23 | C. J. | 75 45.6 | 74 52.4 | 75 47.5 | 74 33.5 | 75 17.9 | 75 43.2 | 74 42.5 | 75 47.5 | 75 18.8 | |
| 21 0 | C. J. | 75 33.5 | 74 52.6 | 75 49.0 | 74 45.1 | 75 12.4 | 75 43.3 | 74 57.5 | 75 45.0 | 75 19.9 | |
| 21 2 | Liley. | 75 34.8 | 74 54.3 | 75 42.5 | 74 32.6 | 75 14.3 | 75 47.7 | 74 46.3 | 75 48.7 | 75 17.6 | |
| 21 3 | Liley. | 75 50.0 | 74 47.4 | 75 43.8 | 74 56.0 | 75 18.5 | 75 40.1 | 74 50.5 | 75 25.7 | 75 19.4 | |
| June. | | | | | | | | | | | |
| 16 23 | J. W. | 75 48.3 | 74 45.0 | 75 40.7 | 74 50.2 | 75 24.2 | 75 29.4 | 74 42.3 | 75 51.8 | 75 18.9 | 75 19.1 |
| 17 0 | J. W. | 75 41.1 | 74 41.8 | 75 52.0 | 74 56.8 | 75 30.5 | 75 25.9 | 74 38.1 | 76 09.0 | 75 20.7 | |
| 17 2 | T. M. | 75 33.3 | 74 52.6 | 75 40.5 | 74 53.2 | 75 19.2 | 75 31.2 | 74 45.5 | 75 55.4 | 75 18.8 | |
| 17 3 | T. M. | 75 22.5 | 74 56.0 | 75 45.0 | 74 55.6 | 75 17.2 | 75 25.4 | 74 55.4 | 75 52.0 | 75 18.7 | |
| 17 23 | T. M. | 75 51.8 | 74 50.2 | 75 37.2 | 74 49.0 | 75 06.6 | 75 26.6 | 74 51.0 | 75 51.2 | 75 17.9 | |
| 18 0 | T. M. | 75 50.0 | 74 47.4 | 75 40.5 | 74 48.2 | 75 09.8 | 75 23.4 | 74 50.0 | 75 56.0 | 75 18.1 | |
| 18 2 | J. W. | 75 45.9 | 74 46.5 | 75 47.5 | 74 48.0 | 75 25.9 | 75 31.6 | 74 51.2 | 75 56.9 | 75 21.7 | |
| 18 3 | J. W. | 75 49.6 | 74 42.9 | 75 51.2 | 74 46.2 | 75 19.2 | 75 24.4 | 74 47.8 | 75 59.0 | 75 20.0 | |
| 18 23 | Liley. | 75 42.7 | 74 35.0 | 75 39.2 | 74 42.1 | 75 28.3 | 75 40.4 | 74 40.3 | 75 56.8 | 75 18.1 | |
| 19 0 | Liley. | 75 42.8 | 74 35.0 | 75 44.5 | 74 49.0 | 75 22.8 | 75 41.8 | 74 39.1 | 75 50.6 | 75 18.1 | |
| 19 2 | Liley. | 75 46.2 | 75 03.3 | 75 48.8 | 74 41.7 | 75 13.2 | 75 49.8 | 74 54.8 | 75 33.5 | 75 21.8 | |
| 19 3 | Liley. | 75 38.7 | 74 47.0 | 75 45.0 | 74 45.9 | 75 12.9 | 75 41.5 | 74 31.8 | 75 48.0 | 75 16.3 | |
| July. | | | | | | | | | | | |
| 15 23 | T. M. | 75 36.0 | 74 51.2 | 75 42.9 | 74 43.0 | 75 30.2 | 75 38.0 | 74 50.0 | 75 56.2 | 75 20.9 | 75 19.9 |
| 16 0 | T. M. | 75 28.0 | 75 01.0 | 75 43.0 | 74 44.0 | 75 26.0 | 75 34.2 | 74 52.6 | 75 53.0 | 75 20.2 | |
| 16 2 | Liley. | 75 33.1 | 74 55.0 | 75 37.5 | 74 38.0 | 75 31.8 | 75 38.4 | 74 52.0 | 75 55.8 | 75 19.7 | |
| 16 3 | Liley. | 75 34.0 | 74 51.4 | 75 39.0 | 74 39.6 | 75 34.6 | 75 30.6 | 74 49.6 | 75 56.0 | 75 19.3 | |
| 16 23 | Liley. | 75 42.0 | 74 28.6 | 75 41.5 | 74 48.9 | 75 14.9 | 75 46.7 | 74 43.4 | 75 49.6 | 75 19.3 | |
| 17 0 | Liley. | 75 36.7 | 75 03.8 | 75 37.0 | 74 43.6 | 75 14.4 | 75 46.9 | 74 52.8 | 75 41.4 | 75 19.6 | |
| 17 2 | T. M. | 75 41.2 | 74 48.8 | 75 44.0 | 74 45.0 | 75 26.6 | 75 41.0 | 74 45.8 | 75 51.0 | 75 20.4 | |
| 17 3 | T. M. | 75 35.2 | 74 45.0 | 75 51.6 | 74 45.4 | 75 29.8 | 75 28.2 | 74 51.0 | 75 57.0 | 75 17.9 | |
| 17 23 | Liley. | 75 49.5 | 74 36.1 | 75 38.0 | 74 50.1 | 75 17.9 | 75 57.5 | 74 36.5 | 75 44.3 | 75 18.8 | |
| 18 0 | Liley. | 75 53.3 | 74 49.9 | 75 54.5 | 74 45.1 | 75 10.0 | 75 47.8 | 74 51.5 | 75 38.6 | 75 21.4 | |
| 18 2 | J. W. | 75 22.1 | 74 50.8 | 75 41.0 | 74 57.3 | 75 15.9 | 75 44.1 | 74 55.6 | 75 53.9 | 75 20.1 | |
| 18 3 | J. W. | 75 28.5 | 74 48.5 | 75 48.6 | 74 58.9 | 75 18.3 | 75 39.6 | 74 52.6 | 75 51.4 | 75 20.8 | |
| August. | | | | | | | | | | | |
| 16 0 | J. W. | 75 48.8 | 74 55.3 | 75 31.1 | 74 53.2 | 75 08.4 | 75 34.8 | 74 41.1 | 75 53.3 | 75 18.2 | 75 18.4 |
| 16 2 | J. W. | 75 45.6 | 75 07.1 | 75 06.5 | 74 49.8 | 75 10.6 | 75 48.2 | 74 37.6 | 75 57.4 | 75 17.8 | |
| 16 3 | J. W. | 75 50.8 | 75 03.9 | 75 20.4 | 74 42.5 | 75 09.6 | 75 44.2 | 74 36.1 | 75 51.8 | 75 17.4 | |
| 16 23 | T. M. | 75 45.7 | 75 15.4 | 75 07.8 | 74 50.8 | 75 17.8 | 75 26.6 | 74 40.0 | 75 45.4 | 75 15.9 | |
| 17 0 | T. M. | 75 39.8 | 75 11.0 | 75 11.8 | 74 47.2 | 75 24.2 | 75 22.0 | 74 39.0 | 75 39.0 | 75 14.2 | |
| 17 2 | C. J. | 75 37.3 | 74 55.0 | 75 44.0 | 74 40.0 | 75 08.0 | 76 09.3 | 74 57.5 | 74 48.5 | 75 15.0 | |
| 17 3 | C. J. | 75 22.5 | 74 47.5 | 75 57.5 | 74 56.5 | 74 57.5 | 75 57.3 | 75 18.0 | 75 55.0 | 75 16.4 | |
| 17 23 | Liley. | 75 45.1 | 74 55.0 | 75 34.1 | 74 47.2 | 75 53.8 | 75 43.4 | 74 49.2 | 76 01.3 | 75 24.8 | |
| 18 0 | Liley. | 75 38.2 | 74 43.9 | 75 49.6 | 74 56.2 | 75 06.1 | 75 48.9 | 75 53.1 | 74 51.0 | 75 20.7 | |
| 18 2 | J. W. | 75 44.3 | 74 37.0 | 75 41.0 | 75 11.8 | 75 11.9 | 75 44.2 | 75 21.5 | 75 28.6 | 75 22.5 | |
| 18 3 | J. W. | 75 39.4 | 74 35.5 | 75 42.4 | 75 06.4 | 75 08.2 | 75 40.0 | 75 15.0 | 75 30.0 | 75 19.1 | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. | |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|-----------|
| | | Face of Needle. | | | | Face of Needle. | | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | | |
| 1850. | | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | |
| September. | 15 23 | Liley. | 75 46·7 | 74 49·9 | 75 42·2 | 74 57·4 | 75 06·4 | 75 53·9 | 75 13·7 | 75 26·1 | 75 22·0 | } 75 21·0 |
| | 16 0 | Liley. | 75 35·7 | 74 42·0 | 75 49·0 | 75 16·8 | 75 14·0 | 76 03·1 | 74 47·9 | 75 45·7 | 75 24·3 | |
| | 16 2 | J. W. | 75 50·8 | 74 38·3 | 75 39·0 | 74 35·0 | 75 13·2 | 75 57·8 | 75 37·4 | 75 08·8 | 75 20·0 | |
| | 16 3 | J. W. | 75 45·6 | 74 35·1 | 75 36·1 | 74 30·7 | 75 10·6 | 75 59·2 | 75 34·4 | 75 13·9 | 75 18·2 | |
| | 16 23 | T. M. | 75 35·2 | 74 47·6 | 75 36·8 | 74 41·0 | 75 11·0 | 75 50·8 | 75 48·8 | 75 07·2 | 75 19·8 | |
| | 17 0 | T. M. | 75 32·8 | 74 46·8 | 75 45·0 | 74 31·4 | 75 12·6 | 75 43·2 | 75 48·2 | 75 08·5 | 75 18·6 | |
| | 17 2 | J. W. | 75 47·9 | 74 37·9 | 75 41·5 | 74 43·2 | 74 59·2 | 75 42·6 | 75 21·2 | 75 48·4 | 75 20·2 | |
| | 17 3 | J. W. | 75 40·2 | 74 33·6 | 75 30·6 | 75 01·0 | 75 09·1 | 75 49·8 | 75 30·2 | 75 40·8 | 75 21·9 | |
| | 17 23 | T. M. | 75 35·2 | 74 44·6 | 75 41·2 | 74 50·0 | 75 14·0 | 75 46·4 | 75 43·4 | 75 18·8 | 75 21·6 | |
| | 18 0 | T. M. | 75 40·7 | 74 43·5 | 75 40·0 | 75 00·0 | 75 11·0 | 75 40·4 | 75 42·0 | 75 10·0 | 75 20·9 | |
| 18 2 | C. J. | 75 41·2 | 74 42·6 | 75 42·8 | 74 44·2 | 75 15·9 | 75 52·5 | 75 24·3 | 75 40·6 | 75 23·0 | | |
| 18 3 | C. J. | 75 42·7 | 74 42·9 | 75 41·6 | 74 42·4 | 75 09·8 | 75 52·5 | 75 29·0 | 75 32·6 | 75 21·7 | | |
| October. | 14 23 | T. M. | 75 41·0 | 74 39·8 | 75 38·4 | 74 56·0 | 74 42·6 | 75 54·3 | 75 00·0 | 76 09·5 | 75 20·2 | } 75 21·8 |
| | 15 0 | T. M. | 75 34·4 | 74 48·7 | 75 49·4 | 74 59·4 | 74 39·4 | 75 59·0 | 75 02·2 | 75 58·8 | 75 21·4 | |
| | 15 2 | J. W. | 75 25·0 | 75 16·4 | 75 19·6 | 74 48·4 | 74 45·7 | 75 49·8 | 75 03·8 | 76 12·6 | 75 20·1 | |
| | 15 3 | J. W. | 75 33·4 | 75 17·4 | 75 17·4 | 74 39·5 | 74 44·6 | 75 50·2 | 75 10·6 | 76 13·6 | 75 18·3 | |
| | 15 23 | C. J. | 75 25·5 | 75 22·5 | 75 52·7 | 74 35·2 | 74 42·5 | 75 55·8 | 74 58·1 | 75 57·7 | 75 21·2 | |
| | 16 0 | C. J. | 75 22·5 | 75 22·5 | 75 52·8 | 74 38·0 | 74 42·6 | 75 58·2 | 74 55·2 | 75 57·0 | 75 21·1 | |
| | 16 2 | T. M. | 75 09·2 | 75 29·8 | 75 42·2 | 74 45·0 | 74 41·6 | 75 47·2 | 75 05·2 | 76 10·4 | 75 21·3 | |
| | 16 3 | T. M. | 75 13·8 | 75 27·4 | 75 45·8 | 74 47·2 | 74 38·2 | 75 48·4 | 75 08·4 | 76 00·0 | 75 21·1 | |
| | 16 22 | C. J. | 75 37·5 | 74 47·3 | 75 51·0 | 74 41·1 | 74 50·6 | 75 50·6 | 75 31·7 | 75 57·5 | 75 23·4 | |
| | 16 23 | C. J. | 75 41·2 | 74 47·2 | 75 46·2 | 74 52·5 | 74 41·0 | 75 51·7 | 75 34·8 | 75 55·0 | 75 23·7 | |
| 17 2 | Liley. | 75 35·1 | 74 55·9 | 75 51·6 | 74 40·4 | 75 10·5 | 75 52·9 | 75 22·5 | 75 52·7 | 75 25·1 | | |
| 17 3 | Liley. | 75 50·6 | 74 32·9 | 75 45·9 | 74 45·8 | 74 52·2 | 75 49·0 | 75 45·7 | 75 57·3 | 75 24·5 | | |
| November. | 16 23 | C. J. | 75 39·5 | 75 07·7 | 75 45·7 | 74 40·0 | 74 44·9 | 75 52·5 | 74 47·5 | 75 47·5 | 75 18·0 | } 75 21·3 |
| | 17 0 | C. J. | 75 36·4 | 75 12·0 | 75 40·2 | 74 43·2 | 74 39·8 | 75 53·0 | 75 02·0 | 75 49·2 | 75 19·6 | |
| | 18 23 | Liley. | 75 44·8 | 74 41·9 | 75 52·4 | 74 54·6 | 75 04·0 | 75 50·1 | 74 39·0 | 75 50·3 | 75 19·6 | |
| | 19 0 | Liley. | 75 11·0 | 75 04·8 | 75 49·7 | 75 18·7 | 75 09·6 | 75 52·6 | 75 06·3 | 75 27·7 | 75 22·5 | |
| | 19 2 | C. J. | 75 33·5 | 74 44·0 | 75 53·5 | 75 00·0 | 75 03·9 | 76 00·2 | 74 51·5 | 75 44·0 | 75 21·3 | |
| | 19 3 | C. J. | 75 35·0 | 74 43·0 | 75 43·0 | 75 10·5 | 74 54·6 | 75 57·8 | 74 51·5 | 75 51·2 | 75 20·8 | |
| | 19 23 | T. M. | 75 34·2 | 74 49·8 | 75 45·0 | 74 56·8 | 75 04·4 | 75 57·0 | 75 00·0 | 75 37·6 | 75 21·8 | |
| | 20 0 | T. M. | 75 34·3 | 74 45·0 | 75 41·8 | 75 05·6 | 74 55·4 | 75 53·8 | 75 02·4 | 75 39·0 | 75 17·4 | |
| | 20 2 | Liley. | 75 38·1 | 74 48·2 | 75 43·4 | 75 03·5 | 75 08·4 | 75 56·1 | 74 53·8 | 75 49·2 | 75 21·9 | |
| | 20 3 | Liley. | 75 38·2 | 74 50·3 | 75 51·8 | 75 31·6 | 74 57·9 | 76 02·2 | 75 12·7 | 74 55·3 | 75 22·6 | |
| 20 23 | Liley. | 75 41·7 | 74 50·2 | 75 29·6 | 75 07·5 | 75 22·0 | 75 50·4 | 75 03·3 | 75 43·9 | 75 23·5 | | |
| 21 0 | Liley. | 75 41·6 | 74 57·9 | 75 50·4 | 75 11·4 | 75 18·5 | 75 45·8 | 74 47·8 | 75 46·9 | 75 25·0 | | |
| 21 2 | T. M. | 75 43·0 | 75 00·0 | 75 32·2 | 74 56·6 | 75 20·2 | 75 42·2 | 75 05·0 | 75 47·4 | 75 23·3 | | |
| 21 3 | T. M. | 75 38·2 | 75 01·8 | 75 26·4 | 74 53·1 | 75 20·2 | 75 47·0 | 75 01·0 | 75 43·0 | 75 21·3 | | |
| December. | 15 23 | C. J. | 75 28·6 | 75 07·3 | 75 53·5 | 74 53·5 | 75 15·5 | 75 49·2 | 75 01·1 | 75 50·0 | 75 24·8 | } 75 22·5 |
| | 16 0 | C. J. | 75 37·7 | 74 47·5 | 75 45·0 | 75 03·5 | 75 15·0 | 75 54·8 | 75 07·6 | 75 52·5 | 75 18·0 | |
| | 16 2 | C. J. | 75 37·0 | 75 01·5 | 75 30·0 | 74 55·1 | 75 11·0 | 76 00·0 | 75 12·5 | 75 52·5 | 75 24·9 | |
| | 16 3 | C. J. | 75 32·7 | 75 10·8 | 75 32·5 | 74 52·5 | 75 13·1 | 76 00·0 | 75 16·2 | 75 51·9 | 75 26·2 | |
| | 16 23 | Liley. | 75 48·1 | 74 50·7 | 75 40·9 | 74 54·5 | 75 10·5 | 75 57·8 | 75 17·1 | 75 36·9 | 75 24·5 | |
| | 17 0 | Liley. | 75 37·6 | 74 49·7 | 75 57·4 | 74 50·0 | 75 50·7 | 75 57·2 | 75 15·1 | 75 48·3 | 75 23·3 | |
| | 17 2 | J. W. | 75 39·6 | 75 16·9 | 75 55·4 | 74 53·0 | 75 47·8 | 75 56·7 | 75 11·2 | 75 19·8 | 75 22·5 | |
| | 17 3 | J. W. | 75 35·6 | 74 52·9 | 75 53·2 | 74 56·3 | 75 50·0 | 76 00·2 | 75 12·0 | 75 32·4 | 75 21·5 | |
| | 17 23 | Liley. | 75 51·7 | 74 35·5 | 75 50·0 | 74 46·8 | 75 17·3 | 75 46·5 | 74 50·2 | 75 49·0 | 75 20·8 | |
| | 18 0 | Liley. | 75 44·8 | 74 31·7 | 75 42·3 | 75 08·2 | 75 16·8 | 75 51·9 | 74 32·1 | 75 54·1 | 75 20·2 | |
| 18 2 | J. W. | 75 52·1 | 74 38·8 | 75 43·3 | 75 56·0 | 75 06·2 | 75 39·0 | 74 56·2 | 75 59·0 | 75 21·3 | | |
| 18 3 | J. W. | 75 55·1 | 74 49·2 | 75 39·2 | 75 00·8 | 74 59·6 | 75 35·2 | 74 51·3 | 76 02·0 | 75 21·5 | | |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly • Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|---------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | |
| 1851. | | | | | | | | | | | |
| d. m. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| May. | | | | | | | | | | | |
| 14 12 | J. W. | 75 20.8 | 75 32.6 | 75 50.2 | 74 21.6 | 75 02.1 | 75 41.7 | 75 05.2 | 75 49.0 | 75 20.4 | |
| 15 0 | J. W. | 75 23.2 | 75 38.1 | 75 51.5 | 74 24.8 | 75 05.4 | 75 42.0 | 75 11.0 | 75 41.6 | 75 22.2 | |
| 15 2 | J. W. | 75 07.2 | 75 37.4 | 75 45.2 | 74 29.4 | 75 01.8 | 75 47.1 | 75 09.2 | 75 34.9 | 75 19.1 | |
| 15 3 | J. W. | 75 12.3 | 75 27.5 | 75 53.8 | 74 32.4 | 74 57.8 | 75 42.1 | 75 06.4 | 75 46.3 | 75 19.8 | |
| 15 23 | J. W. | 75 13.3 | 75 25.7 | 75 53.1 | 74 18.7 | 75 03.8 | 75 40.2 | 75 32.6 | 75 35.5 | 75 20.3 | |
| 16 0 | J. W. | 75 22.7 | 75 20.2 | 75 53.7 | 74 28.3 | 74 58.8 | 75 48.1 | 75 24.5 | 75 40.6 | 75 22.1 | } 75 20.0 |
| 16 2 | T. M. | 75 09.4 | 75 25.8 | 75 52.6 | 74 21.2 | 74 49.3 | 75 51.1 | 75 14.0 | 75 27.7 | 75 21.4 | |
| 16 3 | T. M. | 75 22.2 | 75 22.8 | 75 39.6 | 74 34.2 | 74 44.8 | 75 50.2 | 75 11.8 | 75 23.0 | 75 16.2 | |
| 16 23 | J. W. | 75 09.9 | 75 26.4 | 75 50.6 | 74 29.1 | 75 18.7 | 75 29.0 | 75 20.1 | 75 36.9 | 75 20.0 | |
| 17 0 | J. W. | 75 16.9 | 75 23.1 | 75 56.6 | 74 25.9 | 75 29.0 | 75 20.1 | 75 39.0 | 75 22.5 | 75 21.6 | |
| 17 2 | J. W. | 75 16.2 | 75 26.2 | 75 54.9 | 74 28.0 | 75 10.0 | 75 31.4 | 75 16.3 | 75 32.1 | 75 19.3 | |
| 17 3 | J. W. | 75 07.9 | 75 34.8 | 75 49.3 | 74 31.1 | 75 03.6 | 75 24.0 | 75 29.2 | 75 24.1 | 75 17.9 | |
| June. | | | | | | | | | | | |
| 16 23 | J. W. | 74 59.8 | 75 39.7 | 75 12.1 | 75 38.0 | 75 04.1 | 75 29.2 | 75 40.3 | 75 09.9 | 75 21.6 | } 75 20.7 |
| 17 0 | W. T. | 75 13.7 | 75 41.1 | 75 32.8 | 74 50.6 | 75 36.1 | 75 18.8 | 75 45.3 | 74 51.0 | 75 20.2 | |
| 17 2 | T. M. | 75 16.6 | 75 24.9 | 75 32.6 | 75 21.2 | 74 56.1 | 75 47.7 | 75 12.8 | 75 33.2 | 75 21.8 | |
| 17 3 | T. M. | 75 06.0 | 75 20.3 | 75 55.7 | 74 21.7 | 75 17.0 | 75 23.7 | 75 53.3 | 75 34.1 | 75 21.4 | |
| 17 23 | T. M. | 75 06.3 | 75 19.7 | 75 58.6 | 74 19.6 | 75 00.4 | 75 48.8 | 75 14.0 | 75 40.4 | 75 18.4 | |
| 18 0 | T. M. | 75 11.0 | 75 13.2 | 75 53.8 | 74 20.4 | 75 00.0 | 75 56.6 | 75 20.0 | 75 36.6 | 75 19.0 | |
| 18 2 | Liley. | 75 50.0 | 75 41.3 | 75 11.8 | 74 32.4 | 75 07.8 | 75 47.0 | 75 34.5 | 74 55.2 | 75 19.3 | |
| 18 3 | Liley. | 75 12.4 | 75 41.4 | 75 37.7 | 74 56.9 | 75 12.9 | 75 34.4 | 75 10.5 | 75 14.9 | 75 19.3 | |
| 18 23 | J. W. | 75 09.0 | 75 31.9 | 75 41.1 | 74 34.4 | 75 02.0 | 75 41.1 | 75 31.6 | 75 42.9 | 75 21.7 | |
| 19 0 | W. T. | 75 13.8 | 75 38.0 | 75 47.8 | 74 37.0 | 75 11.6 | 75 43.4 | 75 04.4 | 75 37.8 | 75 19.2 | |
| 19 2 | T. M. | 75 11.6 | 75 49.5 | 75 21.0 | 75 09.2 | 74 54.6 | 75 52.2 | 75 16.0 | 75 37.2 | 75 23.9 | |
| 19 3 | T. M. | 75 15.4 | 75 39.0 | 75 18.6 | 75 06.5 | 74 56.4 | 74 53.4 | 75 16.2 | 75 32.0 | 75 22.2 | |
| July. | | | | | | | | | | | |
| 15 0 | T. M. | 75 05.0 | 75 31.5 | 75 51.0 | 74 26.7 | 75 02.2 | 75 43.2 | 75 03.0 | 75 29.0 | 75 16.5 | } 75 19.0 |
| 15 2 | J. W. | 75 12.2 | 75 37.5 | 75 04.1 | 75 39.6 | 75 00.6 | 75 35.0 | 75 47.6 | 74 36.7 | 75 19.1 | |
| 15 3 | J. W. | 74 59.6 | 75 36.5 | 75 46.2 | 74 34.1 | 75 13.5 | 75 41.0 | 75 07.2 | 75 40.0 | 75 19.7 | |
| 15 23 | T. M. | 75 04.8 | 75 32.8 | 75 52.5 | 74 31.6 | 75 11.0 | 75 41.0 | 75 13.6 | 75 33.4 | 75 20.0 | |
| 16 0 | T. M. | 75 07.0 | 75 32.2 | 75 49.8 | 74 39.6 | 75 05.5 | 75 45.6 | 75 07.2 | 75 36.8 | 75 20.5 | |
| 16 2 | J. W. | 75 13.7 | 75 26.8 | 75 49.0 | 74 31.1 | 75 14.7 | 75 36.7 | 75 10.2 | 75 33.7 | 75 19.4 | |
| 16 3 | J. W. | 75 21.0 | 75 31.9 | 75 46.7 | 74 36.2 | 75 17.3 | 75 23.0 | 75 06.0 | 75 38.1 | 75 20.0 | |
| 16 23 | J. W. | 75 07.5 | 75 31.6 | 75 45.5 | 74 39.1 | 75 12.0 | 75 36.4 | 75 11.0 | 75 37.2 | 75 20.0 | |
| 17 0 | W. A. S. | 75 02.8 | 75 30.4 | 75 47.8 | 74 28.8 | 75 06.8 | 75 33.9 | 75 12.4 | 75 31.5 | 75 16.8 | |
| 17 2 | W. A. S. | 75 03.4 | 75 37.8 | 76 05.6 | 74 20.5 | 75 05.2 | 75 40.9 | 75 07.5 | 75 36.5 | 75 19.6 | |
| 17 3 | W. A. S. | 74 58.6 | 75 32.5 | 75 41.6 | 74 23.1 | 75 04.8 | 75 44.4 | 75 20.5 | 75 30.2 | 75 17.7 | |
| August. | | | | | | | | | | | |
| 15 0 | W. T. | 75 11.8 | 75 25.0 | 75 30.0 | 74 44.2 | 75 41.2 | 75 57.3 | 75 43.0 | 75 18.8 | 75 26.4 | } 75 19.8 |
| 15 3 | W. T. | 75 00.6 | 75 14.1 | 75 41.6 | 74 49.1 | 75 12.4 | 75 59.3 | 75 36.9 | 75 20.9 | 75 21.8 | |
| 15 4 | W. A. S. | 75 19.9 | 75 08.3 | 74 47.5 | 74 26.5 | 75 03.5 | 75 53.9 | 76 12.9 | 75 38.9 | 75 18.9 | |
| 15 23 | W. T. | 74 55.9 | 75 32.8 | 75 42.0 | 74 34.8 | 75 04.2 | 75 42.6 | 75 13.4 | 75 26.3 | 75 16.5 | |
| 15 23 | W. T. | 74 56.0 | 75 34.4 | 75 43.8 | 74 29.0 | 75 04.8 | 75 44.2 | 75 14.2 | 75 32.7 | 75 17.4 | |
| 16 2 | W. A. S. | 75 08.4 | 75 19.9 | 75 37.6 | 74 27.6 | 75 03.0 | 75 38.1 | 76 02.5 | 75 32.9 | 75 21.2 | |
| 16 3 | W. A. S. | 75 03.7 | 75 31.3 | 75 43.3 | 74 31.8 | 75 03.9 | 75 43.9 | 75 21.4 | 75 45.6 | 75 20.6 | |
| 17 23 | W. T. | 75 04.8 | 75 34.0 | 75 53.1 | 74 27.7 | 75 09.0 | 75 33.5 | 75 14.2 | 75 32.6 | 75 18.7 | |
| 18 0 | W. T. | 75 04.1 | 75 33.8 | 75 44.7 | 74 19.2 | 75 02.1 | 75 40.6 | 75 08.5 | 75 32.2 | 75 15.6 | |
| 18 2 | W. A. S. | 75 10.8 | 75 31.3 | 75 47.0 | 74 28.6 | 75 17.1 | 75 41.9 | 75 21.4 | 75 28.4 | 75 20.8 | |
| 18 3 | W. A. S. | 75 16.7 | 75 36.7 | 75 43.9 | 74 27.5 | 74 58.8 | 75 41.9 | 75 14.8 | 75 41.4 | 75 20.2 | |

Observations of Inclination continued from Vol. 1, p. 332; Needles employed "Robinson, No. 2."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|---------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1851. | | | | | | | | | | | |
| D. H. | | ° | ' | ° | ' | ° | ' | ° | ' | ° | ' |
| September. | 15 23 | W. A. S. | 75 07.5 | 75 36.4 | 75 47.6 | 74 34.1 | 75 03.5 | 75 42.1 | 75 17.6 | 75 36.0 | 75 20.6 |
| | 16 0 | W. A. S. | 75 24.9 | 75 52.3 | 75 22.9 | 74 30.4 | 75 11.9 | 75 48.5 | 75 14.5 | 75 23.7 | 75 21.2 |
| | 16 2 | W. A. S. | 75 27.6 | 75 30.1 | 75 42.7 | 74 32.1 | 75 10.7 | 75 36.0 | 75 26.0 | 75 28.9 | 75 21.7 |
| | 16 3 | W. A. S. | 75 10.4 | 75 40.4 | 75 43.3 | 74 38.7 | 75 08.6 | 75 40.2 | 75 19.7 | 75 25.2 | 75 20.8 |
| | 17 0 | W. T. | 75 07.1 | 75 20.8 | 75 53.8 | 74 28.4 | 75 03.9 | 75 41.2 | 75 15.3 | 75 36.8 | 75 18.4 |
| | 17 2 | W. T. | 75 06.4 | 75 31.3 | 75 56.6 | 74 22.3 | 75 03.2 | 75 41.1 | 75 13.7 | 75 36.0 | 75 18.8 |
| | 17 3 | W. T. | 75 14.0 | 75 27.6 | 75 56.5 | 74 13.3 | 75 06.1 | 75 41.6 | 75 13.3 | 75 26.0 | 75 17.3 |
| | 17 23 | J. W. | 75 04.0 | 75 35.7 | 75 49.2 | 74 27.9 | 75 13.6 | 75 38.8 | 75 09.7 | 75 37.9 | 75 19.6 |
| | 18 0 | J. W. | 75 04.6 | 75 37.4 | 75 55.9 | 74 28.9 | 75 13.7 | 75 40.8 | 75 11.6 | 75 37.4 | 75 21.3 |
| | 18 2 | W. T. | 75 39.9 | 75 18.5 | 75 53.6 | 74 11.0 | 75 07.8 | 75 37.1 | 75 13.0 | 75 38.2 | 75 19.8 |
| | 18 4 | W. T. | 75 06.8 | 75 13.9 | 75 54.6 | 74 30.4 | 75 11.8 | 75 45.9 | 75 11.7 | 75 36.9 | 75 18.9 |
| October. | 15 23 | W. T. | 75 08.9 | 75 22.4 | 75 52.3 | 74 28.7 | 75 05.4 | 75 46.6 | 75 14.6 | 75 38.3 | 75 19.6 |
| | 16 0 | W. T. | 75 05.5 | 75 32.2 | 75 51.8 | 74 25.9 | 75 05.3 | 75 44.6 | 75 09.8 | 75 36.7 | 75 18.9 |
| | 16 2 | T. M. | 75 27.6 | 75 22.4 | 75 46.2 | 75 37.7 | 75 13.4 | 75 31.0 | 75 19.1 | 75 21.8 | 75 19.9 |
| | 16 3 | T. M. | 75 24.6 | 75 18.0 | 75 52.0 | 74 38.2 | 75 16.3 | 75 25.0 | 75 21.0 | 75 32.2 | 75 20.9 |
| | 16 23 | J. W. | 75 02.4 | 75 33.4 | 75 51.4 | 74 38.4 | 75 05.0 | 75 43.0 | 75 29.8 | 75 27.0 | 75 20.0 |
| | 17 0 | J. W. | 74 57.0 | 75 35.8 | 75 54.5 | 74 24.2 | 75 11.9 | 75 39.8 | 75 28.6 | 75 28.6 | 75 20.0 |
| | 17 2 | W. A. S. | 75 08.3 | 75 31.3 | 75 53.7 | 74 33.2 | 75 06.2 | 75 36.0 | 75 18.2 | 75 39.5 | 75 20.8 |
| | 17 3 | W. A. S. | 75 03.3 | 75 12.6 | 75 22.5 | 75 00.0 | 75 04.6 | 75 25.9 | 75 32.6 | 75 47.0 | 75 18.6 |
| | 17 22 | W. A. S. | 75 08.9 | 75 20.7 | 75 51.6 | 74 28.1 | 75 21.3 | 75 30.7 | 75 10.2 | 75 46.2 | 75 19.7 |
| | 17 23 | W. A. S. | 75 02.3 | 75 12.8 | 75 24.5 | 75 04.8 | 75 11.1 | 75 40.1 | 75 23.3 | 75 41.3 | 75 20.0 |
| | 17 23 | W. A. S. | 75 08.5 | 75 25.3 | 75 56.4 | 74 24.2 | 75 04.1 | 75 46.7 | 75 09.8 | 75 48.2 | 75 20.4 |
| | 18 0 | W. A. S. | 75 06.6 | 75 24.3 | 75 41.6 | 74 46.7 | 75 12.6 | 75 38.5 | 75 12.5 | 75 42.0 | 75 20.6 |
| November. | 16 23 | W. T. | 75 03.5 | 75 29.4 | 75 55.7 | 74 25.6 | 75 23.9 | 75 43.2 | 75 15.7 | 75 34.9 | 75 21.4 |
| | 17 0 | W. T. | 75 07.1 | 75 33.0 | 75 53.6 | 74 25.4 | 75 05.6 | 75 46.7 | 75 16.4 | 75 40.3 | 75 21.0 |
| | 17 2 | J. W. | 75 06.0 | 75 37.9 | 75 50.2 | 74 30.8 | 75 11.1 | 75 43.1 | 75 04.8 | 75 37.8 | 75 20.2 |
| | 17 3 | J. W. | 75 08.8 | 75 34.2 | 75 53.0 | 74 30.0 | 75 14.3 | 75 38.9 | 75 05.6 | 75 30.2 | 75 19.3 |
| | 18 0 | T. M. | 75 06.0 | 75 29.4 | 76 00.0 | 74 26.2 | 75 11.4 | 75 48.2 | 75 02.4 | 75 35.8 | 75 19.9 |
| | 18 2 | W. A. S. | 75 03.2 | 75 44.2 | 75 19.3 | 75 08.6 | 75 17.7 | 75 48.7 | 75 04.9 | 75 21.5 | 75 21.0 |
| | 18 3 | W. A. S. | 75 07.4 | 75 24.3 | 75 56.6 | 74 48.1 | 75 11.6 | 75 45.7 | 75 13.6 | 75 33.5 | 75 20.8 |
| | 18 23 | W. A. S. | 75 03.2 | 75 36.0 | 75 53.9 | 74 29.6 | 75 10.8 | 75 41.0 | 75 09.8 | 75 32.4 | 75 19.6 |
| | 19 0 | W. A. S. | 75 18.1 | 75 23.1 | 75 53.4 | 74 21.8 | 75 02.2 | 75 47.2 | 75 17.2 | 75 35.4 | 75 19.8 |
| | 19 2 | J. W. | 75 00.2 | 75 36.6 | 75 50.9 | 74 29.8 | 75 06.0 | 75 48.8 | 75 16.0 | 75 38.8 | 75 20.9 |
| | 19 3 | J. W. | 75 05.9 | 75 38.3 | 75 46.3 | 74 33.8 | 75 02.8 | 75 45.3 | 75 08.7 | 75 40.6 | 75 20.2 |
| December. | 14 23 | W. T. | 75 03.4 | 75 31.7 | 75 56.3 | 74 18.5 | 75 11.2 | 75 42.7 | 75 15.0 | 75 37.1 | 75 19.5 |
| | 15 0 | W. T. | 75 02.1 | 75 28.1 | 75 56.9 | 74 30.0 | 75 05.9 | 75 45.2 | 75 12.1 | 75 40.5 | 75 20.1 |
| | 15 2 | J. W. | 75 03.1 | 75 27.9 | 75 51.6 | 74 22.1 | 75 10.7 | 75 53.2 | 75 44.7 | 75 04.8 | 75 19.8 |
| | 15 3 | J. W. | 75 05.4 | 75 24.5 | 75 51.3 | 74 26.0 | 75 16.7 | 75 52.7 | 75 41.6 | 75 00.0 | 75 19.7 |
| | 15 23 | W. A. S. | 75 04.3 | 75 31.7 | 75 52.0 | 74 31.8 | 75 00.6 | 75 52.4 | 75 10.5 | 75 27.5 | 75 18.8 |
| | 16 0 | W. A. S. | 75 03.2 | 75 24.8 | 75 46.7 | 74 26.9 | 75 13.4 | 75 56.3 | 75 37.3 | 75 05.2 | 75 19.2 |
| | 16 2 | W. T. | 75 05.1 | 75 33.8 | 75 53.7 | 74 21.1 | 75 06.3 | 75 46.4 | 75 06.3 | 75 37.5 | 75 18.7 |
| | 16 4 | W. T. | 75 05.4 | 75 26.7 | 75 55.6 | 74 17.9 | 75 06.7 | 75 47.7 | 75 04.8 | 75 38.5 | 75 17.9 |
| | 17 23 | T. M. | 75 06.3 | 75 29.8 | 75 58.6 | 74 23.5 | 75 11.6 | 75 42.8 | 75 14.2 | 75 30.0 | 75 19.5 |
| | 18 0 | T. M. | 75 04.0 | 75 26.8 | 76 03.0 | 74 23.4 | 75 13.6 | 75 41.6 | 75 22.0 | 75 23.0 | 75 19.6 |
| | 18 2 | J. W. | 75 01.1 | 75 31.2 | 75 54.9 | 74 27.0 | 75 11.7 | 75 48.0 | 75 21.0 | 75 26.4 | 75 20.2 |
| | 18 3 | J. W. | 75 12.1 | 75 21.6 | 75 49.8 | 74 29.8 | 75 18.2 | 75 41.9 | 75 24.5 | 75 20.2 | 75 19.7 |

Observations of Inclination continued from Vol. 1, p. 332; Needles employed "Robinson No. 2," and "Gambey No. 1" in Gambey Circle.

