

MAGNETICAL OBSERVATIONS.

Presented by direction of the British Government,

to

OBSERVATIONS
MADE AT THE
MAGNETICAL AND METEOROLOGICAL
OBSERVATORY

AT
THE CAPE OF GOOD HOPE.

PRINTED BY ORDER OF HER MAJESTY'S GOVERNMENT.

UNDER THE SUPERINTENDENCE OF

LIEUT.-COLONEL EDWARD SABINE,
OF THE ROYAL ARTILLERY.

VOL. I.—MAGNETICAL OBSERVATIONS, 1841 to 1846.

WITH ABSTRACTS OF THE OBSERVATIONS FROM 1841 to 1850 INCLUSIVE

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ERRATA.

Page xxiv, lines six and seven, *for* 440 and 441 *read* 418 and 419.

Page xxv, line four, *for* 440 and 441 *read* 418 and 419.

INTRODUCTION.

THE Detachment of the Royal Artillery, appointed to carry on the duties of the Magnetical and Meteorological Observatory at the Cape of Good Hope, embarked in England in September 1839, on board the ships of the Antarctic Expedition, Erebus and Terror, commanded by Captain Sir James Clark Ross, R.N., and were landed at the Cape, with the instruments destined for the Observatory, on the 18th of March, 1840. The detachment consisted of Lieutenant, since Captain, Frederick Eardley Wilmot, three non-commissioned officers, subsequently increased by a fourth, and two gunners and drivers.

A convenient site for the Observatory was selected by the Governor, Sir George Napier, with the permission of Mr. Maclear, Director of the Cape Astronomical Observatory, and the sanction of the Admiral commanding on the station, in a portion of the ground belonging to the Astronomical Observatory, and in its immediate vicinity. The buildings for the reception of the instruments, and for the accommodation of the detachment, were erected by Colonel Lewis, commanding the Royal Engineers, in conformity with instructions from England. They were completed, and the instruments established in their places in February 1841; the record in this volume commences with April 1841.

Whilst the buildings were in progress Lieutenant Wilmot and his detachment were provided with accommodation in rooms belonging to the Astronomical Observatory, receiving in this and every other respect the utmost possible consideration and assistance from Mr. Maclear.

The Observatory was 48 feet long by 28 wide in the interior, built of 12-inch logs, weather-boarded and painted on the outside, with lath and plaster on the inside, a space of a foot being left between the interior plaster and the logs; it had a pitched roof, covered with felt as a protection against changes of temperature, and painted. All metal fastenings were either of copper or of zinc. The instrument room occupied the whole length of the building on the south side, and was 17 feet wide by 12 feet high, with double sash windows. The entrance was through the computing room, which, with a transit room and a small apartment for books and papers, occupied the whole length of the building upon the north side, which was further protected from the influence of the sun by a closed verandah, having doors at each end. The floor of the instrument room was of Purbeck paving-stone; the pedestals upon which the instruments were supported were of sandstone, six feet in length, imbedded in masonry to the depth of two feet, and

disconnected from the floor. Separate buildings were erected for Osler's Anemometer, and for the instruments to be employed in the Absolute Magnetic determinations.

From April 1841 to the end of September in the same year, the observations were made at intervals of two hours, but on the 1st of October, 1841, hourly observations were substituted, and were continued until July 1846, when the detachment of Artillery was withdrawn by orders from England, and the charge of the Magnetical and Meteorological Observations transferred to Mr. Maclear.

The Magnetical Observations from 1841 to 1846 are contained in this volume; the Meteorological Observations during the same period will form a second volume.

In 1841, Lieutenant, since Captain, Henry Clerk of the Royal Artillery, was appointed by Sir Hussey Vivian, Master-General of the Ordnance, as an additional officer on the strength of the Cape Observatory, to acquire a knowledge of the instruments employed there, and to assist in the observations. Lieutenant Clerk arrived at the Cape in December 1841. In June 1842 the peace of the colony being disturbed by an insurrection of the Boers, Lieutenant Eardley-Wilmot placed his military services at the disposal of the Governor, Sir George Napier, and joined the garrison at Cape Town, leaving the Observatory for some weeks in charge of Lieutenant Clerk. During the greater part of 1843 the Observatory also remained in Lieutenant Clerk's charge during Lieutenant Wilmot's absence on leave in England. Lieutenant Wilmot returned to the Observatory in October 1843, and in January 1844 Lieutenant Clerk sailed from the Cape in H.M. hired bark Pagoda, to complete, in conjunction with Lieutenant, now Captain, T. E. L. Moore, R.N., the magnetic survey of a portion of the Southern Hemisphere which had not been included in the survey executed by Sir James Ross's expedition. In March 1846, on the breaking out of the Caffre war, Captain Eardley-Wilmot, at the request of the Governor, Sir Peregrine Maitland, proceeded to the frontier on military duty, leaving the Observatory from that time until July of the same year in charge of Serjeant Weir of the Royal Artillery, who had been the senior non-commissioned officer at the establishment since the commencement of the service, and who, in the trust thus confided to him, acquitted himself with the intelligence and fidelity of which his previous conduct had justified the anticipation.

The Observatory is in latitude $33^{\circ} 56'$ S., and longitude $18^{\circ} 28' 45''$ East of Greenwich; its elevation is only a few feet above the level of the sea.

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

MAGNETICAL INSTRUMENTS.

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

MAGNETIC DECLINATION.

Declinometer.—The Declination Magnetometer employed at the Observatory of the Cape of Good Hope was of the construction described in pages 13 and 14 of the Royal Society's Report.

The magnet was furnished with a lens and scale by which it was rendered a moving collimator, and its position was read off by a telescope placed on a stone pedestal which was fixed at a distance of about six feet from the magnet. The observations with this instrument began in March 1841, and the account in this volume commences with April 1, 1841.

For the first few months the magnet was removed monthly for the purpose of substituting the deflecting magnet used in the experiments of Absolute Horizontal Force; but this practice was discontinued by directions from England received in October 1841, and from the commencement of December 1841, to April 1843, the magnet of the Declinometer was undisturbed. In April 1843, the observations with the three magnetometers were suspended for the purpose of ascertaining the temperature corrections of the Horizontal and Vertical Force magnets, on which occasion the torsion force of the suspension thread of the Declinometer and the zero point of the scale were carefully re-determined. At this period also the apparatus was furnished with a second external wooden case, rectangular in shape, and lined inside and out with gilt paper, to protect it more effectually against currents of air which might be generated inside the circular box. The observations were re-commenced on the 1st of May 1843, and the magnet continued thenceforward undisturbed to the conclusion of the series in July 1846.

The coefficient of the torsion force of the suspension thread, determined by Lieut. Clerk in 1843 by turning the index of the torsion circle 90° alternately to the east and to the west, was found by repeated experiments $\cdot 00056$: the arc value of one division of the collimator scale was $0' \cdot 7506$, consequently the arc value of one division, as read off by the telescope, was $0' \cdot 7506 \times 1 \cdot 00056 = 0' \cdot 751$.

The division of the scale corresponding to the magnetic axis of the bar, determined

at the same period by frequent inversals, was found to be $49\cdot4$. The prismatic error of the parallel glass covering the aperture of the case through which the collimator scale was read was found to be $+ 0\cdot12$; the effect of the copper damper $+ 0\cdot27$; of the horizontal force magnet $- 0\cdot32$, and of the vertical force magnet $+ 0\cdot26$. The sum of the casual corrections is $+ 0\cdot33$ scale divisions; making the zero point of the scale $49\cdot4 + 0\cdot33 = 49\cdot7$.

For the purpose of determining the azimuth of the wire of the reading telescope, the telescope of the transit theodolite was placed nearly in the astronomical meridian, and a meridian collimator was fixed on a pillar of masonry a few feet north of the theodolite room, and was covered with a wooden roof open below to admit air. The azimuth of the cross wires of the collimating meridian telescope was then determined by comparing the time of transits of the same stars observed by the transit theodolite adjusted to the cross of wires, and by the 10 feet transit of the Astronomical Observatory, taking into account the small difference in longitude between the telescopes. The azimuth of the meridian collimator being thus known, that of the wire of the reading telescope was derived from it, by measuring with the transit theodolite the angle between the cross wires of the one, and the vertical wire of the other. The azimuth of the reading telescope thus determined in April 1843, was $29^{\circ} 07' \cdot 35$, corresponding to the zero point $49\cdot7$; or taking the zero point for convenience at 50, the corresponding declination is $29^{\circ} 07' \cdot 6$ west. The azimuth of the reading telescope was again examined by a similar process at the close of the series in July 1846, when it was found $29^{\circ} 07' \cdot 7$.

On examining the abstracts of the observations in the years 1841, 1842, and 1843, it appeared probable that when the last adjustment in 1841 took place, which was on the 2nd of December, 1841, a half turn must have been inadvertently made in the suspension thread when the magnet was finally placed in the stirrup; and on referring to Captain Wilmot, by whom the adjustment was made at the period in question, it was found by an examination of the rough entries of the observations made at the time that such must have been the case. The bar had been removed in order to re-examine the magnetic axis, but the observations having been interrupted, and the magnet replaced before they were completed, no record of the removal had been sent home. The difference between the readings of the scale division before the magnet was removed and after it was replaced indicated, however, clearly that some such accident as that supposed must have taken place. The magnet remained undisturbed until April 1843, when, on being removed, and replaced in the stirrup when no torsion existed, a difference was shown of nearly equal amount, and in the opposite direction to that which had taken place in December, 1841.

The value of a half turn of the thread, or eight scale divisions, has therefore been added in the abstracts of the fortnightly means, from December 3, 1841, to April 9, 1843.

MAGNETIC DECLINATION.

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Absolute Declination corresponding to the Fortnightly Mean Positions of the Declinometer.—Table I. contains the fortnightly mean positions of the declinometer, and the mean declination in each fortnight during the whole period that the Observatory was under the Ordnance Department.

TABLE I.

The Angular Value of one Scale Division of the Declinometer is 0'.751. The Declination corresponding to the Zero point of the Scale is 29° 07'.6 West. The Zero Scale Division is 50. An increase in the Scale Divisions denotes a decrease of West Declination.

DATES.	MEAN SCALE DIVISIONS.						WEST DECLINATION.					
	1811	1812	1813†	1814	1815	1816	1811	1812	1813	1814	1815	1816
							29°+	29°+	29°+	29°+	29°+	29°+
Jan. 1 to Jan. 14	—	*43.40	*42.53	51.76	49.39	47.56	—	6.56	7.21	6.27	8.06	9.43
„ 15 „ 28	—	*41.69	*42.69	52.65	49.53	49.17	—	5.59	7.09	5.61	7.95	8.22
„ 29 Feb. 11	—	*43.83	*42.05	51.28	50.11	49.35	—	5.48	7.57	6.62	7.52	8.09
Feb. 12 „ 25	—	*41.89	*42.63	51.87	51.22	48.74	—	7.63	7.13	6.20	6.68	8.55
„ 26 Mar. 11	—	*43.27	*41.98	50.67	49.68	48.38	—	6.65	7.63	7.10	7.84	8.82
Mar. 12 „ 25	—	*42.80	*41.49	52.10	49.57	47.64	—	6.01	7.99	6.03	7.92	9.37
„ 26 Apr. 9	—	*41.04	*40.94	51.32	49.86	46.71	—	6.08	8.40	6.61	7.70	10.08
Apr. 10 „ 22	50.69	*43.02	‡	51.21	49.30	46.19	7.08	6.84	‡	6.69	8.13	10.46
„ 23 May 6	50.97	*43.32	‡	52.05	49.76	48.12	6.87	6.62	‡	6.06	8.78	9.01
May 7 „ 20	50.75	*44.29	50.29	51.82	50.84	48.26	7.03	5.89	7.38	6.23	6.97	8.91
„ 21 June 3	48.91	*45.29	53.64	51.99	51.20	49.48	8.69	5.14	4.87	6.10	6.70	7.99
June 4 „ 17	53.77	*44.90	53.08	52.75	51.43	50.12	4.77	5.43	5.29	5.53	6.53	7.51
„ 18 July 1	53.36	*45.78	53.97	53.56	52.07	50.57	5.07	4.77	4.62	4.92	6.05	7.18
July 2 „ 15	52.17	*45.11	53.98	53.52	51.53	49.60	5.98	5.27	4.61	4.95	6.45	7.90
„ 16 „ 29	52.51	*45.90	53.84	53.78	51.17	49.50	5.72	4.68	4.72	4.76	6.73	7.97
„ 30 Aug. 12	51.40	*45.00	53.96	52.68	51.54	—	6.55	5.35	4.62	5.59	6.45	—
Aug. 13 „ 26	52.70	*45.76	53.41	52.73	52.08	—	5.57	4.78	5.04	5.55	6.04	—
„ 27 Sept. 9	52.80	*46.19	53.14	52.41	51.27	—	5.50	4.46	5.23	5.79	6.65	—
Sept. 10 „ 23	52.18	*45.54	52.98	52.80	51.81	—	5.97	4.95	5.36	5.50	6.24	—
„ 24 Oct. 7	51.31	*46.12	52.12	51.63	51.43	—	6.62	4.51	6.01	6.38	6.53	—
Oct. 8 „ 21	52.37	*43.75	52.36	51.62	51.02	—	5.83	6.30	5.83	6.38	6.83	—
„ 22 Nov. 4	52.62	*43.29	52.12	50.15	49.65	—	5.63	6.64	6.01	7.49	7.86	—
Nov. 5 „ 18	52.07	*43.64	52.72	50.18	48.98	—	6.05	6.38	5.55	7.47	8.37	—
„ 19 Dec. 2	50.89	*41.68	53.36	50.18	48.07	—	6.93	7.85	5.07	7.47	9.05	—
Dec. 3 „ 16	*43.15	*41.71	52.91	50.89	47.03	—	6.75	7.83	5.41	6.93	9.83	—
„ 17 „ 31	*43.26	*42.80	53.04	49.56	47.23	—	6.66	7.01	5.32	7.93	9.68	—

* 8 Scale Divisions are to be added to each of these numbers, to compensate for a half turn or 180° of torsion, supposed to have existed in the suspension thread.

† The Fortnightly periods in 1813 are counted from Jan. 1 to Jan 13, Jan. 14 to Jan. 27, Jan. 28 to Feb. 13, &c., being one day earlier than in the other years, in consequence of the Sunday happening on the 14th and 28th Jan., 11th Feb., &c., in that year.

‡ Observations suspended.

Secular Change of the Declination.—Table II. exhibits the annual increase (+) or decrease (—) of West Declination, obtained by comparing the fortnightly means in each year, with those of the corresponding dates in the succeeding year. The fortnightly means taken for this purpose commence July 2, 1841, and end July 1, 1846.

TABLE II.

DATES.	ANNUAL INCREASE (+) OR DECREASE (—) OF WEST DECLINATION.				
	1841 to 1842.	1842 to 1843.	1843 to 1844.	1844 to 1845.	1845 to 1846.
Jan. 1 to Jan. 14	—	+0.65	—1.94	+1.79	+1.37
„ 15 „ 28	—	+1.50	—1.48	+2.34	+0.27
„ 29 Feb. 11	—	+2.09	—0.95	+0.90	+0.57
Feb. 12 „ 25	—	—0.50	—0.93	+0.48	+1.87
„ 26 Mar. 11	—	+0.98	—0.53	+0.74	+0.98
Mar. 12 „ 25	—	+1.98	—1.96	+1.89	+1.45
„ 26 April 9	—	+2.32	—1.79	+1.09	+2.38
April 10 „ 22	—0.24	—0.07	—0.08	+1.44	+2.33
„ 23 May 6	—0.25	—0.28	—0.28	+2.72	+0.23
May 7 „ 20	—1.14	+1.49	—1.15	+0.74	+1.94
„ 21 June 3	—3.55	—0.27	+1.23	+0.60	+1.29
June 4 „ 17	+0.66	—0.14	+0.24	+1.00	+0.98
„ 18 July 1	—0.30	—0.15	+0.30	+1.13	+1.13
July 2 „ 15	—0.71	—0.66	+0.34	+1.50	+1.45
„ 16 „ 29	—1.04	+0.04	+0.04	+1.97	+1.24
„ 30 Aug. 12	—1.20	—0.73	+0.97	+0.86	—
Aug. 13 „ 26	—0.79	+0.26	+0.51	+0.49	—
„ 27 Sept. 9	—1.04	+0.77	+0.56	+0.86	—
Sept. 10 „ 23	—1.02	+0.41	+0.14	+0.74	—
„ 24 Oct. 7	—2.11	+1.50	+0.37	+0.15	—
Oct. 8 „ 21	+0.47	—0.47	+0.55	+0.45	—
„ 22 Nov. 4	+1.01	—0.63	+1.48	+0.37	—
Nov. 5 „ 18	+0.33	—0.83	+1.92	+0.90	—
„ 19 Dec. 2	+0.92	—2.78	+2.40	+1.58	—
Dec. 3 „ 16	+1.08	—2.42	+1.52	+2.90	—
„ 17 „ 31	+0.35	—1.69	+2.61	+1.75	—
Mean Annual Increase or Decrease of West Declination . . .	—0.29	+0.09	+0.16	+1.21	+1.29
Mean of 104 Results + 0'.49					

Hence we may conclude that the West Declination was increasing between the beginning of July 1841 and the same date in 1846, at an average rate of about 0'.49 in each year. It appears also that the rate of increase was slightly accelerating.