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|----------------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | |
| 1852. | | | | | | | | | | | |
| D. H. | | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " | ° ' " |
| January. | | | | | | | | | | | |
| 15 23 | W. A. S. | 75 09.7 | 75 33.1 | 75 53.4 | 74 25.0 | 75 05.4 | 75 30.1 | 75 10.5 | 75 46.3 | 75 19.2 | } 75 19.3 |
| 16 0 | W. A. S. | 75 13.6 | 75 26.9 | 75 42.8 | 74 23.6 | 75 02.5 | 75 47.2 | 75 07.3 | 75 50.8 | 75 19.3 | |
| 16 2 | W. T. | 75 00.5 | 75 35.8 | 75 55.6 | 74 24.7 | 75 14.8 | 75 36.8 | 75 11.5 | 75 33.2 | 75 19.2 | |
| 16 3 | W. T. | 75 00.9 | 75 35.7 | 75 53.5 | 74 26.6 | 75 15.2 | 75 40.9 | 75 12.8 | 75 30.9 | 75 22.0 | |
| 16 23 | T. M. | 74 55.0 | 75 39.0 | 75 43.9 | 74 23.8 | 75 32.4 | 75 41.5 | 75 13.8 | 75 24.8 | 75 19.2 | |
| 17 0 | T. M. | 74 54.0 | 75 42.4 | 75 43.6 | 74 33.4 | 75 24.2 | 75 46.3 | 75 13.8 | 75 17.6 | 75 19.3 | |
| 17 2 | J. W. | 75 04.6 | 75 30.8 | 75 46.1 | 74 32.2 | 75 21.5 | 75 41.8 | 75 21.4 | 75 26.1 | 75 20.5 | |
| 17 3 | J. W. | 75 01.4 | 75 32.9 | 75 47.0 | 74 31.3 | 75 22.1 | 75 38.0 | 75 19.5 | 75 32.0 | 75 20.5 | |
| 18 23 | W. T. | 75 10.0 | 75 26.7 | 75 56.0 | 74 19.0 | 75 10.0 | 75 43.2 | 75 10.0 | 75 30.6 | 75 18.3 | |
| 19 0 | W. T. | 75 02.2 | 75 33.0 | 75 56.6 | 74 28.3 | 75 03.8 | 75 46.9 | 75 11.5 | 75 30.8 | 75 19.2 | |
| 19 2 | T. M. | 74 51.2 | 75 31.6 | 75 44.2 | 74 32.0 | 75 15.0 | 75 31.8 | 75 18.2 | 75 32.4 | 75 17.0 | |
| 19 3 | T. M. | 74 53.2 | 75 37.4 | 75 38.2 | 74 30.8 | 75 07.6 | 75 36.6 | 75 22.4 | 75 36.6 | 75 17.8 | |
| February. | | | | | | | | | | | |
| 16 23 | J. W. | 75 07.0 | 75 25.6 | 75 56.4 | 74 26.2 | 75 00.7 | 75 50.5 | 75 22.2 | 75 36.1 | 75 20.6 | } 75 19.6 |
| 17 0 | J. W. | 75 16.5 | 75 30.1 | 75 59.6 | 74 29.0 | 74 55.4 | 75 50.8 | 75 16.9 | 75 35.2 | 75 21.7 | |
| 17 2 | T. M. | 75 06.0 | 75 34.2 | 75 43.0 | 74 32.4 | 74 50.2 | 75 51.4 | 75 29.2 | 75 33.2 | 75 19.9 | |
| 17 3 | T. M. | 75 06.4 | 75 24.0 | 75 46.0 | 74 33.6 | 75 12.4 | 75 44.6 | 75 30.7 | 75 36.8 | 75 21.8 | |
| 19 0 | W. A. S. | 75 07.2 | 75 28.0 | 75 56.9 | 74 20.3 | 75 03.2 | 75 32.9 | 75 23.7 | 75 44.4 | 75 19.6 | |
| 19 1 | W. A. S. | 75 09.0 | 75 38.6 | 75 48.4 | 74 30.0 | 75 04.5 | 75 42.3 | 75 17.5 | 75 32.9 | 75 20.4 | |
| 19 1 | W. T. | 75 04.1 | 75 38.7 | 76 04.1 | 74 31.6 | 74 46.4 | 75 43.7 | 75 16.2 | 75 33.9 | 75 19.8 | |
| 19 3 | W. T. | 75 06.5 | 75 40.8 | 75 56.0 | 74 30.8 | 74 42.8 | 75 44.1 | 75 13.5 | 75 20.9 | 75 16.9 | |
| 22 23 | W. A. S. | 75 02.6 | 75 31.8 | 75 46.4 | 74 33.8 | 75 07.8 | 75 43.7 | 75 12.1 | 75 37.5 | 75 19.5 | |
| 23 0 | W. A. S. | 75 07.4 | 74 07.4 | 77 45.8 | 73 14.7 | 74 59.7 | 75 40.4 | 75 21.6 | 75 51.6 | 75 16.1 | |
| 23 2 | W. A. S. | 77 04.0 | 73 31.9 | 77 45.0 | 73 09.0 | 74 07.4 | 77 29.8 | 73 36.7 | 76 17.5 | 75 22.6 ^a | |
| 23 3 | W. A. S. | 77 06.6 | 73 36.6 | 77 23.2 | 73 04.5 | 73 42.0 | 77 42.6 | 73 26.8 | 76 43.3 | 75 20.7 ^a | |
| 23 23 | W. T. | 77 04.2 | 73 54.9 | 77 36.5 | 73 27.0 | 74 08.4 | 77 09.2 | 74 10.1 | 76 30.8 | 75 30.0 ^a | |
| 24 1 | W. T. | 77 19.3 | 73 40.0 | 77 52.9 | 73 12.6 | 74 11.0 | 76 52.1 | 74 09.6 | 76 29.0 | 75 27.8 ^a | |
| 24 2 | W. T. | 77 16.3 | 73 30.4 | 77 47.2 | 73 18.0 | 74 05.0 | 76 46.9 | 74 09.0 | 76 32.6 | 75 25.7 ^a | |
| 24 4 | W. T. | 77 14.0 | 73 35.0 | 77 44.0 | 73 09.4 | 74 11.0 | 76 46.3 | 74 11.3 | 76 29.0 | 75 25.0 ^a | |
| March. | | | | | | | | | | | |
| 16 23 | T. M. | 77 12.4 | 73 34.3 | 77 44.5 | 73 15.5 | 74 07.2 | 76 48.2 | 74 06.2 | 76 29.0 | 75 24.6 ^a | } 75 19.6 |
| 15 0 | T. M. | 77 16.1 | 73 30.4 | 77 44.2 | 73 25.4 | 74 04.2 | 76 33.6 | 74 13.3 | 76 30.2 | 75 24.6 ^a | |
| 15 2 | W. T. | 77 09.7 | 73 49.7 | 77 39.5 | 73 44.2 | 74 14.4 | 77 03.8 | 74 06.0 | 76 27.0 | 75 31.7 ^a | |
| 15 3 | W. T. | 77 08.6 | 73 48.2 | 77 35.6 | 73 44.3 | 74 04.9 | 77 03.0 | 74 04.9 | 76 35.8 | 75 30.6 ^a | |
| 16 1 | W. A. S. ^b | 76 19.9 | 76 09.6 | 76 44.5 | 75 34.9 | 74 54.5 | 75 53.6 | 76 14.4 | 76 07.5 | 75 59.8 ^a | |
| 16 3 | T. M. | 75 08.6 | 75 24.4 | 75 29.1 | 75 04.2 | 75 17.9 | 75 20.8 | 75 19.1 | 75 19.8 | 75 18.0 | |
| 16 23 | W. T. | 75 09.8 | 75 23.1 | 75 30.6 | 75 06.0 | 75 20.9 | 75 20.2 | 75 29.6 | 75 14.4 | 75 19.3 | |
| 17 0 | W. T. | 75 10.1 | 75 24.0 | 75 30.3 | 75 09.3 | 75 19.5 | 75 21.8 | 75 30.0 | 75 12.5 | 75 19.6 | |
| 17 2 | J. W. | 75 12.7 | 75 27.4 | 75 31.4 | 75 12.4 | 75 17.4 | 75 17.1 | 75 32.6 | 75 15.2 | 75 20.8 | |
| 17 3 | J. W. | 75 11.6 | 75 25.4 | 75 30.9 | 75 13.0 | 75 14.8 | 75 20.8 | 75 31.5 | 75 13.0 | 75 20.1 | |
| April. | | | | | | | | | | | |
| 14 23 | T. M. | 75 09.2 | 75 29.6 | 75 30.4 | 75 12.6 | 75 20.4 | 75 24.4 | 75 28.2 | 75 13.0 | 75 21.0 | } 75 20.0 |
| 15 0 | T. M. | 75 10.2 | 75 24.4 | 75 32.2 | 75 14.8 | 75 19.4 | 75 20.6 | 75 29.9 | 75 16.0 | 75 21.0 | |
| 15 23 | W. A. S. | 75 11.0 | 75 27.5 | 75 24.8 | 75 15.0 | 75 18.6 | 75 27.8 | 75 29.3 | 75 12.3 | 75 20.8 | |
| 16 0 | W. A. S. | 75 08.3 | 75 21.6 | 75 28.2 | 75 24.0 | 75 20.1 | 75 24.2 | 75 31.5 | 75 09.4 | 75 20.9 | |
| 16 2 | J. W. | 75 10.9 | 75 27.6 | 75 29.8 | 75 08.4 | 75 20.1 | 75 20.1 | 75 30.7 | 75 13.0 | 75 20.1 | |
| 16 3 | J. W. | 75 12.4 | 75 28.5 | 75 26.3 | 75 14.4 | 75 20.4 | 75 15.4 | 75 31.0 | 75 10.3 | 75 19.8 | |
| 16 23 | W. T. | 75 09.5 | 75 26.1 | 75 27.1 | 75 11.1 | 75 20.4 | 75 21.1 | 75 31.0 | 75 11.7 | 75 20.2 | |
| 17 0 | W. T. | 75 13.0 | 75 26.0 | 75 26.9 | 75 10.5 | 75 20.3 | 75 21.0 | 75 29.7 | 75 14.0 | 75 20.4 | |
| 17 2 | J. W. | 75 09.6 | 75 26.2 | 75 30.7 | 75 09.5 | 75 17.9 | 75 19.0 | 75 29.8 | 75 13.8 | 75 19.5 | |
| 17 3 | J. W. | 75 08.6 | 75 26.9 | 75 29.6 | 75 09.1 | 75 17.6 | 75 20.4 | 75 30.5 | 75 10.6 | 75 19.1 | |
| 18 23 | W. A. S. | 75 06.9 | 75 26.0 | 75 29.2 | 75 10.0 | 75 17.4 | 75 35.6 | 75 24.9 | 75 08.8 | 75 19.8 | |
| 19 0 | W. A. S. | 75 08.8 | 75 25.8 | 75 29.1 | 75 09.5 | 75 20.1 | 75 26.6 | 75 30.4 | 75 09.0 | 75 19.9 | |
| 19 2 | W. A. S. | 75 08.0 | 75 21.9 | 75 27.7 | 75 15.5 | 75 16.6 | 75 27.8 | 75 30.2 | 75 12.3 | 75 20.0 | |
| 19 3 | W. A. S. | 75 10.8 | 75 23.7 | 75 27.9 | 75 13.2 | 75 04.7 | 75 27.2 | 75 33.9 | 75 15.5 | 75 19.6 | |

^a Not included in the Monthly Means.

^b Gambey No. 1, again taken into use.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed, "Gambey No. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|-----------|------------|-------------|-----------------|-----------|------------|-------------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | <i>a</i> | <i>a'</i> | <i>a''</i> | <i>a'''</i> | <i>b</i> | <i>b'</i> | <i>b''</i> | <i>b'''</i> | | |
| 1852. | | | | | | | | | | | |
| | D. H. | | | | | | | | | | |
| May. | 16 23 | W. A. S. | 75 08.2 | 75 28.6 | 75 27.0 | 75 05.2 | 75 18.2 | 75 24.0 | 75 39.4 | 75 15.5 | 75 20.7 |
| | 17 0 | W. A. S. | 75 09.9 | 75 27.0 | 75 31.0 | 75 14.0 | 75 15.2 | 75 28.0 | 75 33.2 | 75 09.7 | 75 21.0 |
| | 17 2 | W. A. S. | 75 08.2 | 75 28.6 | 75 29.2 | 75 09.2 | 75 17.3 | 75 32.1 | 75 31.4 | 75 09.6 | 75 21.0 |
| | 17 3 | W. A. S. | 75 09.6 | 75 23.8 | 75 30.6 | 75 11.6 | 75 09.4 | 75 33.4 | 75 31.2 | 75 15.0 | 75 20.6 |
| | 17 23 | W. T. | 75 09.9 | 75 21.4 | 75 29.0 | 75 03.5 | 75 15.9 | 75 30.7 | 75 29.7 | 75 19.8 | 75 21.2 |
| | 18 0 | W. T. | 75 09.7 | 75 23.8 | 75 28.5 | 75 08.6 | 75 17.2 | 75 28.6 | 75 28.7 | 75 19.2 | 75 20.5 |
| | 18 2 | W. A. S. | 75 12.4 | 75 19.4 | 75 31.6 | 75 11.5 | 75 10.4 | 75 30.2 | 75 32.1 | 75 19.8 | 75 20.9 |
| | 18 3 | W. A. S. | 75 09.0 | 75 23.6 | 75 27.3 | 75 07.8 | 75 14.6 | 75 32.2 | 75 32.6 | 75 18.6 | 75 20.7 |
| | 18 23 | T. M. | 75 11.6 | 75 22.4 | 75 29.0 | 75 08.0 | 75 12.4 | 75 29.2 | 75 31.0 | 75 19.2 | 75 20.3 |
| | 19 0 | T. M. | 75 14.8 | 75 13.8 | 75 30.8 | 75 10.4 | 75 09.8 | 75 28.8 | 75 35.0 | 75 19.6 | 75 20.4 |
| | 19 2 | T. M. | 75 14.1 | 75 28.4 | 75 17.8 | 75 14.6 | 75 14.6 | 75 28.0 | 75 30.0 | 75 17.6 | 75 20.6 |
| | 19 3 | T. M. | 75 15.6 | 75 29.6 | 75 21.4 | 75 08.2 | 75 12.0 | 75 30.0 | 75 33.2 | 75 20.2 | 75 21.2 |
| | 15 23 | W. T. | 75 11.8 | 75 21.0 | 75 28.5 | 75 10.2 | 75 20.2 | 75 31.1 | 75 30.2 | 75 17.9 | 75 22.6 |
| | 16 0 | W. T. | 75 12.0 | 75 23.0 | 75 27.4 | 75 10.0 | 75 19.0 | 75 27.8 | 75 29.7 | 75 17.8 | 75 20.8 |
| | 16 2 | T. M. | 75 08.6 | 75 20.8 | 25 25.1 | 75 04.4 | 75 16.6 | 75 32.2 | 75 37.2 | 75 22.4 | 75 20.9 |
| | 16 3 | T. M. | 75 12.6 | 75 20.4 | 75 25.6 | 75 08.0 | 75 14.0 | 75 25.4 | 75 39.2 | 75 21.5 | 75 20.9 |
| | 16 23 | W. A. S. | 75 13.3 | 75 21.6 | 75 27.8 | 75 11.4 | 75 08.9 | 75 32.2 | 75 37.1 | 75 11.6 | 75 20.5 |
| | 17 0 | W. A. S. | 75 13.1 | 75 25.6 | 75 28.3 | 75 09.4 | 75 17.0 | 75 26.6 | 75 32.1 | 75 17.4 | 75 21.2 |
| | 17 2 | W. A. S. | 75 07.2 | 75 22.4 | 75 30.0 | 75 08.9 | 75 16.6 | 75 27.3 | 75 30.4 | 75 21.9 | 75 20.6 |
| | 17 3 | W. A. S. | 75 08.3 | 75 18.2 | 75 30.2 | 75 09.5 | 75 14.8 | 75 28.6 | 75 29.5 | 75 20.3 | 75 20.1 |
| | 17 23 | W. T. | 75 10.9 | 75 20.4 | 75 29.5 | 75 08.6 | 75 17.6 | 75 26.9 | 75 30.0 | 75 22.0 | 75 20.7 |
| | 18 0 | W. T. | 75 09.9 | 75 21.4 | 75 26.7 | 75 09.9 | 75 17.5 | 75 27.3 | 75 29.8 | 75 21.8 | 75 20.5 |
| | 18 2 | W. A. S. | 75 07.3 | 75 20.2 | 75 29.6 | 75 11.4 | 75 17.1 | 75 27.9 | 75 30.3 | 75 20.3 | 75 20.5 |
| | 18 3 | W. A. S. | 75 12.6 | 75 19.9 | 75 27.9 | 75 11.2 | 75 11.0 | 75 27.0 | 75 31.2 | 75 20.6 | 75 20.2 |
| | 15 23 | J. W. | 75 12.8 | 75 20.7 | 75 29.3 | 75 07.2 | 75 19.2 | 75 24.6 | 75 30.6 | 75 15.2 | 75 19.9 |
| | 16 0 | J. W. | 75 15.4 | 75 23.8 | 75 23.4 | 75 06.4 | 75 24.0 | 75 22.8 | 75 32.7 | 75 17.2 | 75 20.7 |
| | 16 3 | W. T. | 75 11.2 | 75 20.6 | 75 29.8 | 75 08.5 | 75 16.5 | 75 28.3 | 75 27.3 | 75 17.4 | 75 20.0 |
| | 16 4 | W. T. | 75 11.2 | 75 20.0 | 75 28.8 | 75 10.7 | 75 16.6 | 75 27.8 | 75 28.2 | 75 17.3 | 75 20.1 |
| | 16 23 | T. M. | 75 09.7 | 75 24.5 | 75 27.9 | 75 04.0 | 75 17.2 | 75 29.1 | 75 28.9 | 75 21.2 | 75 20.3 |
| | 17 0 | T. M. | 75 08.0 | 75 21.4 | 75 24.2 | 75 06.2 | 75 18.8 | 75 27.6 | 75 34.4 | 75 22.6 | 75 20.3 |
| | 17 3 | W. T. | 75 12.4 | 75 25.8 | 75 27.9 | 75 04.4 | 75 15.2 | 75 27.3 | 75 25.2 | 75 18.0 | 75 19.4 |
| | 17 3 | W. T. | 75 10.1 | 75 21.2 | 75 28.9 | 75 04.6 | 75 16.8 | 75 29.1 | 75 25.0 | 75 17.3 | 75 19.1 |
| | 18 23 | W. A. S. | 75 08.3 | 75 20.0 | 75 29.5 | 75 09.0 | 75 19.5 | 75 28.2 | 75 30.2 | 75 13.8 | 75 19.8 |
| | 19 0 | W. A. S. | 75 12.6 | 75 27.3 | 75 30.3 | 75 06.1 | 75 10.3 | 75 24.0 | 75 29.6 | 75 19.9 | 75 20.1 |
| | 19 2 | J. W. | 75 12.7 | 75 21.4 | 75 25.6 | 75 05.0 | 75 12.1 | 75 32.8 | 75 30.2 | 75 17.2 | 75 19.6 |
| | 19 3 | J. W. | 75 16.4 | 75 18.8 | 75 25.8 | 75 08.9 | 75 12.1 | 75 35.2 | 75 25.0 | 75 13.7 | 75 19.5 |
| | 15 22 | W. T. | 75 11.7 | 75 21.3 | 75 27.0 | 75 05.6 | 75 16.0 | 75 25.4 | 75 27.3 | 75 18.2 | 75 19.1 |
| | 16 0 | W. T. | 75 14.6 | 75 22.6 | 75 28.3 | 75 04.4 | 75 16.2 | 75 26.8 | 75 29.4 | 75 16.6 | 75 19.8 |
| | 16 2 | W. A. S. | 75 09.6 | 75 21.6 | 75 27.6 | 75 08.6 | 75 16.8 | 75 30.6 | 75 32.1 | 75 15.2 | 75 20.3 |
| | 16 3 | W. A. S. | 75 15.0 | 75 24.6 | 75 28.2 | 75 07.0 | 75 20.6 | 75 22.8 | 75 27.2 | 75 13.4 | 75 19.9 |
| | 16 23 | T. M. | 75 16.1 | 75 20.4 | 75 25.6 | 75 10.6 | 75 14.0 | 75 29.6 | 75 27.0 | 75 11.8 | 75 21.1 |
| | 17 0 | T. M. | 75 14.0 | 75 17.4 | 75 26.0 | 75 11.2 | 75 11.8 | 75 31.8 | 75 28.5 | 75 12.2 | 75 19.1 |
| | 17 2 | J. W. | 75 10.4 | 75 17.7 | 75 14.8 | 75 25.2 | 75 16.9 | 75 16.4 | 75 31.9 | 75 20.3 | 75 19.1 |
| | 17 3 | J. W. | 75 17.5 | 75 17.9 | 75 18.1 | 75 22.7 | 75 19.6 | 75 17.9 | 75 25.8 | 75 15.8 | 75 19.4 |
| | 17 23 | W. T. | 75 09.0 | 75 40.0 | 75 16.7 | 75 27.6 | 75 32.2 | 75 07.5 | 75 37.7 | 75 00.6 | 75 21.4 |
| | 18 0 | W. T. | 75 03.0 | 75 38.2 | 75 17.0 | 75 25.0 | 75 32.8 | 75 09.7 | 75 36.0 | 75 00.9 | 75 20.9 |
| | 18 2 | T. M. | 74 57.0 | 75 42.0 | 75 12.0 | 75 31.4 | 75 35.9 | 75 06.6 | 75 35.8 | 74 56.0 | 75 19.6 |
| | 18 3 | T. M. | 75 05.0 | 75 39.4 | 75 11.6 | 75 31.4 | 75 34.2 | 75 08.8 | 75 37.0 | 74 59.6 | 75 20.8 |

Observations of Inclination continued from Vol. 1, p. 332; Needle employed, "Gambey, No. 1."

| Toronto Astron. Time. | Initials of Observers. | Poles Direct. | | | | Poles Reversed. | | | | Inclination. | Monthly Means. |
|--------------------------|------------------------------|-----------------|----------|-----------|---------|-----------------|---------|-----------|---------|--------------|-------------------|
| | | Face of Needle. | | | | Face of Needle. | | | | | |
| | | Direct. | | Reversed. | | Direct. | | Reversed. | | | |
| | | a | a' | a'' | a''' | b | b' | b'' | b''' | | |
| 1852. | | | | | | | | | | | |
| | D. H. | | | | | | | | | | |
| September. | 15 23 | J. W. | 75 05.2 | 75 36.8 | 75 20.4 | 75 23.4 | 75 33.1 | 75 09.2 | 75 40.7 | 75 00.7 | 75 21.2 |
| | 16 0 | J. W. | 75 02.0 | 75 40.5 | 75 25.4 | 75 18.2 | 75 29.9 | 75 08.6 | 75 35.9 | 75 04.4 | 75 20.6 |
| | 16 2 | W. A. S. | 75 04.2 | 75 39.2 | 75 18.2 | 75 23.2 | 75 31.9 | 75 08.8 | 75 37.6 | 75 06.2 | 75 21.2 |
| | 16 3 | W. A. S. | 75 03.4 | 75 39.5 | 75 22.2 | 75 24.5 | 75 32.2 | 75 11.2 | 75 36.2 | 75 06.2 | 75 21.9 |
| | 16 23 | W. T. | 75 06.0 | 75 40.2 | 75 19.1 | 75 28.8 | 75 36.2 | 75 08.2 | 75 36.6 | 75 00.7 | 75 21.9 |
| | 17 0 | W. T. | 74 57.7 | 75 41.1 | 75 19.4 | 75 25.5 | 75 35.8 | 76 08.5 | 75 37.0 | 75 01.4 | 75 21.2 |
| | 17 2 | T. M. | 74 59.8 | 75 40.7 | 75 24.0 | 75 24.4 | 75 29.2 | 75 14.7 | 75 38.2 | 75 02.6 | 75 21.7 |
| | 17 3 | T. M. | 75 04.8 | 75 40.0 | 75 22.8 | 75 29.2 | 75 30.0 | 75 10.0 | 75 41.0 | 75 03.8 | 75 22.7 |
| | 17 23 | W. A. S. | 75 05.6 | 75 40.8 | 75 15.2 | 75 34.6 | 75 34.8 | 75 07.8 | 75 35.2 | 75 00.4 | 75 21.8 |
| | 18 0 | W. A. S. | 75 00.1 | 75 39.5 | 75 21.4 | 75 32.8 | 75 34.2 | 75 11.1 | 75 35.8 | 75 05.0 | 75 22.5 |
| | 18 2 | T. M. | 75 04.8 | 75 42.8 | 75 12.0 | 75 35.0 | 75 31.6 | 75 10.4 | 75 36.4 | 75 00.5 | 75 21.6 |
| | 18 3 | T. M. | 75 04.0 | 75 41.0 | 75 16.2 | 75 29.8 | 75 30.2 | 75 12.4 | 75 37.2 | 74 56.6 | 75 20.9 |
| October. | 15 23 | T. M. | 75 02.5 | 75 44.6 | 75 21.5 | 75 30.2 | 75 34.0 | 75 07.0 | 75 37.2 | 74 59.4 | 75 22.0 |
| | 16 0 | T. M. | 75 04.2 | 75 42.0 | 75 20.6 | 75 31.2 | 75 30.8 | 75 10.6 | 75 36.2 | 74 55.0 | 75 21.3 |
| | 16 1 | W. A. S. | 75 00.1 | 75 40.9 | 75 20.1 | 75 33.5 | 75 27.4 | 75 10.2 | 75 38.8 | 75 04.2 | 75 22.0 |
| | 16 2 | W. A. S. | 75 04.8 | 75 40.3 | 75 21.6 | 75 36.1 | 75 27.8 | 75 11.8 | 75 37.6 | 75 00.6 | 75 22.6 |
| | 18 0 | J. W. | 75 02.1 | 75 42.3 | 75 21.4 | 75 34.2 | 75 30.8 | 75 06.0 | 75 45.0 | 74 58.5 | 75 22.5 |
| | 18 2 | W. T. | 75 06.2 | 75 40.2 | 75 23.1 | 75 29.8 | 75 34.3 | 75 06.9 | 75 43.2 | 75 00.1 | 75 22.9 |
| | 18 3 | W. T. | 75 04.2 | 75 39.1 | 75 22.9 | 75 28.8 | 75 33.1 | 75 06.8 | 75 37.5 | 75 00.6 | 75 21.6 |
| | 18 23 | T. M. | 75 05.8 | 75 41.5 | 75 14.9 | 75 27.0 | 75 35.0 | 75 11.2 | 75 42.4 | 75 00.4 | 75 22.2 |
| | 19 0 | T. M. | 75 05.6 | 75 39.5 | 75 15.6 | 75 29.6 | 75 30.8 | 75 16.8 | 75 42.0 | 75 04.6 | 75 23.0 |
| | 19 2 | W. A. S. | 75 04.4 | 75 40.7 | 75 20.7 | 75 31.9 | 75 36.0 | 75 08.2 | 75 30.5 | 75 04.2 | 75 22.2 |
| | 19 3 | W. A. S. | 75 01.4 | 75 43.7 | 75 25.0 | 75 31.1 | 75 28.7 | 75 08.6 | 75 31.1 | 75 02.3 | 75 21.5 |
| | November. | 17 23 | W. A. S. | 75 01.1 | 75 43.2 | 75 11.3 | 75 30.5 | 75 35.6 | 75 11.2 | 75 35.4 | 75 03.5 |
| 18 0 | | W. A. S. | 75 02.2 | 75 47.5 | 75 14.0 | 75 30.3 | 75 27.4 | 75 10.6 | 75 36.6 | 75 07.5 | 75 22.0 |
| 18 2 | | W. T. | 75 01.8 | 75 41.9 | 75 19.1 | 75 26.0 | 75 35.6 | 75 06.9 | 75 39.2 | 75 00.2 | 75 21.3 |
| 18 3 | | W. T. | 75 01.8 | 75 39.3 | 75 18.8 | 75 28.3 | 75 36.5 | 75 07.6 | 75 38.9 | 75 00.5 | 75 21.5 |
| 18 23 | | W. A. S. | 74 57.6 | 75 41.6 | 75 13.0 | 75 24.6 | 75 37.8 | 75 09.2 | 75 43.8 | 75 06.2 | 75 21.6 |
| 19 0 | | W. A. S. | 75 03.3 | 75 37.9 | 75 12.0 | 75 31.4 | 75 35.8 | 75 12.2 | 75 40.1 | 75 03.5 | 75 22.0 |
| 19 2 | | T. M. | 75 03.7 | 75 37.8 | 75 14.8 | 75 33.8 | 75 30.4 | 75 15.0 | 75 36.8 | 75 06.8 | 75 22.3 |
| 19 3 | | T. M. | 74 56.4 | 75 36.0 | 75 19.4 | 75 25.4 | 75 30.4 | 75 21.4 | 75 42.2 | 75 09.0 | 75 22.5 |
| 19 23 | | T. M. | 75 05.8 | 75 39.8 | 75 08.4 | 75 23.2 | 75 30.2 | 75 08.8 | 75 39.5 | 75 02.6 | 75 19.8 |
| 20 0 | | T. M. | 75 06.0 | 75 42.2 | 75 12.4 | 75 20.0 | 75 30.7 | 75 10.6 | 75 41.0 | 74 56.4 | 75 20.0 |
| 20 2 | | J. W. | 75 01.8 | 75 40.1 | 75 22.1 | 75 22.8 | 75 32.0 | 75 10.6 | 75 38.1 | 74 59.9 | 75 20.9 |
| 20 3 | | J. W. | 75 02.4 | 75 43.3 | 75 15.8 | 75 26.5 | 75 32.1 | 75 06.5 | 75 40.8 | 74 56.0 | 75 20.4 |
| December. | 15 23 | W. T. | 75 02.3 | 75 37.8 | 75 20.0 | 75 28.8 | 75 30.2 | 75 11.8 | 75 37.2 | 75 02.0 | 75 21.2 |
| | 16 0 | W. T. | 75 02.4 | 75 37.2 | 75 16.5 | 75 27.8 | 75 31.4 | 75 08.0 | 75 38.6 | 75 02.2 | 75 20.5 |
| | 16 2 | J. W. | 74 58.8 | 75 40.2 | 75 24.4 | 75 25.6 | 75 22.9 | 75 16.2 | 75 35.0 | 74 58.6 | 75 20.2 |
| | 16 3 | J. W. | 74 59.9 | 75 45.0 | 75 22.8 | 75 20.5 | 75 28.5 | 75 15.8 | 75 41.8 | 74 53.8 | 75 21.0 |
| | 16 23 | T. M. | 75 05.4 | 75 32.4 | 75 27.0 | 75 13.4 | 75 27.6 | 75 12.2 | 75 41.0 | 75 02.2 | 75 20.1 |
| | 17 0 | T. M. | 75 02.6 | 75 32.8 | 75 26.8 | 75 12.0 | 75 27.8 | 75 15.6 | 75 39.2 | 75 04.0 | 75 20.0 |
| | 17 2 | W. T. | 75 10.9 | 75 32.1 | 75 30.2 | 75 13.4 | 75 09.7 | 75 30.8 | 75 27.8 | 75 17.9 | 75 21.6 |
| | 17 3 | W. T. | 75 11.2 | 75 31.1 | 75 30.4 | 75 14.6 | 75 10.1 | 75 29.8 | 75 27.9 | 75 18.3 | 75 21.6 |
| | 17 23 | W. A. S. | 75 04.2 | 75 41.9 | 75 23.5 | 75 28.5 | 75 33.2 | 75 06.4 | 75 41.4 | 74 59.8 | 75 22.3 |
| | 18 0 | W. A. S. | 75 04.2 | 75 35.8 | 75 23.6 | 75 44.0 | 75 35.8 | 75 08.4 | 75 36.4 | 75 03.8 | 75 22.1 |
| | 18 2 | T. M. | 75 06.6 | 75 39.8 | 75 24.2 | 75 22.0 | 75 26.2 | 75 10.4 | 75 45.2 | 75 01.0 | 75 21.9 |
| | 18 3 | T. M. | 75 03.7 | 75 44.4 | 75 27.0 | 75 18.2 | 75 25.2 | 75 11.0 | 75 41.6 | 75 02.0 | 75 21.5 |

T O R O N T O, 1845-52.

OBSERVATIONS OF THE ABSOLUTE HORIZONTAL FORCE.

Magnets employed I. 15 suspended 3.00 inches;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | | | | | | | | |
|-----------|--------------------------------|--------------------------------------|---|-----------------------|-----------------------|---------------|---------------------------------|--------------------------------|---|-----------------------|---------------|-------|------|---------|------|--------|-------|------|
| | Tem- perature of Magnet. | Distances. $r, r_1, r_{10}, \&c.$ | Angles. | | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | | | | | | | |
| | | | $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation. | | $k = .000087$ | $q = .000234$ | | | | $k = .000087$ | $q = .000234$ | | | | | | | |
| | | Feet. | $^{\circ}$ | $'$ | $''$ | Sc. Div. | Therm. | | Seconds. | Sc. Div. | Therm. | | | | | | | |
| 1845 | | | | | | | | | | | | | | | | | | |
| January. | 15 | 63.0 | $1.0 + \frac{1}{2} l$ | 11 | 46 | 02 | 565.8 | 42.6 | 9.19293 | 55.0 | 4.8132 | 584.1 | 44.2 | | | | | |
| | | 58.5 | 1.3 ,, | 5 | 51 | 06 | 571.3 | 43.4 | 9.19315 | | | | | | | | | |
| | 16 | 58.4 | 1.0 ,, | 11 | 45 | 20 | 568.4 | 44.5 | 9.19244 | 55.0 | 4.8126 | 569.5 | 44.4 | | | | | |
| | | 52.8 | 1.3 ,, | 5 | 50 | 23 | 564.4 | 44.7 | 9.19216 | | | | | | | | | |
| | 17 | 52.0 | 1.0 ,, | 11 | 46 | 07 | 581.1 | 44.9 | 9.19287 | 48.4 | 4.8176 | 575.3 | 44.7 | | | | | |
| | | 54.7 | 1.3 ,, | 5 | 49 | 48 | 568.9 | 41.6 | 9.19146 | | | | | | | | | |
| February. | 14 | 56.4 | $1.0 + \frac{1}{2} l$ | 11 | 44 | 11 | 592.6 | 35.7 | 9.19172 | 56.0 | 4.8185 | 576.2 | 44.6 | | | | | |
| | | 57.7 | 1.1 ,, | 9 | 08 | 27 | 589.8 | 35.6 | 9.19276 | | | | | | | | | |
| | | 55.8 | 1.2 ,, | 7 | 15 | 01 | 587.8 | 35.4 | 9.19283 | | | | | | | | | |
| | | 54.3 | 1.3 ,, | 5 | 50 | 39 | 583.2 | 35.4 | 9.19250 | | | | | | | | | |
| | | 64.0 | 1.0 ,, | 11 | 44 | 43 | 576.3 | 45.9 | 9.19314 | | | | | | | | | |
| | | 60.5 | 1.1 ,, | 9 | 08 | 30 | 575.6 | 45.2 | 9.19281 | | | | | | | | | |
| | 15 | 58.7 | 1.2 ,, | 7 | 15 | 06 | 573.0 | 45.5 | 9.19295 | 57.0 | 4.8138 | 588.4 | 47.0 | | | | | |
| | | 58.4 | 1.3 ,, | 5 | 50 | 56 | 572.0 | 45.5 | 9.19291 | | | | | | | | | |
| | | 57.7 | 1.0 ,, | 11 | 44 | 51 | 579.4 | 44.6 | 9.19214 | | | | | | | | | |
| | | 56.8 | 1.1 ,, | 9 | 07 | 45 | 578.0 | 44.7 | 9.19218 | | | | | | | | | |
| | | 55.6 | 1.2 ,, | 7 | 14 | 29 | 578.0 | 44.7 | 9.19231 | | | | | | | | | |
| | | 55.5 | 1.3 ,, | 5 | 50 | 15 | 575.4 | 44.7 | 9.19203 | | | | | | | | | |
| March. | 14 | 61.5 | $1.0 + \frac{1}{2} l$ | 11 | 45 | 12 | 566.5 | 49.4 | 9.19240 | 52.0 | 4.8163 | 566.2 | 49.4 | | | | | |
| | | 61.3 | 1.1 ,, | 9 | 08 | 09 | 561.7 | 49.1 | 9.19256 | | | | | | | | | |
| | | 60.0 | 1.2 ,, | 7 | 14 | 25 | 559.8 | 49.4 | 9.19230 | | | | | | | | | |
| | | 58.3 | 1.3 ,, | 5 | 50 | 33 | 563.3 | 49.2 | 9.19245 | | | | | | | | | |
| | 15 | 51.0 | 1.0 ,, | 11 | 44 | 06 | 577.9 | 39.4 | 9.19160 | 41.0 | 4.8176 | 572.9 | 39.2 | | | | | |
| | | 50.9 | 1.1 ,, | 9 | 07 | 24 | 578.2 | 39.3 | 9.19195 | | | | | | | | | |
| | | 55.5 | 1.2 ,, | 7 | 13 | 52 | 573.7 | 39.4 | 9.19162 | | | | | | | | | |
| | | 48.8 | 1.3 ,, | 5 | 50 | 09 | 573.5 | 39.4 | 9.19181 | | | | | | | | | |
| April. | 14 | 48.3 | $1.0 + \frac{1}{2} l$ | 11 | 38 | 20 | 554.6 | 56.4 | 9.18805 | 50.1 | 4.8461 | 556.4 | 58.2 | | | | | |
| | | 48.5 | 1.1 ,, | 9 | 02 | 33 | 551.4 | 56.2 | 9.18797 | | | | | | | | | |
| | | 48.5 | 1.2 ,, | 7 | 10 | 18 | 540.0 | 56.2 | 9.18802 | | | | | | | | | |
| | | 48.6 | 1.3 ,, | 5 | 46 | 29 | 535.1 | 56.3 | 9.18725 | | | | | | | | | |
| | | 51.3 | 1.0 ,, | 11 | 37 | 29 | 556.9 | 59.3 | 9.18757 | | | | | | | | | |
| | 15 | 51.5 | 1.1 ,, | 9 | 01 | 43 | 558.8 | 59.2 | 9.18835 | 47.0 | 4.8467 | 545.9 | 56.7 | | | | | |
| | | 51.5 | 1.2 ,, | 7 | 09 | 49 | 554.8 | 59.2 | 9.18758 | | | | | | | | | |
| | | 51.7 | 1.3 ,, | 5 | 46 | 00 | 560.0 | 59.3 | 9.18670 | | | | | | | | | |
| | | 47.0 | 1.0 ,, | 11 | 36 | 28 | 550.7 | 54.6 | 9.18688 | | | | | | | | | |
| | | 47.3 | 1.1 ,, | 9 | 01 | 18 | 549.1 | 54.7 | 9.18696 | | | | | | | | | |
| 16 | 47.8 | 1.2 ,, | 7 | 09 | 29 | 549.3 | 55.0 | 9.18719 | 46.0 | 4.8449 | 562.4 | 54.2 | | | | | | |
| | 47.8 | 1.3 ,, | 5 | 46 | 24 | 549.0 | 55.4 | 9.18716 | | | | | | | | | | |
| | May. | 13 | 68.1 | $1.0 + \frac{1}{2} l$ | 11 | 36 | 20 | 541.9 | | | | | 69.5 | 9.18706 | 68.7 | 4.8485 | 550.3 | 72.5 |
| | | | 68.8 | 1.1 ,, | 9 | 00 | 49 | 541.1 | | | | | 69.6 | 9.18685 | | | | |
| | | | 68.8 | 1.2 ,, | 7 | 08 | 52 | 540.0 | | | | | 69.6 | 9.18685 | | | | |
| 68.8 | | | 1.3 ,, | 5 | 45 | 59 | 539.1 | 69.6 | 9.18691 | | | | | | | | | |
| 62.6 | | | 1.0 ,, | 11 | 34 | 07 | 537.2 | 66.9 | 9.18565 | | | | | | | | | |
| 14 | 62.8 | 1.1 ,, | 8 | 59 | 54 | 535.2 | 66.9 | 9.18605 | 58.5 | 4.8469 | 535.4 | 66.7 | | | | | | |
| | 63.0 | 1.2 ,, | 7 | 08 | 01 | 530.8 | 66.8 | 9.18592 | | | | | | | | | | |
| | 62.8 | 1.3 ,, | 5 | 44 | 56 | 232.4 | 66.8 | 9.18550 | | | | | | | | | | |
| | 50.2 | 1.0 ,, | 11 | 34 | 53 | 547.4 | 57.5 | 9.18594 | | | | | | | | | | |
| | 50.5 | 1.1 ,, | 9 | 00 | 03 | 548.8 | 57.2 | 9.18601 | | | | | | | | | | |
| 15 | 50.4 | 1.2 ,, | 7 | 08 | 10 | 547.3 | 57.0 | 9.18590 | 51.2 | 4.8501 | 558.8 | 58.3 | | | | | | |
| | 50.4 | 1.3 ,, | 5 | 44 | 54 | 547.2 | 57.0 | 9.18529 | | | | | | | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | | | | | | | | | | | |
|------------|-------------------------|--------|-------|--|-------------------|---------------|----------|-------------------|-------------------|---------|------------------|--------|-------|------|--------|-------|------|-------|--------|----|-----------|
| | Log. Values of $m X$ | m | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X | | | | | | | | | | |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | | | | | | | | | | | |
| 0.29096 | 0.5520 | 3.5401 | 578.7 | 43.9 | 3.5409 | 579.1 | 42.9 | 542.7 | 3.5397 | 1845 | | | | | | | | | | | |
| | 0.5522 | 3.5392 | | | | | | | | 15 | January. | | | | | | | | | | |
| | 0.29106 | 0.5518 | | | | | | | | 3.5425 | | 577.6 | 43.9 | 16 | | | | | | | |
| 0.29016 | 0.5517 | 3.5437 | 581.1 | 41.0 | 3.5409 | 579.1 | 42.9 | 542.7 | 3.5397 | 17 | | | | | | | | | | | |
| | 0.5516 | 3.5372 | | | | | | | | 0.5507 | 3.5429 | | | | | | | | | | |
| 0.29000 | 0.5507 | 3.5412 | 592.9 | 37.9 | 3.5408 | 585.9 | 42.8 | 547.6 | 3.5392 | 14 | | | | | | | | | | | |
| | 0.5514 | 3.5369 | | | | | | | | 0.29086 | 0.5520 | 3.5389 | 582.7 | 44.9 | 3.5408 | 585.9 | 42.8 | 547.6 | 3.5392 | 15 | February. |
| | 0.5514 | 3.5363 | | | | | | | | | | | | | | | | | | | |
| 0.29132 | 0.5513 | 3.5380 | 582.1 | 45.6 | 3.5409 | 575.2 | 43.1 | 552.4 | 3.5437 | 17 | | | | | | | | | | | |
| | 0.5520 | 3.5389 | | | | | | | | 0.29041 | 0.5511 | 3.5400 | 569.3 | 47.0 | 3.5409 | 575.2 | 43.1 | 552.4 | 3.5437 | 14 | March. |
| | 0.5519 | 3.5401 | | | | | | | | | | | | | | | | | | | |
| 0.29016 | 0.5521 | 3.5397 | 581.1 | 39.2 | 3.5409 | 575.2 | 43.1 | 552.4 | 3.5437 | 15 | | | | | | | | | | | |
| | 0.5520 | 3.5399 | | | | | | | | 0.29016 | 0.5510 | 3.5413 | 581.1 | 39.2 | 3.5409 | 575.2 | 43.1 | 552.4 | 3.5437 | | |
| | 0.5518 | 3.5448 | | | | | | | | | | | | | | | | | | | |
| 0.28504 | 0.5519 | 3.5417 | 550.9 | 56.0 | 3.5387 | 554.5 | 55.8 | 559.1 | 3.5395 | 14 | | | | | | | | | | | |
| | 0.5519 | 3.5441 | | | | | | | | 0.28493 | 0.5453 | 3.5359 | 550.9 | 56.0 | 3.5387 | 554.5 | 55.8 | 559.1 | 3.5395 | 15 | April. |
| | 0.5518 | 3.5453 | | | | | | | | | | | | | | | | | | | |
| 0.28526 | 0.5510 | 3.5413 | 554.0 | 57.3 | 3.5387 | 554.5 | 55.8 | 559.1 | 3.5395 | 16 | | | | | | | | | | | |
| | 0.5508 | 3.5422 | | | | | | | | 0.28493 | 0.5449 | 3.5374 | 554.0 | 57.3 | 3.5387 | 554.5 | 55.8 | 559.1 | 3.5395 | | |
| | 0.5510 | 3.5414 | | | | | | | | | | | | | | | | | | | |
| 0.28462 | 0.5453 | 3.5359 | 558.6 | 54.1 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 14 | | | | | | | | | | | |
| | 0.5453 | 3.5362 | | | | | | | | 0.28526 | 0.5448 | 3.5416 | 558.6 | 54.1 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5449 | 3.5391 | | | | | | | | | | | | | | | | | | | |
| 0.28493 | 0.5449 | 3.5374 | 543.8 | 69.4 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 13 | | | | | | | | | | | |
| | 0.5448 | 3.5383 | | | | | | | | 0.28493 | 0.5442 | 3.5390 | 543.8 | 69.4 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5450 | 3.5374 | | | | | | | | | | | | | | | | | | | |
| 0.28526 | 0.5444 | 3.5410 | 546.4 | 66.4 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 14 | | | | | | | | | | | |
| | 0.5448 | 3.5416 | | | | | | | | 0.28493 | 0.5435 | 3.5458 | 546.4 | 66.4 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5451 | 3.5413 | | | | | | | | | | | | | | | | | | | |
| 0.28433 | 0.5450 | 3.5403 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 15 | | | | | | | | | | | |
| | 0.5449 | 3.5404 | | | | | | | | 0.28433 | 0.5435 | 3.5416 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5443 | 3.5382 | | | | | | | | | | | | | | | | | | | |
| 0.28493 | 0.5442 | 3.5390 | 546.4 | 66.4 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 14 | | | | | | | | | | | |
| | 0.5442 | 3.5390 | | | | | | | | 0.28433 | 0.5435 | 3.5416 | 546.4 | 66.4 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5442 | 3.5388 | | | | | | | | | | | | | | | | | | | |
| 0.28433 | 0.5436 | 3.5452 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 15 | | | | | | | | | | | |
| | 0.5439 | 3.5435 | | | | | | | | 0.28433 | 0.5429 | 3.5418 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5438 | 3.5441 | | | | | | | | | | | | | | | | | | | |
| 0.28433 | 0.5435 | 3.5458 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 15 | | | | | | | | | | | |
| | 0.5435 | 3.5416 | | | | | | | | 0.28433 | 0.5429 | 3.5418 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5436 | 3.5414 | | | | | | | | | | | | | | | | | | | |
| 0.28433 | 0.5429 | 3.5418 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | 15 | | | | | | | | | | | |
| | 0.5431 | 3.5443 | | | | | | | | 0.28433 | 0.5429 | 3.5418 | 556.4 | 57.2 | 3.5419 | 548.9 | 64.3 | 571.2 | 3.5411 | | |
| | 0.5431 | 3.5443 | | | | | | | | | | | | | | | | | | | |

Magnets employed I. 15 suspended 3.00 inches;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | | | | | | | |
|------------|--------------------------------|--|--|-----------------------|--------------------|------------------------------|--------------------------------|--|-----------------------|--------------------|------|------|---------|------|--------|-------|------|
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', u'', &c.</i> reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected and rate of Chronometer, also reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | | | | | | | |
| | | | | <i>k</i> = .000087 | <i>q</i> = .000234 | | | | <i>k</i> = .000087 | <i>q</i> = .000234 | | | | | | | |
| | | | Sc. Div. | Therm. | | | Seconds. | Sc. Div. | Therm. | | | | | | | | |
| 1845 | ° | Feet. | ° ' " | ° | ° | | ° | | ° | | | | | | | | |
| June. | 14 | 62.0 | 1.0 + 1/2 l | 11 34 31 | 552.5 | 68.8 | 9.18589 | 63.0 | 4.8489 | 566.3 | 69.2 | | | | | | |
| | | 61.7 | 1.1 ,, | 9 00 16 | 553.7 | 68.0 | 9.18634 | | | | | | | | | | |
| | | 62.0 | 1.2 ,, | 7 08 10 | 546.9 | 68.1 | 9.18606 | | | | | | | | | | |
| | | 62.0 | 1.3 ,, | 5 45 42 | 544.2 | 68.2 | 9.18646 | | | | | | | | | | |
| | | 59.4 | 1.0 ,, | 11 32 49 | 567.2 | 62.0 | 9.18479 | | | | | | | | | | |
| | | 59.6 | 1.1 ,, | 8 58 05 | 566.4 | 62.0 | 9.18526 | | | | | | | | | | |
| | 16 | 59.5 | 1.2 ,, | 7 07 04 | 566.3 | 62.1 | 9.18510 | 58.0 | 4.8501 | 558.5 | 61.5 | | | | | | |
| | | 60.2 | 1.3 ,, | 5 44 34 | 562.2 | 62.1 | 9.18500 | | | | | | | | | | |
| | | 58.3 | 1.0 ,, | 11 32 26 | 569.8 | 59.8 | 9.18455 | | | | | | | | | | |
| | 17 | 58.6 | 1.1 ,, | 8 58 14 | 570.9 | 59.8 | 9.18466 | 58.0 | 4.8486 | 579.6 | 61.5 | | | | | | |
| | | 58.6 | 1.2 ,, | 7 06 47 | 567.3 | 59.8 | 9.18460 | | | | | | | | | | |
| | | 58.6 | 1.3 ,, | 5 43 46 | 565.1 | 59.8 | 9.18397 | | | | | | | | | | |
| July. | 14 | 75.5 | 1.0 + 1/2 l | 11 31 42 | 532.3 | 83.1 | 9.18430 | 76.6 | 4.8553 | 535.9 | 85.6 | | | | | | |
| | | 75.4 | 1.1 ,, | 8 57 33 | 534.3 | 83.2 | 9.18433 | | | | | | | | | | |
| | | 75.5 | 1.2 ,, | 7 06 25 | 535.5 | 82.7 | 9.18447 | | | | | | | | | | |
| | 15 | 75.6 | 1.3 ,, | 5 43 43 | 532.3 | 82.7 | 9.18415 | 72.2 | 4.8631 | 524.5 | 81.0 | | | | | | |
| | | 73.6 | 1.0 ,, | 11 30 28 | 533.6 | 81.4 | 9.18362 | | | | | | | | | | |
| | | 73.8 | 1.3 ,, | 5 42 47 | 534.9 | 81.4 | 9.18204 | | | | | | | | | | |
| | 16 | 73.6 | 1.0 ,, | 11 29 43 | 524.0 | 79.8 | 9.18305 | 74.3 | 4.8654 | 525.6 | 81.6 | | | | | | |
| | | 73.8 | 1.3 ,, | 5 42 46 | 523.2 | 79.8 | 9.18204 | | | | | | | | | | |
| | | August. | 15 | 71.5 | 1.0 + 1/2 l | 11 29 44 | 564.6 | | | | | 73.8 | 9.18304 | 69.6 | 4.8671 | 560.2 | 73.5 |
| 71.5 | 1.3 ,, | | | 5 42 37 | 561.3 | 73.8 | 9.18271 | | | | | | | | | | |
| 16 | 69.5 | | 1.0 ,, | 11 27 59 | 554.7 | 72.9 | 9.18193 | 70.6 | 4.8722 | 558.2 | 75.4 | | | | | | |
| | 70.0 | | 1.1 ,, | 8 54 59 | 556.5 | 73.0 | 9.18220 | | | | | | | | | | |
| | 70.3 | | 1.2 ,, | 7 04 15 | 554.5 | 73.0 | 9.18219 | | | | | | | | | | |
| 18 | 70.3 | 1.3 ,, | 5 42 15 | 554.3 | 73.2 | 9.18221 | 70.4 | 4.8750 | 542.9 | 74.2 | | | | | | | |
| | 74.1 | 1.0 ,, | 11 27 45 | 557.7 | 77.4 | 9.18183 | | | | | | | | | | | |
| 74.2 | 1.3 ,, | 5 41 53 | 559.5 | 77.4 | 9.18182 | | | | | | | | | | | | |
| September. | 16 | 60.0 | 1.0 + 1/2 l | 11 15 49 | 578.2 | 62.3 | 9.17415 | 60.0 | 4.9172 | 577.3 | 63.0 | | | | | | |
| | | 60.0 | 1.1 ,, | 8 45 11 | 580.1 | 62.4 | 9.17411 | | | | | | | | | | |
| | | 60.0 | 1.2 ,, | 6 56 34 | 587.0 | 62.1 | 9.17414 | | | | | | | | | | |
| | | 60.0 | 1.3 ,, | 5 35 51 | 579.7 | 61.7 | 9.17410 | | | | | | | | | | |
| | | 60.2 | 1.0 ,, | 11 15 27 | 580.0 | 60.4 | 9.17392 | | | | | | | | | | |
| | | 60.1 | 1.1 ,, | 8 45 08 | 578.8 | 60.8 | 9.17406 | | | | | | | | | | |
| | 17 | 60.3 | 1.2 ,, | 6 56 49 | 588.2 | 60.5 | 9.17441 | 58.0 | 4.9179 | 571.4 | 58.1 | | | | | | |
| | | 60.0 | 1.3 ,, | 5 35 53 | 582.0 | 60.0 | 9.17395 | | | | | | | | | | |
| | | 64.4 | 1.0 ,, | 11 15 37 | 560.8 | 65.6 | 9.17408 | | | | | | | | | | |
| | 18 | 64.8 | 1.3 ,, | 5 36 09 | 562.8 | 65.6 | 9.17436 | 62.4 | 4.9199 | 555.9 | 63.3 | | | | | | |
| | | October. | 14 | 55.3 | 1.0 + 1/2 l | 11 21 20 | 586.7 | | | | | 57.6 | 9.17747 | 54.0 | 4.9027 | 579.4 | 56.8 |
| | | | | 55.0 | 1.1 ,, | 8 49 38 | 588.5 | | | | | 57.6 | 9.17767 | | | | |
| 15 | 54.0 | | 1.2 ,, | 6 59 48 | 589.8 | 57.6 | 9.17743 | 50.5 | 4.9047 | 583.0 | 53.8 | | | | | | |
| | 53.3 | | 1.3 ,, | 5 38 19 | 591.5 | 57.6 | 9.17701 | | | | | | | | | | |
| | 50.8 | | 1.0 ,, | 11 19 50 | 592.2 | 54.0 | 9.17657 | | | | | | | | | | |
| 16 | 50.8 | 1.3 ,, | 5 38 01 | 593.1 | 54.0 | 9.17658 | 50.4 | 4.9037 | 600.9 | 54.0 | | | | | | | |
| | 46.3 | 1.0 ,, | 11 19 45 | 594.1 | 52.2 | 9.17647 | | | | | | | | | | | |
| 47.8 | 1.3 ,, | 5 38 03 | 594.5 | 52.2 | 9.17660 | | | | | | | | | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | | | | | | | |
|------------|---------------------------|----------|-------|-------------------------------------|--------------|-------------|----------|----------------|----------------|--------|-------------|-------|-------|--------|--------|------------|----------|
| | Log. Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X | | | | | | |
| | | | | Mean reading on day of observation. | Temperature. | | Sc. Div. | Temperature. | | | | | | | | | |
| | | | | | | | | | | 1845 | | | | | | | |
| 0.28454 | 0.5436 | 3.5427 | 554.9 | 66.3 | 3.5452 | 563.1 | 62.7 | 587.5 | 3.5463 | 14 | June. | | | | | | |
| | 0.5439 | 3.5409 | | | | | | | | | | | | | | | |
| | 0.5437 | 3.5419 | | | | | | | | | | | | | | | |
| | 0.5439 | 3.5403 | | | | | | | | | | | | | | | |
| 0.28433 | 0.5428 | 3.5463 | 567.0 | 60.7 | | | | | | | | | | | | | |
| | 0.5429 | 3.5448 | | | | | | | | | | | | | | | |
| | 0.5430 | 3.5450 | | | | | | | | | | | | | | | |
| | 0.5429 | 3.5454 | | | | | | | | | | | | | | | |
| 0.28459 | 0.5428 | 3.5485 | 567.3 | 61.1 | | | | | | | | | | | | | |
| | 0.5429 | 3.5479 | | | | | | | | | | | | | | | |
| | 0.5428 | 3.5481 | | | | | | | | | | | | | | | |
| | 0.5424 | 3.5507 | | | | | | | | | | | | | | | |
| 0.28339 | 0.5418 | 3.5445 | 534.7 | 82.7 | 3.5436 | 535.4 | 81.5 | 595.8 | 3.5403 | 14 | July. | | | | | | |
| | 0.5419 | 3.5443 | | | | | | | | | | | | | | | |
| | 0.5420 | 3.5437 | | | | | | | | | | | | | | | |
| | 0.5418 | 3.5451 | | | | | | | | | | | | | | | |
| 0.28201 | 0.5405 | 3.5416 | 534.2 | 80.6 | | | | | | | | | | | | | |
| | 0.5402 | 3.5444 | | | | | | | | | | | | | | | |
| 0.28159 | 0.5402 | 3.5423 | 537.3 | 81.3 | | | | | | | | | | | | | |
| | 0.5402 | 3.5427 | | | | | | | | | | | | | | | |
| 0.28128 | 0.5398 | 3.5411 | 556.5 | 71.3 | | | | | | 3.5408 | | 553.2 | 73.6 | 602.3 | 3.5405 | 15 | August. |
| | 0.5396 | 3.5424 | | | | | | | | | | | | | | | |
| | 0.5385 | 3.5415 | | | | | | | | | | | | | | | |
| | 0.5387 | 3.5404 | | | | | | | | | | | | | | | |
| 0.28028 | 0.5387 | 3.5404 | 553.2 | 73.7 | | | | | | | | | | | | | |
| | 0.5387 | 3.5403 | | | | | | | | | | | | | | | |
| 0.27987 | 0.5381 | 3.5402 | 549.9 | 75.7 | | | | | | | | | | | | | |
| | 0.5381 | 3.5403 | | | | | | | | | | | | | | | |
| 0.27240 | 0.5289 | 3.5416 | 579.7 | 61.2 | 3.5403 | 573.1 | 62.6 | 593.0 | 3.5402 | | 16 | | | | | September. | |
| | 0.5289 | 3.5417 | | | | | | | | | | | | | | | |
| | 0.5289 | 3.5415 | | | | | | | | | | | | | | | |
| | 0.5282 | 3.5425 | | | | | | | | | | | | | | | |
| 0.27226 | 0.5284 | 3.5403 | 573.0 | 61.1 | | | | | | | | | | | | | |
| | 0.5285 | 3.5397 | | | | | | | | | | | | | | | |
| 0.27170 | 0.5288 | 3.5382 | 573.0 | 61.1 | | | | | | | | | | | | | |
| | 0.5291 | 3.5401 | | | | | | | | | | | | | | | |
| 0.27192 | 0.5285 | 3.5394 | 566.7 | 65.4 | | | | | | | | | | | | | |
| | 0.5287 | 3.5382 | | | | | | | | | | | | | | | |
| 0.27495 | 0.5324 | 3.5379 | 590.0 | 56.4 | | | | | | 3.5398 | 593.2 | 53.7 | 594.2 | 3.5412 | 14 | | October. |
| | 0.5326 | 3.5371 | | | | | | | | | | | | | | | |
| | 0.5325 | 3.5381 | | | | | | | | | | | | | | | |
| | 0.5322 | 3.5398 | | | | | | | | | | | | | | | |
| 0.27461 | 0.5318 | 3.5406 | 594.7 | 52.6 | | | | | | | | | | | | | |
| | 0.5318 | 3.5405 | | | | | | | | | | | | | | | |
| 0.27478 | 0.5318 | 3.5405 | 594.9 | 52.0 | | | | | | | | | | | | | |
| | 0.5320 | 3.5425 | | | | | | | | | | | | | | | |
| 0.27508 | 0.5321 | 3.5420 | 594.9 | 52.0 | | | | | | | | | | | | | |
| | 0.5321 | 3.5420 | | | | | | | | | | | | | | | |

Magnets employed I. 15 suspended 3.00 inches ;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
|-----------|--------------------------------|-----------------------------------|--|-----------------------|---------------|------------------------------|--------------------------------|---|-----------------------|---------------|------|
| | Tem- perature of Magnet. | Distances. $r, r_1, r_2, \&c.$ | Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | $k = .000087$ | $q = .000234$ | | | | $k = .000087$ | $q = .000234$ | |
| | | | Sc. Div. | Therm. | | | Seconds. | Sc. Div. | Therm. | | |
| 1845 | | Fret. | ° ' " | ° | ° | | | | | | |
| November. | 13 | 47.8 | 1.0 + 1/2 l | 11 19 13 | 595.2 | 54.0 | 9.17621 | 48.8 | 4.9053 | 603.7 | 54.8 |
| | | 48.0 | 1.3 ,, | 5 37 25 | 594.8 | 54.0 | 9.17574 | | | | |
| | 14 | 47.8 | 1.0 ,, | 11 17 09 | 592.0 | 54.1 | 9.17489 | 48.0 | 4.9118 | 603.8 | 55.1 |
| | | 48.0 | 1.3 ,, | 5 36 42 | 590.8 | 54.2 | 9.17492 | | | | |
| | 15 | 46.2 | 1.0 ,, | 11 17 29 | 586.8 | 54.2 | 9.17513 | 46.4 | 4.9141 | 594.3 | 54.6 |
| | | 46.0 | 1.3 ,, | 5 37 07 | 586.0 | 54.5 | 9.17547 | | | | |
| December. | 15 | 38.8 | 1.0 + 1/2 l | 11 09 29 | 596.7 | 45.5 | 9.16985 | 36.5 | 4.9427 | 601.6 | 45.3 |
| | | 37.8 | 1.3 ,, | 5 32 55 | 587.7 | 45.5 | 9.17005 | | | | |
| | 16 | 48.2 | 1.0 ,, | 11 08 24 | 598.8 | 45.4 | 9.16927 | 53.0 | 4.9488 | 607.4 | 46.3 |
| | | 59.3 | 1.3 ,, | 5 33 00 | 598.8 | 45.0 | 9.17021 | | | | |
| | 17 | 48.4 | 1.0 ,, | 10 45 42 | 603.2 | 45.9 | 9.15450 | 51.8 | 5.0321 | 602.9 | 46.5 |
| | | 48.7 | 1.1 ,, | 8 21 26 | 602.6 | 45.8 | 9.15405 | | | | |
| | 18 | 49.0 | 1.3 ,, | 5 20 50 | 601.5 | 45.9 | 9.15398 | 38.8 | 5.0171 | 597.1 | 49.6 |
| | | 39.8 | 1.0 ,, | 10 45 16 | 597.3 | 49.5 | 9.15431 | | | | |
| 39.8 | 1.2 ,, | 6 38 14 | 595.0 | 49.4 | 9.15468 | | | | | | |
| 1846 | | | | | | | | | | | |
| January. | 14 | 65.8 | 1.0 + 1/2 l | 10 50 52 | 606.1 | 44.4 | 9.15809 | 68.0 | 4.9980 | 607.4 | 42.5 |
| | | 64.7 | 1.1 ,, | 8 25 44 | 606.7 | 44.9 | 9.15779 | | | | |
| | 15 | 65.3 | 1.3 ,, | 5 23 16 | 606.8 | 44.2 | 9.15745 | 57.0 | 5.0187 | 601.3 | 47.9 |
| | | 56.2 | 1.0 ,, | 10 48 32 | 613.1 | 48.3 | 9.15643 | | | | |
| | 16 | 59.1 | 1.2 ,, | 6 39 50 | 612.5 | 48.3 | 9.15644 | 50.7 | 5.0160 | 610.7 | 50.5 |
| | | 59.2 | 1.3 ,, | 5 22 51 | 612.5 | 48.2 | 9.15681 | | | | |
| | 17 | 47.2 | 1.3 ,, | 5 22 58 | 609.1 | 39.0 | 9.15614 | 37.2 | 5.0227 | 601.2 | 49.0 |
| | | 44.5 | 1.0 ,, | 10 49 54 | 603.5 | 39.0 | 9.15718 | | | | |
| 22 | 45.0 | 1.1 ,, | 8 24 35 | 605.0 | 39.0 | 9.15666 | 51.4 | 5.0204 | 609.9 | 38.0 | |
| | 49.5 | 1.0 ,, | 10 48 22 | 617.3 | 37.1 | 9.15623 | | | | | |
| February. | 14 | 57.9 | 1.0 + 1/2 l | 10 52 06 | 614.5 | 45.8 | 9.15883 | 63.0 | 5.0149 | 608.0 | 43.4 |
| | | 55.6 | 1.1 ,, | 8 27 27 | 611.6 | 45.9 | 9.15909 | | | | |
| | 16 | 53.2 | 1.2 ,, | 6 42 43 | 612.4 | 46.4 | 9.15946 | 54.0 | 5.0142 | 615.4 | 47.5 |
| | | 54.9 | 1.3 ,, | 5 24 10 | 608.6 | 45.7 | 9.15852 | | | | |
| | 17 | 58.2 | 1.0 ,, | 10 51 47 | 604.0 | 44.6 | 9.15858 | 44.0 | 5.0145 | 613.2 | 43.7 |
| | | 58.3 | 1.1 ,, | 8 26 02 | 607.0 | 44.5 | 9.15808 | | | | |
| | 17 | 57.0 | 1.2 ,, | 6 41 53 | 608.6 | 45.0 | 9.15861 | 53.5 | 5.0162 | 605.6 | 44.5 |
| | | 59.0 | 1.0 ,, | 10 50 44 | 605.6 | 47.2 | 9.15791 | | | | |
| 59.9 | 1.1 ,, | 8 25 34 | 605.0 | 47.0 | 9.15770 | 52.0 | 5.0171 | 605.1 | 46.2 | | |
| March. | 14 | 41.8 | 1.0 + 1/2 l | 10 43 22 | 583.8 | 54.1 | 9.15281 | 41.8 | 5.0514 | 564.4 | 54.0 |
| | | 41.7 | 1.1 ,, | 8 20 22 | 577.1 | 54.1 | 9.15269 | | | | |
| | 16 | 42.7 | 1.0 ,, | 10 43 42 | 588.7 | 47.2 | 9.15304 | 42.2 | 5.0483 | 592.0 | 54.4 |
| | | 46.1 | 1.1 ,, | 8 20 22 | 585.4 | 47.1 | 9.15277 | | | | |
| | 17 | 46.8 | 1.2 ,, | 6 36 55 | 582.4 | 47.0 | 9.15310 | 35.0 | 5.0463 | 594.3 | 46.1 |
| | | 55.0 | 1.0 ,, | 10 38 57 | 590.3 | 45.3 | 9.15002 | | | | |
| | 18 | 55.6 | 1.1 ,, | 8 16 44 | 586.3 | 45.2 | 9.15003 | 48.0 | 5.0444 | 602.1 | 47.9 |
| | | 55.3 | 1.3 ,, | 5 17 47 | 589.9 | 45.0 | 9.14992 | | | | |
| 18 | 54.0 | 1.0 ,, | 10 38 36 | 590.2 | 48.4 | 9.14977 | 40.0 | 5.0438 | 594.9 | 43.4 | |
| | 53.0 | 1.1 ,, | 8 16 51 | 589.3 | 48.5 | 9.15011 | | | | | |
| April. | 15 | 67.8 | 1.0 + 1/2 l | 10 34 37 | 589.2 | 49.5 | 9.14704 | 58.5 | 5.0623 | 607.7 | 47.4 |
| | | 67.9 | 1.1 ,, | 8 13 34 | 586.4 | 49.6 | 9.14722 | | | | |
| | 17 | 62.0 | 1.0 ,, | 10 34 24 | 579.9 | 55.0 | 9.14696 | 42.0 | 5.0806 | 599.7 | 50.1 |
| | | 62.7 | 1.1 ,, | 8 13 18 | 580.6 | 55.3 | 9.14704 | | | | |
| | 18 | 63.2 | 1.2 ,, | 6 31 26 | 582.3 | 55.4 | 9.14719 | 35.0 | 5.0463 | 594.3 | 46.1 |
| | | 49.4 | 1.0 ,, | 10 34 54 | 570.7 | 56.1 | 9.14730 | | | | |
| | 49.5 | 1.2 ,, | 6 31 44 | 569.1 | 56.1 | 9.14755 | 48.0 | 5.0444 | 602.1 | 47.9 | |
| | | | | | | | | 40.0 | 5.0438 | 594.9 | 43.4 |
| | | | | | | | 52.0 | 5.0173 | 598.5 | 47.7 | |
| | | | | | | | 62.0 | 5.0173 | 598.5 | 47.7 | |
| | | | | | | | 41.8 | 5.0514 | 564.4 | 54.0 | |
| | | | | | | | 42.2 | 5.0483 | 592.0 | 54.4 | |
| | | | | | | | 35.0 | 5.0463 | 594.3 | 46.1 | |
| | | | | | | | 48.0 | 5.0444 | 602.1 | 47.9 | |
| | | | | | | | 40.0 | 5.0438 | 594.9 | 43.4 | |
| | | | | | | | 58.5 | 5.0623 | 607.7 | 47.4 | |
| | | | | | | | 44.6 | 5.0601 | 588.1 | 47.2 | |
| | | | | | | | 50.0 | 5.0604 | 606.2 | 51.6 | |
| | | | | | | | 61.2 | 5.0785 | 589.6 | 49.5 | |
| | | | | | | | 60.3 | 5.0806 | 599.7 | 50.1 | |
| | | | | | | | 52.0 | 5.0791 | 580.8 | 53.0 | |
| | | | | | | | 61.5 | 5.0812 | 605.1 | 56.8 | |
| | | | | | | | 47.5 | 5.0828 | 570.8 | 55.4 | |
| | | | | | | | 49.8 | 5.0820 | 579.1 | 56.6 | |

| I. 18 Deflecting 3.67 inches. | | | | | | | | | | | | | | | | |
|-------------------------------|------------------------------|----------|-------|--|-------------------|-------------|----------|-------------------|-------------------|-----------|----------------|--|--|--|--|----|
| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | | | | | | |
| | Log. Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X | | | | | |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | | | | | | |
| | | | | | | | | | | 1845 | | | | | | |
| 0.27450 | 0.5314 | 3.5412 | 600.1 | 54.0 | 3.5394 | 599.2 | 53.8 | 588.0 | 3.5370 | 13 | | | | | | |
| | 0.5312 | 3.5427 | | | | | | | | | | | | | | 14 |
| 0.27235 | 0.5293 | 3.5378 | | | | | | | | 598.8 | 54.2 | | | | | 15 |
| | 0.5298 | 3.5376 | | | | | | | | November. | | | | | | |
| 0.27294 | 0.5298 | 3.5393 | 598.7 | 53.3 | | | | | | | | | | | | |
| | 0.5300 | 3.5379 | | | | | | | | | | | | | | |
| 0.26790 | 0.5235 | 3.5403 | 607.4 | 43.9 | | | | | | 15 | | | | | | |
| | 0.5237 | 3.5396 | | | | | | | | December. | | | | | | |
| 0.26624 | 0.5226 | 3.5383 | 607.9 | 45.2 | 3.5415 | 606.9 | 46.1 | 578.5 | 3.5401 | | 16 | | | | | |
| | 0.5231 | 3.5345 | | | | | | | | | | | | | | |
| 0.25223 | 0.5052 | 3.5389 | 607.3 | 47.9 | | | | | | | | | | | | |
| | 0.5049 | 3.5407 | | | | | | | | December. | | | | | | |
| 0.25493 | 0.5049 | 3.5410 | 604.9 | 47.5 | | | | | | | | | | | | |
| | 0.5066 | 3.5057 | | | | | | | | | | | | | | |
| | 0.5068 | 3.5492 | | | | | | | | 18 | | | | | | |
| 0.25823 | 0.5096 | 3.5413 | 609.3 | 45.7 | | | | | | 14 | | | | | | |
| | 0.5094 | 3.5425 | | | | | | | | January. | | | | | | |
| 0.25457 | 0.5092 | 3.5439 | 611.7 | 49.5 | 3.5411 | 615.7 | 42.3 | 584.4 | 3.5419 | | 15 | | | | | |
| 0.25554 | 0.5080 | 3.5435 | | | | | | | | | | | | | | |
| | 0.5080 | 3.5435 | | | | | | | | | | | | | | |
| 0.25502 | 0.5083 | 3.5419 | 616.7 | 36.5 | | | | | | 16 | | | | | | |
| | 0.5074 | 3.5405 | | | | | | | | January. | | | | | | |
| 0.25378 | 0.5080 | 3.5363 | 616.7 | 36.5 | | | | | | | | | | | | |
| 0.25426 | 0.5077 | 3.5384 | 625.0 | 37.5 | | | | | | | | | | | | |
| | 0.5072 | 3.5390 | | | | | | | | 22 | | | | | | |
| 0.25628 | 0.5099 | 3.5359 | 609.7 | 44.5 | | | | | | 14 | | | | | | |
| | 0.5099 | 3.5347 | | | | | | | | February. | | | | | | |
| 0.25535 | 0.5102 | 3.5333 | 609.0 | 44.0 | 3.5346 | 609.5 | 44.8 | 580.7 | 3.5341 | | 16 | | | | | |
| | 0.5096 | 3.5371 | | | | | | | | | | | | | | |
| 0.25424 | 0.5089 | 3.5321 | 609.9 | 45.8 | | | | | | | | | | | | |
| | 0.5086 | 3.5341 | | | | | | | | February. | | | | | | |
| 0.25462 | 0.5090 | 3.5318 | 609.9 | 45.8 | | | | | | | | | | | | |
| | 0.5087 | 3.5359 | | | | | | | | | | | | | | |
| 0.25484 | 0.5086 | 3.5366 | 588.2 | 51.7 | | | | | | 14 | | | | | | |
| | 0.5025 | 3.5331 | | | | | | | | March. | | | | | | |
| 0.24856 | 0.5024 | 3.5336 | 598.2 | 46.8 | 3.5377 | 595.0 | 48.9 | 588.4 | 3.5406 | | 16 | | | | | |
| 0.24939 | 0.5031 | 3.5356 | | | | | | | | | | | | | | |
| 0.24978 | 0.5029 | 3.5366 | 594.3 | 46.6 | | | | | | | | | | | | |
| | 0.5031 | 3.5343 | | | | | | | | March. | | | | | | |
| 0.25009 | 0.5005 | 3.5426 | 594.3 | 46.6 | | | | | | | | | | | | |
| | 0.5005 | 3.5420 | | | | | | | | | | | | | | |
| 0.24712 | 0.5005 | 3.5433 | 599.3 | 50.6 | | | | | | 17 | | | | | | |
| | 0.4996 | 3.5385 | | | | | | | | April. | | | | | | |
| 0.24738 | 0.4998 | 3.5372 | 592.4 | 54.9 | 3.5357 | 591.6 | 52.7 | 591.8 | 3.5376 | | 18 | | | | | |
| 0.24743 | 0.4962 | 3.5363 | | | | | | | | | | | | | | |
| 0.24432 | 0.4963 | 3.5356 | 594.8 | 49.8 | | | | | | | | | | | | |
| | 0.4961 | 3.5373 | | | | | | | | April. | | | | | | |
| 0.24395 | 0.4961 | 3.5362 | 587.6 | 53.5 | | | | | | | | | | | | |
| 0.24417 | 0.4961 | 3.5399 | | | | | | | | | | | | | | |
| | 0.4962 | 3.5353 | | | | | | | | April. | | | | | | |
| 0.24386 | 0.4960 | 3.5331 | 592.4 | 54.9 | | | | | | | | | | | | |
| 0.24351 | 0.4962 | 3.5320 | 587.6 | 53.5 | | | | | | | | | | | | |
| 0.24367 | 0.4962 | 3.5320 | | | | | | | | 81 | | | | | | |

| Magnets employed I. 15 suspended 3.00 inches ; | | | | | | | | | | | |
|--|--------------------------------|-----------------------------------|--|-----------------------|---------------|--------------------------------|--------------------------------|---|-----------------------|---------------|------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
| | Tem- perature of Magnet. | Distances. $r, r_1, r_2, \&c.$ | Angles. $u, u_1, u_2, \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observations. | Bifilar Magnetometer. | | Log Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | $k = .000087$ | $q = .000234$ | | | | $k = .000087$ | $q = .000234$ | |
| | | | | Sc. Div. | Therm. | | | Sc. Div. | Therm. | | |
| 1846 | | Feet. | ° ' " | ° | ° | | Seconds. | ° | ° | | |
| May. | 13 | 56.8 | 1.0 + $\frac{1}{2} l$ | 10 33 57 | 574.0 | 59.6 | 9.14666 | 49.5 | 5.0817 | 567.6 | 57.8 |
| | | 57.0 | 1.1 ,, | 8 12 54 | 572.3 | 59.7 | 9.14672 | 57.1 | 5.0834 | 598.4 | 62.9 |
| | 57.1 | 1.2 ,, | 6 30 56 | 571.3 | 59.7 | 9.14667 | | | | | |
| | 14 | 59.5 | 1.0 ,, | 10 34 07 | 563.0 | 65.5 | 9.14682 | 55.5 | 5.0839 | 553.1 | 63.7 |
| | | 59.3 | 1.1 ,, | 8 13 15 | 556.8 | 65.5 | 9.14705 | 58.5 | 5.0842 | 583.6 | 66.8 |
| | | 59.3 | 1.2 ,, | 6 30 58 | 558.8 | 65.6 | 9.14674 | | | | |
| 58.5 | | 1.0 ,, | 10 33 58 | 574.8 | 63.2 | 9.14671 | 51.2 | 5.0827 | 568.0 | 61.5 | |
| 16 | 58.5 | 1.2 ,, | 6 30 56 | 574.4 | 63.2 | 9.14668 | 56.8 | 5.0828 | 589.0 | 64.8 | |
| | | | | | | | | | | | |
| June. | 16 | 65.5 | 1.0 + $\frac{1}{2} l$ | 10 31 44 | 567.3 | 71.3 | 9.14528 | 61.5 | 5.0861 | 561.6 | 71.0 |
| | | 65.7 | 1.2 ,, | 6 29 44 | 569.2 | 71.3 | 9.14544 | 63.0 | 5.0847 | 575.4 | 71.5 |
| | 17 | 64.8 | 1.0 ,, | 10 32 08 | 563.0 | 70.3 | 9.14555 | 61.1 | 5.0854 | 563.4 | 69.5 |
| | | 65.3 | 1.2 ,, | 6 29 33 | 559.6 | 70.4 | 9.14525 | 63.6 | 5.0859 | 587.1 | 72.5 |
| | 18 | 67.0 | 1.0 ,, | 10 31 27 | 571.1 | 72.0 | 9.14511 | 62.5 | 5.0854 | 569.5 | 71.2 |
| | | 66.6 | 1.2 ,, | 6 29 11 | 570.3 | 72.0 | 9.14485 | 64.9 | 5.0864 | 577.2 | 73.9 |
| July. | 14 | 65.6 | 1.0 + $\frac{1}{2} l$ | 10 30 34 | 572.2 | 70.7 | 9.14448 | 60.9 | 5.0907 | 563.6 | 70.7 |
| | | 65.6 | 1.2 ,, | 6 28 53 | 573.5 | 70.7 | 9.14448 | 64.0 | 5.0914 | 589.3 | 70.7 |
| | 15 | 63.3 | 1.0 ,, | 10 31 03 | 580.4 | 66.7 | 9.14479 | 60.9 | 5.0936 | 569.4 | 66.3 |
| | | 63.8 | 1.2 ,, | 6 29 14 | 578.3 | 66.7 | 9.14486 | 62.4 | 5.0907 | 585.4 | 67.0 |
| | 16 | 65.4 | 1.0 ,, | 10 28 58 | 580.1 | 66.4 | 9.14340 | 62.7 | 5.0936 | 566.5 | 66.0 |
| | | 65.7 | 1.2 ,, | 6 29 20 | 578.5 | 66.4 | 9.14500 | 64.6 | 5.0899 | 587.1 | 67.2 |
| August. | 13 | 75.0 | 1.0 + $\frac{1}{2} l$ | 10 29 33 | 566.5 | 77.7 | 9.14392 | 70.7 | 5.1016 | 546.0 | 75.9 |
| | | 75.4 | 1.1 ,, | 8 09 10 | 567.3 | 77.7 | 9.14368 | 73.2 | 5.1016 | 591.0 | 78.5 |
| | 75.6 | 1.2 ,, | 6 28 11 | 565.5 | 77.7 | 9.14385 | | | | | |
| | 14 | 73.7 | 1.0 ,, | 10 29 20 | 559.3 | 77.2 | 9.14375 | 70.6 | 5.1034 | 535.0 | 76.8 |
| | | 73.9 | 1.1 ,, | 8 09 11 | 563.3 | 77.3 | 9.14366 | 72.7 | 5.1026 | 560.5 | 78.2 |
| | 74.1 | 1.2 ,, | 6 27 57 | 566.2 | 77.3 | 9.14356 | | | | | |
| 15 | 74.1 | 1.0 ,, | 10 29 47 | 556.7 | 77.4 | 9.14405 | 70.3 | 5.1029 | 554.4 | 76.3 | |
| | 74.5 | 1.1 ,, | 8 09 26 | 554.9 | 77.3 | 9.14388 | 73.0 | 5.1051 | 583.2 | 79.6 | |
| 74.5 | 1.2 ,, | 6 28 12 | 555.6 | 77.3 | 9.14384 | | | | | | |
| September. | 14 | 75.7 | 1.0 + $\frac{1}{2} l$ | 10 27 22 | 554.0 | 77.9 | 9.14243 | 72.0 | 5.1141 | 550.4 | 76.2 |
| | | 75.8 | 1.1 ,, | 8 07 52 | 551.8 | 77.9 | 9.14252 | 75.0 | 5.1148 | 575.9 | 79.9 |
| | 76.0 | 1.2 ,, | 6 26 53 | 550.4 | 77.8 | 9.14242 | | | | | |
| | 15 | 66.3 | 1.0 ,, | 10 27 08 | 566.7 | 72.5 | 9.14215 | 66.8 | 5.1120 | 559.0 | 73.0 |
| | | 66.4 | 1.1 ,, | 8 07 42 | 566.0 | 72.4 | 9.14226 | 65.1 | 5.1104 | 588.3 | 72.3 |
| | 66.5 | 1.2 ,, | 6 27 11 | 566.0 | 72.4 | 9.14262 | | | | | |
| 16 | 66.1 | 1.0 ,, | 10 27 22 | 585.5 | 68.1 | 9.14231 | 63.9 | 5.1114 | 583.4 | 67.8 | |
| | 66.3 | 1.1 ,, | 8 07 39 | 585.0 | 68.2 | 9.14222 | 65.1 | 5.1106 | 593.7 | 68.7 | |
| 66.4 | 1.2 ,, | 6 26 55 | 586.2 | 68.2 | 9.14232 | | | | | | |
| October. | 12 | 59.9 | 1.0 + $\frac{1}{2} l$ | 10 26 36 | 590.3 | 60.9 | 9.14171 | 55.6 | 5.1160 | 596.3 | 59.8 |
| | | 60.3 | 1.1 ,, | 8 06 54 | 594.0 | 60.9 | 9.14148 | | | | |
| | 13 | 60.4 | 1.2 ,, | 6 26 29 | 591.1 | 60.9 | 9.14177 | 58.5 | 5.1180 | 596.4 | 63.2 |
| | | 58.2 | 1.0 ,, | 10 27 08 | 587.0 | 60.7 | 9.14205 | 56.6 | 5.1179 | 584.6 | 60.7 |
| | 14 | 58.7 | 1.1 ,, | 8 07 26 | 588.7 | 60.7 | 9.14192 | 55.2 | 5.1159 | 601.4 | 59.0 |
| | | 58.9 | 1.2 ,, | 6 26 40 | 588.7 | 60.7 | 9.14195 | | | | |
| 14 | 55.3 | 1.0 ,, | 10 26 29 | 601.1 | 57.8 | 9.14157 | 52.2 | 5.1158 | 597.5 | 57.1 | |
| | 55.8 | 1.1 ,, | 8 06 58 | 601.1 | 57.9 | 9.14147 | 53.3 | 5.1168 | 606.8 | 58.6 | |
| 56.0 | 1.2 ,, | 6 26 15 | 599.9 | 58.0 | 9.14144 | | | | | | |

| I. 18 Deflecting 3.67 inches. | | | | | | | | | | | | | | | |
|-------------------------------|----------|----------|--|-------------------|-------------|----------|-------------------|-------------------|----------------|--------|-------|------|-------|--------|----|
| Vibration. | | Results. | | | Means. | | | Monthly Means. | | Date. | | | | | |
| Log Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | Values of X | | | | | | |
| | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | | | | | | |
| | | | | | | | | | | 1846 | | | | | |
| 0.24371 | 0.4954 | 3.5357 | 577.9 | 61.4 | 3.5349 | 576.7 | 63.4 | 602.1 | 3.5357 | 13 | | | | | |
| | 0.4957 | 3.5354 | | | | | | | | | | | | | |
| 0.24346 | 0.4957 | 3.5356 | | | | | | | | | | | | | |
| 0.24337 | 0.4956 | 3.5340 | 570.7 | 65.2 | | | | | | | | | | | |
| | 0.4957 | 3.5330 | | | | | | | | | | | | | |
| 0.24333 | 0.4955 | 3.5344 | | | | | | | | | | | | | |
| 0.24356 | 0.4956 | 3.5354 | 581.6 | 63.6 | | | | | | | | | | | |
| | 0.4956 | 3.5354 | | | | | | | | | | | | | |
| 0.24315 | 0.4945 | 3.5395 | 577.8 | 70.4 | | | | | | | | | | | |
| 0.24315 | 0.4946 | 3.5389 | | | | | | | | | | | | | |
| 0.24310 | 0.4947 | 3.5382 | 574.6 | 71.5 | 3.5395 | 574.3 | 71.6 | 613.5 | 3.5379 | 16 | | | | | |
| 0.24310 | 0.4945 | 3.5395 | | | | | | | | | | | | | |
| 0.24307 | 0.4944 | 3.5399 | | | | | | | | | | | | | |
| 0.24307 | 0.4942 | 3.5409 | 570.6 | 72.8 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 0.24218 | 0.4935 | 3.5388 | 578.9 | 69.0 | | | | | | | | | | | |
| | 0.4935 | 3.5388 | | | | | | | | | | | | | |
| 0.24199 | 0.4936 | 3.5368 | 584.6 | 66.3 | | | | | | 3.5383 | 582.1 | 67.2 | 622.8 | 3.5407 | 15 |
| | 0.4937 | 3.5365 | | | | | | | | | | | | | |
| 0.24208 | 0.4929 | 3.5428 | 582.7 | 66.4 | | | | | | | | | | | |
| | 0.4938 | 3.5363 | | | | | | | | | | | | | |
| 0.24045 | 0.4922 | 3.5340 | 563.6 | 77.0 | | | | | | | | | | | |
| | 0.4921 | 3.5350 | | | | | | | | | | | | | |
| | 0.4922 | 3.5343 | | | | | | | | | | | | | |
| 0.24020 | 0.4920 | 3.5337 | 562.5 | 76.8 | 3.5336 | 563.4 | 76.7 | 624.5 | 3.5344 | | | | | | 14 |
| | 0.4919 | 3.5341 | | | | | | | | | | | | | |
| | 0.4919 | 3.5346 | | | | | | | | | | | | | |
| 0.24004 | 0.4921 | 3.5318 | 564.2 | 76.4 | | | | | | | | | | | |
| | 0.4920 | 3.5325 | | | | | | | | | | | | | |
| | 0.4920 | 3.5327 | | | | | | | | | | | | | |
| 0.23827 | 0.4901 | 3.5313 | 564.7 | 77.6 | | | | | | | | | | | |
| | 0.4901 | 3.5309 | | | | | | | | | | | | | |
| | 0.4901 | 3.5313 | | | | | | | | | | | | | |
| 0.23872 | 0.4902 | 3.5343 | 579.8 | 71.0 | | | | | | 3.5329 | 577.7 | 72.1 | 621.2 | 3.5322 | 15 |
| | 0.4903 | 3.5338 | | | | | | | | | | | | | |
| | 0.4905 | 3.5323 | | | | | | | | | | | | | |
| 0.23880 | 0.4904 | 3.5339 | 588.6 | 67.6 | | | | | | | | | | | |
| | 0.4903 | 3.5343 | | | | | | | | | | | | | |
| | 0.4904 | 3.5339 | | | | | | | | | | | | | |
| 0.23774 | 0.4895 | 3.5320 | 597.3 | 61.5 | | | | | | | | | | | |
| | 0.4894 | 3.5329 | | | | | | | | | | | | | |
| | 0.4895 | 3.5318 | | | | | | | | | | | | | |
| 0.23775 | 0.4897 | 3.5307 | 598.3 | 58.5 | 3.5322 | 600.5 | 59.1 | 606.9 | 3.5308 | | | | | | 13 |
| | 0.4896 | 3.5312 | | | | | | | | | | | | | |
| | 0.4896 | 3.5311 | | | | | | | | | | | | | |
| 0.23784 | 0.4895 | 3.5330 | 605.9 | 57.3 | | | | | | | | | | | |
| | 0.4894 | 3.5333 | | | | | | | | | | | | | |
| | 0.4894 | 3.5335 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 14 |