Annual Variation of the Declination.—From the fortnightly means in the five years commencing July 2, 1841, and ending July 1, 1846, we may derive the mean declination corresponding to each fortnightly period in the middle year of the five, viz., in the year commencing July 2, 1843, and ending July 1, 1844: thus the

declination corresponding to the fortnight commencing July 2 and ending July 15, 1843, will be the mean of the five mean declinations of the same fortnight in 1841, 1842, 1843, 1844, and 1845; and so forth. These quinquennial mean values, corresponding respectively to each fortnight from July 2, 1843, to July 1, 1844, are shown in column 2 of Table III. (page x.) The mean of the 26 fortnightly values in this column ($29^{\circ} 06' \cdot 64$) is the mean west declination corresponding to January 1, 1844, derived from five years of hourly observation, of which $2\frac{1}{2}$ years were antecedent and $2\frac{1}{2}$ years subsequent to that epoch. The differences between the several fortnightly values and their mean include the effects both of secular change and of annual variation. The mean secular change during the five years has been shown in Table II. to be an annual increase of $0' \cdot 49$ west declination. If the secular change be assumed to take place uniformly and equably throughout the year, each of the fortnightly means of the mean year should receive a correction to the mean epoch, by the application in each case of a proportion of the secular change due to the interval measured from the mean epoch. These corrections are shown in column 3 of Table III., and column 4 contains the fortnightly values so corrected. The differences between the several fortnightly values in column 4, and their mean value, $\nabla \psi$, will then exhibit the mean Annual Variation as derivable from the mean fortnightly values, or the amount by which the mean declination derived from 24 observations in each day at equal intervals from each other, differs in each fortnight of the year from the mean of the whole year. The Annual Variation thus derived is shown in column 5 of Table III; the sign + implying that the Mean (West) Declination in the fortnight is less than the mean of the year, or that the north end of the magnet is more easterly in that fortnight than on the mean of the whole year; and the sign — implying the converse.

It is perceived by this table that when the Declination is obtained from a mean of hourly observations, the north end of the needle points at the Cape of Good Hope to the east of its mean or normal position in the year, from late in the month of May to late in the month of October; and that during the remainder of the year it points to the west of its mean or normal position. The maximum deviation on either side somewhat exceeds one minute.

TABLE III.
Annual Variation of the Declination derived from the Fortnightly Means.

DATES.	Mean Declination derived from 5 Years' Observations.	Correction for Secular Change.	Mean Declination corrected for Secular Change.	Annual Variation $\nabla \psi - \psi$.
1843				
July 2 to July 15	29° 05' 45	+ 0.24	29° 05' 69 = ψ	+ 0.99
" 16 " " 29	29 05 32	+ 0.22	29 05 54 = ψ	+ 1.14
" 30 " Aug. 12	29 05 71	+ 0.20	29 05 91 = ψ	+ 0.77
Aug. 13 " " 26	29 05 40	+ 0.18	29 05 58 = ψ	+ 1.09
" 27 " Sept. 9	29 05 53	+ 0.16	29 05 69 = ψ	+ 0.98
Sept. 10 " " 23	29 05 60	+ 0.14	29 05 74 = ψ	+ 0.92
" 24 " Oct. 7	29 06 01	+ 0.12	29 06 13 = ψ	+ 0.53
Oct. 8 " " 21	29 06 23	+ 0.10	29 06 33 = ψ	+ 0.33
" 22 " Nov. 4	29 06 73	+ 0.09	29 06 82 = ψ	- 0.16
Nov. 5 " " 18	29 06 76	+ 0.07	29 06 83 = ψ	- 0.17
" 19 " Dec. 2	29 07 27	+ 0.05	29 07 32 = ψ	- 0.67
Dec. 3 " " 16	29 07 35	+ 0.03	29 07 38 = ψ	- 0.73
" 17 " " 31	29 07 32	+ 0.01	29 07 33 = ψ	- 0.69
1844				
Jan. 1 " Jan. 14	29 07 51	- 0.01	29 07 50 = ψ	- 0.86
" 15 " " 28	29 06 89	- 0.03	29 06 86 = ψ	- 0.23
" 29 " Feb. 11	29 07 06	- 0.05	29 07 01 = ψ	- 0.38
Feb. 12 " " 25	29 07 24	- 0.07	29 07 17 = ψ	- 0.55
" 26 " Mar. 11	29 07 61	- 0.09	29 07 52 = ψ	- 0.90
Mar. 12 " " 25	29 07 46	- 0.10	29 07 36 = ψ	- 0.73
" 26 " Apr. 8	29 07 77	- 0.12	29 07 65 = ψ	- 1.03
Apr. 9 " " 22	29 08 04	- 0.14	29 07 90 = ψ	- 1.28
" 23 May 6	29 07 64	- 0.16	29 07 48 = ψ	- 0.86
May 7 " " 20	29 07 08	- 0.18	29 06 90 = ψ	- 0.29
" 21 June 3	29 06 16	- 0.20	29 05 96 = ψ	+ 0.65
June 4 " " 17	29 06 06	- 0.22	29 05 84 = ψ	+ 0.76
" 18 July 1	29 05 51	- 0.24	29 05 27 = ψ	+ 1.33
Mean, corresponding to Jan. 1, 1844	29 06 64		29 06 64 = $\nabla \psi$	

When, however, we turn our attention from the *mean* Annual Variation, or that derived from the declination obtained from a mean of the 24 observations in each day, to the Annual Variation which is shown by the declination observed at *each of the several observation hours taken separately*, we find that the facts present a much more complex, but at the same time a much more instructive aspect. For the purpose of exhibiting more fully the phenomena connected with the annual variation, Table IV. has been formed, showing the mean declination at every observation hour in each month of the mean year from July 2nd, 1843, to July 1st, 1844; each value entered in the table being the mean of the declination observed at the specified hour and in the particular month, in the five years commencing July 2nd, 1841, and ending July 1st, 1846. The differences between the mean declination on the 1st of January, 1844, derived from all the observations in the year at *any particular observation hour*, and the mean declinations in each month at *the same hour*, corrected as before for secular

change, constitute in each case the Annual Variation which would have appeared had the Declination been observed only at that hour. Table V. shows the Annual Variation thus derived for each of the observation hours; the facts have been arranged in this table, and in Plate I. drawn in illustration of them, in the manner which after several trials appeared the most likely to facilitate their study; and the few general remarks which follow the table have the same purpose. Table V. is derived directly from Table IV., and appears to require but little additional explanation. As the particular object of Plate I. is to show the comparative extent of the range of the Annual Variation at the different hours, and the positions which the several months occupy in the range at each hour, the dotted line which represents *the mean declination of the year at each hour*, or the mean declination obtained from the observations of the five years at that hour only, has, for the sake of greater convenience and simplicity, been projected as a straight horizontal line, instead of being drawn according to its varying declination value at the several hours; in which latter case it would have formed a curve, representing the *mean diurnal variation of the year*.

TABLE IV.

Showing the mean (West) Declination at every Observation Hour in each Month of the Year, derived from Five Years of Hourly Observation.

Observation Hours. Cape Time, Astronomical Reckoning.		1841 to 1845.						1842 to 1846.						Means of each Observation Hour corresponding to January 1st. 1844.
		July 1843.	August 1843.	Sept. 1843.	October 1843.	November 1843.	December 1843.	January 1844.	February 1844.	March 1844.	April 1844.	May 1844.	June 1844.	
H.	M.	29°+	29°+	29°+	29°+	29°+	29°+	29°+	29°+	29°+	29°+	29°+	29°+	29°+
12	34	5.08	5.42	5.44	5.77	5.84	6.29	6.67	6.55	7.22	7.50	6.68	5.68	6.18
13	34	4.90	5.24	5.16	5.78	6.05	6.53	6.85	6.59	7.04	7.10	6.50	5.42	6.10
14	34	4.87	5.10	5.27	5.97	6.34	6.82	7.08	6.78	6.98	7.12	6.46	5.39	6.18
15	34	4.75	4.81	5.14	6.14	6.63	7.16	7.33	6.83	7.03	7.01	6.23	5.20	6.19
16	34	4.57	4.67	5.11	6.29	7.04	7.52	7.55	6.95	7.05	6.93	6.08	5.20	6.25
17	34	4.45	4.46	4.90	6.53	7.77	8.27	7.97	7.06	7.18	6.81	5.97	5.14	6.38
18	34	4.05	3.82	4.06	7.15	9.12	9.48	8.63	7.43	7.62	6.94	5.54	4.39	6.52
19	34	3.70	3.33	4.48	8.56	10.50	10.51	9.50	8.97	9.34	7.70	5.43	4.21	7.19
20	34	4.37	4.41	6.04	9.79	11.17	10.85	10.27	11.06	11.50	9.60	7.00	5.02	8.42
21	34	5.75	6.26	7.50	9.93	10.61	10.34	10.28	11.72	12.54	10.93	8.65	6.56	9.26
22	34	6.89	7.70	8.34	8.66	8.84	8.84	9.26	11.36	11.31	10.63	9.34	7.43	9.05
23	34	7.02	7.92	7.54	6.75	7.31	7.34	7.71	9.36	9.12	9.06	8.71	7.33	7.93
0	34	6.48	7.40	6.80	5.04	6.00	6.26	6.34	6.82	7.23	7.19	7.50	6.68	6.64
1	34	5.89	6.53	5.75	4.12	5.03	5.42	5.22	4.84	5.83	6.26	6.83	6.16	5.66
2	34	5.14	5.65	5.07	4.02	4.81	5.39	5.15	4.12	5.28	6.39	6.53	5.56	5.26
3	34	5.05	4.99	5.11	4.70	5.20	5.82	5.60	4.46	5.64	6.83	6.41	5.56	5.45
4	34	5.53	5.20	4.86	5.65	5.75	6.44	6.01	5.26	6.35	7.31	6.83	6.07	5.94
5	34	5.96	5.83	5.78	6.24	6.20	6.50	6.36	6.21	7.07	7.57	7.18	6.38	6.44
6	34	6.02	5.85	5.75	6.09	6.10	6.65	6.69	6.59	7.26	7.67	7.16	6.30	6.51
7	34	5.97	5.79	5.69	5.88	5.92	6.47	6.49	6.50	7.24	7.67	7.04	6.23	6.41
8	34	5.87	5.70	5.69	5.84	5.86	6.36	6.22	6.42	7.14	7.63	7.00	6.18	6.33
9	34	5.76	5.61	5.69	5.76	5.79	6.30	6.29	6.51	7.17	7.63	7.03	6.08	6.30
10	34	5.62	5.66	5.63	5.75	5.81	6.24	6.38	6.59	7.29	7.58	6.89	5.94	6.28
11	34	5.35	5.53	5.56	5.79	5.80	6.23	6.51	6.64	7.17	7.55	6.92	5.80	6.24
Means in each Month of all the Observation Hours		5.38	5.53	5.72	6.35	6.92	7.25	7.18	7.18	7.70	7.70	6.91	5.85	6.64

TABLE V.

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.

Cape of Good Hope Time, Astronomical Reckoning.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
h m												
12 34	-0'47	-0'31	-0'94	-1'18	-0'32	+0'73	+0'87	+0'58	+0'60	+0'31	+0'28	-0'13
13 34	-0'73	-0'43	-0'84	-0'86	-0'22	+0'91	+0'97	+0'68	+0'80	+0'22	-0'01	-0'45
14 34	-0'88	-0'54	-0'70	-0'80	-0'10	+1'02	+1'08	+0'90	+0'77	+0'11	-0'22	-0'66
15 34	-1'12	-0'58	-0'74	-0'68	+0'14	+1'22	+1'21	+1'20	+0'91	-0'05	-0'50	-0'99
16 34	-1'28	-0'64	-0'70	-0'54	+0'35	+1'28	+1'45	+1'40	+1'00	-0'14	-0'85	-1'29
17 34	-1'57	-0'62	-0'70	-0'29	+0'59	+1'47	+1'70	+1'74	+1'34	-0'25	-1'45	-1'91
18 34	-2'09	-0'85	-1'00	-0'28	+1'16	+2'36	+2'24	+2'52	+2'32	-0'73	-2'66	-2'98
19 34	-2'29	-1'72	-2'05	-0'37	+1'94	+3'21	+3'26	+3'68	+2'57	-1'47	-3'37	-3'34
20 34	-1'83	-2'58	-2'98	-1'04	+1'60	+3'63	+3'82	+3'83	+2'24	-1'47	-2'81	-2'45
21 34	-1'00	-2'40	-3'18	-1'53	+0'79	+2'93	+3'28	+2'82	+1'62	-0'77	-1'41	-1'10
22 34	-0'19	-2'25	-2'16	-1'44	-0'11	+1'85	+1'93	+1'17	+0'57	+0'29	+0'15	+0'19
23 34	+0'24	-1'37	-1'09	-0'99	-0'60	+0'83	+0'68	-0'17	+0'25	+1'08	+0'56	+0'57
0 34	+0'32	-0'12	-0'49	-0'41	-0'68	+0'19	-0'07	-0'94	-0'30	+1'50	+0'58	+0'36
1 34	+0'46	+0'88	-0'07	-0'46	-0'99	-0'27	-0'46	-1'05	-0'23	+1'44	+0'57	+0'22
2 34	+0'13	+1'20	+0'08	-0'99	-1'09	-0'07	-0'11	-0'57	+0'05	+1'14	+0'39	-0'15
3 34	-0'13	+1'05	-0'09	-1'24	-0'78	+0'12	+0'17	+0'28	+0'20	+0'65	+0'19	-0'39
4 34	-0'05	+0'74	-0'31	-1'23	-0'71	+0'10	+0'18	+0'56	+0'94	+0'19	+0'13	-0'52
5 34	+0'10	+0'29	-0'53	-0'99	-0'56	+0'29	+0'25	+0'43	+0'52	+0'10	+0'18	-0'08
6 34	-0'16	-0'02	-0'65	-1'02	-0'47	+0'44	+0'26	+0'48	+0'62	+0'32	+0'35	-0'16
7 34	-0'06	-0'03	-0'73	-1'12	-0'45	+0'41	+0'21	+0'44	+0'58	+0'43	+0'43	-0'08
8 34	+0'13	-0'03	-0'71	-1'16	-0'49	+0'38	+0'23	+0'45	+0'50	+0'30	+0'41	-0'05
9 34	+0'03	-0'15	-0'77	-1'19	-0'55	+0'45	+0'31	+0'51	+0'47	+0'44	+0'45	-0'02
10 34	-0'08	-0'25	-0'91	-1'16	-0'43	+0'57	+0'43	+0'44	+0'51	+0'43	+0'41	+0'02
11 34	-0'25	-0'34	-0'83	-1'17	-0'50	+0'67	+0'66	-0'53	+0'54	+0'35	+0'38	-0'01

On examining Table V. (and Plate I. which has been drawn in illustration of it), we at once perceive that the range of the Annual Variation at the different observation hours, which is tolerably uniform from the evening to the early morning, undergoes a striking increase in the forenoon, reaching its maximum at the hours of 19^h 34^m, 20^h 34^m, and 21^h 34^m, the range during these hours being fully three times as great as during those of the afternoon and night. By this difference in the magnitude of the range, the 24 hours may be divided into two groups, which it may be convenient to study in some measure separately.

Commencing with the group in which the Annual Variation has the smaller range, *i. e.*, from the evening to the early morning, we find that from the early evening to 13^h 34^m inclusive, the month of April occupies always the western extreme of the annual range; that is to say, the north end of the magnet is, in the month of April, at all these hours west of the position which it occupies at the same hours in all the other months of the year. If we further trace the course of the annual variation in this group of hours, we find that, commencing with April, the north end of the magnet progresses rapidly towards the east, June, July, August, and September being closely congregated

at the eastern extremity of the range. In the remainder of the year, *viz.*, from September to April, the progression is generally towards the west, the monthly change being more equable; the different months not, however, always retaining their regular order of succession.

If we now direct our attention to the other group, *viz.*, from 14^h 34^m to 4^h 34^m inclusive, we are naturally led to look for its characteristics at the three observation hours at which the range of the Annual Variation attains its maximum development, *viz.*, at 19^h 34^m, 20^h 34^m, and 21^h 34^m. Here we perceive the months of June, July, and August still occupying the eastern extremity of the annual range, whilst the months from October to March are congregated, though by no means very closely or in regular succession, near the western extremity; whilst April, May and September are found at intermediate points of the range, but retaining always the order of succession already recognised for these months. The change from the characteristics of the one group to those of the other is on the whole progressive at the transition hours, though there are some remarkable anomalies, amongst which may be noticed that at the hours of 0^h 34^m and 1^h 34^m, August is found at the western extremity, and at 2^h 34^m and 3^h 34^m February is found at the eastern extremity, of the annual range; and that June and July, which at each of the eighteen hours, from 5^h 34^m to 22^h 34^m, are found, as already stated, near the eastern extremity, descend progressively towards the west from 23^h 34^m to 1^h 34^m, at which latter hour the north end of the needle is in those months to the west of its mean position in the year; from 1^h 34^m they progressively return, until at 5^h 34^m they resume their more customary place near the eastern extremity of the annual range.