| Magnets employed I. 15 suspended 3.00 inches; | | | | | | | | | | | |
|---|--------------------------------|----------------------------------|---|-----------------------|-------------|---------------------------------|--------------------------------|---|-----------------------|-------------|-------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
| | Tem- perature of Magnet. | Distances. $r, r_1, r_2, &c.$ | Angles. $u, u', u'', &c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | $k=0.00087$ | $q=0.00234$ | | | | $k=0.00087$ | $q=0.00234$ | |
| | | | | Sc. Div. | Therm. | | | Sc. Div. | Therm. | | |
| 1846 | | | | | | | | | | | |
| November. | 16 | 63.3 | 1.0 + $\frac{1}{2}l$ | 10 24 53 | 606.7 | 54.5 | 9.14057 | 64.7 | 5.1177 | 614.6 | 56.1 |
| | | 62.7 | 1.1 ,, | 8 06 23 | 606.6 | 57.2 | 9.13925 | | | | |
| | | 63.3 | 1.2 ,, | 6 25 42 | 606.6 | 55.7 | 9.14103 | | | | |
| | 17 | 53.2 | 1.0 ,, | 10 27 28 | 615.1 | 57.8 | 9.14221 | 52.7 | 5.1148 | 611.7 | 56.4 |
| | | 53.7 | 1.1 ,, | 8 07 13 | 619.8 | 56.7 | 9.14166 | | | | |
| | | 53.8 | 1.2 ,, | 6 27 40 | 620.3 | 56.7 | 9.14299 | | | | |
| | 18 | 53.6 | 1.0 ,, | 10 29 13 | 593.6 | 58.7 | 9.14335 | 50.5 | 5.1209 | 581.7 | 57.2 |
| | | 54.1 | 1.2 ,, | 6 26 23 | 593.6 | 58.7 | 9.14156 | | | | |
| | December. | 15 | 61.5 | 1.0 + $\frac{1}{2}l$ | 10 24 12 | 641.5 | 37.7 | 9.14008 | 40.0 | 5.1224 | 637.9 |
| 69.0 | | | 1.1 ,, | 8 05 52 | 640.3 | 37.2 | 9.14077 | | | | |
| 68.0 | | | 1.2 ,, | 6 25 37 | 639.7 | 37.0 | 9.14088 | | | | |
| 16 | | 49.3 | 1.0 ,, | 10 24 27 | 638.8 | 40.5 | 9.14009 | 33.5 | 5.1183 | 608.2 | 39.0 |
| | | 54.1 | 1.1 ,, | 8 05 42 | 639.7 | 40.8 | 9.14032 | | | | |
| | | 54.2 | 1.2 ,, | 6 24 47 | 639.8 | 40.8 | 9.13977 | | | | |
| 17 | | 56.0 | 1.0 ,, | 10 24 50 | 638.4 | 42.8 | 9.14033 | 45.5 | 5.1173 | 635.6 | 42.1 |
| | | 58.2 | 1.1 ,, | 8 05 21 | 637.8 | 42.9 | 9.14009 | | | | |
| 1847 | | | | | | | | | | | |
| January. | 18 | 63.8 | 1.0 + $\frac{1}{2}l$ | 10 23 05 | 635.9 | 40.8 | 9.13935 | 56.6 | 5.1272 | 633.3 | 39.6 |
| | | 53.8 | 1.1 ,, | 8 03 46 | 643.0 | 41.7 | 9.13862 | | | | |
| | | 48.9 | 1.0 ,, | 10 22 56 | 636.1 | 35.5 | 9.13904 | | | | |
| | 19 | 48.7 | 1.1 ,, | 8 04 23 | 641.4 | 35.6 | 9.13909 | 48.4 | 5.1223 | 649.4 | 35.7 |
| | | 49.6 | 1.2 ,, | 6 23 31 | 647.0 | 35.7 | 9.13829 | | | | |
| | | 53.4 | 1.0 ,, | 10 23 09 | 647.3 | 35.7 | 9.13924 | | | | |
| | 20 | 52.8 | 1.1 ,, | 8 03 55 | 651.9 | 36.2 | 9.13873 | 52.3 | 5.1276 | 648.0 | 35.0 |
| | | 55.0 | 1.2 ,, | 6 24 33 | 650.0 | 36.7 | 9.13950 | | | | |
| | | 57.5 | 1.0 ,, | 10 23 00 | 631.6 | 35.7 | 9.13921 | | | | |
| | 21 | 53.4 | 1.1 ,, | 8 04 56 | 635.3 | 36.8 | 9.13965 | 49.9 | 5.1248 | 642.4 | 35.4 |
| | | | | | | | | | | | |
| | February. | 15 | 55.6 | 1.0 + $\frac{1}{2}l$ | 10 22 32 | 639.5 | 42.8 | 9.13885 | 53.9 | 5.1292 | 637.8 |
| 51.1 | | | 1.1 ,, | 8 04 09 | 644.2 | 43.0 | 9.13891 | | | | |
| 66.1 | | | 1.0 ,, | 10 22 20 | 640.6 | 36.4 | 9.13885 | | | | |
| 16 | | 54.7 | 1.1 ,, | 8 03 53 | 646.4 | 37.1 | 9.13873 | 45.8 | 5.1273 | 638.2 | 39.0 |
| | | 45.4 | 1.2 ,, | 6 24 20 | 648.8 | 38.7 | 9.13919 | | | | |
| | | 54.0 | 1.0 ,, | 10 23 04 | 642.3 | 45.4 | 9.13920 | | | | |
| 18 | | 41.5 | 1.0 ,, | 10 22 30 | 642.2 | 43.7 | 9.13865 | 63.1 | 5.1277 | 639.2 | 44.5 |
| | | 62.0 | 1.0 ,, | 10 22 37 | 633.2 | 46.8 | 9.13901 | | | | |
| | | 54.0 | 1.1 ,, | 8 03 48 | 636.0 | 47.3 | 9.13867 | | | | |
| March. | 15 | 52.5 | 1.0 + $\frac{1}{2}l$ | 10 22 50 | 623.4 | 42.6 | 9.13901 | 44.0 | 5.1346 | 618.7 | 41.4 |
| | | 46.2 | 1.1 ,, | 8 06 23 | 638.0 | 42.4 | 9.14085 | | | | |
| | | 54.8 | 1.0 ,, | 10 23 03 | 631.5 | 39.2 | 9.13919 | | | | |
| | 16 | 52.4 | 1.1 ,, | 8 04 00 | 644.5 | 41.5 | 9.13880 | 32.0 | 5.1273 | 631.7 | 36.9 |
| | | 50.4 | 1.2 ,, | 6 24 17 | 643.5 | 41.7 | 9.13911 | | | | |
| | | 49.0 | 1.0 ,, | 10 22 11 | 621.9 | 41.8 | 9.13853 | | | | |
| | 17 | 49.9 | 1.1 ,, | 8 06 16 | 642.7 | 43.8 | 9.14079 | 48.0 | 5.1328 | 637.8 | 37.9 |
| | | 52.3 | 1.2 ,, | 6 23 27 | 648.2 | 44.7 | 9.13825 | | | | |
| | | 59.4 | 1.0 ,, | 10 22 40 | 615.7 | 48.6 | 9.13900 | | | | |
| | 18 | 52.2 | 1.1 ,, | 8 04 48 | 628.5 | 50.9 | 9.13951 | 50.2 | 5.1297 | 646.6 | 44.8 |
| | | | | | | | | | | | |

Magnets employed I. 15 suspended 3.00 inches ;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | |
|---------|--------------------------------|-----------------------------------|--|-----------------------|---------------|---------------------------------|--------------------------------|---|-----------------------|---------------|
| | Tem- perature of Magnet. | Distances. $r, r_1, r_2, \&c.$ | Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Temper- ature of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | |
| | | | | $k = .000087$ | $q = .000234$ | | | | $k = .000087$ | $q = .000234$ |
| | | | | Sc. Div. | Therm. | | | | Sc. Div. | Therm. |
| 1847 | ° | Feet. | ° ' " | ° | ° | Seconds. | ° | | | |
| April. | 49.6 | 1.0 + $\frac{1}{2} l$ | 10 23 18 | 601.9 | 53.0 | 9.13930 | 42.1 | 5.1347 | 596.8 | 53.0 |
| | 47.9 | 1.1 ,, | 8 04 41 | 615.0 | 53.6 | 9.13934 | 45.0 | 5.1316 | 630.4 | 54.7 |
| | 47.0 | 1.2 ,, | 6 24 20 | 622.5 | 54.3 | 9.13918 | | | | |
| | 51.8 | 1.0 ,, | 10 23 15 | 587.0 | 49.8 | 9.13930 | 44.2 | 5.1350 | 583.5 | 49.7 |
| | 60.2 | 1.1 ,, | 8 03 37 | 601.6 | 50.2 | 9.13969 | 59.3 | 5.1325 | 624.4 | 52.0 |
| | 63.4 | 1.2 ,, | 6 24 03 | 625.9 | 51.3 | 9.13906 | | | | |
| | 57.5 | 1.0 ,, | 10 25 12 | 598.8 | 48.8 | 9.14072 | 57.0 | 5.1360 | 591.9 | 48.8 |
| | 52.5 | 1.1 ,, | 8 05 49 | 611.2 | 48.6 | 9.14041 | 49.5 | 5.1328 | 629.0 | 48.6 |
| | 49.2 | 1.2 ,, | 6 25 09 | 626.0 | 48.2 | 9.14010 | | | | |
| | 47.7 | 1.0 ,, | 10 24 16 | 629.6 | 44.4 | 9.13995 | 41.9 | 5.1345 | 625.0 | 43.4 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| May. | 56.0 | 1.0 + $\frac{1}{2} l$ | 10 22 38 | 594.4 | 64.2 | 9.13802 | 56.0 | 5.1348 | 577.0 | 63.7 |
| | 57.4 | 1.1 ,, | 8 04 28 | 611.4 | 65.4 | 9.13927 | 59.1 | 5.1276 | 613.5 | 67.1 |
| | 59.2 | 1.2 ,, | 6 23 53 | 619.9 | 66.8 | 9.13882 | | | | |
| | 56.0 | 1.0 ,, | 10 23 30 | 573.7 | 62.8 | 9.13953 | 51.2 | 5.1337 | 588.4 | 60.5 |
| | 57.0 | 1.1 ,, | 8 04 33 | 584.4 | 63.4 | 9.13935 | 55.2 | 5.1380 | 598.7 | 65.4 |
| | 57.2 | 1.2 ,, | 6 24 20 | 605.6 | 64.4 | 9.13930 | | | | |
| | 58.0 | 1.0 ,, | 10 22 48 | 603.4 | 66.4 | 9.13906 | 53.4 | 5.1293 | 596.4 | 62.6 |
| | | | | | | | 56.8 | 5.1337 | 602.5 | 67.0 |
| | 56.0 | 1.0 ,, | 10 22 39 | 590.5 | 64.0 | 9.13894 | 54.0 | 5.1334 | 587.7 | 63.3 |
| | 57.1 | 1.1 ,, | 8 04 21 | 610.3 | 64.6 | 9.13917 | 54.7 | 5.1324 | 598.6 | 63.2 |
| 57.5 | 1.2 ,, | 6 23 13 | 611.9 | 65.0 | 9.13825 | | | | | |
| June. | 51.5 | 1.0 + $\frac{1}{2} l$ | 10 23 23 | 620.4 | 54.3 | 9.13869 | 48.0 | — | 612.0 | 53.7 |
| | 53.5 | 1.1 ,, | 8 04 17 | 623.2 | 56.1 | 9.13906 | 55.7 | 5.1306 | 620.5 | 59.5 |
| | 55.7 | 1.2 ,, | 6 24 35 | 625.0 | 58.3 | 9.13958 | | | | |
| | 57.5 | 1.0 ,, | 10 22 07 | 603.2 | 60.7 | 9.13860 | 54.0 | 5.1374 | 597.2 | 62.1 |
| | 58.0 | 1.1 ,, | 8 03 42 | 620.9 | 61.3 | 9.13859 | 57.5 | 5.1308 | 633.0 | 62.2 |
| | 57.8 | 1.2 ,, | 6 23 38 | 625.2 | 62.0 | 9.13853 | | | | |
| | 58.9 | 1.0 ,, | 10 22 34 | 600.9 | 61.4 | 9.13893 | 56.0 | 5.1305 | 596.6 | 60.7 |
| | 59.8 | 1.1 ,, | 8 04 05 | 602.0 | 61.5 | 9.13898 | 60.0 | 5.1351 | 623.2 | 63.7 |
| | 60.3 | 1.2 ,, | 6 23 57 | 620.1 | 63.1 | 9.13890 | | | | |
| | 61.7 | 1.0 ,, | 10 22 21 | 597.7 | 64.0 | 9.13880 | 58.0 | 5.1316 | 593.5 | 63.3 |
| | 62.0 | 1.1 ,, | 8 03 45 | 608.5 | 64.7 | 9.13870 | 62.0 | 5.1280 | 624.4 | 65.4 |
| | | | | | | | | | | |
| July. | 72.1 | 1.0 + $\frac{1}{2} l$ | 10 23 52 | 584.3 | 73.9 | 9.13999 | 69.1 | 5.1441 | 572.0 | 73.8 |
| | 71.0 | 1.1 ,, | 8 02 50 | 595.4 | 74.0 | 9.13800 | 68.7 | 5.1376 | 577.3 | 73.9 |
| | 72.0 | 1.2 ,, | 6 23 32 | 602.5 | 73.8 | 9.13859 | 70.0 | 5.1347 | 594.5 | 73.1 |
| | 73.4 | 1.0 ,, | 10 21 14 | 583.4 | 71.8 | 9.13821 | 68.2 | 5.1378 | 569.9 | 70.3 |
| | 73.9 | 1.1 ,, | 8 03 06 | 591.6 | 73.4 | 9.13828 | 68.2 | 5.1399 | 573.1 | 71.1 |
| | 76.0 | 1.2 ,, | 6 22 57 | 598.7 | 74.5 | 9.13799 | 75.3 | 5.1383 | 601.0 | 74.6 |
| | 78.1 | 1.0 ,, | 10 20 52 | 582.0 | 75.7 | 9.13799 | 72.0 | 5.1390 | 576.5 | 74.7 |
| | 80.5 | 1.1 ,, | 8 03 03 | 585.4 | 76.4 | 9.13832 | | | | |
| | 78.9 | 1.0 ,, | 10 20 48 | 594.5 | 77.8 | 9.13795 | 79.0 | 5.1435 | 597.8 | 78.1 |
| | 80.0 | 1.1 ,, | 8 02 32 | 593.4 | 78.2 | 9.13785 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| August. | 73.7 | 1.0 + $\frac{1}{2} l$ | 10 18 41 | 583.5 | 76.5 | 9.13643 | 71.5 | 5.1404 | 572.0 | 77.7 |
| | 74.0 | 1.1 ,, | 8 01 31 | 574.1 | 76.4 | 9.13685 | | | | |
| | 74.0 | 1.2 ,, | 6 21 23 | 602.6 | 76.5 | 9.13611 | 71.5 | 5.1423 | 599.1 | 76.0 |
| | 67.5 | 1.0 ,, | 10 19 12 | 586.2 | 70.0 | 9.13670 | 66.3 | 5.1403 | 600.2 | 69.7 |
| | 68.0 | 1.1 ,, | 8 01 46 | 586.3 | 70.0 | 9.13701 | | | | |
| | 68.0 | 1.2 ,, | 6 21 42 | 591.8 | 70.1 | 9.13646 | 68.2 | 5.1423 | 606.8 | 70.7 |
| | 68.1 | 1.3 ,, | 5 08 12 | 607.4 | 70.4 | 9.13682 | | | | |
| | 62.0 | 1.0 ,, | 10 19 04 | 599.3 | 65.1 | 9.13654 | 61.5 | 5.1427 | 600.0 | 64.6 |
| | 64.0 | 1.1 ,, | 8 01 20 | 605.6 | 65.4 | 9.13657 | 64.0 | 5.1448 | 612.4 | 67.0 |
| | 64.0 | 1.2 ,, | 6 20 59 | 618.6 | 66.2 | 9.13562 | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | |
|------------------------|---------------------------|------------------|-------|-------------------------------------|--------------|-------------|----------|----------------|----------------|-------|-------------|
| | Log. Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X |
| | | | | Mean reading on day of observation. | Temperature. | | Sc. Div. | Temperature. | | | |
| | | | | | | | | | | 1847 | |
| 0.23465 } 0.23519 } | 0.4866 0.4867 | 3.5303 3.5301 | 610.1 | 52.5 | 3.5284 | 614.5 | 49.2 | 607.0 | 3.5308 | 14 | |
| 0.23462 } 0.23512 } | 0.4866 0.4867 | 3.5303 3.5286 | | | | | | | | 613.6 | 49.3 |
| 0.23451 } 0.23501 } | 0.4864 0.4872 | 3.5311 3.5240 | 616.2 | 48.2 | | | | | | | |
| 0.23469 } | 0.4870 0.4869 | 3.5252 3.5265 | | | | | | | | 618.1 | 46.9 |
| 0.23471 } 0.23509 } | 0.4863 0.4865 | 3.5318 3.5304 | 601.5 | 63.7 | | | | | | | |
| 0.23487 } 0.23416 } | 0.4863 0.4867 | 3.5322 3.5292 | | | | | | | | 592.3 | 63.2 |
| 0.23524 } 0.23492 } | 0.4865 0.4865 | 3.5300 3.5301 | 596.2 | 64.5 | | | | | | | |
| 0.23504 } 0.23512 } | 0.4864 0.4866 | 3.5319 3.5316 | | | | | | | | 598.8 | 63.1 |
| | 0.4861 0.4865 | 3.5325 3.5349 | 617.4 | 57.0 | | | | | | | |
| 0.23543 } | 0.4867 | 3.5334 | | | | | | | | 614.3 | 60.1 |
| 0.23427 } 0.23540 } | 0.4861 0.4861 | 3.5329 3.5341 | 609.5 | 61.6 | | | | | | | |
| 0.23544 } 0.23469 } | 0.4864 0.4864 | 3.5324 3.5322 | | | | | | | | 606.5 | 63.2 |
| 0.23526 } 0.23592 } | 0.4864 0.4866 | 3.5325 3.5349 | 584.6 | 72.0 | 14 | | | | | | |
| 0.23323 } 0.23432 } | 0.4866 0.4866 | 3.5355 3.5334 | | | 588.7 | 72.0 | 15 | | | | |
| 0.23482 } 0.23429 } | 0.4860 0.4855 | 3.5318 3.5318 | 588.2 | 75.5 | | | 16 | | | | |
| 0.23393 } 0.23424 } | 0.4856 0.4854 | 3.5315 3.5326 | | | 609.3 | 65.4 | 19 | | | | |
| 0.23410 } 0.23337 } | 0.4851 0.4853 | 3.5309 3.5291 | 601.1 | 68.3 | | | 18 | | | | |
| 0.23386 } 0.23348 } | 0.4851 0.4850 | 3.5309 3.5315 | | | 609.3 | 65.4 | 17 | | | | |
| 0.23385 } | 0.4842 0.4844 | 3.5370 3.5353 | 601.1 | 68.3 | | | 18 | | | | |
| 0.23352 } | 0.4840 0.4844 | 3.5382 3.5359 | | | 609.3 | 65.4 | 19 | | | | |
| 0.23341 } 0.23308 } | 0.4846 0.4843 | 3.5346 3.5369 | 609.3 | 65.4 | | | 18 | | | | |
| | 0.4845 0.4841 | 3.5354 3.5352 | | | 609.3 | 65.4 | 19 | | | | |
| | 0.4842 0.4834 | 3.5346 3.5385 | 609.3 | 65.4 | | | 18 | | | | |
| | | | | | 609.3 | 65.4 | 19 | | | | |

Magnets employed I. 15 suspended 3.00 inches;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | | |
|------------|--------------------------------|-----------------------------------|--|-----------------------|---------------|------------------------------|--------------------------------|---|-----------------------|---------------|-------|------|
| | Tem- perature of Magnet. | Distances. $r, r_1, r_2, \&c.$ | Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | | |
| | | | | $k = .000087$ | $q = .000234$ | | | | $k = .000087$ | $q = .000234$ | | |
| | | | Sc. Div. | Therm. | | | Seconds. | Sc. Div. | Therm. | | | |
| 1847 | | Feet. | ° ' " | ° | ° | | | | | | | |
| September. | 15 | 57.8 | 1.0 + $\frac{1}{2} l$ | 10 18 32 | 596.4 | 59.1 | 9.13611 | 56.2 | 5.1519 | 594.0 | 58.6 | |
| | | 59.9 | 1.1 ,, | 8 00 59 | 611.9 | 60.7 | 9.13619 | | 5.1512 | 618.2 | 62.4 | |
| | | 60.3 | 1.2 ,, | 6 21 15 | 617.2 | 61.5 | 9.13592 | | 60.6 | 5.1512 | 618.2 | 62.4 |
| | 16 | 59.9 | 1.0 ,, | 10 19 16 | 588.7 | 61.5 | 9.13663 | 58.2 | 5.1575 | 591.9 | 60.9 | |
| | | 60.1 | 1.1 ,, | 8 01 26 | 598.2 | 62.0 | 9.13651 | | 5.1526 | 622.9 | 64.2 | |
| | | 60.4 | 1.2 ,, | 6 21 45 | 611.1 | 62.9 | 9.13652 | | 61.2 | 5.1526 | 622.9 | 64.2 |
| | 17 | 62.2 | 1.0 ,, | 10 18 35 | 624.8 | 63.6 | 9.13612 | 61.0 | 5.1526 | 579.9 | 62.8 | |
| | | 62.4 | 1.0 ,, | 10 19 02 | 584.9 | 63.8 | 9.13643 | | 5.1532 | 603.6 | 65.5 | |
| | | 63.8 | 1.1 ,, | 8 01 37 | 593.8 | 64.6 | 9.13680 | | 62.6 | 5.1532 | 603.6 | 65.5 |
| | | | | | | | | | | | | |
| October. | 16 | 57.0 | 1.0 + $\frac{1}{2} l$ | 10 17 44 | 619.3 | 57.3 | 9.13555 | 56.5 | 5.1580 | 601.9 | 54.2 | |
| | | 59.4 | 1.1 ,, | 8 00 40 | 619.3 | 58.0 | 9.13592 | | 5.1509 | 622.8 | 58.1 | |
| | | 61.7 | 1.0 ,, | 10 17 38 | 605.2 | 59.2 | 9.13548 | | 59.8 | 5.1563 | 604.0 | 58.6 |
| | 18 | 62.8 | 1.1 ,, | 8 01 09 | 599.3 | 60.1 | 9.13637 | 60.8 | 5.1580 | 607.5 | 63.1 | |
| | | 61.8 | 1.2 ,, | 6 21 31 | 605.9 | 62.2 | 9.13616 | | 5.1590 | 585.9 | 60.0 | |
| | | 63.2 | 1.0 ,, | 10 17 48 | 607.8 | 62.2 | 9.13561 | | 5.1565 | 612.8 | 59.4 | |
| | 19 | 55.4 | 1.0 ,, | 10 18 21 | 600.4 | 60.9 | 9.13604 | 53.5 | 5.1538 | 598.8 | 57.0 | |
| | | 56.0 | 1.1 ,, | 8 01 09 | 606.8 | 61.7 | 9.13641 | | 5.1623 | 615.1 | 59.3 | |
| | | 60.0 | 1.0 ,, | 10 18 01 | 605.9 | 57.2 | 9.13580 | | 60. | 5.1538 | 598.8 | 57.0 |
| 20 | 59.1 | 1.1 ,, | 8 00 36 | 608.2 | 58.1 | 9.13594 | 57.2 | 5.1623 | 615.1 | 59.3 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| November. | 16 | 55.3 | 1.0 + $\frac{1}{2} l$ | 10 17 30 | 608.2 | 49.0 | 9.13537 | 45.5 | 5.1571 | 617.3 | 48.2 | |
| | | 55.5 | 1.1 ,, | 8 00 43 | 608.9 | 50.0 | 9.13590 | | 5.1581 | 620.3 | 51.0 | |
| | | 53.7 | 1.2 ,, | 6 20 44 | 628.9 | 51.0 | 9.13523 | | 54.0 | 5.1581 | 620.3 | 51.0 |
| | 17 | 55.0 | 1.0 ,, | 10 17 29 | 605.2 | 54.0 | 9.13534 | 48.2 | 5.1586 | 608.6 | 53.6 | |
| | | 57.7 | 1.1 ,, | 8 00 06 | 611.3 | 54.4 | 9.13537 | | 5.1566 | 628.2 | 55.5 | |
| | | 58.0 | 1.2 ,, | 6 20 39 | 625.2 | 55.1 | 9.13548 | | 57.1 | 5.1566 | 628.2 | 55.5 |
| | 18 | 50.0 | 1.0 ,, | 10 17 21 | 619.4 | 54.0 | 9.13519 | 48.0 | 5.1574 | 622.6 | 53.7 | |
| | | 50.3 | 1.1 ,, | 7 59 28 | 623.1 | 53.8 | 9.13471 | | 5.1558 | 631.5 | 54.3 | |
| | | 54.4 | 1.2 ,, | 6 21 09 | 630.5 | 54.0 | 9.13564 | | 51.7 | 5.1558 | 631.5 | 54.3 |
| | | | | | | | | | | | | |
| December. | 16 | 43.2 | 1.0 + $\frac{1}{2} l$ | 10 16 13 | 636.4 | 39.6 | 9.13476 | 29.0 | 5.1585 | 639.5 | 39.4 | |
| | | 50.0 | 1.1 ,, | 7 59 12 | 651.6 | 40.5 | 9.13445 | | 5.1590 | 666.7 | 41.3 | |
| | | 50.8 | 1.2 ,, | 6 20 29 | 662.1 | 41.1 | 9.13487 | | 50.4 | 5.1590 | 666.7 | 41.3 |
| | 18 | 66.1 | 1.0 ,, | 10 17 11 | 617.2 | 40.7 | 9.13532 | 63.3 | 5.1635 | 623.8 | 40.1 | |
| | | 60.4 | 1.1 ,, | 8 00 40 | 617.4 | 41.5 | 9.13591 | | 5.1663 | 633.7 | 42.8 | |
| | | 55.1 | 1.2 ,, | 6 20 29 | 627.1 | 42.2 | 9.13493 | | 53.7 | 5.1663 | 633.7 | 42.8 |
| | 21 | 48.5 | 1.0 ,, | 10 18 11 | 612.4 | 35.9 | 9.13575 | 54.9 | 5.1708 | 613.4 | 35.7 | |
| | | 47.8 | 1.1 ,, | 8 00 25 | 616.2 | 37.1 | 9.13553 | | 5.1709 | 629.0 | 37.3 | |
| | | 47.0 | 1.2 ,, | 6 21 28 | 623.8 | 37.5 | 9.13592 | | 45.9 | 5.1709 | 629.0 | 37.3 |
| 24 | 51.8 | 1.0 ,, | 10 14 00 | 629.3 | 39.9 | 9.13288 | 53.3 | 5.1647 | 638.2 | 39.6 | | |
| | 55.1 | 1.1 ,, | 7 56 50 | 640.6 | 40.9 | 9.13239 | | 53.0 | 5.1625 | 645.0 | 41.4 | |
| | | | | | | | | | | | | |
| 1848 | | | | | | | | | | | | |
| January. | 17 | 39.3 | 1.0 + $\frac{1}{2} l$ | 10 16 51 | 615.1 | 43.7 | 9.13471 | 30.7 | 5.1710 | 610.3 | 43.7 | |
| | | 43.6 | 1.1 ,, | 7 59 41 | 618.3 | 44.0 | 9.13472 | | 5.1665 | 631.1 | 45.6 | |
| | | 44.2 | 1.2 ,, | 6 20 51 | 624.5 | 44.8 | 9.13520 | | 44.9 | 5.1665 | 631.1 | 45.6 |
| | 18 | 52.7 | 1.0 ,, | 10 17 08 | 618.4 | 40.7 | 9.13506 | 43.5 | 5.1673 | 621.5 | 41.3 | |
| | | 47.4 | 1.1 ,, | 7 59 55 | 625.3 | 41.0 | 9.13506 | | 5.1650 | 644.8 | 41.8 | |
| | | 40.7 | 1.2 ,, | 6 20 45 | 639.4 | 41.8 | 9.13504 | | 39.0 | 5.1650 | 644.8 | 41.8 |
| | 19 | 54.1 | 1.0 ,, | 10 16 45 | 626.4 | 38.2 | 9.13482 | 56.0 | 5.1640 | 639.5 | 38.0 | |
| | | 49.1 | 1.1 ,, | 7 59 14 | 633.8 | 38.7 | 9.13448 | | 46.0 | 5.1635 | 647.3 | 39.5 |
| | | 47.4 | 1.2 ,, | 6 19 45 | 644.3 | 39.3 | 9.13400 | | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | | | | | | |
|------------|------------------------------|----------|-------|--|-------------------|-------------|----------|-------------------|-------------------|-------|----------------|--|--|--|----|------------|
| | Log. Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X | | | | | |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | | | | | | |
| | | | | | | | | | | 1847 | | | | | | |
| 0.23185 | 0.4831 | 3.5309 | 613.0 | 59.1 | 3.5288 | 610.1 | 61.0 | 623.5 | 3.5280 | 15 | | | | | | |
| 0.23188 | 0.4831 | 3.5305 | | | | | | | | | | | | | | September. |
| | 0.4829 | 3.5316 | | | | | | | | | | | | | | |
| 0.23090 | 0.4830 | 3.5266 | 613.0 | 61.0 | | | | | | | | | | | 16 | |
| | 0.4836 | 3.5271 | | | | | | | | | | | | | | |
| 0.23175 | 0.4829 | 3.5270 | | | | | | | | | | | | | | |
| | 0.4828 | 3.5286 | | | | | | | | | | | | | | |
| 0.23174 | 0.4832 | 3.5289 | 604.4 | 63.0 | | | | | | 17 | | | | | | |
| | 0.4833 | 3.5274 | | | | | | | | | | | | | | |
| 0.23165 | 0.4831 | 3.5291 | | | | | | | | | | | | | | |
| 0.23080 | 0.4825 | 3.5313 | 613.9 | 55.8 | 3.5281 | 610.5 | 58.1 | 617.9 | 3.5278 | 16 | | | | | | |
| 0.23200 | 0.4827 | 3.5298 | | | | | | | | | | | | | | October. |
| 0.23110 | 0.4823 | 3.5298 | | | | | | | | | | | | | | |
| | 0.4827 | 3.5262 | 609.0 | 60.4 | | | | | | | | | | | 18 | |
| 0.23084 | 0.4826 | 3.5270 | | | | | | | | | | | | | | |
| | 0.4823 | 3.5293 | | | | | | | | | | | | | | |
| 0.23061 | 0.4824 | 3.5270 | 607.2 | 59.1 | | | | | | 19 | | | | | | |
| 0.23105 | 0.4826 | 3.5256 | | | | | | | | | | | | | | |
| 0.23153 | 0.4823 | 3.5278 | 611.9 | 57.2 | | | | | | 20 | | | | | | |
| 0.23009 | 0.4824 | 3.5274 | | | | | | | | | | | | | | |
| 0.23088 | 0.4826 | 3.5297 | 626.3 | 50.6 | 3.5300 | 624.3 | 53.0 | 610.3 | 3.5274 | 16 | | | | | | |
| 0.23077 | 0.4824 | 3.5275 | | | | | | | | | | | | | | November. |
| | 0.4820 | 3.5303 | | | | | | | | | | | | | | |
| 0.23066 | 0.4821 | 3.5299 | 620.6 | 54.6 | | | | | | | | | | | 17 | |
| 0.23105 | 0.4822 | 3.5297 | | | | | | | | | | | | | | |
| | 0.4822 | 3.5293 | | | | | | | | | | | | | | |
| 0.23085 | 0.4816 | 3.5310 | 626.0 | 53.8 | | | | | | 18 | | | | | | |
| 0.23114 | 0.4819 | 3.5330 | | | | | | | | | | | | | | |
| | 0.4824 | 3.5292 | | | | | | | | | | | | | | |
| 0.23507 | 0.4816 | 3.5312 | 650.2 | 40.8 | 3.5271 | 638.5 | 39.1 | 610.6 | 3.5315 | 16 | | | | | | |
| 0.23060 | 0.4815 | 3.5324 | | | | | | | | | | | | | | December. |
| | 0.4818 | 3.5307 | | | | | | | | | | | | | | |
| 0.22993 | 0.4813 | 3.5252 | 629.3 | 41.5 | | | | | | | | | | | 18 | |
| 0.22940 | 0.4817 | 3.5227 | | | | | | | | | | | | | | |
| | 0.4813 | 3.5267 | | | | | | | | | | | | | | |
| 0.22864 | 0.4811 | 3.5192 | 626.4 | 36.0 | | | | | | 21 | | | | | | |
| 0.22859 | 0.4810 | 3.5200 | | | | | | | | | | | | | | |
| | 0.4814 | 3.5184 | | | | | | | | | | | | | | |
| 0.22941 | 0.4801 | 3.5348 | 648.0 | 38.1 | | | | | | 24 | | | | | | |
| 0.22978 | 0.4798 | 3.5369 | | | | | | | | | | | | | | |
| | | | | | | | | | | 1848 | | | | | | |
| 0.22847 | 0.4806 | 3.5245 | 627.7 | 43.7 | 3.5260 | 637.4 | 40.5 | 604.6 | 3.5279 | 17 | | | | | | |
| 0.22931 | 0.4805 | 3.5244 | | | | | | | | | | | | | | January. |
| | 0.4810 | 3.5226 | | | | | | | | | | | | | | |
| 0.22916 | 0.4811 | 3.5250 | 639.3 | 39.1 | | | | | | | | | | | 18 | |
| 0.22953 | 0.4812 | 3.5249 | | | | | | | | | | | | | | |
| | 0.4812 | 3.5250 | | | | | | | | | | | | | | |
| 0.22980 | 0.4812 | 3.5275 | 645.2 | 38.8 | | | | | | 19 | | | | | | |
| 0.22980 | 0.4811 | 3.5291 | | | | | | | | | | | | | | |
| | 0.4808 | 3.5311 | | | | | | | | | | | | | | |

| Magnets employed I. 15 suspended 3.00 inches; | | | | | | | | | | | |
|---|--------------------------------|--|---|-----------------------|--------------------|---|--------------------------------|--|-----------------------|--------------------|------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', u'', &c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values <i>m</i> of \bar{X} | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | <i>k</i> = .000087 | <i>q</i> = .000234 | | | | <i>k</i> = .000087 | <i>q</i> = .000234 | |
| | | Feet. | ° ' " | Sc. Div. | Therm. | | Seconds. | Sc. Div. | Therm. | | |
| 1848 | ° | | ° ' " | | ° | | | | ° | | |
| February. | 16 | 55.1 | 1.0 + 1/2 l | 10 15 53 | 627.4 | 47.6 | 9.13423 | 53.0 | 5.1653 | 638.4 | 49.8 |
| | | 51.7 | 1.1 ,, | 7 59 03 | 632.3 | 48.6 | 9.13436 | | | | |
| | | 53.2 | 1.2 ,, | 6 20 10 | 635.1 | 49.4 | 9.13454 | | | | |
| | | 44.7 | 1.0 ,, | 10 17 06 | 627.8 | 47.4 | 9.13494 | | | | |
| | | 57.2 | 1.1 ,, | 7 58 40 | 632.7 | 48.0 | 9.13389 | | | | |
| | | 65.5 | 1.2 ,, | 6 19 32 | 642.0 | 49.2 | 9.13398 | | | | |
| | 17 | 52.2 | 1.0 ,, | 10 15 31 | 626.1 | 49.2 | 9.13394 | 37.0 | 5.1642 | 630.2 | 46.7 |
| | | 51.7 | 1.1 ,, | 7 58 40 | 638.1 | 50.7 | 9.13416 | | | | |
| | | 51.9 | 1.2 ,, | 6 19 45 | 641.2 | 51.0 | 9.13405 | | | | |
| | | 43.3 | 1.0 ,, | 10 16 42 | 642.1 | 49.4 | 9.13465 | | | | |
| | | 44.0 | 1.1 ,, | 7 59 21 | 639.1 | 50.1 | 9.13441 | | | | |
| | | 44.0 | 1.1 ,, | 7 59 21 | 639.1 | 50.1 | 9.13441 | | | | |
| March. | 13 | 36.0 | 1.0 + 1/2 l | 10 15 41 | 628.0 | 43.9 | 9.13384 | 32.0 | 5.1636 | 625.2 | 44.1 |
| | | 37.1 | 1.1 ,, | 7 58 59 | 639.3 | 44.7 | 9.13410 | | | | |
| | | 46.2 | 1.2 ,, | 6 19 28 | 642.1 | 44.4 | 9.13366 | | | | |
| | | 47.7 | 1.0 ,, | 10 16 06 | 645.5 | 41.1 | 9.13436 | | | | |
| | | 47.3 | 1.1 ,, | 7 59 03 | 647.9 | 41.4 | 9.13429 | | | | |
| | | 51.9 | 1.2 ,, | 6 19 54 | 649.2 | 41.5 | 9.13421 | | | | |
| | 14 | 55.0 | 1.0 ,, | 10 16 11 | 645.4 | 41.9 | 9.13445 | 48.0 | 5.1610 | 647.2 | 44.7 |
| | | 51.8 | 1.0 ,, | 10 16 46 | 639.2 | 36.0 | 9.13480 | | | | |
| | | 46.7 | 1.1 ,, | 7 58 58 | 645.0 | 36.1 | 9.13421 | | | | |
| | | 46.7 | 1.1 ,, | 7 58 58 | 645.0 | 36.1 | 9.13421 | | | | |
| | | 46.7 | 1.1 ,, | 7 58 58 | 645.0 | 36.1 | 9.13421 | | | | |
| | | 46.7 | 1.1 ,, | 7 58 58 | 645.0 | 36.1 | 9.13421 | | | | |
| April. | 17 | 47.5 | 1.0 + 1/2 l | 10 16 37 | 618.4 | 55.0 | 9.13465 | 44.8 | 5.1695 | 610.7 | 54.8 |
| | | 49.2 | 1.1 ,, | 7 58 48 | 629.2 | 55.8 | 9.13410 | | | | |
| | | 55.4 | 1.2 ,, | 6 19 39 | 636.0 | 56.2 | 9.13398 | | | | |
| | | 55.6 | 1.0 ,, | 10 15 49 | 614.0 | 50.7 | 9.13419 | | | | |
| | | 54.0 | 1.1 ,, | 7 58 45 | 624.3 | 50.5 | 9.13411 | | | | |
| | | 50.6 | 1.2 ,, | 6 19 15 | 627.4 | 49.6 | 9.13346 | | | | |
| | 18 | 53.5 | 1.0 ,, | 10 15 35 | 627.2 | 48.3 | 9.13400 | 55.2 | 5.1671 | 610.5 | 50.2 |
| | | 54.9 | 1.1 ,, | 7 58 55 | 634.0 | 50.3 | 9.13427 | | | | |
| | | 56.0 | 1.2 ,, | 6 19 54 | 640.2 | 51.3 | 9.13427 | | | | |
| | | 56.0 | 1.2 ,, | 6 19 54 | 640.2 | 51.3 | 9.13427 | | | | |
| | | 56.0 | 1.2 ,, | 6 19 54 | 640.2 | 51.3 | 9.13427 | | | | |
| | | 56.0 | 1.2 ,, | 6 19 54 | 640.2 | 51.3 | 9.13427 | | | | |
| May. | 15 | 53.4 | 1.0 + 1/2 l | 10 15 01 | 624.7 | 57.8 | 9.13361 | 50.0 | 5.1655 | 618.8 | 56.9 |
| | | 53.7 | 1.1 ,, | 7 58 16 | 635.8 | 58.5 | 9.13368 | | | | |
| | | 53.3 | 1.2 ,, | 6 19 16 | 641.1 | 58.8 | 9.13353 | | | | |
| | | 55.2 | 1.0 ,, | 10 15 31 | 624.9 | 59.6 | 9.13398 | | | | |
| | | 56.0 | 1.1 ,, | 7 58 40 | 639.7 | 60.2 | 9.13407 | | | | |
| | | 55.8 | 1.2 ,, | 6 19 10 | 644.6 | 60.4 | 9.13345 | | | | |
| | 16 | 56.0 | 1.0 ,, | 10 16 30 | 610.4 | 60.6 | 9.13467 | 53.0 | 5.1600 | 631.7 | 60.7 |
| | | 56.0 | 1.1 ,, | 7 58 46 | 610.8 | 61.2 | 9.13418 | | | | |
| | | 57.0 | 1.2 ,, | 6 20 9 | 630.3 | 63.2 | 9.13458 | | | | |
| | | 57.0 | 1.2 ,, | 6 20 9 | 630.3 | 63.2 | 9.13458 | | | | |
| | | 57.0 | 1.2 ,, | 6 20 9 | 630.3 | 63.2 | 9.13458 | | | | |
| | | 57.0 | 1.2 ,, | 6 20 9 | 630.3 | 63.2 | 9.13458 | | | | |
| June. | 15 | 72.8 | 1.0 + 1/2 l | 10 14 26 | 608.4 | 73.0 | 9.13345 | 68.2 | 5.1648 | 607.3 | 69.4 |
| | | 72.7 | 1.1 ,, | 7 58 01 | 610.2 | 76.2 | 9.13368 | | | | |
| | | 73.3 | 1.2 ,, | 6 19 39 | 608.1 | 78.9 | 9.13423 | | | | |
| | | 74.8 | 1.0 ,, | 10 15 38 | 593.1 | 81.4 | 9.13432 | | | | |
| | | 75.3 | 1.1 ,, | 7 58 32 | 600.8 | 82.3 | 9.13420 | | | | |
| | | 75.8 | 1.2 ,, | 6 19 23 | 600.9 | 83.0 | 9.13394 | | | | |
| | 16 | 73.8 | 1.0 ,, | 10 14 57 | 593.0 | 79.7 | 9.13382 | 72.7 | 5.1673 | 591.0 | 79.8 |
| | | 73.2 | 1.1 ,, | 7 58 04 | 598.2 | 79.7 | 9.13375 | | | | |
| | | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | |
| | | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | |
| | | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | |
| | | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | |
| 17 | 72.8 | 1.0 + 1/2 l | 10 14 26 | 608.4 | 73.0 | 9.13345 | 75.0 | 5.1632 | 604.5 | 82.2 | |
| | 72.7 | 1.1 ,, | 7 58 01 | 610.2 | 76.2 | 9.13368 | | | | | |
| | 73.3 | 1.2 ,, | 6 19 39 | 608.1 | 78.9 | 9.13423 | | | | | |
| | 74.8 | 1.0 ,, | 10 15 38 | 593.1 | 81.4 | 9.13432 | | | | | |
| | 75.3 | 1.1 ,, | 7 58 32 | 600.8 | 82.3 | 9.13420 | | | | | |
| | 75.8 | 1.2 ,, | 6 19 23 | 600.9 | 83.0 | 9.13394 | | | | | |
| 17 | 73.8 | 1.0 ,, | 10 14 57 | 593.0 | 79.7 | 9.13382 | 70.6 | 5.1662 | 587.9 | 78.4 | |
| | 73.2 | 1.1 ,, | 7 58 04 | 598.2 | 79.7 | 9.13375 | | | | | |
| | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | | |
| | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | | |
| | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | | |
| | 73.7 | 1.2 ,, | 6 19 42 | 601.0 | 80.4 | 9.13426 | | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | |
|------------|------------------------------|----------|-------|--|-------------------|-------------|----------|-------------------|-------------------|-------|----------------|
| | Log. Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | |
| | | | | | | | | | | 1848 | |
| 0.22956 | 0.4808 | 3.5291 | 640.1 | 46.3 | 3.5290 | 637.1 | 47.4 | 607.0 | 3.5261 | 16 | |
| | 0.4809 | 3.5286 | | | | | | | | | |
| | 0.4810 | 3.5279 | | | | | | | | | |
| 0.22965 | 0.4812 | 3.5262 | 641.7 | 47.7 | | | | | | | |
| 0.22942 | 0.4806 | 3.5304 | | | | | | | | | |
| | 0.4805 | 3.5301 | | | | | | | | | |
| | 0.4806 | 3.5304 | | | | | | | | | |
| 0.22945 | 0.4808 | 3.5295 | 639.9 | 48.5 | | | | | | | |
| 0.22971 | 0.4807 | 3.5299 | | | | | | | | | |
| 0.22959 | 0.4811 | 3.5276 | 626.8 | 47.2 | | | | | | | |
| 0.22934 | 0.4810 | 3.5289 | | | | | | | | | |
| | | | | | | | | | | | |
| 0.22967 | 0.4807 | 3.5323 | 646.4 | 43.4 | 3.5308 | 648.8 | 39.4 | 611.7 | 3.5323 | 13 | |
| | 0.4808 | 3.5313 | | | | | | | | | |
| 0.23025 | 0.4807 | 3.5331 | | | | | | | | | |
| | 0.4812 | 3.5310 | 649.9 | 38.9 | | | | | | | |
| 0.22994 | 0.4812 | 3.5313 | | | | | | | | | |
| | 0.4811 | 3.5316 | | | | | | | | | |
| 0.23035 | 0.4812 | 3.5306 | 650.2 | 35.9 | | | | | | | |
| 0.23004 | 0.4811 | 3.5267 | | | | | | | | | |
| 0.22901 | 0.4808 | 3.5291 | | | | | | | | | |
| | | | | | | | | | | | |
| 0.22881 | 0.4810 | 3.5270 | 621.7 | 54.7 | 3.5295 | 629.0 | 50.8 | 620.9 | 3.5305 | 17 | |
| | 0.4807 | 3.5293 | | | | | | | | | |
| 0.23010 | 0.4806 | 3.5298 | | | | | | | | | |
| | 0.4806 | 3.5287 | 629.2 | 48.6 | | | | | | | |
| 0.22926 | 0.4806 | 3.5290 | | | | | | | | | |
| | 0.4803 | 3.5312 | | | | | | | | | |
| 0.22954 | 0.4807 | 3.5310 | 636.0 | 49.1 | | | | | | | |
| 0.23024 | 0.4809 | 3.5299 | | | | | | | | | |
| 0.22931 | 0.4809 | 3.5298 | | | | | | | | | |
| | | | | | | | | | | | |
| 0.22950 | 0.4806 | 3.5326 | 633.7 | 56.9 | 3.5319 | 625.8 | 58.8 | 636.3 | 3.5320 | 15 | |
| | 0.4806 | 3.5323 | | | | | | | | | |
| 0.23009 | 0.4805 | 3.5329 | | | | | | | | | |
| | 0.4809 | 3.5322 | 630.4 | 58.6 | | | | | | | |
| 0.22959 | 0.4810 | 3.5319 | | | | | | | | | |
| | 0.4806 | 3.5344 | | | | | | | | | |
| 0.23055 | 0.4814 | 3.5301 | 613.3 | 60.9 | | | | | | | |
| 0.22910 | 0.4811 | 3.5321 | | | | | | | | | |
| 0.23138 | 0.4812 | 3.5287 | | | | | | | | | |
| | | | | | | | | | | | |
| 0.22972 | 0.4802 | 3.5317 | 607.5 | 74.0 | 3.5298 | 600.5 | 76.8 | 649.7 | 3.5270 | 15 | |
| | 0.4804 | 3.5308 | | | | | | | | | |
| 0.22907 | 0.4807 | 3.5274 | | | | | | | | | |
| | 0.4806 | 3.5278 | 595.4 | 79.3 | | | | | | | |
| 0.22933 | 0.4806 | 3.5283 | | | | | | | | | |
| | 0.4804 | 3.5294 | | | | | | | | | |
| 0.23003 | 0.4806 | 3.5314 | 598.7 | 77.1 | | | | | | | |
| 0.22951 | 0.4806 | 3.5317 | | | | | | | | | |
| 0.22999 | 0.4808 | 3.5296 | | | | | | | | | |