The mean position of the north end of the magnet in the month of April is throughout the whole 24 hours west of its general normal position in the year, and in the month of September east of the normal position at all the hours of observation excepting 0^h 34^m and 1^h 34^m.

The range of the annual variation in proportion to the time in which the change takes place is greatest from March to June, and (in the opposite direction) from August to October, at the hours of 19^h 34^m, 20^h 34^m, and 21^h 34^m. The declination determined by a single daily observation made between 20^h 34^m and 21^h 34^m, undergoes between March and June an alteration not much less than the whole range of the *diurnal* variation in any month of the year, and greater than the diurnal variation during nine months of the year.

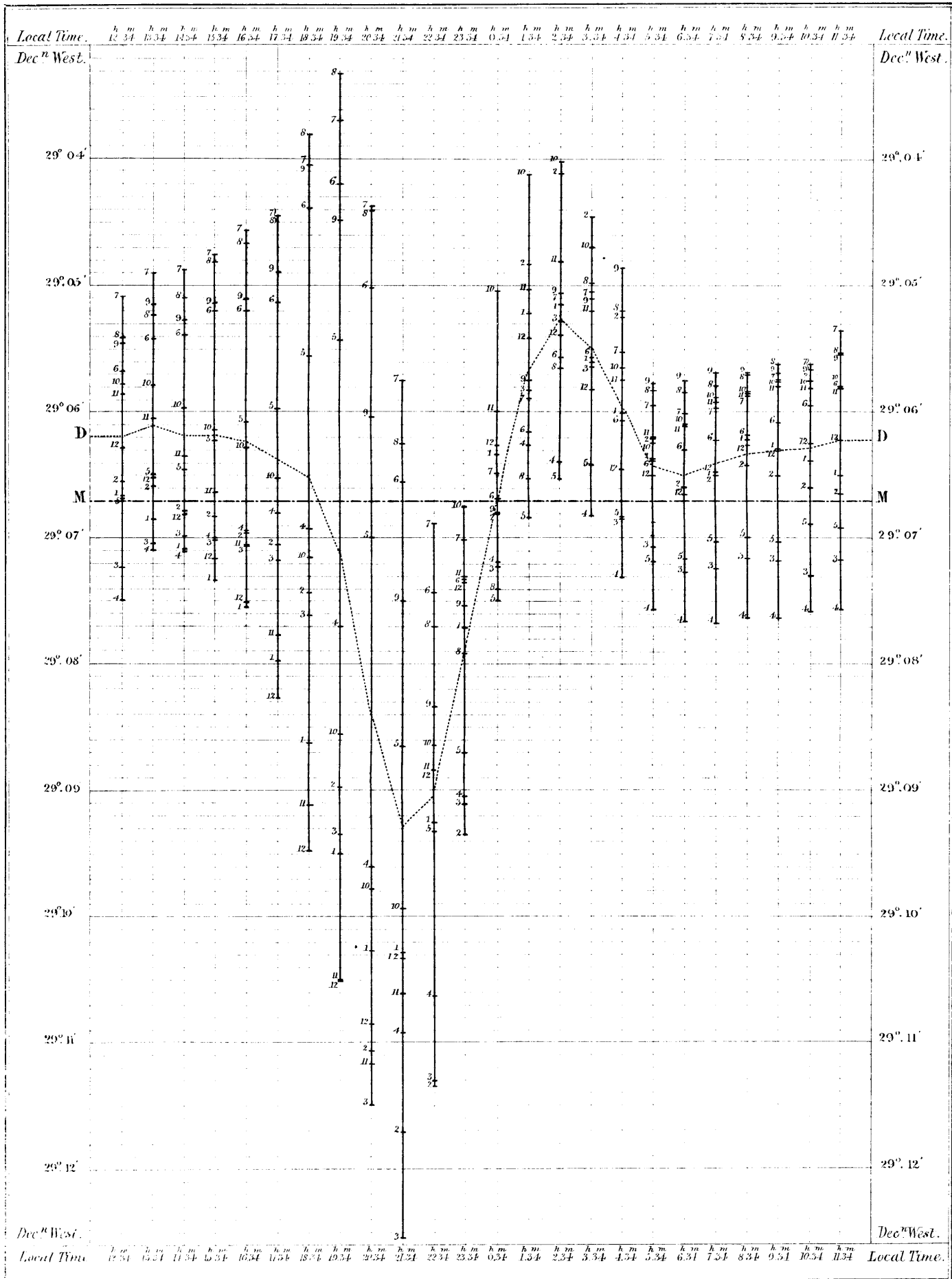
In considering the relative positions of the different months in the annual range, and their changes of position in the range at different hours of the day, we cannot fail to notice resemblances on the one hand and contrasts on the other, indicative of the relation which the several months bear to the sun's place in the ecliptic. Thus June, July, and August, are congregated together near one extremity of the range during a large portion of the 24 hours; and, in their changes of position at the other hours,

move for the most part in the same directions at the same hours. These months may therefore be classed together as a solstitial group; and from similar characteristics of agreement in position and in the time and direction of the changes they undergo, November, December, and January, form a second solstitial group, antagonistic to the former, inasmuch as June, July, and August, are at one extremity of the range at the hours when November, December, and January, are at the other. The changes of position of the two groups take place also about the same period of the day, the change commencing rather earlier in the case of November, December, and January, than in that of June, July, and August; and being in opposite directions, the relative position of the two groups becomes thereby reversed, June, July, and August, being in the forenoon to the east, and in the afternoon to the west of November, December, and January. Each of the solstitial groups is found at different parts of the 24 hours on opposite sides of the mean or normal line; in which respect they contrast with the equinoctial months of March and September, each of which shows a decided tendency to adhere to one side only of the mean line, but in this respect presenting to each other the remarkable contrast that September keeps almost invariably to the east, and March to the west of the mean line.

The circumstance that so many of the months are on opposite sides of the mean line at different hours of the 24, is the reason why the *mean* Annual Variation, or that derived from the mean of all the observation hours, is so small in amount, when compared with the variation at many of the hours taken separately. The mean annual variation is in fact for the most part, a series of *residual* and not of absolute values; and as such can impart but a very imperfect apprehension of the intricate but obviously systematic operation of the causes concerned in producing the Annual Variation. The instruction to be obtained from the *mean* Annual Variation is therefore necessarily very inferior to that which may be gained by the study of the more perfect representation of the phenomena which is here attempted; in their general aspect they appear to be well suited to elucidate the important problem of the mode in which the solar agency operates in producing the annual and diurnal magnetic variations, and to supply a critical test for the various hypotheses which may be adduced for its solution.

Plate II. represents the same phenomena of the Annual Variation at the several observation hours, but arranged according to their proper declination value. In this plate consequently the line D D, representing the mean declination of the year as severally derived for each of the observation hours from the observations at that hour only, and which in Plate I. is projected as a straight horizontal line, here assumes its true figure in respect to the variation of the mean declination at the different hours of the day. The declination scale of this plate is the same as that of Plate I.; the dark vertical lines represent, as before, the range of the annual variation at each observation hour, and the small cross lines the positions of the several months in the respective ranges.

Annual Range at the several observation hours shewn in Declination Value.



The months are indicated by numbers according to the order of succession, commencing with January as 1, and ending with December as 12. The line M M marks the mean declination of the year $29^{\circ} 06' \cdot 6$ west, corresponding to the mean epoch of January 1, 1844.

A remarkable circumstance strikingly shown by this plate is, that the Declination observed during the three hours before noon is, throughout the year, almost always west of its average value in the year; and during the three hours after noon, as generally east of its average value.

Diurnal Variation of the Declination.—Table VI. (pages xvi—xix.) exhibits the Diurnal Variation derived from the monthly means of the hourly observations from October 1841 to June 1846 inclusive. Table VII. (page xx.) exhibits in one view the mean Diurnal Variation in each month of the year derived from the results in Table VI.; and Table VIII. (page xxi.) exhibits the mean hourly position of the magnet in each month of the year relatively to its mean position in the month. From the numbers contained in Table VIII. the march of the Diurnal Variation in each month of the year has been projected in Plate III. as affording a convenient means of examining the influence of season on the direction in which the magnet moves at the different hours of the day; as well as of bringing under notice, perhaps more conspicuously than heretofore, the remarkable correspondence in the phenomena at the Cape of Good Hope and St. Helena, by means of the comparison which it affords with Plate III. of the 1st volume of the St. Helena Observations, both being projected upon the same scale. On the most cursory inspection the resemblance cannot fail to be impressive; and when examined more carefully the peculiarities of the opposite motion of the north end of the magnet, from 14 hours to near noon, according as the sun is in the northern or the southern signs, and of the strongly contrasted variation in the successive months of September and October, are found to be as remarkable at the Cape as at St. Helena. With regard to the precise date of the transition from the form of the September to that of the October projection, it may be seen, by comparing the fortnightly means of the variation taken on either side of the 21st of September, to be as nearly as possible coincident at both stations with the day of the equinox.

TABLE VI.

Diurnal Variation of the Declination in the several Months, from April 1841 to June 1846.

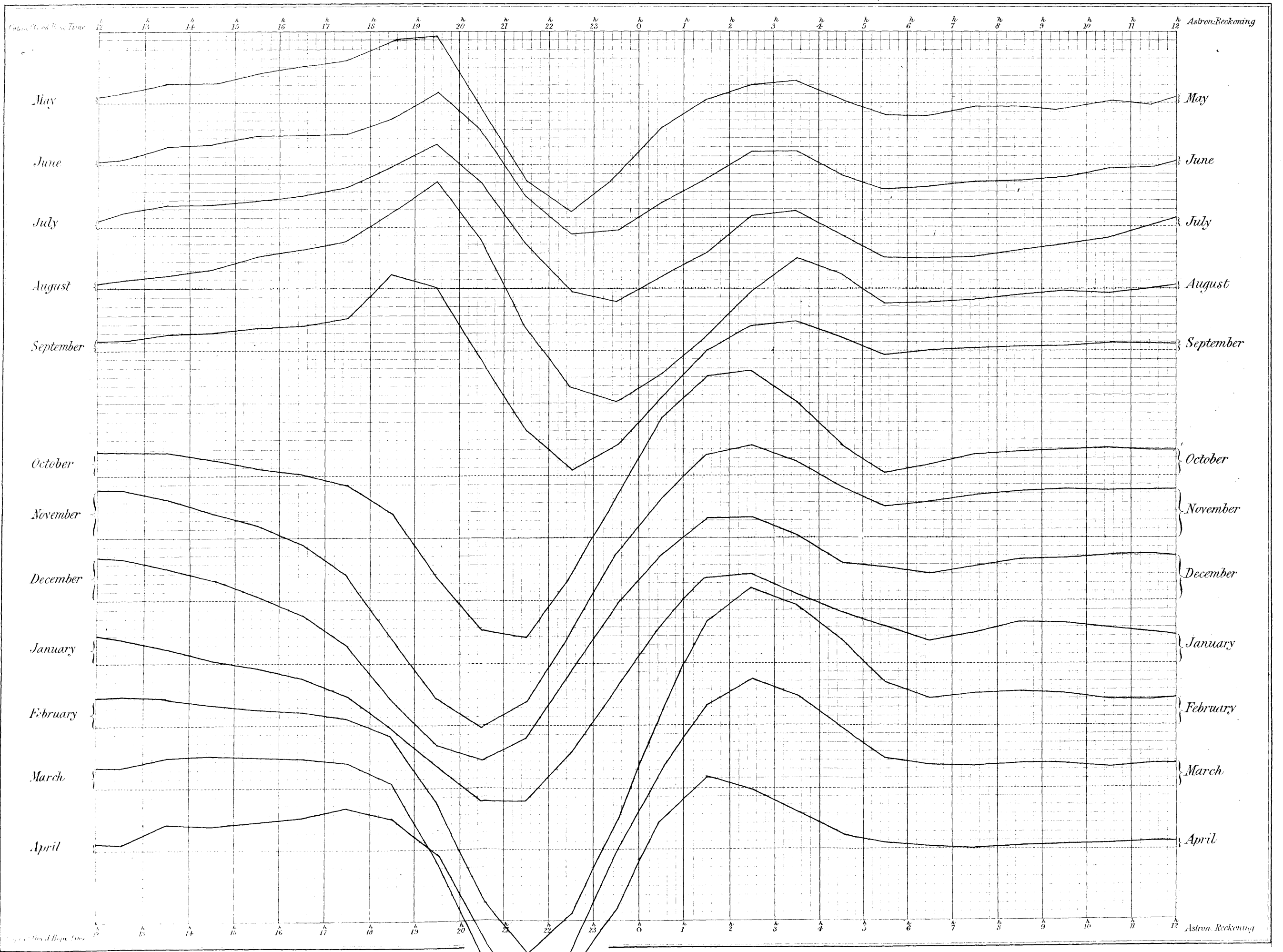
The lowest Monthly Mean occurring at any observation hour is taken as the Zero for the Month, and corresponds to the extreme

Local Time.	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	
JANUARY.	1842	4.56	6.02	5.71	4.89	4.50	4.11	3.93	4.01	4.26	4.17	3.88
	1843	3.03	3.55	3.41	2.89	2.66	2.81	2.88	2.92	3.07	3.25	3.29
	1844	4.26	5.11	5.13	4.87	4.63	4.30	3.71	3.87	4.20	4.22	4.11
	1845	4.26	6.03	6.64	6.37	5.87	5.19	4.40	4.78	4.95	4.70	4.60
	1846	5.43	6.42	6.59	6.19	5.55	5.04	4.86	5.23	5.67	5.46	5.47
Reduced Means	3.75	5.07	5.14	4.68	4.28	3.93	3.60	3.80	4.07	4.00	3.91	
FEBRUARY.	1842	5.34	6.49	6.75	6.20	5.36	4.64	4.72	4.62	4.44	4.41	4.44
	1843	5.41	6.60	6.74	6.35	5.74	5.01	4.81	4.88	4.98	4.92	4.78
	1844	6.09	8.52	9.46	9.07	8.08	6.88	6.45	6.80	6.97	6.75	6.83
	1845	5.70	8.13	9.05	8.56	7.78	6.84	6.21	6.15	6.27	6.24	6.24
	1846	4.99	7.68	9.06	9.13	8.34	7.18	6.49	6.71	6.84	6.76	6.42
Reduced Means	5.51	7.48	8.21	7.86	7.06	6.11	5.74	5.83	5.90	5.82	5.74	
MARCH.	1842	5.37	6.29	6.31	5.58	4.65	4.32	4.46	4.35	4.50	4.25	3.88
	1843	4.30	5.58	5.84	5.65	5.17	4.60	4.48	4.50	4.48	4.49	4.31
	1844	5.38	6.63	7.21	6.93	6.30	5.71	5.41	5.49	5.71	5.76	5.61
	1845	5.76	6.90	7.29	7.11	6.39	5.40	5.07	5.02	5.22	5.39	5.34
	1846	5.88	8.32	9.78	9.36	8.34	7.37	7.17	7.29	7.21	7.08	7.25
Reduced Means	5.32	6.72	7.27	6.91	6.15	5.46	5.30	5.31	5.40	5.37	5.26	
APRIL.	1841 ^a	2.81	—	3.98	—	3.32	—	2.67	—	2.73	—	2.49
	1842	3.51	3.96	3.41	2.87	2.33	2.27	2.16	2.33	2.36	2.36	2.18
	1843 ^b	—	—	—	—	—	—	—	—	—	—	—
	1844	3.64	4.63	4.23	3.84	3.51	3.11	2.93	2.78	3.02	3.20	3.23
	1845	4.55	5.55	5.39	4.68	4.06	4.02	3.86	3.94	3.97	3.89	3.99
1846	4.57	5.86	6.00	5.45	5.10	4.71	4.72	4.53	4.40	4.35	4.65	
Reduced Means	4.07	5.00	4.76	4.21	3.75	3.53	3.42	3.39	3.44	3.45	3.51	
MAY.	1841 ^a	1.75	—	2.81	—	2.62	—	1.88	—	1.88	—	1.93
	1842	2.00	2.66	2.90	2.98	2.48	2.09	2.15	2.36	2.45	2.42	2.65
	1843	1.39	1.97	2.33	2.48	1.93	1.65	1.63	1.80	1.91	1.79	1.87
	1844	1.67	2.04	2.17	2.09	1.62	1.46	1.51	1.65	1.75	1.71	2.03
	1845	2.08	3.11	3.79	4.02	3.69	3.17	3.20	3.34	3.42	3.42	3.44
1846	2.03	2.68	2.85	3.04	2.76	2.36	2.38	2.40	2.14	2.14	2.24	
Reduced Means	1.83	2.49	2.81	2.92	2.50	2.15	2.17	2.31	2.33	2.30	2.45	
JUNE.	1841 ^a	0.77	—	1.49	—	1.17	—	0.64	—	0.91	—	0.98
	1842	0.74	1.33	1.74	1.76	1.31	0.94	0.96	1.00	0.78	1.04	1.28
	1843	1.34	2.09	2.62	2.52	2.00	1.76	1.82	2.02	2.13	2.19	2.42
	1844	0.44	1.20	2.03	2.02	1.50	1.29	1.37	1.40	1.49	1.64	1.70
	1845	0.70	1.04	1.69	1.87	1.37	1.01	1.06	1.19	1.39	1.48	1.61
1846	0.50	0.67	1.27	1.18	0.61	0.25	0.35	0.33	0.42	0.36	0.42	
Reduced Means	0.74	1.27	1.87	1.87	1.36	1.05	1.11	1.19	1.24	1.34	1.49	

^a Not included in the means.