| Magnets employed I. 15 suspended 3.00 inches; | | | | | | | | | | |
|---|--------------------------------|---------------------------------|--|-----------------------|-------------|---------------------------------|--------------------------------|--|-----------------------|-------------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | |
| | Tem- perature of Magnet. | Distances. $r, r', r'', &c.$ | Angles. $u, u', u'', &c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | |
| | | | | $k=.000087$ | $q=.000234$ | | | | $k=.000087$ | $q=.000234$ |
| | | | | Sc. Div. | Therm. | | | Sc. Div. | Therm. | |
| 1848 | ° | et. | ° ' " | ° | ° | | ° | Seconds. | ° | |
| July. | 72.4 | 1.0 + $\frac{1}{2} l$ | 10 14 12 | 606.1 | 71.9 | 9.13330 | 70.0 | 5.1681 | 594.7 | 71.4 |
| | 71.8 | 1.1 ,, | 7 57 14 | 617.7 | 73.2 | 9.13298 | 72.2 | 5.1693 | 619.6 | 75.7 |
| | 72.0 | 1.2 ,, | 6 18 29 | 618.3 | 73.8 | 9.13287 | | | | |
| | 73.2 | 1.0 ,, | 10 14 11 | 595.4 | 74.4 | 9.13329 | 70.0 | 5.1602 | 584.9 | 73.4 |
| | 74.6 | 1.1 ,, | 7 57 00 | 616.2 | 75.6 | 9.13281 | 74.7 | 5.1705 | 602.0 | 76.2 |
| | 75.2 | 1.2 ,, | 6 18 58 | 605.0 | 76.1 | 9.13345 | | | | |
| | 75.0 | 1.0 ,, | 10 14 34 | 590.9 | 77.0 | 9.13356 | 70.0 | 5.1708 | 579.2 | 75.1 |
| | 75.4 | 1.1 ,, | 7 57 55 | 599.4 | 78.0 | 9.13365 | 75.0 | 5.1714 | 600.3 | 78.7 |
| | 75.5 | 1.2 ,, | 6 18 46 | 598.2 | 78.6 | 9.13324 | | | | |
| | | | | | | | | | | |
| August. | 77.8 | 1.0 + $\frac{1}{2} l$ | 10 10 24 | 598.4 | 79.9 | 9.13069 | 78.8 | 5.1902 | 582.8 | 79.1 |
| | 77.8 | 1.1 ,, | 7 54 35 | 600.2 | 80.3 | 9.13056 | 77.0 | 5.1881 | 596.2 | 80.4 |
| | 77.7 | 1.0 ,, | 10 10 08 | 586.6 | 78.2 | 9.13049 | | | | |
| | 77.3 | 1.1 ,, | 7 54 25 | 591.5 | 78.5 | 9.13050 | 73.8 | 5.1829 | 579.4 | 78.0 |
| | 78.1 | 1.2 ,, | 6 16 31 | 597.9 | 79.3 | 9.13068 | 78.0 | 5.1849 | 600.6 | 79.5 |
| | 69.8 | 1.0 ,, | 10 10 04 | 598.2 | 72.9 | 9.13035 | | | | |
| | 70.0 | 1.1 ,, | 7 54 22 | 619.8 | 73.0 | 9.13035 | 68.6 | 5.1905 | 583.7 | 73.2 |
| | 70.2 | 1.2 ,, | 6 16 05 | 605.0 | 72.6 | 9.13009 | 68.6 | 5.1849 | 610.1 | 72.6 |
| | 72.5 | 1.0 ,, | 10 10 52 | 596.6 | 73.8 | 9.13094 | 69.5 | 5.1877 | 584.0 | 73.3 |
| | 73.0 | 1.1 ,, | 7 54 31 | 606.8 | 74.2 | 9.13052 | 72.7 | 5.1852 | 608.4 | 74.4 |
| | | | | | | | | | | |
| September. | 59.1 | 1.0 + $\frac{1}{2} l$ | 10 09 33 | 602.8 | 59.9 | 9.12985 | | | | |
| | 59.5 | 1.1 ,, | 7 53 59 | 620.4 | 60.7 | 9.12986 | 61.1 | 5.1952 | 635.3 | 62.2 |
| | 61.1 | 1.2 ,, | 6 15 54 | 632.9 | 61.4 | 9.12975 | | | | |
| | 58.1 | 1.0 ,, | 10 09 40 | 602.7 | 59.9 | 9.12991 | 59.0 | 5.1930 | 597.6 | 59.6 |
| | 59.3 | 1.1 ,, | 7 54 13 | 627.5 | 60.9 | 9.13008 | 59.8 | 5.1928 | 640.1 | 62.5 |
| | 60.2 | 1.2 ,, | 6 15 51 | 635.6 | 61.8 | 9.12969 | | | | |
| | 63.8 | 1.0 ,, | 10 09 47 | 599.0 | 63.1 | 9.13008 | 62.2 | 5.1947 | 599.2 | 62.7 |
| | 63.9 | 1.1 ,, | 7 54 15 | 610.3 | 63.4 | 9.13016 | 64.2 | 5.1969 | 624.0 | 64.2 |
| 64.2 | 1.2 ,, | 6 15 58 | 625.1 | 63.8 | 9.12987 | | | | | |
| | | | | | | | | | | |
| October. | 51.3 | 1.0 + $\frac{1}{2} l$ | 10 08 40 | 600.5 | 55.8 | 9.12912 | | | | |
| | 55.0 | 1.1 ,, | 7 53 20 | 602.2 | 55.7 | 9.12920 | 46.7 | 5.2002 | 600.8 | 56.4 |
| | 60.7 | 1.2 ,, | 6 15 13 | 623.6 | 55.7 | 9.12894 | 59.7 | 5.2020 | 630.1 | 55.3 |
| | 56.3 | 1.0 ,, | 10 10 05 | 594.4 | 53.9 | 9.13017 | 50.0 | 5.2104 | 589.6 | 53.2 |
| | 57.9 | 1.1 ,, | 7 54 30 | 609.4 | 54.5 | 9.13031 | 56.0 | 5.2075 | 611.8 | 54.7 |
| | 60.1 | 1.0 ,, | 10 08 46 | 600.1 | 53.5 | 9.12930 | 49.7 | 5.2208 | 595.5 | 52.7 |
| | 65.4 | 1.1 ,, | 7 53 56 | 604.5 | 54.0 | 9.13033 | 56.0 | 5.2048 | 620.9 | 55.0 |
| | 63.7 | 1.1 ,, | 7 53 41 | 606.4 | 56.1 | 9.13010 | | | | |
| | 64.0 | 1.2 ,, | 6 15 35 | 608.9 | 56.1 | 9.12943 | 58.0 | 5.2025 | 607.7 | 56.0 |
| | 63.0 | 1.0 ,, | 10 09 14 | 616.4 | 56.9 | 9.12964 | 61.0 | 5.1996 | 618.9 | 57.1 |
| | | | | | | | | | | |
| November. | 63.5 | 1.0 + $\frac{1}{2} l$ | 10 08 43 | 604.1 | 49.0 | 9.12933 | 45.0 | 5.2093 | 608.5 | 47.8 |
| | 58.0 | 1.1 ,, | 7 53 55 | 648.4 | 50.5 | 9.12977 | 54.0 | 5.2083 | 621.8 | 51.9 |
| | 55.4 | 1.2 ,, | 6 15 11 | 644.6 | 51.3 | 9.12886 | | | | |
| | 51.7 | 1.0 ,, | 10 08 27 | 615.9 | 51.3 | 9.12898 | 42.7 | 5.2112 | 601.5 | 51.2 |
| | 53.9 | 1.1 ,, | 7 53 28 | 626.1 | 51.6 | 9.12933 | 52.0 | 5.2113 | 626.9 | 52.0 |
| | 52.4 | 1.2 ,, | 6 15 29 | 632.3 | 51.9 | 9.12915 | | | | |
| | 48.0 | 1.0 ,, | 10 08 50 | 611.9 | 50.3 | 9.12919 | 46.0 | 5.2123 | 609.1 | 49.7 |
| | 49.0 | 1.1 ,, | 7 53 28 | 618.7 | 51.3 | 9.12926 | 56.0 | 5.2143 | 618.6 | 52.4 |
| | 55.4 | 1.2 ,, | 6 15 28 | 631.9 | 52.2 | 9.12918 | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | | Results. | | | Means. | | | Monthly Means. | | Date. | | | | | | | | | | | | | | | | |
|------------------------------|----------|----------|--|-------------------|-------------|----------|-------------------|-------------------|----------------|--------|-------|------|-------|--------|--------|-------|------|-------|--------|--------|-------|------|-------|--------|----|------------|
| Log. Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | Values of X | | | | | | | | | | | | | | | | | |
| | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1848 | | | | | | | | | | | | | | | | |
| 0.22918 | 0.4800 | 3.5309 | 604.8 | 72.5 | 3.5315 | 599.2 | 74.4 | 648.3 | 3.5306 | 18 | July. | | | | | | | | | | | | | | | |
| 0.22900 | 0.4798 | 3.5322 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4797 | 3.5327 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.23051 | 0.4803 | 3.5334 | 598.7 | 74.2 | | | | | | 3.5302 | 596.6 | 75.4 | 652.6 | 3.5305 | 19 | | | | | | | | | | | |
| 0.22880 | 0.4800 | 3.5353 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4803 | 3.5327 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22873 | 0.4799 | 3.5284 | 594.2 | 76.6 | | | | | | | | | | | 3.5269 | 620.9 | 61.5 | 641.0 | 3.5277 | 20 | | | | | | |
| 0.22867 | 0.4799 | 3.5280 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4797 | 3.5297 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22552 | 0.4766 | 3.5279 | 588.8 | 79.0 | | | | | | | | | | | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | 15 | August. |
| 0.22588 | 0.4765 | 3.5284 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4770 | 3.5322 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22672 | 0.4770 | 3.5321 | 594.4 | 77.5 | 3.5253 | 622.7 | 54.1 | 625.7 | 3.5175 | | | | | | | | | | | | | | | | 16 | |
| 0.22641 | 0.4771 | 3.5314 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4766 | 3.5301 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22543 | 0.4766 | 3.5301 | 602.0 | 72.3 | | | | | | 3.5252 | 622.7 | 54.1 | 625.7 | 3.5175 | | | | | | | | | | | 17 | |
| 0.22636 | 0.4766 | 3.5301 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4765 | 3.5311 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22590 | 0.4770 | 3.5285 | 601.3 | 72.8 | | | | | | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | 18 | |
| 0.22634 | 0.4768 | 3.5302 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4756 | 3.5268 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22459 | 0.4761 | 3.5267 | 622.5 | 60.3 | | | | | | | | | | | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | 15 | September. |
| | 0.4755 | 3.5271 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4758 | 3.5281 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22495 | 0.4759 | 3.5272 | 624.8 | 60.8 | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | | | | | | | | | | | 16 | |
| 0.22498 | 0.4757 | 3.5289 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4756 | 3.5258 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22468 | 0.4757 | 3.5252 | 615.4 | 63.5 | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | | | | | | 19 | |
| 0.22432 | 0.4755 | 3.5263 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4746 | 3.5253 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22357 | 0.4747 | 3.5252 | 622.7 | 54.1 | | | | | | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | 17 | October. |
| 0.22344 | 0.4745 | 3.5261 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4745 | 3.5160 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22198 | 0.4745 | 3.5154 | 607.4 | 53.8 | | | | | | | | | | | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | 19 | |
| 0.22251 | 0.4745 | 3.5154 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4742 | 3.5211 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22236 | 0.4737 | 3.5168 | 616.5 | 54.2 | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | | | | | | | | | | | 20 | |
| 0.22292 | 0.4737 | 3.5168 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4750 | 3.5217 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22334 | 0.4748 | 3.5245 | 621.9 | 55.4 | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | | | | | | 21 | |
| 0.22386 | 0.4749 | 3.5248 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4740 | 3.5194 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22214 | 0.4743 | 3.5175 | 625.7 | 50.3 | | | | | | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | 21 | November. |
| 0.22236 | 0.4738 | 3.5212 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4736 | 3.5191 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22181 | 0.4738 | 3.5177 | 619.8 | 51.0 | | | | | | | | | | | | | | | | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | 22 | |
| 0.22185 | 0.4738 | 3.5164 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.4736 | 3.5169 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22165 | 0.4736 | 3.5167 | 620.8 | 51.4 | 3.5217 | 617.1 | 54.4 | 627.7 | 3.5254 | | | | | | | | | | | | | | | | 23 | |
| 0.22137 | 0.4736 | 3.5170 | | | | | | | | | | | | | | | | | | | | | | | | |

| Magnets employed I. 15 suspended 3.00 inches; | | | | | | | | | | | |
|---|--------------------------------|--|---|-----------------------|--------------------|---------------------------------|--------------------------------|--|-----------------------|--------------------|------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', u'', &c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | <i>k</i> = .000087 | <i>q</i> = .000234 | | | | <i>k</i> = .000087 | <i>q</i> = .000234 | |
| | | | Sc. Div. | Therm. | | | | Sc. Div. | Therm. | | |
| 1848 | | Feet. | ° ' " | ° | ° | | ° | Seconds. | | ° | |
| December. | 19 | 56.4 | 1.0 + 1/4 l | 10 08 28 | 637.3 | 51.2 | 9.12902 | 57.0 | 5.1996 | 640.8 | 50.7 |
| | 19 | 58.4 | 1.1 ,, | 7 52 55 | 642.7 | 51.8 | 9.12888 | 54.0 | 5.2041 | 656.4 | 52.3 |
| | | 56.7 | 1.2 ,, | 6 15 17 | 652.5 | 52.0 | 9.12898 | 35.4 | 5.2046 | 646.0 | 45.6 |
| | | 48.5 | 1.0 ,, | 10 09 31 | 640.2 | 45.9 | 9.12968 | | | | |
| | 55.8 | 1.1 ,, | 7 52.51 | 645.9 | 46.7 | 9.12879 | | | | | |
| | 20 | 53.7 | 1.2 ,, | 6 15.03 | 657.6 | 47.4 | 9.12866 | 52.1 | 5.1998 | 664.5 | 47.6 |
| | | 45.5 | 1.0 ,, | 10 08.21 | 653.9 | 45.6 | 9.12882 | | | | |
| | | 51.4 | 1.1 ,, | 7 53 15 | 659.3 | 45.0 | 9.12900 | | | | |
| | 21 | 52.7 | 1.2 ,, | 6 14 42 | 666.7 | 44.7 | 9.12825 | 39.0 | 5.2051 | 648.9 | 45.5 |
| | | | | | | | 47.0 | | | | |
| 1849 | | | | | <i>k</i> = .00036 | <i>q</i> = .000114 | | | | | |
| January. | 15 | 56.4 | 1.0 + 1/4 l | 10 07 43 | 364.4 | 38.9 | 9.12850 | 49.4 | 5.2099 | 367.2 | 39.6 |
| | | 56.1 | 1.1 ,, | 7 53 04 | 364.8 | 40.3 | 9.12902 | | | | |
| | | 45.7 | 1.2 ,, | 6 15 14 | 370.1 | 41.2 | 9.12879 | | | | |
| | 16 | 48.1 | 1.0 ,, | 10 07 12 | 365.6 | 35.3 | 9.12803 | 32.1 | 5.2065 | 363.6 | 35.1 |
| | | 51.7 | 1.1 ,, | 7 51 45 | 367.2 | 36.0 | 9.12767 | | | | |
| | | 46.5 | 1.2 ,, | 6 14 23 | 367.8 | 36.8 | 9.12782 | | | | |
| | 17 | 53.0 | 1.0 ,, | 10 07 27 | 365.6 | 39.9 | 9.12828 | 42.0 | 5.2051 | 371.4 | 37.1 |
| | | 47.1 | 1.1 ,, | 7 52 15 | 366.3 | 40.7 | 9.12812 | | | | |
| | | 41.4 | 1.2 ,, | 6 14 11 | 368.5 | 40.3 | 9.12753 | | | | |
| | | | | | | | 53.3 | | | | |
| | | | | | | | 39.1 | 5.2079 | 370.1 | 40.3 | |
| February. | 17 | 42.4 | 1.0 + 1/4 l | 10 06 40 | 366.5 | 29.4 | 9.12790 | 31.5 | 5.2069 | 368.6 | 28.0 |
| | | 46.9 | 1.1 ,, | 7 51 45 | 367.2 | 30.6 | 9.12767 | | | | |
| | | 45.9 | 1.2 ,, | 6 14 21 | 369.5 | 31.1 | 9.12778 | | | | |
| | 19 | 52.5 | 1.0 ,, | 10 06 27 | 362.3 | 28.3 | 9.12757 | 42.0 | 5.2118 | 360.2 | 27.2 |
| | | 54.1 | 1.1 ,, | 7 51 44 | 370.5 | 30.3 | 9.12788 | | | | |
| | | 56.2 | 1.2 ,, | 6 13 53 | 366.2 | 30.6 | 9.12737 | | | | |
| | 20 | 48.1 | 1.0 ,, | 10 06 56 | 362.7 | 33.2 | 9.12783 | 52.2 | 5.2095 | 367.7 | 32.3 |
| | | 49.5 | 1.1 ,, | 7 52 15 | 366.3 | 34.9 | 6.12816 | | | | |
| | | 48.4 | 1.2 ,, | 6 14 39 | 368.8 | 35.3 | 9.12816 | | | | |
| | | | | | | | 32.0 | | | | |
| | | | | | | | 48.1 | 5.2125 | 368.1 | 35.5 | |
| March. | 19 | 48.0 | 1.0 + 1/4 l | 10 6 44 | 364.8 | 43.2 | 9.12771 | 42.0 | 5.2034 | 363.4 | 42.9 |
| | | 51.6 | 1.1 ,, | 7 51 36 | 369.6 | 43.9 | 9.12759 | | | | |
| | | 51.9 | 1.2 ,, | 6 13 42 | 371.9 | 44.2 | 9.12710 | | | | |
| | 20 | 58.0 | 1.0 ,, | 10 07 13 | 367.0 | 45.4 | 9.12817 | 52.7 | 5.2097 | 374.0 | 44.4 |
| | | 56.6 | 1.1 ,, | 7 51 24 | 367.8 | 45.9 | 9.12747 | | | | |
| | | 54.4 | 1.2 ,, | 6 13 51 | 371.1 | 46.4 | 9.12729 | | | | |
| | 21 | 58.6 | 1.0 ,, | 10 06 21 | 361.4 | 49.5 | 9.12757 | 43.7 | 5.2084 | 368.7 | 45.0 |
| | | 52.8 | 1.1 ,, | 7 51 51 | 360.8 | 39.9 | 9.12784 | | | | |
| | | 58.4 | 1.2 ,, | 6 14 07 | 365.8 | 49.8 | 9.12766 | | | | |
| | | | | | | | 51.8 | | | | |
| | | | | | | | 51.7 | 5.2066 | 363.9 | 49.2 | |
| | | | | | | | 58.0 | 5.2067 | 368.5 | 49.5 | |
| April. | 19 | 44.0 | 1.0 + 1/4 l | 10 05 37 | 365.0 | 49.6 | 9.12687 | 42.7 | 5.2082 | 362.1 | 49.3 |
| | | 45.1 | 1.1 ,, | 7 51 45 | 366.5 | 49.8 | 9.12765 | | | | |
| | | 46.3 | 1.2 ,, | 6 13 46 | 367.4 | 49.8 | 9.12712 | | | | |
| | 20 | 43.0 | 1.0 ,, | 10 05 48 | 367.5 | 48.3 | 9.12703 | 39.2 | 5.1914 | 364.2 | 48.0 |
| | | 43.5 | 1.1 ,, | 7 50 51 | 371.3 | 49.2 | 9.12681 | | | | |
| | | 45.2 | 1.2 ,, | 6 13 36 | 372.6 | 50.4 | 9.12690 | | | | |
| | 21 | 44.8 | 1.0 ,, | 10 05 44 | 367.9 | 49.2 | 9.12695 | 40.0 | 5.1899 | 365.7 | 48.2 |
| | | 45.7 | 1.1 ,, | 7 50 45 | 368.4 | 49.5 | 9.12675 | | | | |
| | | 44.9 | 1.2 ,, | 6 13 24 | 370.4 | 50.1 | 9.12665 | | | | |
| | | | | | | | 43.8 | | | | |
| | | | | | | | 40.5 | 5.2141 | 364.7 | 49.1 | |
| | | | | | | | 43.5 | 5.2165 | 372.1 | 50.5 | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | | | | | | | |
|------------|------------------------------|----------|-------|--|-------------------|-------------|----------|-------------------|-------------------|-------|----------------|--------|--------|-------|------|-------|--------|
| | Log. Values of <i>m</i> X | <i>m</i> | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X | | | | | | |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | | | | | | | |
| | | | | | | | | | | 1848 | | | | | | | |
| 0.22382 | 0.4739 | 3.5217 | 653.6 | 50.1 | 3.5248 | 657.6 | 46.5 | 632.5 | 3.5241 | 19 | | | | | | | |
| 0.22316 | 0.4723 | 3.5263 | | | | | | | | 656.5 | 46.9 | 20 | | | | | |
| 0.22287 | 0.4748 | 3.5223 | 662.8 | 42.6 | | | | | | | | 1849 | 21 | | | | |
| 0.22378 | 0.4732 | 3.5265 | | | | | | | | 369.1 | 40.2 | | 3.5249 | 370.6 | 38.5 | 367.3 | 3.5272 |
| 0.22280 | 0.4742 | 3.5242 | 371.2 | 36.3 | | | | | | | | | | | | | |
| 0.22307 | 0.4743 | 3.5235 | | | | | | | | 371.4 | 39.1 | 3.5246 | | | | | |
| 0.22206 | 0.4735 | 3.5222 | 371.5 | 29.3 | 368.1 | 33.4 | 368.1 | 46.2 | 365.6 | | | | 3.5277 | 17 | | | |
| 0.22217 | 0.4738 | 3.5201 | | | | | | | | 369.6 | 29.8 | | | 367.2 | 48.6 | 367.2 | 48.6 |
| 0.22252 | 0.4736 | 3.5266 | 368.0 | 43.7 | | | | | | | | 369.9 | | | | | |
| 0.22293 | 0.4729 | 3.5280 | | | 369.0 | 46.2 | 370.6 | 48.9 | 370.6 | 48.9 | 370.6 | | 3.5345 | | | | |
| 0.22284 | 0.4736 | 3.5251 | 367.2 | 48.6 | | | | | | | | | | 370.4 | 49.2 | 370.4 | 49.2 |
| 0.22234 | 0.4734 | 3.5280 | | | 369.9 | 50.2 | | | | | | 370.3 | | | | | |
| 0.22255 | 0.4733 | 3.5275 | 369.0 | 46.2 | | | 370.3 | 49.4 | 370.3 | 49.4 | 368.7 | | 3.5300 | | | | |
| 0.22247 | 0.4733 | 3.5272 | | | 369.0 | 46.2 | | | | | | | | 370.4 | 49.2 | 370.4 | 49.2 |
| 0.22170 | 0.4729 | 3.5252 | 369.9 | 50.2 | | | | | | | | 370.3 | | | | | |
| 0.22215 | 0.4731 | 3.5239 | | | 369.0 | 46.2 | 370.6 | 48.9 | 370.6 | 48.9 | 370.6 | | 3.5345 | | | | |
| 0.22146 | 0.4731 | 3.5213 | 367.2 | 48.6 | | | | | | | | | | 370.4 | 49.2 | 370.4 | 49.2 |
| 0.22163 | 0.4730 | 3.5212 | | | 369.9 | 50.2 | | | | | | 370.3 | | | | | |
| 0.22310 | 0.4734 | 3.5274 | 369.0 | 46.2 | | | 370.6 | 48.9 | 370.6 | 48.9 | 370.6 | | 3.5345 | | | | |
| 0.22212 | 0.4731 | 3.5298 | | | 367.2 | 48.6 | | | | | | | | 370.4 | 49.2 | 370.4 | 49.2 |
| 0.22226 | 0.4734 | 3.5239 | 369.9 | 50.2 | | | | | | | | 370.3 | | | | | |
| 0.22217 | 0.4729 | 3.5276 | | | 369.0 | 46.2 | 370.6 | 48.9 | 370.6 | 48.9 | 370.6 | | 3.5345 | | | | |
| 0.22263 | 0.4733 | 3.5282 | 367.2 | 48.6 | | | | | | | | | | 370.4 | 49.2 | 370.4 | 49.2 |
| 0.22265 | 0.4735 | 3.5271 | | | 369.9 | 50.2 | | | | | | 370.3 | | | | | |
| 0.22231 | 0.4735 | 3.5352 | 369.0 | 46.2 | | | 370.6 | 48.9 | 370.6 | 48.9 | 370.6 | | 3.5345 | | | | |
| 0.22509 | 0.4739 | 3.5321 | | | 369.9 | 50.2 | | | | | | | | 370.4 | 49.2 | 370.4 | 49.2 |
| 0.22534 | 0.4736 | 3.5243 | 369.9 | 50.2 | | | | | | | | 370.3 | | | | | |
| 0.22156 | 0.4734 | 3.5341 | | | 369.0 | 46.2 | 370.6 | 48.9 | 370.6 | 48.9 | 370.6 | | 3.5345 | | | | |
| 0.22132 | 0.4731 | 3.5245 | 367.2 | 48.6 | | | | | | | | | | 370.4 | 49.2 | 370.4 | 49.2 |
| 0.22092 | 0.4720 | 3.5253 | | | 369.9 | 50.2 | | | | | | 370.3 | | | | | |
| | 0.4720 | 3.5256 | 369.9 | 50.2 | | | 370.6 | 48.9 | 370.6 | 48.9 | 370.6 | | 3.5345 | | | | |

| Magnets employed I. 15 suspended 3.00 inches ; | | | | | | | | | | | | |
|--|--------------------------------|-------------------------------------|--|-----------------------|--------------|------------------------------|--------------------------------|---|-----------------------|--------------|-------|------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | | |
| | Tem- perature of Magnet. | Distances. $r, r_1, r_{1h} \&c.$ | Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°C, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°C, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | | |
| | | | | $k=0.00036$ | $q=0.000114$ | | | | $k=0.00036$ | $q=0.000114$ | | |
| | | | | Sc. Div. | Therm. | | Seconds. | Sc. Div. | Therm. | | | |
| 1849 | ° | Feet. | ° ' " | ° | ° | | ° | | ° | | | |
| May. | 16 | 57.6 | 1.0 + $\frac{1}{2} l$ | 10 05 18 | 366.6 | 59.0 | 9.12582 | 56.8 | 5.2057 | 364.6 | 58.7 | |
| | | 58.3 | 1.1 ,, | 7 48 59 | 369.9 | 59.4 | 9.12529 | | 58.2 | 5.2046 | 366.4 | 60.3 |
| | | 59.2 | 1.2 ,, | 6 13 06 | 369.3 | 59.9 | 9.12649 | | | 5.2031 | 364.3 | 59.8 |
| | 17 | 60.3 | 1.0 ,, | 10 05 09 | 364.8 | 60.6 | 9.12675 | 57.2 | 5.2042 | 364.4 | 61.8 | |
| | | 59.7 | 1.1 ,, | 7 50 53 | 363.5 | 61.1 | 9.12704 | | | | | |
| | | 59.7 | 1.2 ,, | 6 13 26 | 364.9 | 61.5 | 9.12691 | | | | | |
| | 18 | 60.3 | 1.0 ,, | 10 04 06 | 366.0 | 61.1 | 9.12613 | 56.9 | 5.2041 | 360.8 | 60.3 | |
| | | 61.2 | 1.1 ,, | 7 50 01 | 371.7 | 61.2 | 9.12632 | | | | | |
| | | 61.7 | 1.2 ,, | 6 12 49 | 370.8 | 61.6 | 9.12620 | | | | | |
| June. | 18 | 74.2 | 1.0 + $\frac{1}{2} l$ | 10 03 23 | 367.5 | 70.5 | 9.12568 | 71.0 | 5.2088 | 367.0 | 69.0 | |
| | | 74.1 | 1.1 ,, | 7 49 19 | 369.1 | 70.5 | 9.12579 | | | | | |
| | | 74.2 | 1.2 ,, | 6 11 36 | 369.3 | 70.5 | 9.12475 | | | | | |
| | 19 | 75.9 | 1.0 ,, | 10 03 00 | 362.1 | 70.1 | 9.12542 | 72.0 | 5.2043 | 363.5 | 69.3 | |
| | | 78.4 | 1.1 ,, | 7 48 42 | 367.3 | 73.4 | 9.12540 | | | | | |
| | | 79.7 | 1.2 ,, | 6 12 10 | 371.2 | 73.8 | 9.12570 | | | | | |
| | 20 | 79.9 | 1.0 ,, | 10 03 08 | 363.8 | 74.3 | 9.12557 | 78.7 | 5.2060 | 364.6 | 76.2 | |
| | | 81.7 | 1.1 ,, | 7 49 28 | 362.5 | 75.9 | 9.12603 | | | | | |
| | | 83.0 | 1.2 ,, | 6 12 59 | 365.0 | 77.8 | 9.12664 | | | | | |
| July. | 17 | 76.0 | 1.0 + $\frac{1}{2} l$ | 10 01 43 | 348.3 | 68.6 | 9.12453 | 74.5 | 5.2096 | 345.6 | 68.2 | |
| | | 77.4 | 1.1 ,, | 7 48 19 | 352.0 | 70.3 | 9.12496 | | | | | |
| | | 77.9 | 1.2 ,, | 6 11 15 | 352.8 | 71.6 | 9.12460 | | | | | |
| | 18 | 79.1 | 1.0 ,, | 10 01 40 | 350.1 | 71.8 | 9.12451 | 75.0 | 5.2115 | 346.7 | 70.5 | |
| | | 80.0 | 1.1 ,, | 7 48 11 | 354.6 | 73.2 | 9.12483 | | | | | |
| | | 80.2 | 1.2 ,, | 6 11 46 | 356.9 | 74.5 | 9.12523 | | | | | |
| | 19 | 83.5 | 1.0 ,, | 10 02 38 | 344.5 | 75.5 | 9.12523 | 78.2 | 5.2158 | 341.6 | 73.0 | |
| | | 85.7 | 1.1 ,, | 7 48 50 | 348.9 | 78.2 | 9.12549 | | | | | |
| | | 85.2 | 1.2 ,, | 6 11 54 | 350.1 | 79.4 | 9.12543 | | | | | |
| August. | 16 | 72.0 | 1.0 + $\frac{1}{2} l$ | 10 00 24 | 337.0 | 68.6 | 9.12351 | 68.7 | 5.2230 | 335.1 | 68.1 | |
| | | 73.1 | 1.1 ,, | 7 47 30 | 338.9 | 69.1 | 9.12410 | | | | | |
| | | 73.8 | 1.2 ,, | 6 10 34 | 339.5 | 69.7 | 9.12374 | | | | | |
| | 17 | 77.8 | 1.0 ,, | 9 59 46 | 335.6 | 71.8 | 9.12314 | 72.8 | 5.2206 | 342.2 | 70.2 | |
| | | 76.2 | 1.1 ,, | 7 47 37 | 337.7 | 72.5 | 9.12425 | | | | | |
| | | 76.0 | 1.2 ,, | 6 10 55 | 338.9 | 73.0 | 9.12419 | | | | | |
| | 18 | 77.8 | 1.0 ,, | 10 00 58 | 335.7 | 73.1 | 9.12400 | 73.5 | 5.2194 | 334.5 | 71.3 | |
| | | 78.0 | 1.1 ,, | 7 47 35 | 337.0 | 73.5 | 9.12424 | | | | | |
| | | 78.1 | 1.2 ,, | 6 11 09 | 340.4 | 74.3 | 9.12447 | | | | | |
| September. | 19 | 62.0 | 1.0 + $\frac{1}{2} l$ | 10 00 22 | 327.6 | 60.7 | 9.12336 | 58.8 | 5.2288 | 325.5 | 60.6 | |
| | | 62.0 | 1.1 ,, | 7 47 55 | 330.5 | 60.8 | 9.12435 | | | | | |
| | | 61.7 | 1.2 ,, | 6 10 30 | 334.3 | 61.4 | 9.12353 | | | | | |
| | 20 | 64.2 | 1.0 ,, | 9 59 48 | 328.8 | 60.5 | 9.12299 | 61.7 | 5.2282 | 335.1 | 61.4 | |
| | | 64.1 | 1.1 ,, | 7 46 22 | 331.3 | 61.4 | 9.12294 | | | | | |
| | | 64.2 | 1.2 ,, | 6 10 35 | 334.2 | 62.1 | 9.12364 | | | | | |
| | 21 | 69.7 | 1.0 ,, | 9 59 04 | 332.6 | 63.0 | 9.12254 | 60.2 | 5.2280 | 327.7 | 60.2 | |
| | | 69.1 | 1.1 ,, | 7 46 11 | 332.8 | 64.1 | 9.12283 | | | | | |
| | | 69.9 | 1.2 ,, | 6 10 20 | 334.2 | 64.7 | 9.12342 | | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | | | | | | | | | | |
|------------|-------------------------|--------|-------|--|-------------------|---------------|----------|-------------------|-------------------|--------|------------------|--------|-------|--------|-------|--------|--------|-------|------|-------|
| | Log. Values of $m X$ | m | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X | | | | | | | | | |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | | | | | | | | | | |
| 0.22281 | 0.4730 | 3.5318 | 369.1 | 59.2 | 3.5345 | 368.4 | 60.2 | 369.6 | 3.5340 | 1849 | | | | | | | | | | |
| 0.22300 | 0.4721 | 3.5381 | | | | | | | | 16 | | | | | | | | | | |
| 0.22325 | 0.4728 | 3.5340 | 366.9 | 60.6 | | | | | | 3.5358 | 367.0 | 73.0 | 370.2 | 3.5328 | 17 | | | | | |
| 0.22307 | 0.4733 | 3.5324 | | | | | | | | | | | | | 369.1 | 60.8 | 3.5353 | 350.8 | 73.2 | 356.2 |
| 0.22307 | 0.4732 | 3.5329 | 368.4 | 70.5 | | | | | | | | | | | | | | | | |
| 0.23282 | 0.4728 | 3.5354 | | | | | | | | 368.0 | 72.4 | 3.5353 | 350.8 | 73.2 | 356.2 | 3.5350 | 20 | | | |
| 0.22237 | 0.4722 | 3.5337 | 364.6 | 76.2 | | | | | | | | | | | | | 3.5353 | 350.8 | 73.2 | 356.2 |
| 0.22184 | 0.4723 | 3.5332 | | | | | | | | 352.0 | 70.3 | 3.5353 | 350.8 | 73.2 | 356.2 | 3.5350 | | | | |
| 0.22327 | 0.4719 | 3.5366 | 349.0 | 76.0 | | | | | | | | | | | | | 3.5353 | 350.8 | 73.2 | 356.2 |
| 0.22266 | 0.4725 | 3.5382 | | | | | | | | 338.5 | 68.9 | 3.5334 | 338.2 | 70.8 | 344.4 | 3.5350 | | | | |
| 0.22289 | 0.4727 | 3.5370 | 338.6 | 70.9 | 3.5334 | 338.2 | 70.8 | 344.4 | 3.5350 | | | | | | | | 17 | | | |
| — | 0.4726 | 3.5373 | | | | | | | | 337.5 | 72.6 | 3.5334 | 338.2 | 70.8 | 344.4 | 3.5350 | 18 | | | |
| 0.22226 | 0.4728 | 3.5354 | 333.4 | 60.6 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 19 | | | |
| 0.22191 | 0.4732 | 3.5329 | | | | | | | | 334.0 | 61.1 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 20 | | | |
| 0.22195 | 0.4714 | 3.5369 | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 21 | | | |
| 0.22194 | 0.4716 | 3.5352 | | | | | | | | 333.4 | 60.6 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 19 | | | |
| 0.22116 | 0.4712 | 3.5321 | 334.0 | 61.1 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 20 | | | |
| 0.22164 | 0.4714 | 3.5315 | | | | | | | | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 21 | | | |
| 0.22000 | 0.4698 | 3.5347 | 333.4 | 60.6 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 19 | | | |
| 0.22042 | 0.4701 | 3.5323 | | | | | | | | 334.0 | 61.1 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 20 | | | |
| 0.22062 | 0.4699 | 3.5338 | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 21 | | | |
| 0.22068 | 0.4698 | 3.5381 | | | | | | | | 333.4 | 60.6 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 19 | | | |
| 0.22008 | 0.4704 | 3.5336 | 334.0 | 61.1 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 20 | | | |
| 0.22019 | 0.4705 | 3.5338 | | | | | | | | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 21 | | | |
| 0.21903 | 0.4699 | 3.5325 | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 19 | | | |
| 0.21910 | 0.4692 | 3.5297 | | | | | | | | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 20 | | | |
| 0.21980 | 0.4689 | 3.5370 | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 21 | | | |
| | 0.4690 | 3.5358 | | | | | | | | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 19 | | | |
| | 0.4694 | 3.5334 | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | | | | | | | | 20 | | | |
| | 0.4694 | 3.5334 | | | | | | | | 334.5 | 63.5 | 3.5320 | 334.0 | 61.7 | 337.3 | 3.5333 | 21 | | | |