Diurnal Variation of the Magnetic Declination in the several Months of the Year, derived from the hourly Observations from October 1841 to June 1846 inclusive
Scale $\frac{1}{2}$ an inch to 1' of Declination North end of the Magnet moving towards the East towards the West



DIURNAL VARIATION OF THE DECLINATION.

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TABLE VI.

Diurnal Variation of the Declination in the several Months, from April 1841 to June 1846.

Westerly position of the North end of the Magnet. The hours are those of Mean Solar Time, astronomical reckoning.

11 ^h 34 ^m	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m
3.56	3.50	3.41	3.24	2.91	2.71	2.42	1.70	0.89	0.00	0.06	1.13	2.79
3.11	2.96	2.77	2.51	2.17	1.91	1.46	0.68	0.15	0.00	1.07	2.24	2.93
4.11	3.98	3.82	3.49	3.31	3.17	2.69	2.26	1.48	0.59	0.00	0.88	2.65
4.59	4.31	4.09	3.91	3.90	3.65	3.47	3.36	2.54	1.28	0.00	0.30	1.97
5.30	5.16	4.88	4.66	4.29	4.02	3.32	2.07	0.67	0.00	0.69	2.38	4.31
3.77	3.62	3.43	3.20	2.96	2.73	2.31	1.65	0.79	0.01	0.00	1.03	2.57
4.53	4.71	4.87	4.31	4.21	4.12	3.76	3.08	1.76	0.32	0.00	1.73	3.48
4.99	5.00	5.01	4.80	4.61	4.48	4.23	3.61	2.15	0.54	0.00	1.10	3.13
6.69	6.96	6.84	6.76	6.60	6.51	6.45	6.21	4.52	1.91	0.00	0.41	3.05
6.16	6.21	5.97	5.87	5.81	5.66	5.66	5.38	3.90	1.63	0.00	0.71	3.16
6.06	6.03	5.97	6.00	6.26	6.12	6.26	6.20	4.48	1.91	0.00	0.15	1.99
5.69	5.78	5.73	5.55	5.50	5.38	5.27	4.90	3.36	1.26	0.00	0.82	2.96
4.26	4.30	4.61	4.68	4.60	4.44	4.18	3.47	1.52	0.00	0.10	1.89	3.98
4.38	4.34	4.54	4.51	4.36	4.41	4.30	3.96	2.87	1.07	0.00	0.73	2.65
5.74	5.67	5.74	5.92	5.81	5.78	5.81	5.47	3.65	1.07	0.00	1.47	3.63
5.54	5.31	5.43	5.63	5.68	5.76	5.48	5.00	3.22	1.02	0.00	1.52	3.84
7.07	7.09	7.30	7.20	7.24	7.21	7.16	6.83	4.83	2.04	0.00	0.68	3.08
5.38	5.32	5.50	5.57	5.52	5.50	5.37	4.93	3.20	1.02	0.00	1.24	3.42
—	2.90	—	3.21	—	3.63	—	3.15	—	0.00	—	0.12	—
2.30	2.49	2.87	2.95	3.17	3.28	3.50	3.37	2.79	1.37	0.00	0.29	1.79
—	—	—	—	—	—	—	—	—	—	—	—	—
3.44	3.24	3.99	3.90	4.08	4.21	4.37	4.14	3.02	1.19	0.00	0.44	1.91
4.06	3.81	4.02	4.08	3.90	3.96	4.08	3.89	3.00	1.09	0.00	0.56	2.43
4.45	4.56	5.03	4.90	5.13	5.22	5.31	5.21	4.36	1.62	0.00	0.29	2.09
3.56	3.53	3.98	3.96	4.07	4.17	4.32	4.15	3.29	1.32	0.00	0.39	2.06
—	2.38	—	3.11	—	3.47	—	3.74	—	2.49	—	0.00	—
2.72	2.79	2.93	2.94	3.09	3.11	3.17	3.59	3.77	2.25	0.68	0.00	0.69
1.84	2.61	2.80	2.81	3.11	3.15	3.17	3.57	3.88	2.48	0.79	0.00	0.42
2.06	2.12	2.36	2.47	2.81	2.88	3.08	3.23	3.26	1.91	0.54	0.00	0.49
3.33	3.31	3.38	3.39	3.47	3.48	3.71	4.15	4.27	2.48	0.71	0.00	0.74
2.09	2.38	2.66	2.75	3.03	3.59	3.68	4.46	4.35	2.43	0.68	0.00	0.77
2.41	2.64	2.83	2.87	3.10	3.24	3.36	3.80	3.91	2.31	0.68	0.00	0.62
—	1.48	—	1.80	—	2.10	—	2.31	—	2.28	—	0.00	—
1.43	1.52	1.70	1.91	1.97	1.86	1.93	2.35	2.96	2.24	0.78	0.00	0.06
2.52	2.69	2.86	3.09	3.29	3.21	3.26	3.51	3.82	2.50	0.92	0.00	0.30
1.95	1.88	2.16	2.26	2.36	2.30	2.43	2.75	3.24	2.46	0.96	0.00	0.02
1.49	1.58	1.69	1.69	1.78	1.84	1.94	2.35	3.28	2.61	1.01	0.00	0.08
0.76	1.04	1.58	1.25	1.73	1.90	1.83	1.97	2.76	2.09	0.65	0.00	0.02
1.63	1.74	2.00	2.04	2.25	2.22	2.28	2.59	3.21	2.38	0.86	0.00	0.10

^b The observations were suspended during the month of April 1843, and the instruments readjusted.

d

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

Local Time.	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	
JULY.	1841 ^a	0·71	—	2·02	—	1·76	—	1·19	—	1·41	—	1·57
	1842	0·42	0·60	1·11	1·22	0·59	0·23	0·13	0·11	0·35	0·43	0·49
	1843	0·80	1·58	2·10	2·09	1·72	1·43	1·37	1·31	1·46	1·40	1·58
	1844	0·68	1·39	2·26	2·50	2·07	1·46	1·58	1·70	1·62	1·93	2·13
	1845	0·50	1·14	2·35	2·54	1·76	1·12	1·16	1·25	1·31	1·49	1·63
Reduced Means	0·58	1·16	1·94	2·07	1·52	1·04	1·04	1·07	1·17	1·29	1·44	
AUGUST.	1841 ^a	0·47	—	2·00	—	2·18	—	1·61	—	1·58	—	1·65
	1842	0·63	1·52	2·66	3·19	2·90	2·17	2·32	2·29	2·56	2·56	2·51
	1843	0·60	1·51	2·09	2·66	2·39	1·97	2·10	2·18	2·27	2·52	2·63
	1844	0·62	1·84	2·99	3·81	3·42	2·66	2·64	2·77	2·63	2·78	2·68
	1845	0·64	1·22	2·24	3·24	3·01	2·09	2·00	2·13	2·38	2·39	2·12
Reduced Means	0·62	1·52	2·50	3·23	2·93	2·22	2·27	2·34	2·46	2·56	2·49	
SEPTEMBER.	1841 ^a	1·34	—	3·47	—	2·62	—	2·37	—	2·26	—	2·26
	1842	1·58	3·07	4·13	4·50	4·00	3·55	3·50	3·65	3·53	3·62	3·58
	1843	1·23	1·95	2·04	1·76	1·50	1·37	1·58	1·65	1·83	1·80	1·85
	1844	1·88	2·80	3·33	3·46	3·13	2·71	2·81	2·91	2·84	2·88	3·11
	1845	1·64	2·72	3·37	3·37	3·14	2·66	2·65	2·69	2·79	2·72	2·74
Reduced Means	1·58	2·64	3·22	3·27	2·94	2·57	2·64	2·73	2·75	2·76	2·82	
OCTOBER.	1841 ^a	4·20	5·13	5·36	4·61	3·81	3·13	2·83	3·02	2·74	3·18	3·25
	1842	4·93	5·82	6·00	5·36	4·51	3·78	4·03	4·18	4·41	4·26	4·38
	1843	4·29	4·99	5·14	4·67	3·94	3·50	3·66	3·93	4·08	4·12	4·05
	1844	4·75	5·65	5·65	4·74	3·59	3·21	3·53	3·74	3·77	3·80	3·99
	1845	6·33	7·46	7·66	6·79	5·59	4·85	5·16	5·39	5·46	5·50	5·25
Reduced Means	4·90	5·81	5·96	5·23	4·29	3·69	3·84	4·05	4·09	4·17	4·18	
NOVEMBER.	1841 ^a	5·13	5·90	6·24	5·59	4·81	4·26	4·31	4·47	4·29	4·50	4·23
	1842	5·49	6·50	6·61	6·12	5·77	5·46	5·59	5·88	5·96	6·01	5·86
	1843	4·21	5·34	5·79	5·79	5·34	4·85	4·81	4·90	5·02	5·03	5·11
	1844	5·31	6·38	6·41	6·01	5·30	4·95	4·95	4·88	5·00	5·07	5·22
	1845	5·82	6·63	6·76	6·41	5·94	5·38	5·76	6·17	6·34	6·35	6·41
Reduced Means	5·19	6·15	6·36	5·98	5·43	4·98	5·08	5·26	5·32	5·39	5·37	
DECEMBER.	1841 ^a	4·27	5·43	5·40	5·35	4·24	4·23	3·80	4·08	3·99	3·96	4·02
	1842	4·01	4·76	4·86	4·26	3·91	4·14	4·01	3·95	4·13	4·10	4·23
	1843	3·26	4·12	4·39	4·17	3·90	3·89	3·65	3·74	3·84	4·07	3·97
	1844	5·62	6·15	5·71	4·95	4·34	4·25	4·41	4·74	4·85	5·01	5·19
	1845	6·06	6·93	7·18	6·66	5·97	5·53	5·33	5·59	5·87	5·87	5·88
Reduced Means	4·60	5·44	5·47	5·04	4·43	4·37	4·20	4·38	4·50	4·56	4·62	

* Not included in the means.

DIURNAL VARIATION OF THE DECLINATION.

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Months from April 1841, to June 1846—continued.

11 ^h 34 ^m	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m
—	2.03	—	2.22	—	2.81	—	2.93	—	2.70	—	0.00	—
0.98	1.43	1.87	1.63	1.90	2.00	2.14	3.08	2.92	2.09	1.23	0.42	0.00
1.96	2.36	2.51	2.81	2.88	3.12	3.21	3.35	3.62	2.68	0.98	0.00	0.08
2.21	2.43	2.51	2.60	2.63	2.73	2.81	3.17	3.89	2.99	1.51	0.32	0.00
1.79	1.88	1.99	1.89	1.85	2.00	2.27	2.72	3.81	3.20	1.68	0.37	0.00
1.72	2.01	2.20	2.21	2.30	2.44	2.59	3.06	3.54	2.72	1.33	0.26	0.00
—	1.73	—	2.39	—	2.76	—	3.46	—	3.30	—	0.00	—
2.55	2.86	3.04	3.30	3.44	3.46	3.95	4.41	4.90	3.65	1.59	0.27	0.00
2.80	2.83	3.05	2.93	3.26	3.41	3.55	4.32	5.03	3.68	1.82	0.38	0.00
2.90	3.04	3.15	3.38	3.68	3.83	3.87	4.70	5.38	3.81	1.82	0.44	0.00
2.30	2.36	2.41	2.41	2.89	3.09	3.16	3.95	4.61	3.45	1.73	0.34	0.00
2.64	2.77	2.91	3.01	3.32	3.45	3.63	4.35	4.98	3.65	1.74	0.36	0.00
—	2.85	—	3.07	—	3.31	—	4.11	—	1.70	—	0.00	—
3.47	3.59	3.94	3.99	4.12	4.17	4.29	5.49	5.21	3.42	1.40	0.00	0.35
1.90	2.00	2.07	1.99	2.21	2.00	2.10	2.60	2.66	1.41	0.14	0.00	0.41
3.14	3.26	3.24	3.33	3.48	3.49	3.73	4.77	4.32	2.51	0.88	0.00	0.61
2.86	2.78	2.96	2.94	2.96	3.20	3.32	4.46	4.22	2.38	0.92	0.00	0.60
2.84	2.91	3.05	3.06	3.19	3.22	3.36	4.33	4.10	2.43	0.84	0.00	0.49
3.17	3.51	3.54	3.46	2.91	2.82	2.40	1.94	0.85	0.20	0.00	0.93	2.53
4.41	4.39	4.31	4.15	3.90	3.73	3.56	2.96	1.61	0.25	0.00	1.22	3.18
4.21	4.00	4.08	3.87	3.82	3.62	3.38	2.82	1.22	0.02	0.00	1.19	2.99
3.96	3.99	3.90	3.62	3.59	3.38	3.20	2.58	1.51	0.16	0.00	1.29	3.05
5.04	4.92	4.92	4.72	4.72	4.62	4.44	3.60	1.66	0.07	0.00	1.70	4.13
4.16	4.16	4.15	3.96	3.79	3.63	3.40	2.78	1.37	0.14	0.00	1.27	3.18
4.50	4.38	4.46	3.99	3.45	3.12	2.44	1.23	0.26	0.00	0.54	2.15	3.70
5.84	5.82	5.52	5.30	5.13	4.65	3.79	2.34	0.74	0.00	0.68	2.23	4.05
5.05	5.04	4.76	4.65	4.31	4.01	3.41	2.26	0.85	0.00	0.32	1.71	3.18
5.24	5.18	4.92	4.63	4.50	4.16	3.37	2.11	0.80	0.00	0.47	1.96	3.83
6.24	6.27	6.01	5.64	5.34	4.79	4.04	2.32	0.75	0.00	0.83	2.90	4.62
5.37	5.34	5.13	4.84	4.55	4.15	3.41	2.05	0.68	0.00	0.57	2.19	3.88
4.08	4.41	3.81	3.32	2.96	2.63	2.05	1.16	0.44	0.00	0.13	1.43	2.83
4.11	3.99	3.73	3.38	3.05	2.76	2.08	0.86	0.00	0.20	1.11	2.43	3.20
4.08	3.87	3.52	3.35	2.96	2.68	2.12	1.23	0.39	0.00	0.32	1.29	2.57
5.22	4.95	4.92	4.78	4.36	3.85	2.90	1.41	0.33	0.00	0.62	2.46	4.42
5.85	5.87	5.82	5.54	5.37	4.96	4.00	2.45	0.79	0.00	0.59	2.66	4.77
4.63	4.58	4.32	4.03	3.70	3.34	2.59	1.38	0.35	0.00	0.51	2.01	3.52

TABLE VII.

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

Mean Time, Cape } of Good Hope. }	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	11 ^h 34 ^m
January . . .	3·75	5·07	5·14	4·68	4·28	3·93	3·60	3·80	4·07	4·00	3·91	3·77
February . . .	5·51	7·48	8·21	7·86	7·06	6·11	5·74	5·83	5·90	5·82	5·74	5·69
March . . .	5·32	6·72	7·27	6·91	6·15	5·46	5·30	5·31	5·40	5·37	5·26	5·38
April . . .	4·07	5·00	4·76	4·21	3·75	3·53	3·42	3·39	3·44	3·45	3·51	3·56
May . . .	1·83	2·49	2·81	2·92	2·50	2·15	2·17	2·31	2·33	2·30	2·45	2·41
June . . .	0·74	1·27	1·87	1·87	1·36	1·05	1·11	1·19	1·24	1·34	1·49	1·63
July . . .	0·58	1·16	1·94	2·07	1·52	1·04	1·04	1·07	1·17	1·29	1·44	1·72
August . . .	0·62	1·52	2·50	3·23	2·93	2·22	2·27	2·34	2·46	2·56	2·49	2·64
September . . .	1·58	2·64	3·22	3·27	2·94	2·57	2·64	2·73	2·75	2·76	2·82	2·84
October . . .	4·90	5·81	5·96	5·23	4·29	3·69	3·84	4·05	4·09	4·17	4·18	4·16
November . . .	5·19	6·15	6·36	5·98	5·43	4·98	5·08	5·26	5·32	5·39	5·37	5·37
December . . .	4·60	5·44	5·47	5·04	4·43	4·37	4·20	4·38	4·50	4·56	4·62	4·63

Mean Time, Cape } of Good Hope. }	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m
January . . .	3·62	3·43	3·20	2·96	2·73	2·31	1·65	0·79	0·01	0·00	1·03	2·57
February . . .	5·78	5·73	5·55	5·50	5·38	5·27	4·90	3·36	1·26	0·00	0·82	2·96
March . . .	5·32	5·50	5·57	5·52	5·50	5·37	4·93	3·20	1·02	0·00	1·24	3·42
April . . .	3·53	3·98	3·96	4·07	4·17	4·32	4·15	3·29	1·32	0·00	0·39	2·06
May . . .	2·64	2·83	2·87	3·10	3·24	3·36	3·80	3·91	2·31	0·68	0·00	0·62
June . . .	1·74	2·00	2·04	2·25	2·22	2·28	2·59	3·21	2·38	0·86	0·00	0·10
July . . .	2·01	2·20	2·21	2·30	2·44	2·59	3·06	3·54	2·72	1·33	0·26	0·00
August . . .	2·77	2·91	3·01	3·32	3·45	3·63	4·35	4·98	3·65	1·74	0·36	0·00
September . . .	2·91	3·05	3·06	3·19	3·22	3·36	4·33	4·10	2·43	0·84	0·00	0·49
October . . .	4·16	4·15	3·96	3·79	3·63	3·40	2·78	1·37	0·14	0·00	1·27	3·18
November . . .	5·34	5·13	4·84	4·55	4·15	3·41	2·05	0·68	0·00	0·57	2·19	3·88
December . . .	4·58	4·32	4·03	3·70	3·34	2·59	1·38	0·35	0·00	0·51	2·01	3·52

TABLE VIII.

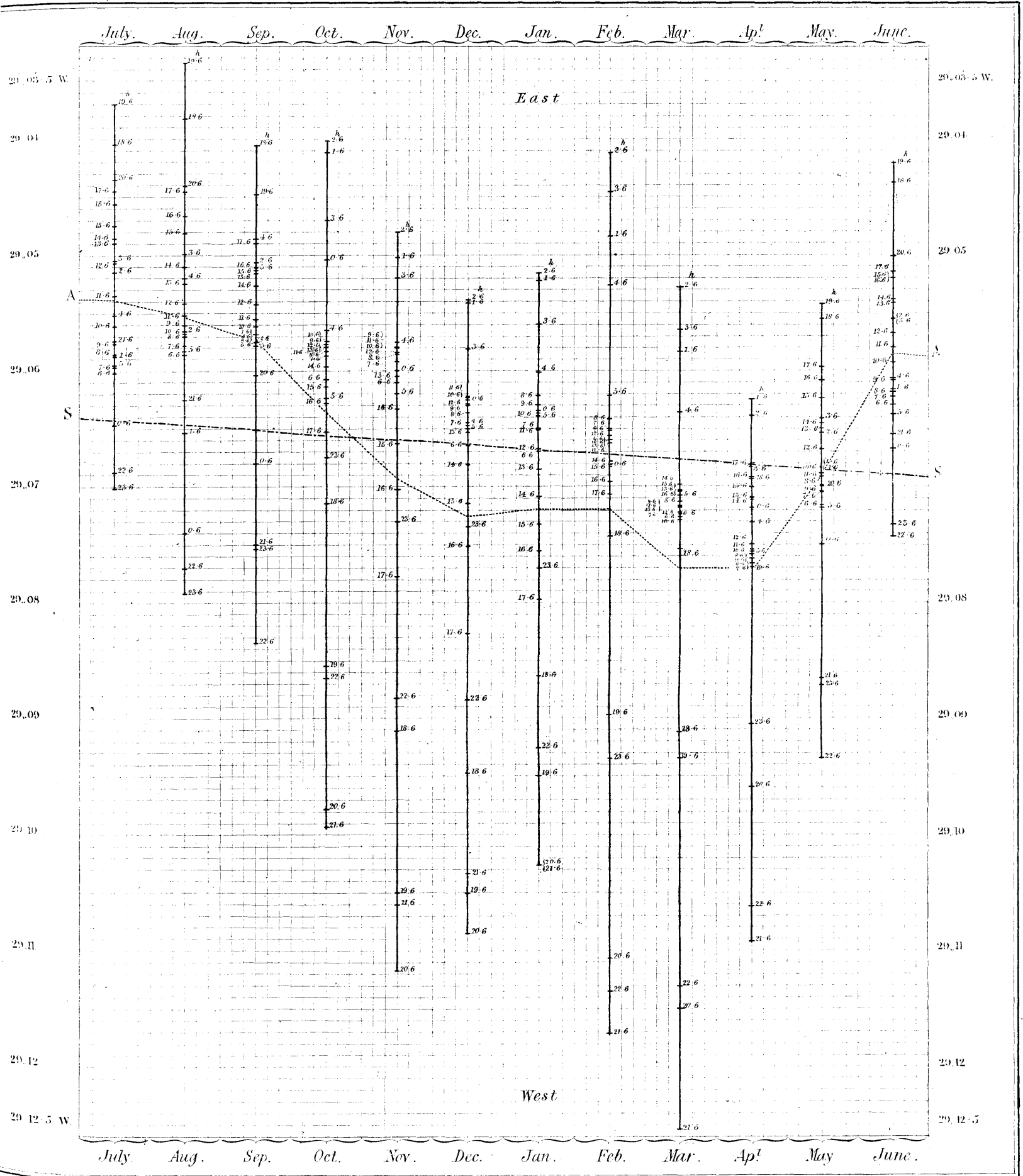
Exhibits the Mean Hourly Position of the Magnet in each Month of the Year, relatively to its general Mean Position in the Month; the sign + implies, that the North end of the Magnet is to the East, and - to the West, of the Mean Position of the Month.

Mean Time, Cape of Good Hope	0h 34 ^m	1h 34 ^m	2h 34 ^m	3h 34 ^m	4h 34 ^m	5h 34 ^m	6h 34 ^m	7h 34 ^m	8h 34 ^m	9h 34 ^m	10h 34 ^m	11h 34 ^m
January . .	+0.65	+1.97	+2.04	+1.58	+1.18	+0.83	+0.50	+0.70	+0.97	+0.90	+0.81	+0.67
February . .	+0.37	+2.34	+3.07	+2.72	+1.92	+0.97	+0.60	+0.69	+0.76	+0.68	+0.60	+0.55
March . .	+0.47	+1.87	+2.42	+2.06	+1.30	+0.61	+0.45	+0.46	+0.55	+0.52	+0.41	+0.53
April . .	+0.69	+1.62	+1.38	+0.83	+0.37	+0.15	+0.04	+0.01	+0.06	+0.07	+0.13	+0.18
May . .	-0.58	+0.08	+0.40	+0.51	+0.09	-0.26	-0.24	-0.10	-0.08	-0.11	+0.04	0.00
June . .	-0.84	-0.31	+0.29	+0.29	-0.22	-0.53	-0.47	-0.39	-0.34	-0.24	-0.09	+0.05
July . .	-1.12	-0.54	+0.24	+0.37	-0.18	-0.66	-0.66	-0.63	-0.53	-0.41	-0.26	+0.02
August . .	-1.96	-1.06	-0.08	+0.65	+0.35	-0.36	-0.31	-0.24	-0.12	-0.02	-0.09	+0.06
September . .	-1.08	-0.02	+0.56	+0.61	+0.28	-0.09	-0.02	+0.07	+0.09	+0.10	+0.16	+0.18
October . .	+1.31	+2.22	+2.37	+1.64	+0.70	+0.10	+0.25	+0.46	+0.50	+0.58	+0.59	+0.57
November . .	+0.90	+1.86	+2.07	+1.69	+1.14	+0.69	+0.79	+0.97	+1.03	+1.10	+1.08	+1.08
December . .	+0.99	+1.83	+1.86	+1.43	+0.82	+0.76	+0.59	+0.77	+0.89	+0.95	+1.01	+1.02

Mean Time, Cape of Good Hope	12h 34 ^m	13h 34 ^m	14h 34 ^m	15h 34 ^m	16h 34 ^m	17h 34 ^m	18h 34 ^m	19h 34 ^m	20h 34 ^m	21h 34 ^m	22h 34 ^m	23h 34 ^m
January . .	+0.52	+0.33	+0.10	-0.14	-0.37	-0.79	-1.45	-2.31	-3.09	-3.10	-2.07	-0.53
February . .	+0.64	+0.59	+0.41	+0.36	+0.24	+0.13	-0.24	-1.78	-3.88	-5.14	-4.32	-2.18
March . .	+0.47	+0.65	+0.72	+0.67	+0.65	+0.52	+0.08	-1.65	-3.83	-4.85	-3.61	-1.43
April . .	+0.15	+0.60	+0.58	+0.69	+0.79	+0.94	+0.77	-0.09	-2.06	-3.38	-2.99	-1.32
May . .	+0.23	+0.42	+0.46	+0.69	+0.83	+0.95	+1.39	+1.50	-0.10	-1.73	-2.41	-1.79
June . .	+0.16	+0.42	+0.46	+0.67	+0.64	+0.70	+1.01	+1.63	+0.80	-0.72	-1.58	-1.48
July . .	+0.31	+0.50	+0.51	+0.60	+0.74	+0.89	+1.36	+1.84	+1.02	-0.37	-1.44	-1.70
August . .	+0.19	+0.33	+0.43	+0.74	+0.87	+1.05	+1.77	+2.40	+1.07	-0.84	-2.22	-2.58
September . .	+0.25	+0.39	+0.40	+0.53	+0.56	+0.70	+1.67	+1.44	-0.23	-1.82	-2.66	-2.17
October . .	+0.57	+0.56	+0.37	+0.20	+0.04	-0.19	-0.81	-2.22	-3.45	-3.59	-2.32	-0.41
November . .	+1.05	+0.84	+0.55	+0.26	-0.14	-0.88	-2.24	-3.61	-4.29	-3.72	-2.10	-0.41
December . .	+0.97	+0.71	+0.42	+0.09	-0.27	-1.02	-2.23	-3.26	-3.61	-3.10	-1.60	-0.09

Additional Remarks on the Diurnal Variation of the Declination.—In Plate III. the Diurnal Variation is shown for every month arranged with reference to horizontal lines, representing in each case the mean declination for the particular month. In this plate the horizontal lines have no particular declination value assigned to them, the object of the plate being to facilitate the study of the Diurnal Variation, by exhibiting it with less complication than if each of the mean lines were placed according to its declination value. In Plate IV. the same phenomena of the Diurnal Variation are represented according to a different arrangement, in which the range of the diurnal variation in each month is projected in vertical lines, each occupying its own proper place in declination value. The scale is, as in Plates I. and II., an inch to one minute of arc. The line S S, passing through the mean declination of the year ($29^{\circ} 06' 64''$ W.) at the mean epoch of the year (Jan. 1, 1844), represents the annual secular change, amounting to an increase of $0' 49''$ of West declination. The faintly dotted line A A connects those declination values in each month which correspond to the mean declination obtained from all the observations in that month only; this line is therefore the *mean annual variation*, and is seen to be below, or to the west of, the mean declination in the year, from the latter end of October to late in May, and above, or to the east of, the mean declination during the remainder of the year. By comparing the ranges shown by the dark vertical lines, we perceive that the diurnal range is greater in all the months in which the sun is in the southern signs, than in those in which he is in the northern signs; that June and July are the months of smallest, and that February and March are the months of greatest diurnal range. The mean declination corresponding to each of the observation hours in each month, is indicated by short lines crossing the respective verticals, and having the hours to which they refer marked against them; those of the day being on the right, and those of the night on the left of the vertical line. The observation hours at the Cape being determined by Göttingen time were each 34 minutes after the exact hours of local time, and for convenience, the approximately equivalent decimal $\cdot 6$ has been substituted in this plate for 34 minutes. It will be at once seen that a line drawn through the cross lines which are marked with the same hour in the different monthly verticals in Plate IV., would describe the *annual* variation corresponding to that hour; and that in a similar manner a line drawn through the cross lines in Plate II. which indicate the same *month* in the *hourly* verticals, would describe the *diurnal* variation corresponding to that month; both annual and diurnal variations being, in each case, represented according to their true declination value. These lines have not been drawn on the plates on account of the confused aspect which their multiplicity would have occasioned, and which would have much obscured the instruction to be derived, by those persons at least who have not studied the phenomena with great assiduity; whilst those who wish to enter deeply into the subject will find an advantage in tracing the lines for themselves either in imagination or with a pencil.

Shewing the Mean Declination at every Observation hour in each month of a Mean Year, derived from five years of Observation, commencing July 2nd 1841, and ending July 1st 1846:



Equations to Monthly Mean Values for the different Observation Hours.—From Table IV. we may obtain, by direct intercomparison of the values contained in it, a table of Equations (Table IX.) to be applied in each month of the year to the mean of observations taken at the Cape of Good Hope at any one of the observation hours in that month. By means of this table the mean declination, as it would have been obtained (according to the results of five years of observation) by twenty-four observations at equal intervals in each day, may be assigned from the mean of the observations taken only at a single hour. When the detachment of the Royal Artillery was withdrawn from the Cape Observatory in July, 1846, and replaced by a single observer, the number of observation hours in each day was reduced to five. By the aid of Table IX. each of the reduced number of observation hours will afford a mean result for the declination in each month, and the mean of these five results will furnish a conclusion, which possibly may be little inferior in value to what would actually have been obtained, had the original laborious routine of observation which supplied the materials for the table of equations been persevered in subsequently.

TABLE IX.

Equations for each Month, to be applied to the Mean of the Observations at any of the Observation Hours, in order to give the corresponding Declination which would have been derived in that Month from the Mean of Observations at all the Observation Hours.

Cape Time, Astronomical Reckoning. — Observation Hours.	July.	August.	September	October.	November	December	January.	February.	March.	April.	May.	June.
12 34	+0.30	+0.11	+0.28	+0.58	+1.08	+0.96	+0.51	+0.63	+0.48	+0.20	+0.23	+0.17
13 34	+0.48	+0.29	+0.56	+0.57	+0.87	+0.72	+0.33	+0.59	+0.66	+0.60	+0.41	+0.43
14 34	+0.51	+0.43	+0.45	+0.38	+0.58	+0.43	+0.10	+0.40	+0.72	+0.58	+0.45	+0.46
15 34	+0.63	+0.72	+0.58	+0.21	+0.29	+0.09	-0.15	+0.35	+0.67	+0.69	+0.68	+0.65
16 34	+0.81	+0.86	+0.61	+0.06	-0.12	-0.27	-0.37	+0.23	+0.65	+0.77	+0.83	+0.65
17 34	+0.93	+1.07	+0.82	-0.18	-0.85	-1.02	-0.79	+0.12	+0.52	+0.89	+0.94	+0.71
18 34	+1.33	+1.71	+1.66	-0.80	-2.20	-2.23	-1.45	-0.25	+0.08	+0.76	+1.37	+1.46
19 34	+1.68	+2.20	+1.24	-2.21	-3.58	-3.26	-2.32	-1.79	-1.64	0.00	+1.48	+1.64
20 34	+1.01	+1.12	-0.32	-3.44	-4.25	-3.60	-3.09	-3.88	-3.80	-1.90	-0.09	+0.83
21 34	-0.37	-0.73	-1.78	-3.58	-3.69	-3.09	-3.10	-4.54	-4.84	-3.23	-1.74	-0.71
22 34	-1.51	-2.17	-2.62	-2.31	-1.92	-1.59	-2.08	-4.18	-3.61	-2.93	-2.43	-1.58
23 34	-1.64	-2.39	-1.82	-0.40	-0.39	-0.09	-0.53	-2.18	-1.42	-1.36	-1.80	-1.48
0 34	-1.10	-1.87	-1.08	+1.31	+0.92	+0.99	+0.84	+0.36	+0.47	+0.51	-0.59	-0.83
1 34	-0.51	-1.00	-0.03	+2.23	+1.89	+1.83	+1.96	+2.34	+1.87	+1.44	+0.08	-0.31
2 34	+0.24	-0.12	+0.65	+2.33	+2.11	+1.86	+2.03	+3.06	+2.42	+1.31	+0.38	+0.29
3 34	+0.33	+0.54	+0.61	+1.65	+1.72	+1.43	+1.58	+2.72	+2.06	+0.87	+0.50	+0.29
4 34	-0.15	+0.33	+0.86	+0.70	+1.17	+0.81	+1.17	+1.92	+1.35	+0.39	+0.08	-0.22
5 34	-0.58	-0.30	-0.06	+0.11	+0.72	+0.75	+0.82	+0.97	+0.63	+0.13	-0.27	-0.53
6 34	-0.64	-0.32	-0.03	+0.26	+0.82	+0.60	+0.49	+0.59	+0.44	+0.03	-0.25	-0.45
7 34	-0.59	-0.26	+0.03	+0.47	+1.00	+0.78	+0.69	+0.68	+0.46	+0.03	-0.13	-0.38
8 34	-0.49	-0.17	+0.03	+0.51	+1.06	+0.89	+0.96	+0.76	+0.56	+0.07	-0.09	-0.33
9 34	-0.38	-0.08	+0.03	+0.59	+1.13	+0.95	+0.89	+0.67	+0.53	+0.07	-0.12	-0.23
10 34	-0.24	-0.13	+0.09	+0.60	+1.11	+1.01	+0.80	+0.59	+0.41	+0.12	+0.02	-0.09
11 34	+0.03	0.00	+0.16	+0.56	+1.12	+1.02	+0.67	+0.54	+0.53	+0.15	-0.01	+0.05

HORIZONTAL FORCE.