| Magnets employed I. 15 suspended 3.00 inches ; | | | | | | | | | | | |
|--|--------------------------------|--|--|-----------------------|-----------------------|---------------------------------|--------------------------------|--|-----------------------|--------------------|------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', w', &c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | <i>k</i> = .00036 | <i>q</i> = .000114 | | | | <i>k</i> = .00036 | <i>q</i> = .000114 | |
| | | | | Sc. Div. | Therm. | | Seconds. | Sc. Div. | Therm. | | |
| 1849 | ° | Feet. | ° ' " | ° | ° | | | | ° | | |
| October. | 16 | 57.6 | 1.0 + $\frac{1}{2} l$ | 10 00 38 | 332.7 | 56.7 | 9.12349 | 57.4 | 5.2363 | 332.2 | 56.7 |
| | | 58.1 | 1.1 ,, | 7 46 55 | 333.7 | 56.8 | 9.12336 | | | | |
| | 17 | 58.1 | 1.2 ,, | 6 10 12 | 335.2 | 57.1 | 9.12310 | 57.8 | 5.2335 | 336.0 | 57.2 |
| | | 58.4 | 1.0 ,, | 10 00 13 | 331.5 | 58.8 | 9.12320 | | | | |
| | | 58.0 | 1.1 ,, | 7 47 21 | 335.1 | 59.0 | 9.12376 | 53.6 | 5.2325 | 330.2 | 58.7 |
| | | 58.2 | 1.2 ,, | 6 10 20 | 337.8 | 59.3 | 9.12326 | | | | |
| | | 54.3 | 1.0 ,, | 10 01 25 | 330.7 | 56.2 | 9.12300 | 59.6 | 5.2333 | 338.2 | 59.7 |
| | | 55.5 | 1.1 ,, | 7 46 27 | 332.4 | 56.4 | 9.12289 | | | | |
| | | 56.9 | 1.2 ,, | 6 10 04 | 337.4 | 55.1 | 9.12294 | 51.0 | 5.2309 | 330.0 | 55.9 |
| | | November. | 16 | 57.1 | 1.0 + $\frac{1}{2} l$ | 9 59 38 | 332.3 | | | | |
| 57.6 | 1.1 ,, | | | 7 46 25 | 334.0 | 50.4 | 9.12291 | | | | |
| 17 | 56.4 | | 1.2 ,, | 6 09 38 | 335.8 | 50.4 | 9.12242 | 52.4 | 5.2365 | 336.9 | 51.4 |
| | 55.3 | | 1.0 ,, | 9 59 03 | 332.6 | 50.9 | 9.12242 | | | | |
| | 62.0 | | 1.1 ,, | 7 45 41 | 334.4 | 51.2 | 9.12228 | 59.2 | 5.2319 | 338.2 | 52.3 |
| | 59.3 | | 1.2 ,, | 6 10 21 | 338.3 | 51.9 | 9.12330 | | | | |
| | 65.0 | | 1.0 ,, | 10 00 10 | 331.4 | 52.5 | 9.12326 | 53.3 | 5.2275 | 332.5 | 52.2 |
| | 62.2 | | 1.1 ,, | 7 45 55 | 330.8 | 52.9 | 9.12251 | | | | |
| | 57.0 | | 1.2 ,, | 6 10 11 | 333.8 | 53.2 | 9.12308 | 56.0 | 5.2358 | 336.1 | 53.6 |
| | December. | | 18 | 51.7 | 1.0 + $\frac{1}{2} l$ | 9 58 48 | 331.0 | | | | |
| 52.5 | | 1.1 ,, | | 7 46 01 | 330.7 | 42.7 | 9.12245 | | | | |
| 19 | | 53.3 | 1.2 ,, | 6 09 25 | 331.8 | 42.8 | 9.12213 | 52.8 | 5.2396 | 333.7 | 43.3 |
| | | 54.5 | 1.0 ,, | 9 58 35 | 332.6 | 42.5 | 9.12198 | | | | |
| | | 54.0 | 1.1 ,, | 7 45 30 | 333.3 | 42.9 | 9.12200 | 44.4 | 5.2373 | 332.5 | 42.1 |
| | | 53.7 | 1.2 ,, | 6 09 24 | 333.3 | 43.3 | 9.12212 | | | | |
| | | 58.1 | 1.0 ,, | 9 58 45 | 332.5 | 52.2 | 9.12215 | 54.5 | 5.2366 | 333.2 | 43.8 |
| | | 59.1 | 1.1 ,, | 7 46 08 | 331.0 | 52.3 | 9.12266 | | | | |
| | | 57.8 | 1.2 ,, | 6 08 56 | 329.0 | 52.6 | 9.12163 | 50.8 | 5.2395 | 333.2 | 52.0 |
| | | 1850 | 16 | 63.5 | 1.0 + $\frac{1}{2} l$ | 9 58 20 | 334.0 | | | | |
| 67.9 | 1.1 ,, | | | 7 45 06 | 335.3 | 46.9 | 9.12243 | | | | |
| 17 | 59.4 | | 1.2 ,, | 6 09 31 | 336.2 | 47.4 | 9.12233 | 58.0 | 5.2396 | 336.0 | 47.5 |
| | 53.3 | | 1.0 ,, | 9 58 11 | 333.3 | 48.4 | 9.12168 | | | | |
| | 60.8 | | 1.1 ,, | 7 44 38 | 334.2 | 48.5 | 9.12129 | 39.0 | 5.2392 | 331.5 | 48.1 |
| | 59.5 | | 1.2 ,, | 6 09 00 | 335.3 | 48.8 | 9.12180 | | | | |
| | 56.8 | | 1.0 ,, | 9 58 32 | 332.1 | 48.5 | 9.12199 | 57.3 | 5.2384 | 336.4 | 49.1 |
| | 66.1 | | 1.1 ,, | 7 45 48 | 330.8 | 48.8 | 9.12244 | | | | |
| | 62.5 | | 1.2 ,, | 6 09 32 | 331.7 | 48.8 | 9.12265 | 39.2 | 5.2416 | 334.0 | 48.0 |
| | January. | | 16 | 55.6 | 1.0 + $\frac{1}{2} l$ | 9 58 54 | 319.7 | | | | |
| 61.2 | | 1.1 ,, | | 7 45 17 | 321.9 | 42.4 | 9.12188 | | | | |
| 17 | | 54.2 | 1.2 ,, | 6 09 08 | 324.3 | 43.6 | 9.12181 | 58.0 | 5.2414 | 326.4 | 44.6 |
| | | 59.2 | 1.0 ,, | 9 58 26 | 322.5 | 46.2 | 9.12193 | | | | |
| | | 58.0 | 1.1 ,, | 7 45 21 | 324.1 | 46.8 | 9.12191 | 52.0 | 5.2391 | 328.5 | 47.4 |
| | | 54.7 | 1.2 ,, | 6 09 25 | 327.5 | 47.4 | 9.12215 | | | | |
| | | 49.4 | 1.0 ,, | 9 58 10 | 324.0 | 45.9 | 9.12161 | 30.5 | 5.2405 | 326.8 | 46.5 |
| | | 48.3 | 1.1 ,, | 7 44 17 | 322.3 | 45.5 | 9.12080 | | | | |
| | | 58.0 | 1.2 ,, | 6 08 31 | 322.8 | 45.2 | 9.12115 | 50.8 | 5.2405 | 325.3 | 45.2 |
| | | February. | 16 | 55.6 | 1.0 + $\frac{1}{2} l$ | 9 58 54 | 319.7 | | | | |
| 61.2 | 1.1 ,, | | | 7 45 17 | 321.9 | 42.4 | 9.12188 | | | | |
| 18 | 54.2 | | 1.2 ,, | 6 09 08 | 324.3 | 43.6 | 9.12181 | 52.0 | 5.2414 | 326.4 | 44.6 |
| | 59.2 | | 1.0 ,, | 9 58 26 | 322.5 | 46.2 | 9.12193 | | | | |
| | 58.0 | | 1.1 ,, | 7 45 21 | 324.1 | 46.8 | 9.12191 | 58.0 | 5.2376 | 323.3 | 46.0 |
| | 54.7 | | 1.2 ,, | 6 09 25 | 327.5 | 47.4 | 9.12215 | | | | |
| | 49.4 | | 1.0 ,, | 9 58 10 | 324.0 | 45.9 | 9.12161 | 52.0 | 5.2391 | 328.5 | 47.4 |
| | 48.3 | | 1.1 ,, | 7 44 17 | 322.3 | 45.5 | 9.12080 | | | | |
| | 58.0 | | 1.2 ,, | 6 08 31 | 322.8 | 45.2 | 9.12115 | 30.5 | 5.2405 | 326.8 | 46.5 |
| | 19 | | 48.3 | 1.1 ,, | 7 44 17 | 322.3 | 45.5 | | | | |
| 58.0 | | 1.2 ,, | 6 08 31 | 322.8 | 45.2 | 9.12115 | 50.8 | 5.2405 | 325.3 | 45.2 | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | |
|------------|-------------------------|--------|-------|--|-------------------|---------------|----------|-------------------|-------------------|-------|------------------|
| | Log. Values of $m X$ | m | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | |
| | | | | | | | | | | 1849 | |
| 0.21796 | 0.4685 | 3.5256 | 335.1 | 57.1 | 3.5279 | 336.0 | 57.3 | 334.6 | 3.5253 | 16 | October. |
| | 0.4685 | 3.5262 | | | | | | | | | |
| | 0.4683 | 3.5273 | | | | | | | | | |
| 0.21828 | 0.4685 | 3.5281 | 336.5 | 58.5 | 3.5279 | 336.0 | 57.3 | 334.6 | 3.5253 | 17 | October. |
| | 0.4689 | 3.5259 | | | | | | | | | |
| | 0.4686 | 3.5280 | | | | | | | | | |
| 0.21850 | 0.4686 | 3.5299 | 336.3 | 56.2 | 3.5279 | 336.0 | 57.3 | 334.6 | 3.5253 | 18 | October. |
| | 0.4685 | 3.5303 | | | | | | | | | |
| | 0.4685 | 3.5301 | | | | | | | | | |
| 0.21801 | 0.4682 | 3.5287 | 337.4 | 51.0 | 3.5300 | 336.9 | 51.9 | 334.9 | 3.5288 | 16 | November. |
| | 0.4683 | 3.5282 | | | | | | | | | |
| | 0.4680 | 3.5302 | | | | | | | | | |
| 0.21846 | 0.4682 | 3.5320 | 338.1 | 51.7 | 3.5300 | 336.9 | 51.9 | 334.9 | 3.5288 | 17 | November. |
| | 0.4681 | 3.5327 | | | | | | | | | |
| | 0.4687 | 3.5285 | | | | | | | | | |
| 0.21848 | 0.4686 | 3.5287 | 335.3 | 53.0 | 3.5300 | 336.9 | 51.9 | 334.9 | 3.5288 | 19 | November. |
| | 0.4683 | 3.5318 | | | | | | | | | |
| | 0.4686 | 3.5294 | | | | | | | | | |
| 0.21715 | 0.4674 | 3.5280 | 332.8 | 43.0 | 3.5286 | 332.7 | 46.4 | 329.1 | 3.5275 | 18 | December. |
| | 0.4676 | 3.5266 | | | | | | | | | |
| | 0.4674 | 3.5279 | | | | | | | | | |
| 0.21757 | 0.4675 | 3.5303 | 334.3 | 44.4 | 3.5286 | 332.7 | 46.4 | 329.1 | 3.5275 | 19 | December. |
| | 0.4675 | 3.5301 | | | | | | | | | |
| | 0.4676 | 3.5297 | | | | | | | | | |
| 0.21728 | 0.4675 | 3.5284 | 331.1 | 51.9 | 3.5286 | 332.7 | 46.4 | 329.1 | 3.5275 | 20 | December. |
| | 0.4677 | 3.5263 | | | | | | | | | |
| | 0.4672 | 3.5305 | | | | | | | | | |
| | | | | | | | | | | 1850 | |
| 0.21724 | 0.4669 | 3.5291 | 335.4 | 47.2 | 3.5280 | 334.8 | 47.7 | 328.0 | 3.5223 | 16 | January. |
| | 0.4675 | 3.5270 | | | | | | | | | |
| | 0.4675 | 3.5275 | | | | | | | | | |
| 0.21736 | 0.4672 | 3.5306 | 335.9 | 48.8 | 3.5280 | 334.8 | 47.7 | 328.0 | 3.5223 | 17 | January. |
| | 0.4670 | 3.5322 | | | | | | | | | |
| | 0.4673 | 3.5301 | | | | | | | | | |
| 0.21673 | 0.4670 | 3.5267 | 333.1 | 47.2 | 3.5280 | 334.8 | 47.7 | 328.0 | 3.5223 | 18 | January. |
| | 0.4672 | 3.5249 | | | | | | | | | |
| | 0.4674 | 3.5241 | | | | | | | | | |
| 0.21652 | 0.4671 | 3.5250 | 326.0 | 43.7 | 3.5284 | 326.3 | 44.9 | 321.7 | 3.5265 | 16 | February. |
| | 0.4669 | 3.5264 | | | | | | | | | |
| | 0.4669 | 3.5267 | | | | | | | | | |
| 0.21737 | 0.4674 | 3.5296 | 325.8 | 46.8 | 3.5284 | 326.3 | 44.9 | 321.7 | 3.5265 | 18 | February. |
| | 0.4674 | 3.5297 | | | | | | | | | |
| | 0.4675 | 3.5287 | | | | | | | | | |
| 0.21699 | 0.4670 | 3.5253 | 327.0 | 44.3 | 3.5284 | 326.3 | 44.9 | 321.7 | 3.5265 | 19 | February. |
| | 0.4666 | 3.5327 | | | | | | | | | |
| | 0.4668 | 3.5312 | | | | | | | | | |

Magnets employed I. 15 suspended 3.00 inches ;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
|--------|--------------------------------|---------------------------------|--|-----------------------|---------------|---------------------------------|--------------------------------|--|-----------------------|---------------|-------|
| | Tem- perature of Magnet. | Distances. $r, r', r'', &c.$ | Angles. $u, u', u'', &c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | $k = .00036$ | $q = .000114$ | | | | $k = .00036$ | $q = .000114$ | |
| | | | Sc. Div. | Therm. | | | Seconds. | Sc. Div. | Therm. | | |
| 1850 | | Feet. | ° ' " | ° | ° | | | | | | |
| March. | 18 | 69.0 | 1.0 + $\frac{1}{2} l$ | 9 58 12 | 317.8 | 44.6 | 9.12191 | 42.6 | 5.2381 | 318.1 | 44.2 |
| | | 66.3 | 1.1 ,, | 7 44 21 | 320.1 | 44.8 | 9.12110 | | | | |
| | 61.8 | 1.2 ,, | 6 09 33 | 322.3 | 45.1 | 9.12242 | 57.8 | 5.2377 | 323.3 | 45.2 | |
| | 68.3 | 1.0 ,, | 9 57 14 | 319.5 | 44.6 | 9.12118 | 38.5 | 5.2382 | 320.5 | 44.6 | |
| | 19 | 73.3 | 1.1 ,, | 7 44 09 | 319.2 | 44.9 | 9.12100 | | | | |
| | | 70.4 | 1.2 ,, | 6 08 24 | 320.8 | 45.3 | 9.12117 | 63.2 | 5.2293 | 323.7 | 46.1 |
| | 20 | 56.3 | 1.0 ,, | 9 57 04 | 321.1 | 44.3 | 9.12091 | 29.3 | 5.2409 | 321.8 | 43.6 |
| | | 62.3 | 1.1 ,, | 7 44 51 | 322.2 | 44.8 | 9.12150 | | | | |
| | 61.2 | 1.2 ,, | 6 08 55 | 323.7 | 45.5 | 9.12167 | 55.0 | 5.2405 | 325.4 | 46.4 | |
| | April. | 17 | 52.9 | 1.0 + $\frac{1}{2} l$ | 9 57 46 | 315.9 | 43.8 | 9.12131 | 33.3 | 5.2398 | 314.9 |
| 54.0 | | | 1.1 ,, | 7 44 54 | 318.9 | 44.0 | 9.12144 | | | | |
| 53.9 | | | 1.2 ,, | 6 08 21 | 322.8 | 44.4 | 9.12089 | 52.4 | 5.2402 | 323.0 | 44.9 |
| 18 | | 63.8 | 1.0 ,, | 9 57 25 | 320.8 | 47.0 | 9.12122 | 38.3 | 5.2403 | 315.7 | 45.9 |
| | | 64.6 | 1.1 ,, | 7 44 42 | 322.3 | 47.2 | 9.12140 | | | | |
| 19 | | 64.2 | 1.2 ,, | 6 08 52 | 322.4 | 47.3 | 9.12162 | 62.5 | 5.2411 | 324.2 | 47.6 |
| | | 65.2 | 1.0 ,, | 9 57 15 | 317.2 | 49.1 | 9.12116 | 48.5 | 5.2392 | 317.0 | 48.4 |
| 21 | | 65.2 | 1.1 ,, | 7 44 46 | 317.9 | 49.5 | 9.12147 | | | | |
| | | 61.3 | 1.2 ,, | 6 08 03 | 322.9 | 50.2 | 9.12102 | 60.8 | 5.2402 | 324.0 | 51.3 |
| May. | | 18 | 51.6 | 1.0 + $\frac{1}{2} l$ | 9 58 04 | 313.3 | 50.9 | 9.12156 | 48.0 | 5.2387 | 309.6 |
| | 53.0 | | 1.1 ,, | 7 45 15 | 316.4 | 51.7 | 9.12176 | | | | |
| | 54.7 | | 1.2 ,, | 6 08 50 | 318.3 | 52.6 | 9.12146 | 53.9 | 5.2406 | 317.2 | 53.4 |
| | 20 | 63.1 | 1.0 ,, | 9 57 45 | 312.4 | 47.2 | 9.12145 | 50.2 | 5.2400 | 310.6 | 47.2 |
| | | 64.4 | 1.1 ,, | 7 44 40 | 315.7 | 47.1 | 9.12136 | | | | |
| | 21 | 62.1 | 1.2 ,, | 6 08 13 | 318.2 | 46.8 | 9.12084 | 50.8 | 5.2432 | 320.4 | 46.9 |
| | | 56.9 | 1.0 ,, | 9 58 00 | 314.9 | 47.4 | 9.12159 | 49.5 | 5.2418 | 313.1 | 47.1 |
| | 21 | 58.1 | 1.1 ,, | 7 44 40 | 315.9 | 48.0 | 9.12128 | | | | |
| | | 57.9 | 1.2 ,, | 6 08 42 | 317.7 | 49.1 | 9.12134 | 58.0 | 5.2401 | 316.1 | 50.1 |
| | June. | 17 | 68.0 | 1.0 + $\frac{1}{2} l$ | 9 57 50 | 314.9 | 62.9 | 9.12161 | 63.3 | 5.2443 | 312.6 |
| 68.5 | | | 1.1 ,, | 7 43 33 | 316.8 | 64.2 | 9.12037 | | | | |
| 70.2 | | | 1.2 ,, | 6 08 07 | 316.8 | 65.3 | 9.12081 | 70.3 | 5.2466 | 316.2 | 65.7 |
| 18 | | 75.9 | 1.0 ,, | 9 56 42 | 315.0 | 69.3 | 9.12079 | 71.0 | 5.2432 | 313.9 | 68.2 |
| | | 77.6 | 1.1 ,, | 7 42 34 | 318.2 | 70.1 | 9.11946 | | | | |
| 19 | | 78.0 | 1.2 ,, | 6 07 07 | 319.3 | 72.3 | 9.11961 | 78.2 | 5.2418 | 318.9 | 73.8 |
| | | 79.7 | 1.0 ,, | 9 53 14 | 315.3 | 73.5 | 9.11844 | 75.3 | 5.2518 | 316.0 | 72.2 |
| 19 | | 79.8 | 1.1 ,, | 7 43 04 | 316.3 | 74.0 | 9.12022 | | | | |
| | | 80.2 | 1.2 ,, | 6 07 57 | 315.6 | 75.2 | 9.12077 | 80.7 | 5.2465 | 317.9 | 75.8 |
| July. | | 16 | 79.7 | 1.0 + $\frac{1}{2} l$ | 9 15 36 | 319.0 | 75.9 | 9.09019 | 76.8 | 5.4460 | 313.1 |
| | 80.4 | | 1.1 ,, | 7 12 54 | 317.9 | 76.4 | 9.09019 | | | | |
| | 80.5 | | 1.2 ,, | 5 43 03 | 319.6 | 76.6 | 9.09141 | 79.9 | 5.4433 | 320.2 | 76.7 |
| | 17 | 85.1 | 1.0 ,, | 9 17 15 | 317.1 | 79.6 | 9.09169 | 81.9 | 5.4458 | 315.0 | 78.6 |
| | | 82.7 | 1.1 ,, | 7 11 30 | 317.7 | 79.8 | 9.08963 | | | | |
| | 18 | 79.0 | 1.2 ,, | 5 42 41 | 319.1 | 79.7 | 9.08996 | 80.2 | 5.4429 | 319.9 | 79.1 |
| | | 70.5 | 1.0 ,, | 9 13 31 | 315.6 | 68.4 | 9.08851 | 68.0 | 5.4522 | 314.0 | 68.9 |
| | 18 | 71.8 | 1.1 ,, | 7 11 20 | 320.1 | 68.5 | 9.08931 | | | | |
| | | 73.4 | 1.2 ,, | 5 42 46 | 329.3 | 69.3 | 9.09002 | 71.8 | 5.4436 | 320.0 | 69.8 |

Magnets employed I. 15 suspended 3.00 inches;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
|------------|--------------------------------|----------------------------------|---|-----------------------|---------------|---------------------------------|--------------------------------|--|-----------------------|---------------|------|
| | Tem- perature of Magnet. | Distances. $r, r', r'', \&c.$ | Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | $k = .00036$ | $q = .000114$ | | | | $k = .00036$ | $q = .000114$ | |
| | | | Sc. Div. | Therm. | | | Seconds. | Sc. Div. | Therm. | | |
| 1850 | ° | Feet. | ° ' " | ° | ° | | ° | | ° | | |
| August. | 16 | 72.0 | 1.0 + $\frac{1}{2} l$ | 9 15 00 | 316.7 | 68.3 | 9.08969 | 68.2 | 5.4521 | 313.6 | 67.9 |
| | | 70.9 | 1.1 ,, | 7 13 35 | 318.9 | 68.8 | 9.09155 | | | | |
| | | 71.8 | 1.2 ,, | 5 44 06 | 317.2 | 68.8 | 9.09168 | | | | |
| | | 67.8 | 1.0 ,, | 9 16 43 | 314.8 | 64.8 | 9.09095 | | | | |
| | 17 | 67.5 | 1.1 ,, | 7 13 11 | 314.5 | 65.0 | 9.09111 | 67.8 | 5.4552 | 315.8 | 65.4 |
| | | 67.8 | 1.2 ,, | 5 43 36 | 316.4 | 65.3 | 9.09098 | | | | |
| | | 69.4 | 1.0 ,, | 9 17 34 | 309.2 | 66.5 | 9.09164 | | | | |
| | | 68.7 | 1.1 ,, | 7 13 34 | 312.0 | 66.6 | 9.09150 | | | | |
| 19 | 68.1 | 1.2 ,, | 5 43 53 | 310.7 | 66.8 | 9.09133 | 68.6 | 5.4493 | 310.7 | 66.7 | |
| | | | | | | | | | | | |
| September. | 16 | 66.3 | 1.0 + $\frac{1}{2} l$ | 9 15 54 | 307.5 | 60.9 | 9.09026 | 62.0 | 5.4528 | 305.0 | 59.9 |
| | | 66.6 | 1.1 ,, | 7 12 33 | 310.7 | 62.0 | 9.09047 | | | | |
| | | 67.5 | 1.2 ,, | 5 43 04 | 310.0 | 62.5 | 9.09038 | | | | |
| | | 65.7 | 1.0 ,, | 9 15 39 | 307.4 | 61.1 | 9.09010 | | | | |
| | 17 | 67.2 | 1.1 ,, | 7 12 57 | 310.4 | 62.4 | 9.09086 | 67.8 | 5.4522 | 310.3 | 63.6 |
| | | 67.6 | 1.2 ,, | 5 43 17 | 310.7 | 63.0 | 9.09056 | | | | |
| | | 72.3 | 1.0 ,, | 9 16 15 | 307.1 | 66.5 | 9.09066 | | | | |
| | | 72.2 | 1.1 ,, | 7 12 54 | 311.6 | 67.2 | 9.09086 | | | | |
| 18 | 72.6 | 1.2 ,, | 5 43 24 | 313.8 | 68.2 | 9.09078 | 72.1 | 5.4556 | 312.2 | 68.6 | |
| | | | | | | | | | | | |
| October. | 15 | 62.2 | 1.0 + $\frac{1}{2} l$ | 9 12 57 | 313.1 | 51.6 | 9.08797 | 50.4 | 5.4538 | 311.6 | 50.7 |
| | | 65.4 | 1.1 ,, | 7 09 22 | 313.4 | 51.5 | 9.08725 | | | | |
| | | 65.3 | 1.2 ,, | 5 41 05 | 313.2 | 52.5 | 9.08775 | | | | |
| | | 64.2 | 1.0 ,, | 9 12 48 | 314.7 | 52.9 | 9.08787 | | | | |
| | 16 | 58.0 | 1.0 ,, | 9 12 43 | 312.7 | 53.5 | 9.08773 | 61.6 | 5.4570 | 311.1 | 53.4 |
| | | 60.5 | 1.1 ,, | 7 10 01 | 313.1 | 54.3 | 9.08776 | | | | |
| | | 60.5 | 1.2 ,, | 5 42 17 | 315.0 | 55.1 | 9.08823 | | | | |
| | | 59.9 | 1.0 ,, | 9 12 53 | 315.5 | 56.0 | 9.08789 | | | | |
| 17 | 64.5 | 1.0 ,, | 9 12 42 | 311.6 | 59.6 | 9.08782 | 58.0 | 5.4539 | 314.8 | 57.7 | |
| | | | | | | | | | | | |
| November. | 19 | 44.0 | 1.0 + $\frac{1}{2} l$ | 9 10 29 | 310.0 | 45.5 | 9.08580 | 41.9 | 5.4582 | 309.0 | 45.3 |
| | | 50.6 | 1.1 ,, | 7 08 49 | 311.9 | 46.0 | 9.08651 | | | | |
| | | 51.7 | 1.2 ,, | 5 40 53 | 315.5 | 46.8 | 9.08731 | | | | |
| | | 54.7 | 1.0 ,, | 9 10 26 | 309.2 | 47.2 | 9.08590 | | | | |
| | 20 | 62.8 | 1.1 ,, | 7 09 04 | 312.8 | 47.4 | 9.08692 | 48.3 | 5.4526 | 306.9 | 47.2 |
| | | 60.6 | 1.2 ,, | 5 40 36 | 315.2 | 47.6 | 9.08709 | | | | |
| | | 56.3 | 1.0 ,, | 9 12 12 | 309.7 | 46.4 | 9.08731 | | | | |
| | | 61.8 | 1.1 ,, | 7 09 17 | 313.5 | 46.3 | 9.08713 | | | | |
| 21 | 66.1 | 1.2 ,, | 5 40 56 | 314.0 | 46.3 | 9.08757 | 63.4 | 5.4527 | 312.8 | 46.6 | |
| | | | | | | | | | | | |
| December. | 16 | — | 1.0 + $\frac{1}{2} l$ | 9 12 30 | 310.3 | 41.9 | 9.08745 | 41.2 | 5.4547 | 310.2 | 41.4 |
| | | — | 1.1 ,, | 7 09 06 | 311.2 | 43.4 | 9.08679 | | | | |
| | | 55.7 | 1.2 ,, | 5 41 42 | 311.9 | 43.3 | 9.08741 | | | | |
| | | 49.7 | 1.0 ,, | 9 11 57 | 305.4 | 41.2 | 9.08701 | | | | |
| | 17 | 65.4 | 1.1 ,, | 7 09 50 | 307.3 | 41.0 | 9.08773 | 55.1 | 5.4666 | 312.6 | 43.2 |
| | | 59.5 | 1.2 ,, | 5 40 55 | 306.0 | 41.1 | 9.08747 | | | | |
| | | 50.7 | 1.0 ,, | 9 12 16 | 306.8 | 43.5 | 9.08728 | | | | |
| | | 54.4 | 1.1 ,, | 7 09 28 | 305.5 | 43.4 | 9.08731 | | | | |
| 18 | 54.1 | 1.2 ,, | 5 40 54 | 311.9 | 43.7 | 9.08739 | 30.3 | 5.4583 | 303.2 | 41.7 | |
| | | | | | | | | | | | |
| | | | | | | | 54.9 | 5.4676 | 309.6 | 41.2 | |
| | | | | | | | | | | | 28.7 |
| | | | | | | | 49.2 | 5.4642 | 311.0 | 43.6 | |

I. 18 Deflecting 3.67 inches.

| Vibration. | | Results. | | | Means. | | | Monthly Means. | | Date. | | | | | | | |
|----------------------|--------|----------|-------------------------------------|--------------|-------------|----------|--------------|----------------|-------------|--------|---------|-------|-------|--------|--------|-----------|------------|
| Log. Values of $m X$ | m | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | Values of X | | | | | | | | |
| | | | Mean reading on day of observation. | Temperature. | | Sc. Div. | Temperature. | | | | | | | | | | |
| | | | | | | | | | | 1850 | | | | | | | |
| 0.18238 | 0.4325 | 3.5184 | 313.7 | 66.9 | 3.5138 | 312.4 | 66.0 | 320.1 | 3.5192 | 16 | August. | | | | | | |
| | 0.4335 | 3.5109 | | | | | | | | | | | | | | | |
| | 0.4335 | 3.5104 | | | | | | | | | | | | | | | |
| 0.18256 | 0.4333 | 3.5141 | 312.8 | 64.7 | | | | | | | | | | | | | |
| | 0.4334 | 3.5134 | | | | | | | | | | | | | | | |
| | 0.4333 | 3.5139 | | | | | | | | | | | | | | | |
| 0.18317 | 0.4339 | 3.5138 | 310.6 | 66.3 | | | | | | | | | | | | | |
| | 0.4338 | 3.5143 | | | | | | | | | | | | | | | |
| | 0.4337 | 3.5150 | | | | | | | | | | | | | | | |
| 0.18237 | 0.4328 | 3.5158 | 308.2 | 61.5 | | | | | | 3.5155 | | 308.9 | 63.6 | 311.8 | 3.5159 | 16 | September. |
| | 0.4329 | 3.5153 | | | | | | | | | | | | | | | |
| | 0.4328 | 3.5157 | | | | | | | | | | | | | | | |
| 0.18266 | 0.4328 | 3.5180 | 309.4 | 62.7 | | | | | | | | | | | | | |
| | 0.4334 | 3.5148 | | | | | | | | | | | | | | | |
| | 0.4331 | 3.5161 | | | | | | | | | | | | | | | |
| 0.18251 | 0.4330 | 3.5151 | 309.1 | 66.5 | | | | | | | | | | | | | |
| | 0.4331 | 3.5142 | | | | | | | | | | | | | | | |
| | 0.4331 | 3.5146 | | | | | | | | | | | | | | | |
| 0.18209 | 0.4318 | 3.5243 | 313.2 | 52.6 | 3.5252 | 314.5 | 55.9 | 312.5 | 3.5223 | | 15 | | | | | October. | |
| | 0.4315 | 3.5272 | | | | | | | | | | | | | | | |
| | 0.4318 | 3.5252 | | | | | | | | | | | | | | | |
| | 0.4318 | 3.5247 | | | | | | | | | | | | | | | |
| 0.18212 | 0.4318 | 3.5253 | 314.7 | 55.3 | | | | | | | | | | | | | |
| | 0.4319 | 3.5249 | | | | | | | | | | | | | | | |
| | 0.4321 | 3.5233 | | | | | | | | | | | | | | | |
| | 0.4319 | 3.5247 | | | | | | | | | | | | | | | |
| 0.18262 | 0.4321 | 3.5270 | 315.6 | 59.7 | | | | | | | | | | | | | |
| 0.18182 | 0.4304 | 3.5319 | 313.3 | 46.7 | | | | | | 3.5297 | 312.8 | 47.0 | 311.5 | 3.5312 | 19 | | November. |
| | 0.4307 | 3.5291 | | | | | | | | | | | | | | | |
| | 0.4311 | 3.5258 | | | | | | | | | | | | | | | |
| | 0.4308 | 3.5347 | | | | | | | | | | | | | | | |
| 0.18258 | 0.4312 | 3.5305 | 312.5 | 48.0 | | | | | | | | | | | | | |
| | 0.4313 | 3.5298 | | | | | | | | | | | | | | | |
| | 0.4314 | 3.5285 | | | | | | | | | | | | | | | |
| 0.18248 | 0.4313 | 3.5292 | 312.8 | 46.3 | | | | | | | | | | | | | |
| | 0.4313 | 3.5292 | | | | | | | | | | | | | | | |
| | 0.4315 | 3.5275 | | | | | | | | | | | | | | | |
| 0.18123 | 0.4264 | 3.5229 | 308.7 | 41.7 | 3.5219 | 308.9 | 43.5 | 306.4 | 3.5233 | | | | | | 16 | December. | |
| | 0.4306 | 3.5255 | | | | | | | | | | | | | | | |
| | 0.4309 | 3.5231 | | | | | | | | | | | | | | | |
| 0.18084 | 0.4305 | 3.5230 | 308.3 | 43.4 | | | | | | | | | | | | | |
| | 0.4307 | 3.5201 | | | | | | | | | | | | | | | |
| | 0.4307 | 3.5211 | | | | | | | | | | | | | | | |
| 0.18022 | 0.4303 | 3.5195 | 309.7 | 45.5 | | | | | | | | | | | | | |
| | 0.4303 | 3.5194 | | | | | | | | | | | | | | | |
| | 0.4307 | 3.5221 | | | | | | | | | | | | | | | |

Magnets employed I. 15 suspended 3.00 inches;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
|-----------|--------------------------------|--|---|-----------------------|--------------------|---------------------------------|--------------------------------|--|-----------------------|--------------------|------|
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', u'', &c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | <i>k</i> = .00036 | <i>q</i> = .000114 | | | | <i>k</i> = .00036 | <i>q</i> = .000114 | |
| | | | | Sc. Div. | Therm. | | | | Sc. Div. | Therm. | |
| 1851 | ° | Feet. | ° ' " | ° | ° | ° | Seconds. | ° | | | |
| January. | 15 | 49.0 | 1.0 + $\frac{1}{2} l$ | 9 11 51 | 302.2 | 48.2 | 9.08694 | 39.8 | 5.4602 | 304.7 | 47.8 |
| | | 48.8 | 1.1 ,, | 7 09 00 | 301.0 | 48.6 | 9.08668 | 55.6 | 5.4643 | 306.8 | 49.3 |
| | | 57.4 | 1.2 ,, | 5 40 30 | 306.2 | 49.2 | 9.08691 | | | | |
| | 16 | 68.3 | 1.0 ,, | 9 12 15 | 304.8 | 48.9 | 9.08747 | 49.2 | 5.4851 | 305.0 | 49.2 |
| | | 66.5 | 1.1 ,, | 7 09 28 | 303.4 | 48.5 | 9.08736 | 61.0 | 5.4693 | 305.2 | 48.8 |
| | | 63.2 | 1.2 ,, | 5 41 00 | 303.5 | 48.6 | 9.08762 | | | | |
| | 17 | 57.7 | 1.0 ,, | 9 12 02 | 298.7 | 43.9 | 9.08719 | 33.3 | 5.4670 | 299.7 | 43.8 |
| | | 55.8 | 1.1 ,, | 7 09 37 | 298.4 | 44.1 | 9.08738 | 53.6 | 5.4717 | 302.2 | 44.9 |
| | | 53.4 | 1.2 ,, | 5 40 40 | 300.0 | 44.5 | 9.08707 | | | | |
| February. | 17 | 70.7 | 1.0 + $\frac{1}{2} l$ | 9 10 50 | 302.3 | 39.9 | 9.08645 | 41.6 | 5.4622 | 300.6 | 39.1 |
| | | 70.2 | 1.1 ,, | 7 08 29 | 301.3 | 40.1 | 9.08643 | 58.7 | 5.4656 | 305.1 | 40.9 |
| | | 61.5 | 1.2 ,, | 5 40 34 | 304.7 | 40.6 | 9.08535 | | | | |
| | 18 | 46.7 | 1.0 ,, | 9 12 11 | 300.6 | 43.2 | 9.08717 | 31.9 | 5.4762 | 298.1 | 42.8 |
| | | 52.6 | 1.1 ,, | 7 09 25 | 302.3 | 43.4 | 9.08714 | 49.7 | 5.4773 | 304.0 | 44.6 |
| | | 50.3 | 1.2 ,, | 5 41 37 | 305.4 | 44.3 | 9.08823 | | | | |
| | 19 | 62.4 | 1.0 ,, | 9 12 08 | 295.4 | 45.3 | 9.08732 | 45.1 | 5.4764 | 290.1 | 44.3 |
| | | 57.6 | 1.1 ,, | 7 09 30 | 296.6 | 45.7 | 9.08727 | 52.0 | 5.4757 | 295.9 | 46.6 |
| | | 54.6 | 1.2 ,, | 5 40 20 | 295.5 | 46.2 | 9.08675 | | | | |
| March. | 17 | 55.5 | 1.0 + $\frac{1}{2} l$ | 9 10 33 | 294.3 | 45.5 | 9.08600 | 49.4 | 5.4588 | 294.2 | 45.3 |
| | | 55.8 | 1.1 ,, | 7 08 40 | 299.3 | 46.7 | 9.08646 | 55.4 | 5.4698 | 301.6 | 45.9 |
| | | 58.2 | 1.2 ,, | 5 39 57 | 300.9 | 46.1 | 9.08613 | | | | |
| | 18 | 61.5 | 1.0 ,, | 9 12 18 | 295.3 | 45.7 | 9.08745 | 42.2 | 5.4638 | 293.2 | 45.5 |
| | | 64.8 | 1.1 ,, | 7 09 39 | 296.3 | 45.9 | 9.08753 | 61.0 | 5.4614 | 302.6 | 47.4 |
| | | 59.9 | 1.2 ,, | 5 39 42 | 301.4 | 47.4 | 9.08593 | | | | |
| | 19 | 55.3 | 1.0 ,, | 9 10 25 | 294.5 | 43.6 | 9.08591 | 46.2 | 5.4628 | 295.2 | 43.4 |
| | | 59.2 | 1.1 ,, | 7 08 20 | 295.3 | 43.8 | 9.08613 | 62.7 | 5.4617 | 302.4 | 44.5 |
| | | 62.3 | 1.2 ,, | 5 39 55 | 299.6 | 44.2 | 9.08623 | | | | |
| April. | 15 | 57.4 | 1.0 + $\frac{1}{2} l$ | 9 11 01 | 297.5 | 48.3 | 9.08639 | 47.7 | 5.4628 | 296.3 | 48.9 |
| | | 56.9 | 1.1 ,, | 7 08 05 | 298.7 | 49.8 | 9.08586 | 54.0 | 5.4672 | 299.2 | 50.4 |
| | | 56.3 | 1.2 ,, | 5 39 45 | 299.2 | 50.1 | 9.08593 | | | | |
| | 16 | 56.7 | 1.0 ,, | 9 10 06 | 294.4 | 51.4 | 9.08567 | 45.3 | 5.4650 | 292.0 | 51.0 |
| | | 62.5 | 1.1 ,, | 7 08 02 | 299.1 | 51.9 | 9.08586 | 64.2 | 5.4654 | 302.1 | 52.7 |
| | | 64.5 | 1.2 ,, | 5 39 55 | 301.7 | 52.5 | 9.08627 | | | | |
| | 17 | 54.5 | 1.0 ,, | 9 11 14 | 294.9 | 55.3 | 9.08653 | 51.5 | 5.4711 | 299.5 | 55.8 |
| | | 53.8 | 1.1 ,, | 7 08 39 | 296.1 | 55.6 | 9.08638 | 52.2 | 5.4671 | 302.9 | 55.8 |
| | | 54.8 | 1.2 ,, | 5 39 57 | 301.8 | 55.7 | 9.08618 | | | | |
| May. | 15 | 57.6 | 1.0 + $\frac{1}{2} l$ | 9 10 06 | 292.1 | 57.7 | 9.08563 | 56.3 | 5.4625 | 289.5 | 57.2 |
| | | 57.0 | 1.1 ,, | 7 07 35 | 293.2 | 58.2 | 9.08536 | 57.7 | 5.4652 | 295.9 | 58.8 |
| | | 57.3 | 1.2 ,, | 5 39 53 | 295.2 | 58.5 | 9.08611 | | | | |
| | 16 | 60.8 | 1.0 ,, | 9 10 01 | 293.3 | 58.6 | 9.08565 | 56.5 | 5.4625 | 293.7 | 57.7 |
| | | 61.9 | 1.1 ,, | 7 09 29 | 294.4 | 59.3 | 9.08732 | 62.9 | 5.4629 | 294.3 | 60.3 |
| | | 62.3 | 1.2 ,, | 5 38 56 | 294.8 | 60.0 | 9.08492 | | | | |
| | 17 | 66.0 | 1.0 ,, | 9 10 34 | 289.5 | 61.9 | 9.08616 | 65.2 | 5.4696 | 288.5 | 61.5 |
| | | 66.3 | 1.1 ,, | 7 08 02 | 290.8 | 62.3 | 9.08592 | 65.7 | 5.4688 | 292.0 | 63.3 |
| | | 65.9 | 1.2 ,, | 5 39 45 | 290.0 | 63.0 | 9.08607 | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | |
|------------|-------------------------|--------|-------|--|-------------------|-------------|----------|-------------------|-------------------|-------|----------------|
| | Log. Values of $m X$ | m | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X |
| | | | | Mean reading on day of observation. | Tem- perature. | | Sc. Div. | Tem- perature. | | | |
| | | | | | | | | | | 1851 | |
| 0.18098 | 0.4305 | 3.5239 | 305.8 | 49.2 | 3.5189 | 302.2 | 47.3 | 300.3 | 3.5195 | 15 | January. |
| | 0.4304 | 3.5250 | | | | | | | | | |
| | 0.4305 | 3.5240 | | | | | | | | | |
| 0.17914 | 0.4298 | 3.5144 | 298.5 | 48.8 | | | | | | | |
| | 0.4297 | 3.5148 | | | | | | | | | |
| | 0.4299 | 3.5138 | | | | | | | | | |
| 0.17982 | 0.4300 | 3.5182 | 302.4 | 44.0 | | | | | | | |
| | 0.4301 | 3.5174 | | | | | | | | | |
| | 0.4300 | 3.5187 | | | | | | | | | |
| 0.18072 | 0.4300 | 3.5248 | 302.8 | 40.6 | 3.5172 | 297.8 | 43.7 | 297.1 | 3.5207 | 17 | February. |
| | 0.4300 | 3.5250 | | | | | | | | | |
| | 0.4295 | 3.5293 | | | | | | | | | |
| 0.17863 | 0.4295 | 3.5135 | 296.0 | 44.4 | | | | | | | |
| | 0.4294 | 3.5136 | | | | | | | | | |
| | 0.4300 | 3.5092 | | | | | | | | | |
| 0.17878 | 0.4295 | 3.5135 | 295.1 | 46.2 | | | | | | | |
| | 0.4296 | 3.5137 | | | | | | | | | |
| | 0.4293 | 3.5118 | | | | | | | | | |
| 0.18075 | 0.4299 | 3.5268 | 300.3 | 45.5 | 3.5252 | 301.0 | 45.5 | 296.7 | 3.5235 | 17 | March. |
| | 0.4301 | 3.5249 | | | | | | | | | |
| | 0.4300 | 3.5259 | | | | | | | | | |
| 0.18089 | 0.4306 | 3.5215 | 300.8 | 46.8 | | | | | | | |
| | 0.4306 | 3.5172 | | | | | | | | | |
| | 0.4299 | 3.5276 | | | | | | | | | |
| 0.18102 | 0.4300 | 3.5283 | 301.8 | 44.1 | | | | | | | |
| | 0.4301 | 3.5273 | | | | | | | | | |
| | 0.4302 | 3.5270 | | | | | | | | | |
| 0.18055 | 0.4300 | 3.5244 | 298.8 | 49.8 | 3.5246 | 297.9 | 52.1 | 296.0 | 3.5233 | 15 | April. |
| | 0.4297 | 3.5266 | | | | | | | | | |
| | 0.4298 | 3.5263 | | | | | | | | | |
| 0.18053 | 0.4296 | 3.5273 | 298.1 | 52.0 | | | | | | | |
| | 0.4297 | 3.5265 | | | | | | | | | |
| | 0.4298 | 3.5248 | | | | | | | | | |
| 0.17990 | 0.4297 | 3.5213 | 296.8 | 54.5 | | | | | | | |
| | 0.4297 | 3.5218 | | | | | | | | | |
| | 0.4295 | 3.5226 | | | | | | | | | |
| 0.18082 | 0.4298 | 3.5286 | 293.3 | 57.9 | 3.5274 | 291.6 | 59.7 | 294.5 | 3.5292 | 15 | May. |
| | 0.4296 | 3.5297 | | | | | | | | | |
| | 0.4300 | 3.5267 | | | | | | | | | |
| 0.18102 | 0.4298 | 3.5293 | 291.8 | 59.1 | | | | | | | |
| | 0.4306 | 3.5226 | | | | | | | | | |
| | 0.4295 | 3.5223 | | | | | | | | | |
| 0.18.05 | 0.4298 | 3.5252 | 289.7 | 62.1 | | | | | | | |
| | 0.4297 | 3.5262 | | | | | | | | | |
| | 0.4298 | 3.5256 | | | | | | | | | |