In Absolute Measure.—In July, 1843, a Unifilar Magnetometer, with solid cylindrical magnets of 3-10ths of an inch diameter, the deflecting magnet being 3·67 inches, and the suspended magnet 3 inches in length, were taken into use at the Cape of Good Hope, for the determination of the Horizontal Force in absolute measure. From July 1843, to July 1844, these determinations were made quarterly, and from February 1845, to June of the same year, monthly; the particulars are recorded in pages 440 and 441 of this volume. In November 1846, after the transfer of the Observatory from the Ordnance to the Admiralty, a weekly series was commenced with the same apparatus and magnets by Mr. Smalley, and was continued without interruption from that date, to January 1849, inclusive. It appears to have been then discontinued for six months, but was again resumed in July, 1849, and continued until February 1850, inclusive. The moment of inertia (K) of the deflecting magnet (No. V.) was examined by Captain Clerk, R.A., in July, 1843, by observing the time of vibration with and without cylindrical weights, according to the method proposed by Professor Weber. It has been since examined by Mr. Smalley in April 1849, by observing the time of vibration with and without metal rings, according to the method proposed by Dr. Lamont. The value of the factor $\pi^2 K$, derived from Captain Clerk's experiments, is 37·365, and from those of Mr. Smalley, 38·731; the particulars of Captain Clerk's experiments are as follows:—

Observations to determine K, the moment of inertia of Magnet V., July, 1843.

By CAPTAIN HENRY CLERK, Royal Artillery.

Dates.	Times of Vibration.		Values of K.	Remarks.
	Without Weights.	With Weights.		
July 3, 1843	Sec. 4·1035	Sec. 7·6083	3·7844	The weights were two accurately-turned brass cylinders ·3 of an inch in diameter, and 1·5 inches in length, connected by a fine thread and hung from the ends of the magnet. The weight of each of the two cylinders was 204·3 grains. The times of vibration with and without the weights are reduced to the same temperature, and corrected for variations in the terrestrial force.
July 17 ,,	4·1149	7·6274	3·7873	

The mean result of the two methods of experiments is 38·048, which is perhaps the best approximation we can at present make to the true value of the factor.

Mr. Maclear has recently been supplied with a new unifilar, improved in many respects, and with stronger magnets though of the same dimensions as before, and he will probably return No. V. to Woolwich, when steps will be taken for a more certain determination of its moment of inertia, and for investigating the influence of the change in its magnetic moment produced by the earth's inducing action.

The deflections in Mr. Smalley's determinations of the horizontal force having always been made at the two distances of 1·2 and 1·3 feet, have furnished far more extensive data for a calculation of the coefficient P than were available when the resulting values of X in pages 440 and 441 were computed. Captain Younghusband has made this calculation, and finds $P = - \cdot 004313$. With this value of P, and with $\pi^2 K = 38\cdot048$ (the mean between the experiments of Captain Clerk and Mr. Smalley), the values of X in the observations of 1843, 1844, and 1845, of which the particulars are given in pages 440 and 441, have been re-computed as follows:—

1843 July . . .	4·5175	1845 February . . .	4·5220
October . . .	4·5405	March . . .	4·5151
1844 January . . .	4·4902	April . . .	4·5093
April . . .	4·4815	May . . .	4·5187
July . . .	4·4873	June . . .	4·5136

The discussion of the absolute value of the horizontal force will be resumed in the sequel, when the continuation of the observations with the same apparatus by Mr. Smalley will come under consideration.

Bifilar Magnetometer.—The bifilar magnetometer was of the construction described in pages 24 and 25 of the Report of the Royal Society, having a collimating scale and lens attached to the magnet. The adjustments were made on all occasions conformably to the instructions contained in that report. The magnetometer and telescope were fixed on their respective pedestals in March, 1841, and have not since been displaced. The magnetometer was adjusted at the end of March, but frequent re-adjustments were required in the months of April and May, in consequence, it was believed, of the stretching of the suspension wire. The record in this volume commences in June, fresh adjustments having taken place between the 1st and 4th of July, 1st and 4th of August, 1st and 11th of September, and between the 1st and 3rd of October, 1841. Commencing with October, 1841, the observations, which had been two-hourly, were made hourly, and no new adjustment of the instrument took place from that time to April, 1843, when the bar was removed for the determination of its temperature coefficient, in accordance with the revised instructions of the Royal Society, recommending that the regular observations should be suspended during the month of April, 1843, for the purpose of determining the temperature coefficients and other constants. The magnet having been replaced, and the instrument readjusted with a rectangular external casing in addition to the cylindrical one in which it had previously been enclosed, the regular series was resumed in May 1843, with the same bar (R) 15 inches in length, and continued, with a re-adjustment in November, 1843, until October 1844, when a new magnet (C 2) of 12 inches in length, was substituted, and remained in use to the close of the series in June, 1846.

The values of the scale coefficient, ascertained in the customary manner ($k = a \cot v$,

α being in this case = $\cdot 0003153$) were as follows for the periods included between the several adjustments, *viz.* :—

R.	{	From June 4th to July 1st, 1841 . . . = $\cdot 000174$	} $\cdot 00018$
		From July 4th ,, August 1st, 1841 . . . = $\cdot 000182$	
		From August 4th ,, September 1st, 1841 . . . = $\cdot 000182$	
		From September 11th ,, October 1st, 1841 . . . = $\cdot 000180$	
		From October 3rd, 1841, to April, 1843 . . . = $\cdot 000180$	
		From May 1843, to October 31st, 1843 . . . = $\cdot 000180$	
		From November 1st, 1843, to September 1844 . . . = $\cdot 00035$	$\cdot 00035$
C 2.		From October 9th, 1844, to June 31st, 1846 . . . = $\cdot 000218$	$\cdot 00022$

Temperature Coefficients.—Experiments to determine the coefficient in the temperature correction for bar R were made at the Cape of Good Hope in 1841, 1843, 1844, and on two occasions in 1845. The results of the two first experiments were unsatisfactory, and as the later experiments furnish all that is required, we may confine our attention to them, beginning with those of 1844. The method employed was that of deflection, the bar being placed in a wooden trough at right angles to the suspended magnet, and the trough filled with warm and cold water alternately. The observations from which the coefficient (q) is derived consist, first, of the temperatures of the alternate warm and cold water; second, of the readings of the scale of the deflected magnet at the different temperatures; and, third, of the reading of the scale when the deflecting magnet was entirely removed.

Cape of Good Hope, October 7, 1844.

TEMPERATURES.			DECLINOMETER.	
Readings.	Differences.	Means.	Readings, Corrected.	Differences.
° 104·8	° —	° —	Sc. Div. 278·0	Sc. Div. —
55·1	49·7	80·0	264·2	13·8
101·0	45·9	78·0	276·5	12·3
59·7	41·3	80·3	266·2	10·3
100·4	40·7	80·1	277·8	11·6
60·4	40·0	80·4	267·4	10·4
Means .	43·52	79·8	—	11·68

The declinometer readings are corrected for the changes of declination which occurred during the progress of the experiment. The whole angle of deflection caused by the deflecting bar was found to be 856·3 scale divisions; the influence of the changes of horizontal force occurring during the experiment being inappreciable, the coefficient is

$$\text{at temperature } 79^{\circ}\cdot 8 = \frac{11\cdot 68}{43\cdot 52 \times 856\cdot 3} = \cdot 000314.$$

The abstract of the second experiment, which was made on June the 28th, 1845, is as follows:—

TEMPERATURES.			DECLINOMETER.	
Readings.	Differences.	Means.	Readings, Corrected.	Differences.
° 105·87	—	—	Sc. Div. 229·57	Sc. Div. —
55·83	50·04	80·85	211·13	18·44
103·50	47·67	79·66	224·34	13·21
53·40	50·10	78·45	204·49	19·85
102·00	48·60	77·70	219·45	14·96
54·53	47·47	78·26	204·01	15·44
Means .	48·78	78·98	—	16·38

The declinometer readings are corrected as in the preceding experiment, and the bifilar was observed for changes of horizontal force, for which no correction was found necessary. The whole angle of deflection was found, by the removal of the deflecting bar, to have been 1030·6 scale divisions, therefore

$$q \text{ at } 79^{\circ}\cdot 0 = \frac{16\cdot 38}{48\cdot 78 \times 1030\cdot 6} = \cdot 000326.$$

3rd Experiment, June 30th, 1845. Declinometer readings corrected as before, no correction necessary for changes of horizontal force:—

TEMPERATURES.			DECLINOMETER.	
Readings.	Differences.	Means.	Readings, Corrected.	Differences.
° 104·70	—	—	Sc. Div. 240·57	Sc. Div. —
52·80	51·90	78·75	223·47	17·10
103·53	50·73	78·16	239·49	16·02
52·87	50·67	78·20	222·86	16·63
103·40	50·53	78·13	239·00	16·14
53·67	49·73	78·53	223·23	15·77
Means	50·71	78·36	—	16·33

The whole angle of deflection was found, by the removal of the bar, to have been 1010·08 scale divisions, whence

$$q \text{ at } 78^{\circ}\cdot 4 = \frac{16\cdot 33}{50\cdot 71 \times 1010\cdot 08} = \cdot 000319.$$

The result of the preceding experiments gave the value of the coefficient at one part only of the temperature scale, viz., about 78° or 79°; it was deemed advisable,

therefore, on the return of the magnet to Woolwich, to examine whether other values might not be obtained at other parts of the thermometric scale, and the following experiments were accordingly made by Captain Younghusband, R.A.

In these as in the foregoing experiments, the magnet was placed in a wooden trough and subjected to alternations of temperature by means of warm and cold water. The suspended magnet was a small cylinder 2·45 inches in length, and the distance at which the deflecting magnet was placed was 24 inches from centre to centre. By this means the deflection obtained was upwards of 45°. The deflecting magnet was so placed as to be perpendicular to the suspended magnet after deflection. Corresponding observations were made by an auxiliary apparatus for the purpose of obtaining the changes of declination occurring during the course of the experiments; and corrections on account of these changes have been applied to the readings. The following abstract is so arranged as to show the data from which the coefficient was determined at two points of the thermometric scale, *viz.*, at 48° and at 77°:—

1st EXPERIMENT.—AUGUST 12, 1847.						2nd EXPERIMENT.—AUGUST 13, 1847.					
TEMPERATURES.			DECLINOMETER.			TEMPERATURE.			DECLINOMETER.		
Readings (Mean).	Differences.		Readings (Mean).	Differences.		Readings (Mean).	Differences.		Readings (Mean).	Differences.	
°	°	°	Sc. Div.	Sc. Div.	Sc. Div.	°	°	°	Sc. Div.	Sc. Div.	Sc. Div.
61·67	} 27·90		414·35	} 23·50		64·00	} 31·23		352·57	} 24·82	
33·77			390·85			32·77			327·75		
54·53	} 20·76	} 24·97	408·10	} 17·25	} 26·91	62·30	} 29·53	} 27·20	354·17	} 26·42	} 30·05
80·50			435·01			89·50			384·22		
66·03	} 33·16	} 14·47	420·53	} 29·43	} 14·48	64·93	} 32·16	} 24·57	360·02	} 29·55	} 24·20
32·87			391·10			32·77			330·47		
60·40	} 27·53	} 31·87	416·83	} 25·73	} 36·87	58·93	} 26·16	} 31·84	354·17	} 23·70	} 33·77
92·27			453·70			90·77			387·94		
67·10	} 19·67	} 25·17	427·45	} 20·13	} 26·25	65·90	} 33·30	} 24·87	363·23	} 31·80	} 24·71
47·43			407·32			32·60			331·43		
63·50	} 16·07	} 27·90	422·27	} 14·95	} 31·05	63·30	} 30·70	} 28·63	360·40	} 28·97	} 30·12
91·40			453·32			91·93			390·52		
70·97	} 20·43		431·42	} 21·90		63·13		} 28·80	360·04		} 30·48
Sums			145·09			144·81			—		

3rd EXPERIMENT.—AUGUST 13, 1847.					
TEMPERATURES.			DECLINOMETER.		
Readings (Mean.)	Differences.		Readings (Mean.)	Differences.	
°	°	°	Sc. Div.	Sc. Div.	Sc. Div.
63·13	} 30·43	}	360·04	} 29·50	}
32·70			330·54		
58·90	} 26·20	} 34·17	355·02	} 24·48	} 37·62
93·07			392·64		
65·27	} 32·74	} 27·80	364·75	} 31·03	} 27·89
32·53			333·72		
60·27	} 27·74	} 30·90	360·48	} 26·76	} 33·64
91·17			394·12		
66·13	} 33·53	} 25·04	367·77	} 32·63	} 26·35
32·60			335·14		
59·30	} 26·70	} 33·37	358·77	} 23·63	} 35·32
92·67			394·09		
63·43		29·24	363·74		30·35
Sums .	177·34	180·52	—	168·03	191·17

The value of q was found by the formula

$$q = \frac{1}{t - t_0} a n \left(1 + \frac{H}{F} \right) \cot u,$$

where $t - t_0$ expresses the difference of temperature, n the corresponding change of scale readings, a the arc value of one scale division in parts of radius, and u the whole angle of deflection. The results are as follows:

1st Experiment, August 12th, 1847:—

$$q \text{ at } 50^\circ = \frac{1}{145^\circ \cdot 09} \times \cdot 0002909 \times 130 \cdot 99 \times 1 \cdot 0003 \times \cot 45^\circ 47' 07''$$

$$= \cdot 000256.$$

$$q \text{ at } 76^\circ = \frac{1}{144 \cdot 81} \times \cdot 0002909 \times 157 \cdot 46 \times 1 \cdot 0003 \times \cot 45^\circ 23' 13''$$

$$= \cdot 000312.$$

2nd Experiment, August 13th:—

$$q \text{ at } 48^\circ = \frac{1}{183 \cdot 08} \times \cdot 0002909 \times 165 \cdot 26 \times 1 \cdot 0003 \times \cot 46^\circ 03' 28''$$

$$= \cdot 000253.$$

$$q \text{ at } 77^\circ = \frac{1}{165 \cdot 91} \times \cdot 0002909 \times 173 \cdot 33 \times 1 \cdot 0003 \times \cot 45^\circ 36' 04''$$

$$= \cdot 000298.$$

3rd Experiment, August 13th:—

$$q \text{ at } 47^\circ = \frac{1}{177.30} \times .0002909 \times 168.03 \times \cot 46^\circ 01' 52'' \\ = .000266.$$

$$q \text{ at } 77^\circ = \frac{1}{180.52} \times .0002909 \times 191.17 \times \cot 45^\circ 32' 40'' \\ = .000302.$$

The abstract of the results is as follows:—

<p>Aug. 12th, at mean temp. 50° $q = .000256$</p> <p>, , 13th, , , 48° $q = .000253$</p> <p>, , 13th, , , 47° $q = .000266$</p> <hr style="width: 50%; margin-left: auto; margin-right: auto;"/> <p style="text-align: center;">48°·3 $q = .000258$</p>	<p>At mean temp. 76° $q = .000312$</p> <p>, , 77° $q = .000298$</p> <p>, , 77° $q = .000302$</p> <hr style="width: 50%; margin-left: auto; margin-right: auto;"/> <p style="text-align: center;">76°·7 $q = .000304$</p>
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The mean result of the three experiments made at the Cape was .000320 at a temperature of 79°.

From the results of the experiments at Woolwich, a table was formed of the proportionate values of the coefficient at every degree of temperature from 48° upwards, including the usual addition of .00001 for the effect of variations of temperature upon the suspension apparatus; the values in this table were employed in reducing to a uniform temperature all the observations with magnet R contained in this volume, in preference to and instead of the approximate values placed at the head of the pages in which the detailed record of the bifilar observations is contained.

The experiments for the determination of the temperature coefficient of Bar C 2, were made by Captain Wilmot, at the Cape of Good Hope, by the same method of deflection. The following abstract contains the results. The declinometer readings are corrected for the changes of declination occurring during the progress of the experiments.

Cape of Good Hope, September 30th, 1844.

TEMPERATURES.			DECLINOMETER.	
Readings.	Differences.	Means.	Readings, Corrected.	Differences.
101·58	°	°	Sc. Div. 375·58	Sc. Div.
63·44	38·14	82·51	369·58	6·00
101·52	38·08	82·48	375·72	6·14
59·92	41·60	80·72	369·63	6·09
100·70	40·78	80·31	375·33	5·70
62·48	38·22	81·59	369·03	6·30
Means .	39·36	81·52	—	6·05

The whole angle of deflection was found to be 748·5 scale divisions. The bifilar magnetometer was observed for changes of horizontal force, and the correction to be applied to the final results ascertained to be +·000002; the coefficient is therefore

$$q \text{ at } 81^{\circ}\cdot 5 = \left(\frac{6\cdot 05}{39\cdot 36 \times 748\cdot 5} + \cdot 000002 \right) = \cdot 000208; \text{ or,}$$

with the addition of ·00001 for the influence of variations of temperature upon the suspension apparatus, $q = \cdot 000218$.

At the period when the Observatory was transferred from the Ordnance to the Admiralty, Bar C 2 remained mounted in the bifilar apparatus. It continued undisturbed until March 1849, when it was removed for the purpose of verifying the determination of the temperature coefficient made by Captain Wilmot in September 1844. The following is an extract from Mr. Maclear's Report, dated July 1st, 1849:—

“Having considered the nature of these experiments, and knowing from ample experience how difficult it is to ascertain the exact temperature of a metallic bar during experiments for expansion, I resolved on the present occasion to manage the temperature changes through the medium of olive oil, and to surround it with a substance which should communicate or abstract the heat; also to let the range between the thermal points be of sufficient extent to obviate uncertainty, provided the intervals in time should be within moderate limits, so as to avoid as much as possible the unknown accidental changes peculiar to magnetism which seem to vitiate results. It is difficult in practice to escape from the latter; but,—assuming simultaneous readings of the auxiliary magnets, deflected magnets, and thermometers,—if the suspensions of the two declinometers are alike delicate, the effect of unknown influences should be small, provided that currents from the heat produced by lamps be avoided. To evade the latter, the experiments were made in daylight. The detached building, called the Intensity House, contains two stone piers, one for supporting a declinometer, the other for a telescope and scale. Connected with the former and perpendicular to the magnetic meridian, are planks for supporting deflecting bars. In the absence of mechanical means for adopting Lamont's principle, the plank was adjusted perpendicular to the magnetic meridian by measuring the three sides of a right-angled triangle; thus, under deflection, the axes of the deflected and deflecting magnets were not perpendicular to each other by the amount of the angle of deflection.” “The suspended bar was about 9·15 inches long, 0·87 broad, and 0·23 thick. It was suspended at first with thirteen fibres and afterwards with nine.”

“I presume the copper temperature troughs are the same that Captain Wilmot employed. The outside one is about 18 inches long, 4 broad, and 4 deep, and is provided with a stop cock, which however I did not use. The dimensions of the inner one are about 1½ inches less in all directions, with an opening at the top six inches in length, a wide screw-hole opening at one end, and a cradle inside for supporting the

magnet under experiment. The magnet having been introduced, this box was filled with fine olive oil, and then jammed tight within the outer box by four small cubes of wood. For changing the temperatures, hot water and pounded ice alternately occupied the space between the boxes, the waste water being always removed with a glass syphon. Thus the magnet and oil were not in any way touched except by the naked bulbs of the thermometers, which were of the small delicate description made by Newman.

“On removing the inner gilt box covering the large bifilar, the bar was found perfectly free from rust. It was subjected to experiment in the apparatus just mentioned, with its north end towards the suspended bar at the distance of four feet. Between March 28 and April 4, twenty-eight experiments, agreeing pretty well with each other, gave for the value of q for ascending temperatures $- \cdot 00020695$, with a probable error of $\pm \cdot 00000857$. Adding $\cdot 000010$ for the suspension, q becomes $\cdot 000217$, almost identical with the value registered by Captain Wilmot for this bar, the details of which were probably sent home. We could not find any memorandum relating to them.”

The experiments of Captain Wilmot referred to were those of September 1844, pages xxx and xxxi, making $q = \cdot 000218$ at the temperature of $81^{\circ} \cdot 5$. The mean temperature of Mr. Maclear's twenty-eight experiments is found, by consulting the detail of the experiments appended to his report, to have been $74^{\circ} \cdot 5$. In Mr. Maclear's experiments, as in Captain Wilmot's, the partial values of the coefficient are derived from deflections at widely different temperatures without observations made at intermediate temperatures. In neither case, consequently, are the means afforded of examining whether the coefficient of this bar varies at different parts of the thermometric scale.* Its value has therefore been taken for all temperatures at $\cdot 00022$.

Monthly Mean Values of the Bifilar Observations.—Table X. contains the monthly means of the observations with the bifilar reduced to a standard temperature of 60° . The cross lines mark the epochs of re-adjustments, and of breaks in the continuity of the series. The magnet R, which was employed from the commencement until October 1844, appears to have had its magnetic moment examined only twice in the course of its employment, namely, in August 1841, and in October 1844. On the first of these occasions its time of vibration at the temperature of 50° was $12^{\text{s}} \cdot 1200$, and on the second, also at the temperature of 50° , $12^{\text{s}} \cdot 2228$. The loss of force, estimated in its corresponding influence on the readings of the magnetometer, is considerable, amounting to above 30 scale divisions. It is not improbable that a large proportion of the loss may have taken place in April 1843, when the magnet was removed to have its temperature coefficient determined, but no examination of the force of the bar

* For this purpose it is desirable to employ a suspended magnet of small dimensions, and to reduce the distance between the magnets so that the deflections may be large in amount.

appears to have been made at that period. The *increase* in the readings from October 1841 to March 1843, during which interval the magnetometer was undisturbed, is in the contrary direction to that which would have been occasioned by a loss of magnetism in the magnet, and might indicate either a progressive increase of the earth's magnetic force, or a progressive elongation of the suspension wire. But the observations represented by this table are obviously not such as can be satisfactorily employed in the deduction either of secular change or of annual variation, though very capable of yielding deductions of changes during shorter periods, such as those of the diurnal variation and of the irregular disturbances.

TABLE X.

Monthly Means of the Observations of the Bifilar Magnetometer reduced to the Temperature of 60°.

MONTHS.	1841	1842	1843	1844	1845	1846
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
January		91·4	101·9	55·3	74·7	59·4
February		91·9	100·6	53·7	78·1	57·1
March		94·9	98·7	51·4	76·2	50·9
April		94·2		49·7	71·8	42·4
May		95·7	52·5	49·8	66·5	35·2
June	61·1	95·1	53·2	49·9	63·2	32·5
July	64·3	91·0	51·2	49·2	61·8	
August	51·6	93·2	51·8	47·5	57·9	
September	37·8	93·5	51·3	47·2	58·7	
October	70·7	95·7	52·2	45·2	61·4	
November	78·5	96·3	58·3	60·1	62·6	
December	84·0	99·5	56·9	70·7	61·3	

Diurnal Variation.—Tables XI., XII., and XIII. exhibit the Diurnal Variation derived from the monthly means of the bifilar magnetometer from October 1841 to June 1846, 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.

TABLE XI.—*Diurnal Variation of the Horizontal Force from*

Mean Time at the Cape of Good Hope		0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m
		·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
JANUARY.	1842	034	023	033	039	035	022	010	006	000	003	003
	1843	040	043	040	044	047	036	024	010	014	000	003
	1844	026	030	027	032	034	032	023	011	000	001	004
	1845	030	042	032	024	031	032	028	014	001	000	008
	1846	001	011	023	034	040	042	033	020	017	018	023
Reduced Means		022	026	027	031	033	031	020	008	002	000	004
FEBRUARY.	1842	038	021	024	025	026	024	008	001	003	000	007
	1843	000	006	013	020	025	022	016	011	006	013	013
	1844	032	024	027	028	029	031	020	001	000	003	012
	1845	041	029	021	024	028	027	018	007	000	002	009
	1846	004	011	021	018	022	022	013	007	001	007	000
Reduced Means		021	016	019	021	024	023	013	003	000	003	006
MARCH.	1842	041	053	058	060	054	036	018	011	004	006	000
	1843	044	053	057	052	048	043	026	006	000	009	014
	1844	006	003	008	009	026	034	025	012	012	024	016
	1845	042	044	036	041	041	025	005	000	000	002	015
	1846	002	002	009	010	016	011	004	002	000	001	017
Reduced Means		024	028	031	031	034	027	013	003	000	005	019
APRIL.	1842	025	023	028	031	027	019	010	000	007	001	003
	1843 ^a	—	—	—	—	—	—	—	—	—	—	—
	1844	001	000	014	015	023	020	008	008	005	013	021
	1845	038	033	031	031	024	022	004	003	000	001	002
	1846	039	036	026	013	025	027	012	007	000	001	019
Reduced Means		023	020	022	019	022	019	005	001	000	001	008
MAY.	1842	036	014	006	019	027	014	009	006	002	000	006
	1843	052	035	040	045	057	060	047	034	013	000	008
	1844	039	027	023	029	033	031	024	014	006	001	000
	1845	031	011	001	009	024	031	023	013	005	001	005
	1846	053	037	031	019	025	019	013	013	002	000	006
Reduced Means		042	025	020	024	033	031	023	016	006	000	005
JUNE.	1842	034	026	029	038	065	058	045	019	005	000	005
	1843	006	009	015	029	042	033	019	009	001	000	003
	1844	024	013	014	027	048	045	036	025	015	008	006
	1845	040	036	026	028	041	042	031	018	013	004	001
	1846	055	034	017	019	034	031	023	007	001	002	000
Reduced Means		029	021	017	055	043	039	028	013	004	000	000

^a The observations were suspended

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October 1841 to June 1846 inclusive, in parts of the Horizontal Force.

11 ^h 34 ^m	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m	Monthly Means.
·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
001	012	020	029	043	042	054	069	077	083	064	040	037	032
005	015	014	017	020	025	030	045	048	045	032	025	033	026
014	023	028	032	035	039	052	063	067	067	043	032	023	031
021	028	020	021	028	034	048	061	079	084	061	040	024	033
023	019	023	029	030	029	052	074	078	066	044	011	000	031
009	015	017	022	027	030	043	058	066	065	045	026	019	030
019	049	055	062	060	062	066	082	086	079	059	032	024	038
022	024	036	033	029	028	029	037	052	048	029	016	006	022
007	021	025	032	033	034	035	051	075	069	052	033	027	029
012	023	022	021	021	019	020	028	048	054	051	028	033	024
003	008	006	013	025	015	011	023	036	037	028	008	001	014
011	023	027	030	032	030	030	042	057	055	042	021	016	025
012	020	037	043	041	048	047	077	094	096	073	051	038	042
018	029	044	051	047	047	045	049	065	072	062	039	034	040
031	032	043	044	045	043	047	048	076	080	051	022	000	031
021	022	029	030	026	028	023	029	049	055	039	026	021	027
015	021	026	021	022	021	019	035	052	065	050	032	012	019
016	022	033	035	033	034	033	045	064	071	052	031	018	032
021	035	044	053	062	053	054	063	075	083	077	061	031	037
029	038	057	056	056	056	055	067	076	074	057	042	024	034
013	018	020	024	022	011	022	023	048	058	050	050	041	025
021	028	033	027	047	041	039	044	070	071	056	046	041	032
018	027	035	037	044	037	039	046	064	068	057	047	031	032
011	014	019	022	026	032	033	045	065	079	079	072	058	029
001	018	028	027	029	034	038	048	063	086	090	080	065	042
009	006	015	012	016	019	018	035	049	043	063	055	045	026
000	008	013	012	009	013	014	020	046	062	070	058	041	022
018	031	039	041	046	049	058	066	086	098	095	077	062	041
008	015	023	023	025	029	032	043	062	074	079	068	054	032
014	014	017	017	026	029	029	038	053	074	078	067	048	034
000	003	003	002	014	015	012	021	042	056	056	039	012	018
010	000	006	011	013	014	013	026	044	065	076	064	045	027
000	008	009	009	010	011	013	019	041	060	066	065	053	027
008	026	031	027	039	042	043	046	055	077	084	077	066	035
003	007	010	010	017	019	019	027	044	063	069	059	042	028

during the month of April.

TABLE XI.—*Diurnal Variation of the Horizontal Force from October 1841*

Mean Time at the Cape of Good Hope		0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m
JULY.		·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
	1842	050	041	042	047	048	040	023	026	006	005	000
	1843	034	026	031	045	058	055	034	017	001	000	001
	1844	032	025	025	028	042	041	037	023	014	006	002
	1845	034	024	026	032	047	046	033	018	009	003	002
Reduced Means		037	028	030	037	048	045	031	021	007	003	000
AUGUST.	1842	051	034	010	003	010	009	010	000	002	002	009
	1843	060	047	026	022	030	037	025	010	000	003	008
	1844	080	043	030	025	036	041	023	001	000	000	005
	1845	089	057	025	018	027	033	022	012	010	000	006
	Reduced Means		069	044	022	016	025	029	019	005	002	000
SEPT.	1842	048	034	021	014	009	016	007	000	002	004	005
	1843	075	069	059	051	046	035	012	013	002	000	020
	1844	075	055	045	040	028	015	004	000	002	005	012
	1845	079	050	030	018	020	018	007	012	005	000	012
	Reduced Means		067	050	037	029	024	019	006	004	001	000
OCTOBER.	1841	054	050	046	048	049	013	000	004	015	031	043
	1842	045	047	059	054	036	017	012	005	001	000	014
	1843	031	044	045	046	035	023	006	008	015	000	007
	1844	002	020	035	030	019	013	012	002	000	016	013
	1845	032	033	039	037	028	021	006	000	001	007	009
Reduced Means		029	035	041	039	029	013	003	000	002	007	013
NOVEMBER.	1841	001	004	000	004	005	010	001	011	002	013	012
	1842	000	006	017	024	017	014	006	003	003	011	013
	1843	033	038	037	034	026	018	012	002	000	001	006
	1844	015	033	039	045	035	013	007	000	004	016	021
	1845	013	028	038	035	028	016	016	000	002	005	009
Reduced Means		010	020	024	026	020	012	006	001	000	007	010
DECEMBER.	1841	080	074	048	042	048	034	008	007	000	008	027
	1842	047	038	027	028	031	029	028	010	000	002	013
	1843	048	044	031	035	042	033	021	002	000	009	010
	1844	046	042	032	036	036	026	017	001	000	005	010
	1845	022	025	030	029	023	020	010	000	001	015	015
Reduced Means		049	045	034	034	036	028	017	004	000	008	015

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to June 1846 inclusive, in parts of the *Horizontal Force*—continued.

11 ^h 34 ^m	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m	Monthly Means.
·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
008	016	030	049	038	049	052	060	069	076	078	073	063	041
017	027	033	038	043	048	047	053	071	092	090	076	050	041
002	000	004	011	011	012	015	026	045	063	069	070	052	028
000	000	007	009	009	015	017	024	039	061	068	060	045	026
006	010	018	026	024	030	032	040	055	072	075	069	052	033
013	015	019	030	029	028	030	037	050	073	094	091	076	030
016	014	026	024	024	028	028	030	059	086	073	071	061	034
008	026	029	032	038	039	033	040	071	099	111	111	093	042
008	014	016	018	024	033	028	031	054	074	099	093	095	037
010	016	022	025	028	031	029	034	058	082	093	091	080	035
021	030	046	047	040	042	039	042	065	090	101	090	066	037
025	030	020	045	053	052	055	054	077	091	097	084	072	047
019	026	034	038	042	042	037	041	069	100	118	113	081	043
022	034	036	048	041	040	037	039	064	092	111	118	102	043
020	028	032	043	042	042	040	042	067	091	105	099	078	041
048	077	086	092	102	103	105	116	125	121	091	075	064	065
020	029	038	038	039	040	045	059	074	070	056	044	038	037
015	017	025	027	032	031	033	042	058	065	054	035	027	030
024	031	032	033	043	046	052	068	087	092	064	032	011	032
010	018	019	021	020	021	025	043	061	046	055	040	039	026
019	030	036	038	043	044	048	061	077	075	060	041	032	034
030	037	053	060	065	071	084	092	101	094	072	046	028	037
018	028	022	037	038	044	055	073	086	077	057	027	008	029
018	024	027	037	035	038	055	078	095	085	066	043	036	035
034	039	040	040	043	048	050	079	089	082	064	044	035	038
011	018	021	019	024	026	039	065	081	073	050	019	015	027
020	027	031	037	039	043	055	075	088	080	060	034	022	031
043	061	057	053	071	073	094	116	133	124	117	086	073	062
023	025	028	032	028	033	043	058	071	077	077	070	060	037
024	033	033	045	044	053	066	084	100	107	092	063	050	045
012	004	010	013	014	017	033	057	071	079	072	052	053	031
015	022	023	027	025	031	059	088	109	109	087	053	027	036
023	029	030	034	036	041	059	081	097	099	089	065	053	042

TABLE XII.

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

Cape of Good Hope Time.	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	11 ^h 34 ^m	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	022	026	027	031	033	031	020	008	002	000	004	009	January.
February . . .	021	016	019	021	024	023	013	003	000	003	006	011	February.
March . . .	024	028	031	031	034	027	013	003	000	005	009	016	March.
April . . .	023	020	022	019	022	019	005	001	000	001	008	018	April.
May . . .	042	025	020	024	033	031	023	016	006	000	005	008	May.
June . . .	029	021	017	025	043	039	028	013	004	000	000	003	June.
July . . .	037	028	030	037	048	045	031	021	007	003	000	006	July.
August . . .	069	044	022	016	025	029	019	005	002	000	006	010	August.
September . . .	067	050	037	029	024	019	006	004	001	000	010	020	September.
October . . .	029	035	041	039	029	013	003	000	002	007	013	019	October.
November . . .	010	020	024	026	020	012	006	001	000	007	010	020	November.
December . . .	049	044	034	034	036	028	017	004	000	008	015	023	December.
April to Sept. inclusive . . .	043	030	024	024	031	029	018	009	002	000	004	010	
Oct. to March, inclusive . . .	025	027	028	029	028	021	011	002	000	004	009	014	
Mean of the whole Year . . .	033	028	025	026	029	024	013	005	000	001	006	012	
Cape of Good Hope Time.	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	015	017	022	027	030	043	058	066	065	045	026	019	January.
February . . .	023	027	030	032	030	030	042	057	055	042	021	016	February.
March . . .	022	033	035	033	034	033	045	064	071	052	031	018	March.
April . . .	027	035	037	044	037	039	046	064	068	057	047	031	April.
May . . .	015	023	023	025	029	032	043	062	074	079	068	054	May.
June . . .	007	010	010	017	019	019	027	044	063	069	059	042	June.
July . . .	010	018	026	024	030	032	040	055	072	075	069	052	July.
August . . .	016	022	025	028	031	029	034	058	082	093	091	080	August.
September . . .	028	032	043	042	042	040	042	067	091	105	099	078	September.
October . . .	030	036	038	043	044	048	061	077	075	060	041	032	October.
November . . .	027	031	037	039	043	055	075	088	080	060	034	022	November.
December . . .	029	030	034	036	041	059	081	097	099	089	065	053	December.
April to Sept. inclusive . . .	016	022	026	029	030	031	038	057	074	079	071	055	
Oct. to March, inclusive . . .	023	028	032	034	036	044	059	074	073	057	035	026	
Mean of the whole Year . . .	019	024	028	031	032	036	047	065	072	067	052	039	

TABLE XIII.