| Magnets employed I. 15 suspended 3.00 in ches ; | | | | | | | | | | | |
|---|--------------------------------|--|---|-----------------------|-------------|---------------------------------|--------------------------------|--|-----------------------|-------------|------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', u'', &c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | $k=.00036$ | $q=.000114$ | | | | $k=.00036$ | $q=.000114$ | |
| | | | | Sc. Div. | Therm. | | | Sc. Div. | Therm. | | |
| 1851 | ° | Feet. | ° ' " | ° | ° | | Seconds. | ° | ° | | |
| June. | 17 | 64.5 | 1.0 + $\frac{1}{2}l$ | 9 14 55 | 293.0 | 63.6 | 9.08953 | 63.0 | 5.4441 | 289.5 | 63.0 |
| | | 65.4 | 1.1 ,, | 7 11 07 | 291.8 | 63.9 | 9.08901 | 65.9 | 5.4447 | 294.3 | 65.0 |
| | | 66.0 | 1.2 ,, | 5 41 59 | 292.7 | 64.2 | 9.08891 | | 5.4542 | 291.1 | 63.0 |
| | 18 | 73.8 | 1.0 ,, | 9 15 24 | 293.6 | 63.5 | 9.08001 | 63.5 | 5.4461 | 295.1 | 65.1 |
| | | 72.3 | 1.1 ,, | 7 10 42 | 294.8 | 63.8 | 9.08869 | | | | |
| | | 68.5 | 1.2 ,, | 5 41 31 | 295.3 | 64.2 | 9.08835 | 63.5 | 5.4467 | 287.6 | 63.6 |
| | 67.4 | 1.0 ,, | 9 14 22 | 291.0 | 64.0 | 9.08913 | | | | | |
| | 19 | 69.0 | 1.1 ,, | 7 11 24 | 292.1 | 64.4 | 9.08939 | 68.8 | 5.4545 | 293.3 | 65.6 |
| | | 69.1 | 1.2 ,, | 5 42 08 | 293.7 | 64.7 | 9.08913 | | | | |
| July. | 15 | 70.6 | 1.0 + $\frac{1}{2}l$ | 9 13 44 | 284.9 | 70.0 | 9.08870 | 67.2 | 5.4555 | 282.5 | 70.3 |
| | | 71.9 | 1.1 ,, | 7 11 13 | 285.0 | 69.8 | 9.08918 | | | | |
| | | 72.2 | 1.2 ,, | 5 42 01 | 292.5 | 70.4 | 9.08903 | 73.2 | 5.4489 | 289.3 | 71.1 |
| | 78.0 | 1.0 ,, | 9 13 04 | 287.9 | 72.1 | 9.08826 | | | | | |
| | 16 | 78.5 | 1.1 ,, | 7 10 14 | 293.0 | 73.3 | 9.08830 | 73.5 | 5.4456 | 286.2 | 71.0 |
| | | 79.8 | 1.2 ,, | 5 41 35 | 295.9 | 74.5 | 9.08858 | | | | |
| | | 80.0 | 1.0 ,, | 9 12 42 | 295.4 | 75.4 | 9.08800 | 80.0 | 5.4525 | 294.8 | 75.1 |
| | 80.3 | 1.1 ,, | 7 09 53 | 295.7 | 75.5 | 9.08798 | | | | | |
| | 17 | 80.2 | 1.2 ,, | 5 41 11 | 296.5 | 76.7 | 9.08809 | 76.8 | 5.4530 | 293.4 | 73.3 |
| 80.7 | | 1.0 ,, | 9 12 42 | 295.4 | 75.4 | 9.08800 | | | | | |
| August. | 15 | 69.2 | 1.0 + $\frac{1}{2}l$ | 9 12 56 | 286.2 | 64.9 | 9.08801 | 65.9 | 5.4540 | 284.0 | 64.4 |
| | | 70.3 | 1.1 ,, | 7 09 52 | 286.5 | 65.3 | 9.08783 | | | | |
| | | 69.0 | 1.2 ,, | 5 41 02 | 289.6 | 65.8 | 9.08775 | 69.1 | 5.4582 | 290.3 | 66.3 |
| | 69.0 | 1.0 ,, | 9 13 51 | 287.7 | 65.8 | 9.08875 | | | | | |
| | 16 | 69.3 | 1.1 ,, | 7 10 06 | 287.4 | 65.6 | 9.08805 | 65.0 | 5.4573 | 283.3 | 64.9 |
| | | 69.8 | 1.2 ,, | 5 41 46 | 289.8 | 65.8 | 9.08872 | | | | |
| | | 66.2 | 1.0 ,, | 9 11 51 | 283.3 | 63.8 | 9.08716 | 69.9 | 5.4520 | 290.1 | 65.9 |
| | 67.1 | 1.1 ,, | 7 09 09 | 284.4 | 64.0 | 9.08696 | | | | | |
| | 18 | 69.9 | 1.2 ,, | 5 40 29 | 288.5 | 65.2 | 9.08707 | 61.0 | 5.4546 | 287.8 | 62.8 |
| 69.7 | | 1.0 ,, | 9 11 51 | 283.3 | 63.8 | 9.08716 | | | | | |
| September. | 16 | 61.5 | 1.0 + $\frac{1}{2}l$ | 9 12 36 | 267.0 | 58.5 | 9.08769 | 65.9 | 5.4525 | 288.9 | 65.7 |
| | | 61.8 | 1.1 ,, | 7 08 17 | 274.1 | 59.4 | 9.08611 | | | | |
| | | 62.5 | 1.2 ,, | 5 41 24 | 274.7 | 59.6 | 9.08811 | 69.7 | 5.4525 | 288.9 | 65.7 |
| | 64.6 | 1.0 ,, | 9 12 13 | 268.0 | 60.8 | 9.08741 | | | | | |
| | 17 | 65.5 | 1.1 ,, | 7 09 32 | 273.0 | 62.8 | 9.08741 | 60.9 | 5.4633 | 268.1 | 60.3 |
| | | 66.3 | 1.2 ,, | 5 41 00 | 272.5 | 62.9 | 9.08766 | | | | |
| | | 63.2 | 1.0 ,, | 9 11 53 | 270.2 | 61.2 | 9.08714 | 64.9 | 5.4644 | 273.5 | 63.1 |
| | 64.3 | 1.1 ,, | 7 09 16 | 270.3 | 61.4 | 9.08715 | | | | | |
| | 18 | 65.9 | 1.2 ,, | 5 40 51 | 273.7 | 63.5 | 9.08747 | 62.2 | 5.4613 | 269.3 | 60.7 |
| 65.3 | | 1.0 ,, | 9 11 53 | 270.2 | 61.2 | 9.08714 | | | | | |
| October. | 16 | 47.0 | 1.0 + $\frac{1}{2}l$ | 9 11 30 | 277.8 | 52.3 | 9.08664 | 65.3 | 1.4651 | 274.1 | 63.3 |
| | | 47.8 | 1.1 ,, | 7 08 16 | 278.7 | 52.5 | 9.08592 | | | | |
| | | 48.6 | 1.2 ,, | 5 40 24 | 279.9 | 52.5 | 9.08664 | 45.3 | 5.4640 | 277.3 | 52.3 |
| | 50.8 | 1.0 ,, | 9 11 16 | 276.3 | 51.7 | 9.08650 | | | | | |
| | 17 | 52.0 | 1.1 ,, | 7 08 40 | 275.8 | 51.9 | 9.08638 | 49.4 | 5.4681 | 281.2 | 53.3 |
| | | 52.7 | 1.2 ,, | 5 39 59 | 278.2 | 52.7 | 9.08620 | | | | |
| | | 55.8 | 1.0 ,, | 9 11 15 | 277.4 | 54.2 | 9.08656 | 48.1 | 5.4627 | 274.9 | 51.0 |
| | 59.3 | 1.1 ,, | 7 08 54 | 278.0 | 54.5 | 9.08671 | | | | | |
| | 18 | 60.1 | 1.2 ,, | 5 40 00 | 278.1 | 54.8 | 9.08624 | 52.9 | 5.4639 | 279.5 | 53.2 |
| 59.3 | | 1.0 ,, | 9 11 15 | 277.4 | 54.2 | 9.08656 | | | | | |
| 58.5 | 1.1 ,, | 7 08 54 | 278.0 | 54.5 | 9.08671 | 54.1 | 5.4648 | 276.4 | 53.4 | | |
| 58.5 | 1.2 ,, | 5 40 00 | 278.1 | 54.8 | 9.08624 | | | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | | Results. | | | Means. | | | Monthly Means. | | Date. | |
|---------------------|--------|----------|-------------------------------------|--------------|---------------|----------|--------------|----------------|---------------|-------|------------|
| Log. Value of $m X$ | m | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | Values of X | | |
| | | | Mean reading on day of observation. | Temperature. | | Sc. Div. | Temperature. | | | | |
| | | | | | | | | | | 1851 | |
| 0.18392 | 0.4332 | 3.5253 | 293.5 | 64.0 | 3.5245 | 293.6 | 64.3 | 298.0 | 3.5264 | 17 | June. |
| | 0.4329 | 3.5274 | | | | | | | | | |
| | 0.4329 | 3.5278 | | | | | | | | | |
| 0.18300 | 0.4330 | 3.5197 | 294.5 | 63.8 | | | | | | | |
| | 0.4324 | 3.5251 | | | | | | | | | |
| | 0.4321 | 3.5264 | | | | | | | | | |
| 0.18304 | 0.4325 | 3.5234 | 292.9 | 65.2 | | | | | | | |
| | 0.4326 | 3.5223 | | | | | | | | | |
| | 0.4325 | 3.5234 | | | | | | | | | |
| 0.18267 | 0.4322 | 3.5236 | 288.3 | 70.6 | 3.5255 | 292.2 | 73.6 | 297.6 | 3.5251 | 15 | July. |
| | 0.4324 | 3.5217 | | | | | | | | | |
| | 0.4324 | 3.5223 | | | | | | | | | |
| 0.18318 | 0.4322 | 3.5275 | 293.9 | 74.1 | | | | | | | |
| | 0.4322 | 3.5273 | | | | | | | | | |
| | 0.4323 | 3.5262 | | | | | | | | | |
| 0.18282 | 0.4319 | 3.5271 | 294.3 | 76.2 | | | | | | | |
| | 0.4319 | 3.5271 | | | | | | | | | |
| | 0.4319 | 3.5267 | | | | | | | | | |
| 0.18212 | 0.4315 | 3.5242 | 288.7 | 65.4 | 3.5258 | 288.9 | 65.2 | 290.7 | 3.5240 | 15 | August. |
| | 0.4314 | 3.5249 | | | | | | | | | |
| | 0.4314 | 3.5253 | | | | | | | | | |
| 0.18229 | 0.4319 | 3.5219 | 289.0 | 65.5 | | | | | | | |
| | 0.4316 | 3.5248 | | | | | | | | | |
| | 0.4329 | 3.5220 | | | | | | | | | |
| 0.18251 | 0.4313 | 3.5293 | 289.0 | 64.7 | | | | | | | |
| | 0.4312 | 3.5300 | | | | | | | | | |
| | 0.4312 | 3.5296 | | | | | | | | | |
| 0.18124 | 0.4310 | 3.5222 | 272.6 | 59.2 | 3.5223 | 272.6 | 60.8 | 277.6 | 3.5263 | 16 | September. |
| | 0.4302 | 3.5283 | | | | | | | | | |
| | 0.4312 | 3.5202 | | | | | | | | | |
| 0.18080 | 0.4306 | 3.5213 | 271.9 | 61.0 | | | | | | | |
| | 0.4306 | 3.5214 | | | | | | | | | |
| | 0.4307 | 3.5203 | | | | | | | | | |
| 0.18092 | 0.4305 | 3.5229 | 273.3 | 62.2 | | | | | | | |
| | 0.4305 | 3.5228 | | | | | | | | | |
| | 0.4307 | 3.5215 | | | | | | | | | |
| 0.18042 | 0.4300 | 3.5229 | 281.6 | 53.1 | 3.5247 | 280.5 | 54.0 | 275.9 | 3.5194 | 16 | October. |
| | 0.4298 | 3.5257 | | | | | | | | | |
| | 0.4301 | 3.5228 | | | | | | | | | |
| 0.18082 | 0.4302 | 3.5251 | 280.6 | 52.8 | | | | | | | |
| | 0.4301 | 3.5255 | | | | | | | | | |
| | 0.4301 | 3.5263 | | | | | | | | | |
| 0.18073 | 0.4302 | 3.5245 | 279.2 | 56.0 | | | | | | | |
| | 0.4302 | 3.5238 | | | | | | | | | |
| | 0.4300 | 3.5257 | | | | | | | | | |

Magnets employed I. 15 suspended 3.00 inches ;

| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
|-----------|--------------------------------|----------------------------------|---|-----------------------|---------------|------------------------------------|--------------------------------|--|-----------------------|---------------|------|
| | Tem- perature of Magnet. | Distances. $r, r', r'', \&c.$ | Angles. $u, u', w'', \&c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values $\frac{m}{\bar{X}}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Temper- ature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | $k = .00036$ | $q = .000114$ | | | | $k = .00036$ | $q = .000114$ | |
| | | | | Sc. Div. | Therm. | | Seconds. | Sc. Div. | Therm. | | |
| 1851 | | Feet. | ° ' " | | ° | | | | | | |
| November. | 17 | 63.7 | 1.0 + $\frac{1}{2}l$ | 9 07 05 | 348.6 | 49.4 | 9.08338 | 61.6 | 5.4837 | 348.6 | 49.4 |
| | | 65.8 | 1.1 ,, | 7 05 26 | 349.0 | 49.7 | 9.08330 | | | | |
| | | 62.7 | 1.2 ,, | 5 38 04 | 351.7 | 50.0 | 9.08388 | | | | |
| | 18 | 51.7 | 1.0 ,, | 9 07 21 | 347.1 | 48.8 | 9.08348 | 56.8 | 5.4828 | 346.9 | 48.8 |
| | | 52.3 | 1.1 ,, | 7 04 55 | 347.6 | 48.8 | 9.08263 | | | | |
| | | 51.8 | 1.2 ,, | 5 38 07 | 351.8 | 49.0 | 9.08381 | | | | |
| | 19 | 62.7 | 1.0 ,, | 9 07 02 | 348.8 | 48.9 | 9.08334 | 63.7 | 5.4813 | 343.7 | 48.7 |
| | | 64.0 | 1.1 ,, | 7 06 01 | 349.5 | 49.2 | 9.08384 | | | | |
| | | 59.6 | 1.2 ,, | 5 37 56 | 351.9 | 50.0 | 9.08368 | | | | |
| December. | 15 | 43.3 | 1.0 + $\frac{1}{2}l$ | 9 07 26 | 343.5 | 42.5 | 9.08340 | 38.0 | 5.4871 | 342.4 | 42.3 |
| | | 45.6 | 1.1 ,, | 7 05 44 | 346.4 | 42.0 | 9.08333 | | | | |
| | | 46.0 | 1.2 ,, | 5 37 08 | 347.7 | 41.6 | 9.08347 | | | | |
| | 16 | 40.4 | 1.0 ,, | 9 07 13 | 343.5 | 35.5 | 9.08318 | 37.8 | 5.4828 | 342.0 | 35.3 |
| | | 43.0 | 1.1 ,, | 7 05 56 | 344.8 | 35.6 | 9.08354 | | | | |
| | | 37.7 | 1.2 ,, | 5 38 10 | 348.2 | 37.4 | 9.08366 | | | | |
| | 18 | 52.0 | 1.0 ,, | 9 07 08 | 342.6 | 33.4 | 9.08322 | 46.0 | 5.4917 | 344.2 | 32.3 |
| | | 51.9 | 1.1 ,, | 7 05 46 | 344.7 | 34.2 | 9.08340 | | | | |
| | | 50.0 | 1.2 ,, | 5 38 14 | 346.5 | 34.8 | 9.08392 | | | | |
| 1852 | | | | | | | | | | | |
| January. | 16 | 42.7 | 1.0 + $\frac{1}{2}l$ | 9 06 04 | 345.4 | 33.2 | 9.08229 | 35.9 | 5.4923 | 346.6 | 32.5 |
| | | 50.7 | 1.1 ,, | 7 05 02 | 344.4 | 33.9 | 9.08263 | | | | |
| | | 59.4 | 1.2 ,, | 5 37 26 | 345.4 | 38.1 | 9.08298 | | | | |
| | 17 | 59.5 | 1.3 ,, | 4 32 18 | 345.8 | 38.5 | 9.08294 | 56.2 | 5.4850 | 346.6 | 39.6 |
| | | 62.5 | 1.0 ,, | 9 07 13 | 339.8 | 37.6 | 9.08342 | | | | |
| | | 64.8 | 1.1 ,, | 7 04 55 | 339.0 | 37.9 | 9.08271 | | | | |
| | 19 | 58.7 | 1.2 ,, | 5 37 56 | 338.3 | 38.9 | 9.08366 | 49.8 | 5.4808 | 340.6 | 39.8 |
| | | 53.6 | 1.3 ,, | 4 32 35 | 338.8 | 39.8 | 9.08339 | | | | |
| | | 39.6 | 1.0 ,, | 9 06 56 | 346.6 | 31.2 | 9.08291 | | | | |
| 38.9 | 1.1 ,, | 7 05 29 | 347.5 | 33.2 | 9.08294 | 36.1 | 5.4910 | 350.2 | 33.7 | | |
| February. | 17 | 39.3 | 1.0 + $\frac{1}{2}l$ | 9 04 53 | 336.6 | 34.9 | 9.08130 | 32.9 | 5.5072 | 336.3 | 34.3 |
| | | 41.2 | 1.1 ,, | 7 04 06 | 339.3 | 35.9 | 9.08152 | | | | |
| | | 42.1 | 1.2 ,, | 5 36 30 | 343.8 | 36.2 | 9.08156 | | | | |
| | 19 | 35.5 | 1.0 ,, | 9 05 38 | 326.9 | 35.7 | 9.08184 | 31.0 | 5.5074 | 317.9 | 35.1 |
| | | 54.8 | 1.0 ,, | 9 04 20 | 330.9 | 47.9 | 9.08115 | | | | |
| | | 54.9 | 1.1 ,, | 7 03 42 | 329.6 | 48.0 | 9.08133 | | | | |
| | 23 | 52.2 | 1.2 ,, | 5 36 13 | 334.9 | 48.3 | 9.08132 | 52.0 | 5.5108 | 337.0 | 48.7 |
| | | 47.5 | 1.0 ,, | 9 03 58 | 333.5 | 47.7 | 9.08068 | | | | |
| | | 49.0 | 1.1 ,, | 7 04 17 | 333.9 | 47.8 | 9.08187 | | | | |
| 24 | 49.8 | 1.2 ,, | 5 36 12 | 334.9 | 48.0 | 9.08127 | 46.3 | 5.5122 | 340.4 | 48.4 | |
| | 51.0 | 1.0 + $\frac{1}{2}l$ | 9 04 02 | 337.0 | 48.2 | 9.08076 | | | | | |
| | 51.8 | 1.1 ,, | 7 03 35 | 340.5 | 49.0 | 9.08118 | | | | | |
| March. | 15 | 51.4 | 1.2 ,, | 5 36 24 | 340.2 | 49.1 | 9.08155 | 49.1 | 5.5169 | 341.6 | 48.6 |
| | | 53.9 | 1.0 ,, | 9 03 54 | 337.8 | 45.9 | 9.08069 | | | | |
| | | 53.6 | 1.1 ,, | 7 02 59 | 340.2 | 43.3 | 9.08058 | | | | |
| | 16 | 53.7 | 1.2 ,, | 5 35 44 | 340.4 | 46.5 | 9.08072 | 53.7 | 5.5081 | 341.4 | 46.6 |
| | | 48.3 | 1.0 ,, | 9 04 20 | 336.4 | 45.4 | 9.08097 | | | | |
| | | 50.4 | 1.1 ,, | 7 03 12 | 336.5 | 46.2 | 9.08085 | | | | |
| | 17 | 51.8 | 1.2 ,, | 5 35 59 | 336.9 | 46.9 | 9.08103 | 51.8 | 5.5092 | 338.8 | 47.3 |

I. 18 Deflecting 3.67 inches.

| Vibration. | | Results. | | | Means. | | | Monthly Means. | | Date. |
|----------------------|--------|----------|-------------------------------------|--------------|---------------|----------|--------------|----------------|---------------|-------|
| Log. Values of $m X$ | m | X | Biflar. | | Values of X | Biflar. | | Biflar at 55° | Values of X | |
| | | | Mean reading on day of observation. | Temperature. | | Sc. Div. | Temperature. | | | |
| 1851 | | | | | | | | | | |
| 0.17722 | 0.4268 | 3.5232 | 352.4 | 50.2 | 3.5240 | 352.8 | 49.8 | 351.6 | 3.5245 | 17 |
| | 0.4268 | 3.5235 | | | | | | | | |
| | 0.4271 | 3.5211 | | | | | | | | |
| 0.17751 | 0.4271 | 3.5238 | 352.7 | 48.8 | | | | | | 18 |
| | 0.4267 | 3.5273 | | | | | | | | |
| | 0.4273 | 3.5225 | | | | | | | | |
| 0.17792 | 0.4271 | 3.5262 | 353.2 | 50.4 | | | | | | 19 |
| | 0.4274 | 3.5241 | | | | | | | | |
| | 0.4273 | 3.5247 | | | | | | | | |
| 1852 | | | | | | | | | | |
| 0.17713 | 0.4268 | 3.5227 | 347.6 | 41.1 | 3.5215 | 347.6 | 37.4 | 342.4 | 3.5219 | 15 |
| | 0.4267 | 3.5229 | | | | | | | | |
| | 0.4268 | 3.5224 | | | | | | | | |
| 0.17693 | 0.4266 | 3.5227 | 348.5 | 36.6 | | | | | | 16 |
| | 0.4268 | 3.5212 | | | | | | | | |
| | 0.4268 | 3.5208 | | | | | | | | |
| 0.17667 | 0.4266 | 3.5215 | 346.6 | 34.5 | | | | | | 18 |
| | 0.4267 | 3.5208 | | | | | | | | |
| | 0.4269 | 3.5187 | | | | | | | | |
| 0.17687 | 0.4262 | 3.5261 | 346.9 | 36.1 | 3.5241 | 344.9 | 36.3 | 337.8 | 3.5225 | 16 |
| | 0.4263 | 3.5247 | | | | | | | | |
| | 0.4264 | 3.5233 | | | | | | | | |
| 0.17764 | 0.4264 | 3.5234 | 344.1 | 33.6 | | | | | | 17 |
| | 0.4270 | 3.5246 | | | | | | | | |
| | 0.4266 | 3.5274 | | | | | | | | |
| 0.17638 | 0.4271 | 3.5236 | 343.7 | 39.3 | | | | | | 19 |
| | 0.4271 | 3.5247 | | | | | | | | |
| | 0.4263 | 3.5215 | | | | | | | | |
| 0.17394 | 0.4263 | 3.5214 | 340.9 | 37.0 | 3.5165 | 338.3 | 42.6 | 336.1 | 3.5185 | 17 |
| | 0.4243 | 3.5182 | | | | | | | | |
| | 0.4244 | 3.5173 | | | | | | | | |
| 0.17382 | 0.4244 | 3.5171 | 335.4 | 37.0 | | | | | | 19 |
| | 0.4245 | 3.5155 | | | | | | | | |
| | 0.4239 | 3.5167 | | | | | | | | |
| 0.17343 | 0.4239 | 3.5160 | 338.0 | 47.8 | | | | | | 23 |
| | 0.4240 | 3.5161 | | | | | | | | |
| | 0.4237 | 3.5186 | | | | | | | | |
| 0.17343 | 0.4243 | 3.5137 | 338.8 | 48.8 | 24 | | | | | |
| | 0.4243 | 3.5137 | | | | | | | | |
| | 0.4239 | 3.5162 | | | | | | | | |
| 1852 | | | | | | | | | | |
| 0.17298 | 0.4235 | 3.5163 | 339.5 | 48.0 | 3.5176 | 339.1 | 47.0 | 337.1 | 3.5182 | 15 |
| | 0.4237 | 3.5148 | | | | | | | | |
| | 0.4239 | 3.5133 | | | | | | | | |
| 0.17375 | 0.4238 | 3.5199 | 341.2 | 46.2 | | | | | | 16 |
| | 0.4238 | 3.5202 | | | | | | | | |
| | 0.4238 | 3.5198 | | | | | | | | |
| 0.17356 | 0.4239 | 3.5179 | 336.6 | 46.7 | | | | | | 17 |
| | 0.4239 | 3.5185 | | | | | | | | |
| | 0.4239 | 3.5178 | | | | | | | | |

| Magnets employed I. 15 suspended 3.00 inches; | | | | | | | | | | | |
|---|--------------------------------|--|---|-----------------------|-------------------|-------------------------------------|--------------------------------|---|-----------------------|-------------------|-------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | |
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', u'', &c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values of $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation. | Bifilar Magnetometer. | | |
| | | | | <i>k</i> =.00036 | <i>q</i> =.000114 | | | | <i>k</i> =.00036 | <i>q</i> =.000114 | |
| | | | | Sc. Div. | Therm. | | | | Sc. Div. | Therm. | |
| 1852 | ° | Feet. | ° ' " | ° | ° | ° | Seconds. | ° | ° | ° | |
| April. | 16 | 49.5 | 1.0 + 1/2 l | 9 12 33 | 336.7 | 52.8 | 9.08745 | 48.3 | 5.5033 | 331.4 | 52.5 |
| | | 49.8 | 1.1 ,, | 7 12 37 | 337.2 | 53.1 | 9.08779 | 51.6 | 5.5011 | 344.0 | 53.5 |
| | | 51.1 | 1.2 ,, | 5 41 11 | 340.7 | 53.4 | 9.08764 | | 5.4926 | 335.6 | 52.0 |
| | 17 | 47.7 | 1.0 ,, | 9 12 20 | 334.1 | 52.8 | 9.08725 | 47.6 | 5.5011 | 340.1 | 52.8 |
| | | 48.2 | 1.1 ,, | 7 09 27 | 334.8 | 52.9 | 9.08706 | | | | |
| | | 47.1 | 1.2 ,, | 5 40 51 | 339.4 | 53.0 | 9.08717 | 48.3 | 5.5024 | 340.6 | 48.9 |
| | 19 | 49.3 | 1.0 ,, | 9 11 45 | 339.6 | 49.1 | 9.08681 | 49.6 | 5.4986 | 340.8 | 51.0 |
| | | 49.9 | 1.1 ,, | 7 09 31 | 340.6 | 49.3 | 9.08716 | | | | |
| | | 49.1 | 1.2 ,, | 5 40 22 | 344.0 | 50.6 | 9.08630 | | | | |
| | May. | 17 | 56.0 | 1.0 + 1/2 l | 9 09 53 | 338.3 | 58.8 | 9.08545 | 55.4 | 5.4970 | 336.9 |
| 56.0 | | | 1.1 ,, | 7 07 28 | 339.4 | 58.8 | 9.08518 | 56.1 | 5.4941 | 346.9 | 58.4 |
| 55.7 | | | 1.2 ,, | 5 39 21 | 341.4 | 58.8 | 9.08539 | | | | |
| 18 | | 51.3 | 1.0 ,, | 9 10 16 | 338.3 | 54.4 | 9.08569 | 50.2 | 5.4962 | 334.0 | 53.8 |
| | | 51.8 | 1.1 ,, | 7 07 56 | 337.9 | 54.5 | 9.08560 | | | | |
| | | 53.2 | 1.2 ,, | 5 39 23 | 346.0 | 54.4 | 9.08539 | 53.6 | 5.4947 | 341.7 | 54.7 |
| 19 | | 55.2 | 1.0 ,, | 9 10 43 | 341.2 | 54.7 | 9.08607 | 52.7 | 5.4993 | 336.4 | 54.0 |
| | | 55.9 | 1.1 ,, | 7 07 33 | 340.7 | 54.0 | 9.08527 | | | | |
| | | 53.1 | 1.2 ,, | 5 39 35 | 341.6 | 55.1 | 9.08563 | | | | |
| June. | | 16 | 80.2 | 1.0 + 1/2 l | 9 10 56 | 336.1 | 76.8 | 9.08657 | 76.3 | 5.5037 | 330.9 |
| | 81.0 | | 1.1 ,, | 7 08 28 | 342.4 | 77.0 | 9.08652 | 80.3 | 5.5038 | 345.0 | 78.6 |
| | 81.6 | | 1.2 ,, | 5 39 49 | 339.7 | 77.5 | 9.08631 | | | | |
| | 17 | 71.5 | 1.0 ,, | 9 10 24 | 338.0 | 71.8 | 9.08604 | 69.5 | 5.5002 | 331.7 | 72.0 |
| | | 71.7 | 1.1 ,, | 7 08 29 | 339.3 | 71.8 | 9.08640 | | | | |
| | | 71.8 | 1.2 ,, | 5 40 00 | 333.8 | 72.0 | 9.08640 | 71.0 | 5.5013 | 338.0 | 72.0 |
| | 18 | 71.9 | 1.0 ,, | 9 10 19 | 334.2 | 72.0 | 9.08600 | 70.0 | 5.5005 | 332.7 | 72.0 |
| | | 73.0 | 1.1 ,, | 7 07 09 | 335.8 | 72.0 | 9.08507 | | | | |
| | | 74.8 | 1.2 ,, | 5 39 12 | 336.0 | 72.0 | 9.08545 | | | | |
| | July. | 16 | 72.6 | 1.0 + 1/2 l | 9 08 57 | 321.0 | 70.4 | 9.08492 | 70.0 | 5.5018 | 321.0 |
| 73.0 | | | 1.1 ,, | 7 06 53 | 325.6 | 71.4 | 9.08480 | 71.5 | 5.5048 | 331.7 | 73.0 |
| 73.4 | | | 1.2 ,, | 5 39 13 | 331.6 | 72.6 | 9.08544 | | | | |
| 17 | | 72.8 | 1.0 ,, | 9 09 00 | 324.4 | 70.1 | 9.08498 | 71.6 | 5.5005 | 322.2 | 69.4 |
| | | 74.0 | 1.1 ,, | 7 07 03 | 325.0 | 70.5 | 9.08497 | | | | |
| | | 73.7 | 1.2 ,, | 5 38 38 | 330.5 | 72.3 | 9.08469 | 73.6 | 5.5037 | 330.6 | 72.2 |
| 19 | | 68.2 | 1.0 ,, | 9 08 35 | 324.2 | 67.3 | 9.08457 | 66.1 | 5.5004 | 323.0 | 66.9 |
| | | 69.4 | 1.1 ,, | 7 06 45 | 325.1 | 67.6 | 9.08462 | | | | |
| | | 68.8 | 1.2 ,, | 5 38 39 | 327.4 | 68.5 | 9.08466 | | | | |
| August. | | 16 | 67.5 | 1.0 + 1/2 l | 9 08 29 | 310.4 | 68.4 | 9.08447 | 65.6 | 5.5066 | 307.9 |
| | 68.0 | | 1.1 ,, | 7 06 44 | 312.4 | 68.5 | 9.08457 | 67.8 | 5.5091 | 312.4 | 68.2 |
| | 68.0 | | 1.2 ,, | 5 38 49 | 314.5 | 68.7 | 9.08485 | | | | |
| | 17 | 68.9 | 1.0 ,, | 9 07 56 | 308.7 | 66.8 | 9.08408 | 67.5 | 5.5057 | 307.7 | 66.8 |
| | | 69.4 | 1.1 ,, | 7 06 15 | 310.8 | 67.6 | 9.08412 | | | | |
| | | 70.1 | 1.2 ,, | 5 38 29 | 311.2 | 67.8 | 9.08446 | 70.6 | 5.5030 | 311.2 | 68.4 |
| | 18 | 71.0 | 1.0 ,, | 9 08 23 | 306.3 | 68.7 | 9.08446 | 69.5 | 5.5005 | 303.9 | 68.7 |
| | | 72.7 | 1.1 ,, | 7 06 34 | 309.8 | 69.3 | 9.08449 | | | | |
| | | 74.2 | 1.2 ,, | 5 38 45 | 311.7 | 70.0 | 9.08494 | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | Results. | | | | Means. | | | Monthly Means. | | Date. | |
|------------|----------------------|--------|-------|-------------------------------------|--------------|-------------|----------|----------------|----------------|-------|-------------|
| | Log. Values of $m X$ | m | X | Bifilar. | | Values of X | Bifilar. | | Bifilar at 55° | | Values of X |
| | | | | Mean reading on day of observation. | Temperature. | | Sc. Div. | Temperature. | | | |
| | | | | | | | | | | 1852 | |
| { 0.17475 | 0.4276 | 3.4966 | 341.2 | 53.4 | 3.4986 | 342.2 | 52.1 | 338.9 | 3.4986 | 16 | |
| | 0.4278 | 3.4952 | | | | | | | | | |
| | 0.4277 | 3.4959 | | | | | | | | | |
| { 0.17518 | 0.4278 | 3.4991 | 342.2 | 52.7 | | | | | | | |
| | 0.4277 | 3.4998 | | | | | | | | | |
| | 0.4277 | 3.4994 | | | | | | | | | |
| { 0.17501 | 0.4275 | 3.5002 | 343.3 | 50.2 | | | | | | | |
| | 0.4276 | 3.4988 | | | | | | | | | |
| | 0.4272 | 3.5021 | | | | | | | | | |
| { 0.17583 | 0.4272 | 3.5090 | 343.3 | 57.5 | 3.5073 | 340.7 | 55.4 | 340.5 | 3.5069 | 17 | |
| | 0.4270 | 3.5101 | | | | | | | | | |
| | 0.4271 | 3.5094 | | | | | | | | | |
| { 0.17583 | 0.4273 | 3.5080 | 341.1 | 54.1 | | | | | | | |
| | 0.4273 | 3.5083 | | | | | | | | | |
| | 0.4271 | 3.5092 | | | | | | | | | |
| { 0.17507 | 0.4271 | 3.5035 | 337.8 | 54.7 | | | | | | | |
| | 0.4267 | 3.5026 | | | | | | | | | |
| | 0.4269 | 3.5052 | | | | | | | | | |
| { 0.17467 | 0.4272 | 3.4998 | 333.0 | 77.0 | 3.5027 | 334.3 | 74.0 | 339.1 | 3.5013 | 16 | |
| | 0.4272 | 3.5009 | | | | | | | | | |
| | 0.4270 | 3.5009 | | | | | | | | | |
| { 0.17510 | 0.4272 | 3.5037 | 335.3 | 72.9 | | | | | | | |
| | 0.4274 | 3.5022 | | | | | | | | | |
| | 0.4273 | 3.5023 | | | | | | | | | |
| { 0.17488 | 0.4271 | 3.5029 | 334.6 | 72.2 | | | | | | | |
| | 0.4266 | 3.5067 | | | | | | | | | |
| | 0.4266 | 3.5054 | | | | | | | | | |
| { 0.17470 | 0.4263 | 3.5066 | 326.2 | 70.4 | 3.5074 | 326.7 | 69.5 | 329.7 | 3.5055 | 16 | |
| | 0.4262 | 3.5071 | | | | | | | | | |
| | 0.4266 | 3.5045 | | | | | | | | | |
| { 0.17491 | 0.4266 | 3.5072 | 327.4 | 70.8 | | | | | | | |
| | 0.4264 | 3.5073 | | | | | | | | | |
| | 0.4263 | 3.5085 | | | | | | | | | |
| { 0.17486 | 0.4263 | 3.5087 | 326.5 | 67.3 | | | | | | | |
| | 0.4263 | 3.5087 | | | | | | | | | |
| | 0.4263 | 3.5084 | | | | | | | | | |
| { 0.17396 | 0.4258 | 3.5054 | 310.9 | 67.1 | 3.5074 | 310.7 | 67.7 | 316.9 | 3.5103 | 16 | |
| | 0.4258 | 3.5050 | | | | | | | | | |
| | 0.4259 | 3.5039 | | | | | | | | | |
| { 0.17454 | 0.4259 | 3.5093 | 310.4 | 66.7 | | | | | | | |
| | 0.4259 | 3.5092 | | | | | | | | | |
| | 0.4260 | 3.5079 | | | | | | | | | |
| { 0.17494 | 0.4262 | 3.5094 | 310.9 | 69.3 | | | | | | | |
| | 0.4262 | 3.5094 | | | | | | | | | |
| | 0.4264 | 3.5076 | | | | | | | | | |

| Magnets employed I. 15 suspended 3.00 inches ; | | | | | | | | | | | | | | | |
|--|--------------------------------|--|---|-----------------------|--------------------|----------------------------------|--------------------------------|---|-----------------------|--------------------|------|------|--------|-------|------|
| Date. | Experiments of Deflection. | | | | | | Experiments of | | | | | | | | |
| | Tem- perature of Magnet. | Distances. <i>r, r', r'', &c.</i> | Angles. <i>u, u', u'', &c.</i> reduced to Tem- perature of 50°, and to the mean Bililar reading on the day of observation. | Bifilar Magnetometer. | | Log. Values $\frac{m}{X}$ | Tem- perature of Magnet. | Time of one vibra- tion corrected and rate of Chronometer, also reduced to Temper- ature of 50°, and to the mean Bililar reading on the day of observation. | Bifilar Magnetometer. | | | | | | |
| | | | | <i>k</i> = .00036 | <i>q</i> = .000114 | | | | <i>k</i> = .00036 | <i>q</i> = .000114 | | | | | |
| | | | | Sc. Div. | Therm. | | | Sc. Div. | Therm. | | | | | | |
| 1852 | | | | | | | | | | | | | | | |
| September. | 16 | 58.0 | 1.0 + 1/2 l | 9 04 09 | 306.4 | 59.1 | 9.08096 | 57.2 | 5.5248 | 305.3 | 59.1 | | | | |
| | | 58.8 | 1.1 ,, | 7 03 27 | 307.4 | 59.4 | 9.08115 | | | | | | | | |
| | | 59.4 | 1.2 ,, | 5 36 12 | 308.5 | 59.6 | 9.08138 | | | | | | | | |
| | 17 | 62.5 | 1.0 ,, | 9 05 41 | 302.7 | 59.7 | 9.08223 | 60.0 | 5.5286 | 303.2 | 59.6 | | | | |
| | | 63.8 | 1.1 ,, | 7 03 55 | 304.0 | 60.0 | 9.08168 | | | | | | | | |
| | | 62.5 | 1.2 ,, | 5 35 18 | 311.3 | 62.0 | 9.08028 | | | | | | | | |
| | 18 | 63.7 | 1.0 ,, | 9 04 39 | 304.0 | 61.2 | 9.08143 | 62.1 | 5.5250 | 301.8 | 60.6 | | | | |
| | | 65.1 | 1.1 ,, | 7 04 22 | 304.5 | 62.0 | 9.08214 | | | | | | | | |
| | | 65.2 | 1.2 ,, | 5 36 32 | 307.7 | 61.8 | 9.08197 | | | | | | | | |
| October. | 16 | 47.3 | 1.0 + 1/2 l | 9 04 50 | 304.8 | 53.4 | 9.08135 | 45.6 | 5.5285 | 304.5 | 53.6 | | | | |
| | | 48.0 | 1.1 ,, | 7 03 06 | 306.2 | 53.3 | 9.08063 | | | | | | | | |
| | | 50.0 | 1.2 ,, | 5 36 15 | 308.0 | 53.3 | 9.08144 | | | | | | | | |
| | 18 | 56.0 | 1.0 ,, | 9 05 02 | 304.3 | 56.0 | 9.08164 | 55.7 | 5.5277 | 298.3 | 55.8 | | | | |
| | | 56.9 | 1.1 ,, | 7 03 44 | 305.0 | 56.2 | 9.08139 | | | | | | | | |
| | | 58.9 | 1.2 ,, | 5 36 35 | 302.3 | 57.2 | 9.08190 | | | | | | | | |
| | 19 | 52.5 | 1.0 ,, | 9 04 03 | 302.3 | 55.5 | 9.08080 | 49.6 | 5.5261 | 305.6 | 55.4 | | | | |
| | | 54.2 | 1.1 ,, | 7 03 45 | 305.0 | 55.8 | 9.08138 | | | | | | | | |
| | | 55.9 | 1.2 ,, | 5 36 13 | 307.0 | 56.6 | 9.08137 | | | | | | | | |
| November. | 18 | 52.9 | 1.0 + 1/2 l | 9 03 43 | 300.7 | 44.0 | 9.08054 | 44.7 | 5.5298 | 305.6 | 43.8 | | | | |
| | | 57.7 | 1.1 ,, | 7 02 52 | 301.8 | 44.3 | 9.08053 | | | | | | | | |
| | | 66.9 | 1.2 ,, | 5 35 34 | 306.1 | 45.5 | 9.08068 | | | | | | | | |
| | 19 | 53.0 | 1.0 ,, | 9 03 38 | 304.9 | 46.4 | 9.08048 | 52.2 | 5.5259 | 306.1 | 46.1 | | | | |
| | | 53.6 | 1.1 ,, | 7 03 15 | 305.1 | 46.7 | 9.08087 | | | | | | | | |
| | | 51.8 | 1.2 ,, | 5 35 28 | 307.7 | 47.3 | 9.08036 | | | | | | | | |
| | 20 | 50.0 | 1.0 ,, | 9 03 48 | 307.2 | 45.0 | 9.08057 | 49.8 | 5.5244 | 307.0 | 45.2 | | | | |
| | | 51.6 | 1.1 ,, | 7 02 57 | 307.9 | 45.0 | 9.08054 | | | | | | | | |
| 49.5 | 1.2 ,, | 5 35 25 | 309.5 | 45.5 | 9.08027 | 49.7 | 5.5329 | 309.9 | 45.8 | | | | | | |
| December. | 16 | 64.2 | 1.0 + 1/2 l | 9 03 06 | 307.7 | 42.3 | 9.08010 | 63.2 | 5.5253 | 307.4 | 42.1 | | | | |
| | | 65.0 | 1.1 ,, | 7 02 26 | 308.4 | 42.4 | 9.08017 | | | | | | | | |
| | | 55.9 | 1.2 ,, | 5 35 24 | 312.5 | 42.9 | 9.08033 | | | | | | | | |
| | 17 | 49.1 | 1.0 ,, | 9 03 04 | 311.4 | 45.1 | 9.07999 | 44.5 | 5.5323 | 311.6 | 45.2 | | | | |
| | | 52.9 | 1.1 ,, | 7 02 57 | 311.4 | 45.0 | 9.07952 | | | | | | | | |
| | | 50.8 | 1.2 ,, | 5 35 34 | 314.5 | 45.3 | 9.08045 | | | | | | | | |
| | 18 | 50.0 | 1.0 ,, | 9 03 24 | 308.6 | 36.7 | 9.08026 | 44.2 | 5.5281 | 307.5 | 36.6 | | | | |
| | | 54.2 | 1.1 ,, | 7 02 19 | 308.4 | 36.7 | 9.07990 | | | | | | | | |
| | | 54.7 | 1.2 ,, | 5 35 25 | 305.3 | 37.0 | 9.08033 | | | | | | | | |
| | | | | | | | | | | | | 51.5 | 5.5325 | 307.8 | 37.1 |
| | | | | | | | | | | | | | | | |

I. 18 Deflecting 3.67 inches.

| Vibration. | | Results. | | | | Means. | | | Monthly Means. | | Date. |
|------------------------|--------|----------|-------------------------------------|--------------|-----------------|----------|--------------|-----------------|-----------------|------|------------|
| Log. Values of $m X$. | m | X | Bifilar. | | Values of X . | Bifilar. | | Bifilar at 55°. | Values of X . | | |
| | | | Mean reading on Day of observation. | Temperature. | | Sc. Div. | Temperature. | | | | |
| | | | | | | | | | | 1852 | |
| 0.17119 | 0.4227 | 3.5084 | 308.4 | 59.8 | 3.5059 | 307.8 | 60.7 | 311.2 | 3.5079 | 16 | September. |
| | 0.4228 | 3.5076 | | | | | | | | | |
| | 0.4228 | 3.5067 | | | | | | | | | |
| 0.17096 | 0.4222 | 3.5024 | 308.0 | 60.4 | | | | | | | |
| | 0.4229 | 3.5046 | | | | | | | | | |
| | 0.4222 | 3.5103 | | | | | | | | | |
| 0.17105 | 0.4228 | 3.5060 | 306.9 | 62.0 | | | | | | | |
| | 0.4231 | 3.5030 | | | | | | | | | |
| | 0.4230 | 3.5038 | | | | | | | | | |
| 0.17064 | 0.4227 | 3.5046 | 309.8 | 54.6 | 3.5047 | 308.4 | 56.3 | 310.5 | 3.5068 | 16 | October. |
| | 0.4223 | 3.5075 | | | | | | | | | |
| | 0.4227 | 3.5043 | | | | | | | | | |
| 0.17062 | 0.4227 | 3.5034 | 308.1 | 57.4 | | | | | | | |
| | 0.4226 | 3.5043 | | | | | | | | | |
| | 0.4228 | 3.5023 | | | | | | | | | |
| 0.17065 | 0.4224 | 3.5069 | 307.3 | 56.8 | | | | | | | |
| | 0.4226 | 3.5045 | | | | | | | | | |
| | 0.4226 | 3.5046 | | | | | | | | | |
| 0.17030 | 0.4221 | 3.5065 | 308.2 | 46.0 | 3.5078 | 309.2 | 46.3 | 306.1 | 3.5073 | 18 | November. |
| | 0.4220 | 3.5065 | | | | | | | | | |
| | 0.4220 | 3.5060 | | | | | | | | | |
| 0.17097 | 0.4224 | 3.5094 | 309.1 | 47.2 | | | | | | | |
| | 0.4226 | 3.5079 | | | | | | | | | |
| | 0.4223 | 3.5000 | | | | | | | | | |
| 0.17058 | 0.4222 | 3.5075 | 310.4 | 45.8 | | | | | | | |
| | 0.4222 | 3.5076 | | | | | | | | | |
| | 0.4221 | 3.5088 | | | | | | | | | |
| 0.17092 | 0.4221 | 3.5108 | 312.0 | 43.2 | 3.5091 | 312.1 | 41.8 | 306.1 | 3.5067 | 16 | December. |
| | 0.4221 | 3.5105 | | | | | | | | | |
| | 0.4222 | 3.5100 | | | | | | | | | |
| 0.17029 | 0.4218 | 3.5087 | 311.9 | 44.5 | | | | | | | |
| | 0.4216 | 3.5105 | | | | | | | | | |
| | 0.4215 | 3.5069 | | | | | | | | | |
| 0.17032 | 0.4220 | 3.5077 | 312.4 | 37.7 | | | | | | | |
| | 0.4218 | 3.5091 | | | | | | | | | |
| | 0.4215 | 3.5075 | | | | | | | | | |

The following Memorandum regarding the elements of the calculations of the Absolute Horizontal Force Observations has been supplied by CAPTAIN YOUNGHUSBAND.

THE series of observations of Absolute Horizontal Intensity detailed in this volume was commenced in January 1845, and continued without any interruption whatever to December 1852; it extends therefore over a period of eight complete years.

The observations were made on three days in each month, always about the same part of the month, the first day being on or about the 16th. Generally three distances were employed, and complete experiments of deflection and vibration made on each day. The instrument with which the observations were made was the portable unifilar magnetometer, and the same instrument, and the same deflecting magnet has been used throughout the whole series. The *near end* of the deflecting magnet was placed at 1·0, 1·1, 1·2, and occasionally at 1·3 feet from the centre of the suspended magnet; consequently the distances of deflection were 1·0, 1·1, 1·2, and 1·3 feet, + in each case half the length of the deflecting magnet. These distances correspond to 1·1527, 1·2527, 1·3527, &c. feet, as graduated on the deflecting tube of the unifilar, and the observations were calculated at Toronto in accordance with these data, to the end of the year 1851; but a very careful measurement of the graduation having been made by Captain Lefroy in October, 1851, by means of a beam compass, and referred to a brass standard measure of Troughton and Simms' manufacture, the true distances were found to be 1·1508, 1·2508, 1·3508, and 1·4508, respectively, at a standard temperature of 50°. The portion of the original calculations which include the distances of deflection as a function have accordingly been recalculated, using the new distances, the numerical values of which having been in each case made to correspond to the actual distance by multiplying the observed distance by $1 + \cdot 00001(t^\circ - 50^\circ)$, t° being the observed temperature, and $\cdot 00001$ the coefficient of expansion of the tube.

The series of deflections, as far as Dec. 1851, was formed into five groups, and the coefficient P. calculated for each group by means of the formula for two distances. The results were found as follows:—

| | | | |
|---------------|-----|---|---------|
| From group 1, | P = | - | ·00516 |
| , , | 2, | = | -·00160 |
| , , | 3, | = | -·00279 |
| , , | 4, | = | -·00470 |
| , , | 5, | = | -·00559 |

The mean of these gives $P = -\cdot 00395$, which is the value employed in the calculations.

The Log. value of $\pi^2 K$ used throughout is 1·6558266.

The bifilar magnetometer was observed at short regular intervals during the progress of the two parts of the experiment, and the observations of deflection and vibration reduced to a uniform reading, that reading being the mean reading for the day of observation. The monthly mean results, which correspond in the first instance to the mean bifilar reading of the three days on which the observations were made, have in the final columns been reduced to the mean bifilar reading for the month in which the observations were made.

MONTHLY DETERMINATION OF THE DECLINATION WITH A PORTABLE DECLINOMETER.

The Description of the Declinometer with which these Determinations were made, and of the mode of its employment, is given in the Abstracts, Adjustments, and Comments prefixed to this Volume, page iii. The Declination is West.

| 1845 | | | | 1845 | | | | 1846 | | | |
|-----------|-----------------------|--|--------|------------|-----------------------|--|---------|-----------|-----------------------|--|--------|
| DATE. | Declination Observed. | Reading of the Observatory Declinometer. | | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | |
| | ° ' " | Sc. Div. | | | ° ' " | Sc. Div. | | | ° ' " | Sc. Div. | |
| JANUARY. | 20 | 1 29.63 | 112.27 | JULY. | 19 | 1 36.62 | 103.05 | JANUARY. | 19 | 1 33.03 | 112.08 |
| | 25 | 1 28.63 | 114.68 | | 19 | 1 38.24 | 100.80 | | 20 | 1 32.63 | 114.17 |
| | 25 | 1 29.22 | 116.94 | | 19 | 1 34.60 | 110.63 | | 20 | 1 34.20 | 110.96 |
| | 27 | 1 27.05 | 115.82 | | 19 | 1 28.03 | 115.96 | | 20 | 1 33.43 | 110.71 |
| | 27 | 1 23.38 | 120.02 | | 21 | 1 29.90 | 114.49 | | 21 | 1 30.25 | 118.85 |
| | 28 | 1 33.01 | 108.88 | | 21 | 1 37.54 | 105.11 | | 21 | 1 30.43 | 115.44 |
| Mean . | 1 28.49 | 113.93 | Mean . | 1 34.16 | 108.34 | Mean . | 1 32.33 | 113.70 | | | |
| FEBRUARY. | 13 | 1 25.99 | 114.68 | AUGUST. | 18 | 1 34.54 | 107.01 | FEBRUARY. | 19 | 1 28.59 | 115.76 |
| | 15 | 1 23.03 | 118.74 | | 18 | 1 28.82 | 113.15 | | 19 | 1 29.69 | 113.22 |
| | 15 | 1 26.40 | 114.67 | | 20 | 1 34.43 | 105.85 | | 19 | 1 29.66 | 113.03 |
| | 15 | 1 27.70 | 112.99 | | 20 | 1 36.84 | 102.54 | | 21 | 1 31.67 | 109.88 |
| | 17 | 1 26.23 | 115.84 | | 20 | 1 36.68 | 104.31 | | 21 | 1 31.68 | 110.17 |
| | 17 | 1 30.79 | 109.25 | | Mean . | 1 34.26 | 106.57 | | 21 | 1 31.85 | 110.05 |
| Mean . | 1 26.69 | 114.36 | Mean . | 1 34.26 | 106.57 | Mean . | 1 30.52 | 112.02 | | | |
| MARCH. | 19 | 1 35.12 | 109.85 | SEPTEMBER. | 17 | 1 35.71 | 105.99 | MARCH. | 19 | 1 26.77 | 117.03 |
| | 20 | 1 41.85 | 95.98 | | 18 | 1 33.91 | 109.83 | | 19 | 1 29.87 | 110.86 |
| | 22 | 1 34.34 | 108.78 | | 18 | 1 36.72 | 104.64 | | 20 | 1 24.13 | 120.81 |
| | 22 | 1 33.08 | 112.86 | | 18 | 1 36.60 | 104.68 | | 20 | 1 28.02 | 115.18 |
| | 24 | 1 35.24 | 107.23 | | 18 | 1 35.79 | 106.48 | | 20 | 1 31.34 | 110.76 |
| | 24 | 1 37.96 | 104.16 | | 19 | 1 36.21 | 108.02 | | 20 | 1 34.75 | 106.05 |
| Mean . | 1 36.26 | 106.48 | Mean . | 1 35.82 | 106.61 | Mean . | 1 29.15 | 113.45 | | | |
| APRIL. | 17 | 1 32.81 | 112.00 | OCTOBER. | 17 | 1 34.82 | 109.44 | APRIL. | 21 | 1 26.51 | 117.71 |
| | 18 | 1 34.84 | 108.73 | | 17 | 1 34.14 | 110.70 | | 21 | 1 31.32 | 110.79 |
| | 18 | 1 37.97 | 104.92 | | 18 | 1 28.96 | 119.84 | | 21 | 1 33.70 | 107.18 |
| | 19 | 1 26.62 | 121.63 | | 18 | 1 31.82 | 113.22 | | 21 | 1 36.20 | 103.94 |
| | 19 | 1 36.52 | 106.82 | | 20 | 1 33.52 | 110.89 | | 22 | 1 28.57 | 114.79 |
| | 19 | 1 38.58 | 104.30 | | Mean . | 1 32.65 | 112.82 | | 22 | 1 33.55 | 107.84 |
| Mean . | 1 34.56 | 109.73 | Mean . | 1 32.65 | 112.82 | Mean . | 1 31.64 | 110.37 | | | |
| MAY. | 20 | 1 34.48 | 109.13 | NOVEMBER. | 18 | 1 31.86 | 111.53 | MAY. | 18 | 1 35.43 | 104.00 |
| | 20 | 1 35.57 | 109.38 | | 18 | 1 33.46 | 109.94 | | 18 | 1 39.79 | 97.94 |
| | 20 | 1 34.92 | 109.49 | | 18 | 1 33.77 | 107.91 | | 18 | 1 33.41 | 107.20 |
| | 20 | 1 34.12 | 111.41 | | 18 | 1 31.38 | 109.57 | | 18 | 1 32.78 | 107.98 |
| | 23 | 1 33.25 | 113.07 | | 19 | 1 29.31 | 112.74 | | 19 | 1 27.51 | 116.35 |
| | 23 | 1 36.18 | 106.13 | | 19 | 1 31.15 | 110.67 | | 19 | 1 31.22 | 110.72 |
| Mean . | 1 34.75 | 109.77 | Mean . | 1 31.82 | 110.39 | Mean . | 1 33.36 | 107.36 | | | |
| JUNE. | 24 | 1 31.55 | 111.63 | DECEMBER. | 20 | 1 32.31 | 116.80 | JUNE. | 19 | 1 34.12 | 105.14 |
| | 25 | 1 31.14 | 108.87 | | 20 | 1 32.21 | 112.31 | | 19 | 1 32.93 | 107.58 |
| | 25 | 1 31.71 | 111.14 | | 22 | 1 30.32 | 116.33 | | 20 | 1 27.65 | 115.39 |
| | 26 | 1 40.03 | 103.72 | | 22 | 1 31.74 | 113.09 | | 20 | 1 29.71 | 112.21 |
| | 26 | 1 30.66 | 114.80 | | 22 | 1 31.94 | 111.78 | | 20 | 1 31.66 | 109.52 |
| | 26 | 1 29.56 | 114.88 | | 22 | 1 31.86 | 113.65 | | 20 | 1 33.10 | 107.21 |
| Mean . | 1 32.62 | 111.03 | Mean . | 1 31.73 | 113.99 | Mean . | 1 31.53 | 109.51 | | | |

Monthly Determination of the Declination with a Portable Declinometer—continued.

| 1846 | | | 1847 | | | 1847 | | | | | |
|------------|-----------------------|--|--------|-----------------------|--|---------|-----------------------|--|--------|---------|--------|
| DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | | | |
| | ° ' " | Sc. Div. | | ° ' " | Sc. Div. | | ° ' " | Sc. Div. | | | |
| JULY. | 20 | 1 30·04 | 114·36 | JANUARY. | 27 | 1 30·56 | 114·60 | JULY. | 23 | 1 36·77 | 105·55 |
| | 20 | 1 33·79 | 109·05 | | 27 | 1 33·76 | 111·40 | | 23 | 1 35·95 | 105·81 |
| | 20 | 1 36·96 | 108·62 | | 27 | 1 32·95 | 113·20 | | 24 | 1 32·50 | 109·91 |
| | 20 | 1 34·61 | 109·08 | | 28 | 1 32·86 | 113·84 | | 26 | 1 38·28 | 101·33 |
| | 20 | 1 34·93 | 108·82 | | 28 | 1 32·51 | 113·48 | | 26 | 1 41·45 | 98·12 |
| | 20 | 1 35·77 | 107·51 | | 28 | 1 34·96 | 111·62 | | 26 | 1 36·13 | 107·13 |
| | Mean . | 1 34·35 | 109·57 | | Mean . | 1 32·93 | 113·02 | | Mean . | 1 36·85 | 104·64 |
| AUGUST. | 18 | 1 36·93 | 103·58 | FEBRUARY. | 23 | 1 36·80 | 108·38 | AUGUST. | 20 | 1 38·03 | 105·06 |
| | 18 | 1 31·31 | 111·56 | | 23 | 1 36·00 | 106·40 | | 25 | 1 36·80 | 105·25 |
| | 19 | 1 36·18 | 104·73 | | 25 | 1 38·42 | 105·79 | | 25 | 1 39·21 | 102·00 |
| | 19 | 1 39·07 | 100·82 | | 25 | 1 37·65 | 104·80 | | 26 | 1 36·73 | 105·42 |
| | 19 | 1 37·19 | 104·65 | | 25 | 1 36·05 | 107·69 | | 26 | 1 40·25 | 100·93 |
| | 19 | 1 35·17 | 106·42 | | 26 | 1 36·50 | 106·74 | | 26 | 1 34·21 | 108·35 |
| | Mean . | 1 35·97 | 105·29 | | Mean . | 1 36·90 | 106·63 | | Mean . | 1 37·81 | 104·05 |
| SEPTEMBER. | 17 | 1 33·61 | 111·08 | MARCH. | 23 | 1 38·71 | 100·68 | SEPTEMBER. | 24 | 1 40·21 | 101·02 |
| | 17 | 1 39·24 | 102·42 | | 24 | 1 38·47 | 102·77 | | 25 | 1 41·98 | 98·17 |
| | 17 | 1 33·48 | 110·39 | | 24 | 1 35·93 | 105·03 | | 27 | 1 40·95 | 103·97 |
| | 18 | 1 32·40 | 111·58 | | 24 | 1 31·53 | 110·10 | | 28 | 1 31·93 | 112·09 |
| | 18 | 1 36·53 | 106·04 | | 25 | 1 33·87 | 107·76 | | 28 | 1 40·47 | 100·14 |
| | 18 | 1 38·33 | 103·11 | | 26 | 1 37·81 | 102·50 | | 28 | 1 37·83 | 103·81 |
| | Mean . | 1 35·60 | 107·44 | | Mean . | 1 36·05 | 104·81 | | Mean . | 1 38·24 | 104·24 |
| OCTOBER. | 15 | 1 31·87 | 113·19 | APRIL. | 23 | 1 38·12 | 103·25 | OCTOBER. | 25 | 1 37·80 | 106·22 |
| | 15 | 1 33·96 | 109·95 | | 23 | 1 38·15 | 103·34 | | 26 | 1 36·53 | 106·74 |
| | 15 | 1 33·74 | 111·21 | | 23 | 1 36·33 | 104·67 | | 27 | 1 30·98 | 118·36 |
| | 16 | 1 33·81 | 109·87 | | 23 | 1 36·58 | 105·26 | | 27 | 1 36·72 | 107·46 |
| | 16 | 1 35·20 | 107·84 | | 24 | 1 39·73 | 101·40 | | 28 | 1 35·60 | 110·54 |
| | 16 | 1 34·16 | 109·27 | | Mean . | 1 37·78 | 103·58 | | 28 | 1 37·72 | 108·38 |
| | Mean . | 1 33·79 | 110·22 | | Mean . | 1 37·78 | 103·58 | | Mean . | 1 35·90 | 109·62 |
| NOVEMBER. | 19 | 1 32·00 | 111·79 | MAY. | 27 | 1 38·37 | 102·66 | NOVEMBER. | 24 | 1 39·93 | 102·23 |
| | 19 | 1 34·74 | 109·55 | | 27 | 1 36·08 | 105·45 | | 24 | 1 38·46 | 105·26 |
| | 19 | 1 37·68 | 105·19 | | 28 | 1 35·53 | 106·27 | | 25 | 1 29·40 | 119·63 |
| | 19 | 1 37·45 | 105·86 | | 28 | 1 36·20 | 103·91 | | 25 | 1 34·25 | 112·69 |
| | 20 | 1 32·08 | 113·18 | | 28 | 1 36·00 | 104·41 | | 25 | 1 37·85 | 106·69 |
| | 20 | 1 35·67 | 107·99 | | 28 | 1 32·62 | 109·28 | | 25 | 1 47·36 | 93·36 |
| | Mean . | 1 34·94 | 108·93 | | Mean . | 1 35·80 | 105·33 | | Mean . | 1 37·88 | 106·64 |
| DECEMBER. | 21 | 1 34·15 | 110·31 | JUNE. | 26 | 1 38·13 | 102·17 | DECEMBER. | 24 | 1 40·18 | 104·63 |
| | 21 | 1 34·74 | 111·30 | | 26 | 1 38·02 | 102·44 | | 27 | 1 37·00 | 107·97 |
| | 21 | 1 33·98 | 111·21 | | 26 | 1 35·90 | 105·54 | | 27 | 1 37·30 | 109·13 |
| | 22 | 1 30·74 | 114·09 | | 26 | 1 34·85 | 107·48 | | 28 | 1 30·50 | 116·65 |
| | 22 | 1 34·32 | 111·22 | | 28 | 1 39·46 | 99·51 | | 28 | 1 31·63 | 114·77 |
| | 22 | 1 35·79 | 109·96 | | 28 | 1 35·23 | 107·46 | | 28 | 1 36·30 | 108·42 |
| | Mean . | 1 33·96 | 111·35 | | Mean . | 1 36·93 | 104·10 | | Mean . | 1 35·48 | 110·26 |

Monthly Determination of the Declination with a Portable Declinometer—continued.

| 1848 | | | 1848 | | | 1849 | | | | | |
|-----------|-----------------------|--|--------|-----------------------|--|---------|-----------------------|--|----|---------|----------------------|
| DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | | | |
| | ° ' " | Sc. Div. | | ° ' " | Sc. Div. | | ° ' " | Sc. Div. | | | |
| JANUARY. | 20 | 1 38·82 | 105·16 | JULY. | 22 | 1 42·88 | 105·11 | FEBRUARY. | 21 | 1 46·52 | 1084·27 ^a |
| | 21 | 1 32·38 | 114·09 | | 24 | 1 39·22 | 110·63 | | 21 | 1 45·10 | 1088·93 |
| | 21 | 1 34·37 | 111·35 | | 24 | 1 41·15 | 106·91 | | 22 | 1 44·55 | 1090·71 |
| | 21 | 1 38·40 | 105·65 | | 25 | 1 39·07 | 109·16 | | 23 | 1 34·43 | 1110·79 |
| | 21 | 1 38·08 | 106·21 | | 26 | 1 40·70 | 108·70 | | 23 | 1 43·10 | 1092·99 |
| | 22 | 1 32·15 | 115·43 | | 26 | 1 40·90 | 107·36 | | 24 | 1 34·82 | 1112·96 |
| Mean . | 1 35·70 | 109·65 | Mean . | 1 40·65 | 107·94 | Mean . | 1 41·42 | 1096·78 | | | |
| FEBRUARY. | 23 | 1 30·58 | 122·34 | AUGUST. | 22 | 1 41·08 | 109·54 | MARCH. | 22 | 1 40·43 | 145·84 |
| | 24 | 1 37·22 | 114·77 | | 23 | 1 42·75 | 109·03 | | 23 | 1 33·55 | 154·89 |
| | 24 | 1 39·10 | 111·09 | | 24 | 1 40·13 | 111·48 | | 23 | 1 38·53 | 146·58 |
| | 24 | 1 37·40 | 114·50 | | 24 | 1 43·77 | 106·72 | | 23 | 1 43·47 | 140·42 |
| | 24 | 1 29·93 | 124·24 | | 25 | 1 42·60 | 107·59 | | 24 | 1 33·77 | 153·88 |
| | 25 | 1 31·13 | 123·07 | | 26 | 1 40·73 | 105·68 | | 24 | 1 44·75 | 139·76 |
| Mean . | 1 34·23 | 118·33 | Mean . | 1 41·84 | 108·34 | Mean . | 1 39·08 | 146·89 | | | |
| MARCH. | 22 | 1 34·93 | 115·26 | SEPTEMBER. | 22 | 1 39·65 | 108·79 | APRIL. | 24 | 1 38·93 | 143·81 |
| | 22 | 1 43·48 | 104·38 | | 22 | 1 39·17 | 110·68 | | 25 | 1 33·67 | 152·68 |
| | 23 | 1 40·43 | 108·24 | | 23 | 1 40·62 | 107·95 | | 25 | 1 42·75 | 139·05 |
| | 23 | 1 44·97 | 102·32 | | 23 | 1 38·55 | 111·48 | | 25 | 1 43·06 | 140·72 |
| | 23 | 1 31·85 | 121·28 | | 24 | 1 35·03 | 116·66 | | 26 | 1 41·37 | 142·21 |
| | 24 | 1 35·93 | 115·01 | | 24 | 1 45·33 | 102·57 | | 26 | 1 40·80 | 141·94 |
| Mean . | 1 38·60 | 111·08 | Mean . | 1 39·72 | 109·69 | Mean . | 1 40·10 | 143·40 | | | |
| APRIL. | 22 | 1 38·47 | 112·73 | OCTOBER. | 24 | 1 41·52 | 106·59 | MAY. | 21 | 1 39·30 | 146·16 |
| | 22 | 1 41·95 | 107·65 | | 24 | 1 39·43 | 109·57 | | 22 | 1 37·55 | 148·26 |
| | 24 | 1 38·90 | 112·05 | | 25 | 1 44·47 | 104·44 | | 22 | 1 44·25 | 138·51 |
| | 24 | 1 41·07 | 109·35 | | 25 | 1 44·03 | 105·96 | | 24 | 1 36·13 | 149·43 |
| | 25 | 1 38·00 | 113·46 | | 26 | 1 41·17 | 109·58 | | 25 | 1 34·00 | 152·84 |
| | 25 | 1 41·33 | 108·81 | | 26 | 1 41·68 | 108·43 | | 25 | 1 40·42 | 144·36 |
| Mean . | 1 39·95 | 110·67 | Mean . | 1 42·05 | 107·43 | Mean . | 1 38·61 | 146·59 | | | |
| MAY. | 23 | 1 38·12 | 111·17 | DECEMBER. | 27 | 1 33·15 | 116·63 | JUNE. | 22 | 1 43·97 | 138·83 |
| | 23 | 1 40·05 | 108·69 | | 27 | 1 38·20 | 109·13 | | 22 | 1 43·43 | 140·05 |
| | 24 | 1 36·85 | 112·02 | | 27 | 1 38·27 | 109·16 | | 23 | 1 34·23 | 153·67 |
| | 24 | 1 42·28 | 103·89 | | 28 | 1 33·17 | 115·38 | | 23 | 1 40·60 | 144·55 |
| | 25 | 1 35·98 | 113·55 | | 28 | 1 36·93 | 110·96 | | 25 | 1 44·58 | 137·14 |
| | 25 | 1 38·22 | 110·50 | | 28 | 1 39·20 | 108·04 | | 25 | 1 45·13 | 138·01 |
| Mean . | 1 38·58 | 109·97 | Mean . | 1 36·49 | 111·55 | Mean . | 1 41·99 | 142·04 | | | |
| JUNE. | 21 | 1 40·32 | 107·82 | 1849 JANUARY. | 23 | 1 38·54 | 113·81 | JULY. | 23 | 1 39·47 | 145·46 |
| | 21 | 1 39·97 | 109·10 | | 23 | 1 39·83 | 111·49 | | 23 | 1 42·10 | 140·90 |
| | 22 | 1 32·95 | 118·58 | | 23 | 1 50·52 | 97·38 | | 23 | 1 45·33 | 137·73 |
| | 24 | 1 32·42 | 119·92 | | 23 | 1 47·00 | 102·62 | | 24 | 1 34·72 | 150·47 |
| | 24 | 1 36·38 | 114·47 | | 24 | 1 31·70 | 122·60 | | 24 | 1 38·13 | 146·43 |
| | 24 | 1 39·63 | 110·28 | | 24 | 1 40·25 | 111·39 | | 24 | 1 39·20 | 144·48 |
| Mean . | 1 36·94 | 113·36 | Mean . | 1 41·31 | 109·88 | Mean . | 1 39·82 | 144·25 | | | |

^a Small Declinometer.

Monthly Determination of the Declination with a Portable Declinometer—continued.

| 1849 | | | 1850 | | | 1850 | | | 1851 | | |
|------------------|-----------------------|--|--------|-----------------------|--|---------|-----------------------|--|-------|-----------------------|--|
| DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. |
| | ° / | Sc. Div. | | ° / | Sc. Div. | | ° / | Sc. Div. | | ° / | Sc. Div. |
| AUGUST. | 20 | 1 41·15 | 142·54 | FEBRUARY. | 21 | 1 40·88 | 145·46 | AUGUST. | 20 | 1 47·13 | 359·00 |
| | 23 | 1 41·23 | 142·62 | | 21 | 1 41·80 | 143·70 | | 20 | 1 40·42 | 361·44 |
| | 23 | 1 37·07 | 148·64 | | 25 | 1 36·28 | 153·15 | | 21 | 1 43·73 | 357·17 |
| | 23 | 1 36·30 | 150·00 | | 25 | 1 40·33 | 146·30 | | 21 | 1 44·13 | 355·85 |
| | 24 | 1 40·18 | 144·67 | | 26 | 1 35·40 | 153·63 | | 21 | 1 48·37 | 350·67 |
| | 24 | 1 42·50 | 141·49 | | 26 | 1 38·67 | 149·69 | | 21 | 1 47·33 | 351·80 |
| Mean . | 1 39·74 | 144·99 | Mean . | 1 38·89 | 148·65 | Mean . | 1 45·18 | 355·99 | | | |
| SEPTEMBER. | 24 | 1 43·12 | 144·48 | MARCH. | 22 | 1 37·87 | 151·70 | SEPTEMBER. | 24 | 1 44·35 | 358·15 |
| | 25 | 1 34·62 | 154·42 | | 22 | 1 40·90 | 147·75 | | 24 | 1 45·87 | 352·52 |
| | 25 | 1 38·06 | 150·47 | | 22 | 1 45·20 | 141·72 | | 25 | 1 45·27 | 355·78 |
| | 35 | 1 41·12 | 146·38 | | 23 | 1 31·18 | 160·72 | | 25 | 1 48·27 | 351·44 |
| | 25 | 1 42·75 | 144·04 | | 25 | 1 39·87 | 147·76 | | 25 | 1 44·03 | 354·75 |
| | 25 | 1 39·63 | 147·23 | | 26 | 1 37·74 | 150·98 | | 26 | 1 42·18 | 359·52 |
| Mean . | 1 39·88 | 147·84 | Mean . | 1 38·79 | 150·10 | Mean . | 1 45·00 | 255·36 | | | |
| OCTOBER. | 20 | 1 37·17 | 150·28 | APRIL. | 24 | 1 41·67 | 347·40 ^a | OCTOBER. | 21 | 1 43·73 | 362·04 |
| | 20 | 1 40·85 | 145·08 | | 24 | 1 43·85 | 343·75 | | 21 | 1 42·40 | 363·27 |
| | 20 | 1 42·08 | 142·89 | | 24 | 1 42·92 | 344·78 | | 22 | 1 43·17 | 362·22 |
| | 22 | 1 44·28 | 138·71 | | 25 | 1 35·92 | 356·02 | | 23 | 1 43·45 | 361·22 |
| | 22 | 1 46·80 | 135·81 | | 26 | 1 33·28 | 359·92 | | 23 | 1 42·48 | 363·03 |
| | 23 | 1 37·25 | 149·21 | | 26 | 1 37·47 | 354·27 | | 24 | 1 33·23 | 376·04 |
| Mean . | 1 41·40 | 14·66 | Mean . | 1 39·18 | 351·02 | Mean . | 1 41·41 | 364·64 | | | |
| NOVEMBER. | 22 | 1 40·90 | 144·18 | MAY. | 23 | 1 48·52 | 342·70 | NOVEMBER. | 25 | 1 43·68 | 360·06 |
| | 22 | 1 42·73 | 141·92 | | 23 | 1 45·10 | 347·93 | | 25 | 1 42·85 | 361·89 |
| | 23 | 1 39·60 | 146·31 | | 23 | 1 40·53 | 354·09 | | 26 | 1 46·68 | 363·35 |
| | 23 | 1 35·65 | 151·36 | | 23 | 1 39·63 | 355·73 | | 26 | 1 48·30 | 359·84 |
| | 23 | 1 39·20 | 146·61 | | 24 | 1 38·82 | 356·18 | | 27 | 1 39·42 | 365·97 |
| | 24 | 1 46·81 | 146·29 | | 24 | 1 41·20 | 352·62 | | 27 | 1 43·02 | 360·84 |
| Mean . | 1 40·82 | 146·08 | Mean . | 1 42·30 | 351·54 | Mean . | 1 43·99 | 361·99 | | | |
| DECEMBER. | 22 | 1 36·58 | 153·81 | JUNE. | 21 | 1 40·54 | 355·49 | DECEMBER. | 26 | 1 42·35 | 360·05 |
| | 22 | 1 36·53 | 150·03 | | 21 | 1 42·22 | 356·26 | | 27 | 1 42·40 | 360·82 |
| | 24 | 1 37·95 | 152·85 | | 21 | 1 39·97 | 358·01 | | 27 | 1 42·65 | 360·91 |
| | 27 | 1 36·23 | 154·63 | | 21 | 1 38·92 | 357·04 | | 27 | 1 42·15 | 361·70 |
| | 27 | 1 35·48 | 155·24 | | 22 | 1 33·58 | 365·74 | | 28 | 1 38·85 | 367·83 |
| | | | | | 22 | 1 36·83 | 362·08 | | 28 | 1 42·18 | 362·72 |
| Mean . | 1 36·55 | 153·31 | Mean . | 1 38·67 | 359·10 | Mean . | 1 41·76 | 362·34 | | | |
| 1850 JANUARY. | 23 | 1 36·42 | 152·42 | JULY. | 23 | 1 38·38 | 361·71 | 1851 JANUARY. | 21 | 1 42·57 | 360·07 |
| | 23 | 1 38·43 | 144·57 | | 23 | 1 39·87 | 359·94 | | 21 | 1 43·03 | 358·60 |
| | 25 | 1 32·47 | 157·40 | | 23 | 1 40·58 | 358·57 | | 21 | 1 48·42 | 351·69 |
| | 25 | 1 33·48 | 156·41 | | 23 | 1 41·45 | 357·14 | | 22 | 1 38·87 | 366·83 |
| | 25 | 1 35·39 | 150·30 | | 23 | 1 41·38 | 356·89 | | 22 | 1 44·63 | 358·04 |
| | 25 | 1 39·47 | 146·34 | | 24 | 1 34·68 | 365·43 | | 22 | 1 47·70 | 353·67 |
| Mean . | 1 35·94 | 151·24 | Mean . | 1 39·39 | 359·95 | Mean . | 1 44·20 | 358·15 | | | |

^a Large Declinometer finally dismantled. Portable Declinometer.

Monthly Determination of the Declination with a Portable Declinometer.

| 1851 | | | 1851 | | | 1851 | | | | | |
|-----------|-----------------------|--|--------|-----------------------|--|---------|-----------------------|--|----|---------|--------|
| DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | DATE. | Declination Observed. | Reading of the Observatory Declinometer. | | | |
| | o / | Sc. Div. | | o / | Sc. Div. | | o / | Sc. Div. | | | |
| FEBRUARY. | 24 | 1 43·07 | 363·10 | JUNE. | 23 | 1 42·65 | 360·00 | OCTOBER. | 21 | 1 43·55 | 358·60 |
| | 24 | 1 43·03 | 363·72 | | 23 | 1 42·67 | 361·28 | | 22 | 1 44·93 | 353·38 |
| | 25 | 1 42·10 | 363·00 | | 23 | 1 42·92 | 360·59 | | 22 | 1 47·92 | 351·84 |
| | 25 | 1 42·50 | 364·39 | | 24 | 1 38·52 | 367·33 | | 23 | 1 39·83 | 364·52 |
| | 25 | 1 46·58 | 357·91 | | 24 | 1 41·10 | 362·85 | | 23 | 1 46·05 | 354·62 |
| | 25 | 1 46·08 | 358·53 | | 24 | 1 43·08 | 360·21 | | 23 | 1 46·55 | 355·00 |
| Mean . | 1 43·89 | 361·77 | Mean . | 1 41·82 | 362·04 | Mean . | 1 44·80 | 356·33 | | | |
| MARCH. | 24 | 1 45·37 | 356·72 | JULY. | 21 | 1 42·38 | 358·26 | NOVEMBER. | 24 | 1 48·73 | 349·40 |
| | 25 | 1 43·28 | 360·20 | | 22 | 1 41·22 | 360·73 | | 24 | 1 46·40 | 354·26 |
| | 25 | 1 44·27 | 359·15 | | 22 | 1 41·43 | 360·04 | | 25 | 1 40·60 | 360·74 |
| | 25 | 1 45·53 | 357·65 | | 22 | 1 44·80 | 356·24 | | 25 | 1 44·28 | 355·40 |
| | 26 | 1 35·17 | 372·12 | | 22 | 1 46·48 | 353·84 | | 26 | 1 43·82 | 355·60 |
| | 26 | 1 36·60 | 370·10 | | 22 | 1 44·03 | 356·80 | | 26 | 1 43·35 | 355·36 |
| Mean . | 1 41·70 | 362·66 | Mean . | 1 43·39 | 357·65 | Mean . | 1 44·53 | 355·13 | | | |
| APRIL. | 23 | 1 45·63 | 357·46 | AUGUST. | 21 | 1 46·73 | 354·54 | DECEMBER. | 22 | 1 50·13 | 346·62 |
| | 23 | 1 41·28 | 363·97 | | 21 | 1 44·67 | 358·30 | | 22 | 1 47·95 | 349·24 |
| | 23 | 1 43·85 | 359·85 | | 22 | 1 48·10 | 353·00 | | 22 | 1 45·93 | 355·26 |
| | 23 | 1 46·72 | 356·12 | | 22 | 1 49·03 | 352·54 | | 23 | 1 43·52 | 357·62 |
| | 24 | 1 42·92 | 361·04 | | 23 | 1 46·65 | 356·86 | | 23 | 1 48·50 | 351·56 |
| | 24 | 1 44·47 | 359·12 | | 23 | 1 47·77 | 357·86 | | 23 | 1 50·33 | 349·14 |
| Mean . | 1 44·15 | 359·59 | Mean . | 1 47·16 | 355·52 | Mean . | 1 47·73 | 351·57 | | | |
| MAY. | 20 | 1 45·25 | 355·56 | SEPTEMBER. | 23 | 1 46·78 | 354·04 | | | | |
| | 20 | 1 46·32 | 354·26 | | 23 | 1 46·70 | 353·46 | | | | |
| | 20 | 1 44·22 | 357·64 | | 24 | 1 49·48 | 350·54 | | | | |
| | 20 | 1 42·95 | 360·22 | | 24 | 1 49·18 | 350·32 | | | | |
| | 21 | 1 44·95 | 357·12 | | 25 | 1 42·02 | 360·56 | | | | |
| | 21 | 1 45·18 | 360·38 | | 25 | 1 44·57 | 356·33 | | | | |
| Mean . | 1 44·81 | 357·53 | Mean . | 1 46·45 | 354·21 | | | | | | |