Exhibits the Mean Hourly Position of the Bifilar Magnet in each Month of the Year, relatively to its general Mean Position in the Month; the sign + implies that the force is greater than in the Mean Position, and - that it is less.

Cape of Good Hope Time. } 0 ^h 34 ^m 1 ^h 34 ^m 2 ^h 34 ^m 3 ^h 34 ^m 4 ^h 34 ^m 5 ^h 34 ^m 6 ^h 34 ^m 7 ^h 34 ^m 8 ^h 34 ^m 9 ^h 34 ^m 10 ^h 34 ^m 11 ^h 34 ^m													
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	-005	-001	000	+004	+006	+004	-007	-019	-025	-027	-023	-018	January.
February . . .	-002	-007	-004	-002	+001	000	-010	-020	-023	-020	-017	-012	February.
March . . .	-005	-001	+002	+002	+005	-002	-016	-026	-029	-024	-020	-013	March.
April . . .	-006	-009	-007	-010	-007	-010	-024	-028	-029	-028	-021	-011	April.
May . . .	+010	-007	-012	-008	+001	-001	-009	-016	-026	-032	-027	-024	May.
June . . .	+004	-004	-008	000	+018	+014	+003	-012	-021	-025	-025	-022	June.
July . . .	+004	-005	-003	+004	+015	+012	-002	-012	-026	-030	-033	-027	July.
August . . .	+034	+009	-013	-019	-010	-006	-016	-030	-033	-035	-029	-025	August.
September . . .	+026	+009	-004	-012	-017	-022	-035	-037	-040	-041	-031	-021	September.
October . . .	-005	+001	+007	+005	-005	-021	-031	-034	-032	-027	-021	-015	October.
November . . .	-021	-011	-007	-005	-011	-019	-025	-030	-031	-024	-021	-011	November.
December . . .	+007	+002	-008	-008	-006	-014	-025	-038	-042	-034	-027	-019	December.
April to Sept. inclusive	+012	-001	-007	-007	000	-002	-014	-022	-029	-032	-028	-022	
Oct. to March, inclusive	-005	-003	-002	-001	-002	-009	-019	-028	-030	-026	-022	-015	
Mean of the whole Year . . .	+003	-002	-005	-004	-001	-005	-016	-025	-030	-029	-025	-018	
Cape of Good Hope Time. } 12 ^h 34 ^m 13 ^h 34 ^m 14 ^h 34 ^m 15 ^h 34 ^m 16 ^h 34 ^m 17 ^h 34 ^m 18 ^h 34 ^m 19 ^h 34 ^m 20 ^h 34 ^m 21 ^h 34 ^m 22 ^h 34 ^m 23 ^h 34 ^m													
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	-012	-010	-005	000	+003	+016	+031	+039	+038	+018	-001	-008	January.
February . . .	000	+004	+007	+009	+007	+007	+019	+034	+032	+019	-002	-007	February.
March . . .	-007	+004	+006	+004	+005	+004	+016	+035	+042	+023	+002	-011	March.
April . . .	-002	+006	+008	+015	+008	+010	+017	+035	+039	+028	+018	+012	April.
May . . .	-017	-009	-009	-007	-003	000	+011	+030	+042	+047	+036	+022	May.
June . . .	-018	-015	-015	-008	-006	-006	+002	+019	+038	+044	+034	+017	June.
July . . .	-023	-015	-007	-009	-003	-001	+007	+022	+039	+042	+036	+019	July.
August . . .	-019	-013	-010	-007	-004	-006	-001	+023	+047	+058	+056	+045	August.
September . . .	-013	-009	+002	+001	+001	-001	+001	+026	+050	+064	+058	+037	September.
October . . .	-004	+002	+004	+009	+010	+014	+027	+043	+041	+026	+007	-002	October.
November . . .	-004	000	+006	+008	+012	+024	+044	+057	+049	+029	+003	-009	November.
December . . .	-013	-012	-008	-006	-001	+017	+039	+055	+057	+047	+023	+011	December.
April to Sept. inclusive	-015	-009	-005	-002	-001	-001	+006	+026	+043	+047	+040	+025	
Oct. to March, inclusive	-007	-002	+002	+006	+006	+014	+029	+044	+043	+027	+005	-004	
Mean of the whole Year . . .	-011	-006	-002	+001	+002	+007	+018	+035	+043	+037	+023	+010	

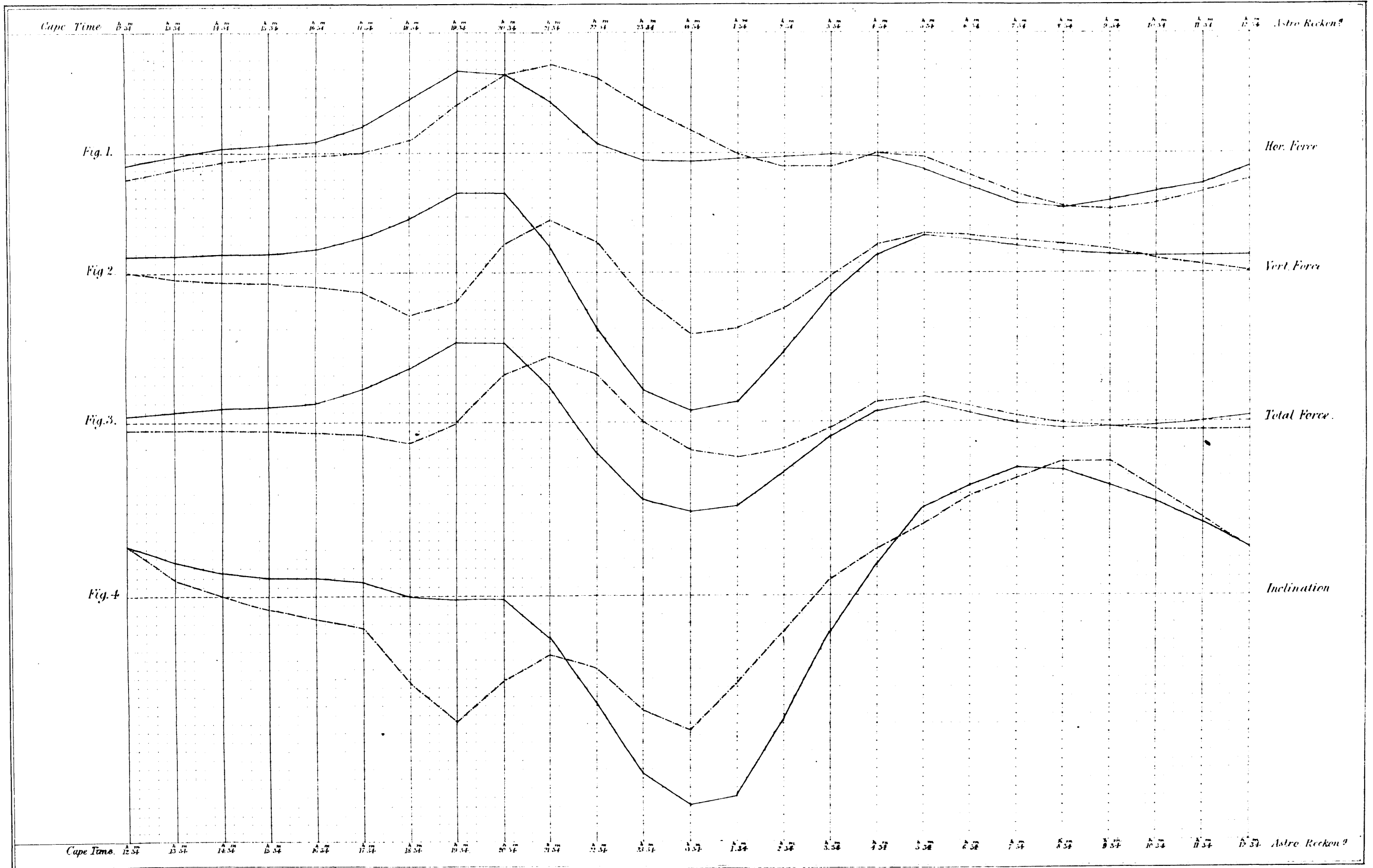
The Diurnal Variation of the horizontal force on the mean of the whole year at the Cape of Good Hope has its minimum about nine in the evening and its maximum about half-past eight in the morning. The progression from the minimum to the maximum is continuous; but from the maximum to the minimum it is interrupted by a tendency towards a small secondary maximum at about half-past four in the afternoon; the interruption continues for about three hours, or from 3 to 6 P.M.

In Tables XII. and XIII. separate means have been taken for the Diurnal Variation from April to September inclusive, and from October to March inclusive, for the purpose of exhibiting the influence of season. The mean variations in the opposite seasons are also projected in Plate V. Fig. 1, the broken line representing the variation when the sun is north of the equator, and the unbroken line the variation at the opposite season. The scale is the same as that of the corresponding projection in the St. Helena volume, Plate IV. Fig. 3. The difference in the variation at the two seasons is systematic, though slight, at both stations. At the Cape the maximum of force occurs from October to March about 8 A.M., and from April to September about 9½ A.M., The minimum is also an hour earlier from October to March than from April to September. There is a slight tendency to a secondary minimum about noon from October to March, and about 3 P.M. from April to September; but the small secondary maximum about 4½ P.M., already noticed in discussing the mean curve of the year, appears to be owing, in great part at least, to the months of May, June, and July. On a general comparison of the diurnal variation at St. Helena and the Cape, the most striking feature of difference perhaps, is the smaller amount of the range of the variation at the Cape than at St. Helena, and the next in importance, the earlier occurrence of the maximum at the Cape; the hour of minimum is nearly the same at both stations.

Table of Corrections for the Diurnal Variation of the Horizontal Force.—Table XIII. (page xxxix.) supplies for every month of the year corrections to the mean horizontal force of the month to be applied to observations made at any one of the observations hours. In applying the values in the table as corrections it will be remembered that the opposite sign to that in the Table must be employed.



Diurnal Variation of the Horizontal, Vertical, and Total Force, and of the Inclination, in opposite Seasons
 Fig. 1. Horizontal Force, Scale 1^m to 0005 Parts of the Force Fig. 2 Vertical Force, Scale 1^m to 0005 Parts of the Force
 Fig. 3. Total Force, Scale 1^m to 0005 Parts of the Force Fig. 4. Inclination, Scale 1^m to 1 of Arc The broken line represents
 the Diurnal Variation from April to September inclusive; the unbroken line the Diurnal Variation from October to March inclusive.
 Fig^s 1, 2, and 3, Force ↑ increasing; Force ↓ decreasing. Fig 4. South Inclination ↑ increasing; South Inclination ↓ decreasing.



VERTICAL FORCE.

Vertical Force Magnetometer.—The instrument in use at the Cape of Good Hope was made by Robinson in 1839, and is of the construction described in pages 31 to 35 of the Royal Society's Report. It has still its original light magnet. The instrument was in the first instance, *i. e.*, in March 1841, adjusted in the magnetic meridian, but was changed in July 1841 into the perpendicular direction, in which it has since remained. Prior to November 1841 the readings were much affected by insects, and in November and December the adjustment was imperfect, the centre of gravity being too high, and the magnet in consequence, too sensible. The record of hourly observations commences in this volume with January 1st, 1842, and is continued to July 1846, with the exception of the month of April 1843, when the observations were suspended by directions from England, for the purpose of investigating the temperature coefficient. The angular value of one division on each of the micrometer heads was ascertained to be exactly 1'·0. The values of the coefficient (k) for computing the changes of vertical force corresponding to an alteration of 1'·0 in the direction of the magnet have been calculated by the formula

$$k = a \cot \theta \frac{T'^2}{T^2},$$

a being 1'·0 (in parts of radius), θ the magnetic inclination, T and T' the times of vibration of the magnet in the vertical and horizontal planes respectively. The time of vibration in the vertical plane corresponding to different dates is shown in Table XIV. The time of horizontal vibration observed in November 1841 and in April 1843, was respectively 11^s·64 and 11^s·75, the latter at the temperature of 68°·5. In March 1849, nearly three years after the close of the Ordnance series, the magnet was dismantled by Mr. Maclear for a re-examination of its temperature correction, and after the experiments for that purpose had been made, the time of horizontal vibration was found by Mr. Mann to be 11^s·94 at a temperature of 55°. The values of T' and θ , employed in computing k for different periods from 1842 to June 1846 inclusive, are shown, together with the deduced values of k , in Table XV.

TABLE XIV.—*Vertical Vibration.*

Dates.	Time of One Vibration.	Dates.	Time of One Vibration.	Dates.	Time of One Vibration.	Dates.	Time of One Vibration.	Dates.	Time of One Vibration.
1842	Sec.	1842	Sec.	1843	Sec.	1843	Sec.	1844	Sec.
Jan. 8	28·16	May 31	17·20	Jan. 5	14·40	Sept. 14	13·09	Dec. 10	14·80
10	28·49	June 2	17·22	10	14·30	20	13·20	21	14·77
12	29·86	4	17·22	16	14·29	25	13·23	30	14·74
17	22·22	6	17·18	21	14·37	30	13·25	1845	
26	31·94	9	17·14	26	14·36	Oct. 5	13·15	Jan. 11	14·77
29	21·73	11	17·12	31	14·39	10	12·94	22	14·84
Feb. 2	16·78	14	17·10	Feb. 6	14·40	Nov. 8	13·71	Feb. 1	14·78
7	16·69	18	17·08	13	14·40	21	13·50	11	14·77
12	17·00	20	17·07	16	14·41	30	13·52	21	14·88
18	16·92	25	17·02	20	14·34	Dec. 11	13·57	26	14·82
21	16·82	27	17·11	23	14·32	21	13·61	Mar. 10	14·78
25	16·77	28	17·09	27	14·15	30	13·50	19	14·85
28	16·74	30	17·07	Mar. 6	14·00	1844		29	14·78
Mar. 5	16·77	Aug. 1	16·98	11	13·91	Jan. 11	13·40	Apr. 8	14·82
7	16·75	9	15·99	16	13·86	20	13·60	19	14·81
10	16·67	15	15·98	21	13·85	31	13·54	May 1	14·77
14	16·69	20	15·90	25	13·99	Feb. 10	13·64	15	14·82
17	16·62	25	15·89	30	13·80	20	13·37	28	14·81
19	16·57	Sept. 1	15·84	May 6	13·04	29	13·41	June 1	14·88
22	16·48	5	15·89	11	13·08	Mar. 11	13·21	25	14·82
31	16·28	10	15·83	16	13·14	21	13·25	30	14·84
Apr. 2	16·95	15	15·83	20	13·07	30	13·42	July 10	14·78
4	16·87	20	15·76	25	13·02	Apr. 10	13·02	21	14·83
7	16·78	26	15·76	31	13·08	20	13·26	31	14·84
9	16·56	30	15·72	June 5	13·10	30	13·41	Aug. 11	14·82
11	16·36	Oct. 3	14·72	10	13·20	May 13	13·44	23	14·86
14	16·41	8	14·67	15	13·06	21	13·48	Sept. 3	14·87
18	16·98	15	14·62	21	13·12	30	13·31	13	14·82
19	17·18	21	14·56	24	13·13	June 10	13·32	22	14·89
23	17·29	26	14·51	30	13·12	20	13·25	30	14·84
26	17·29	31	14·44	July 5	13·13	29	13·50	Oct. 8	14·84
28	17·14	Nov. 5	14·39	10	13·00	July 11	13·39	18	14·84
30	17·16	10	14·38	15	12·87	22	13·47	30	14·79
May 2	17·08	14	14·35	21	13·00	31	13·57	Nov. 7	14·86
5	17·07	19	14·32	26	13·13	Aug. 10	13·48	18	14·87
7	17·02	24	14·27	31	13·06	20	13·45	27	14·78
9	16·99	29	14·33	Aug. 8	13·01	31	13·47	Dec. 8	14·71
12	16·95	Dec. 5	14·36	12	13·13	Sept. 10	13·22	20	14·69
14	16·93	10	14·36	16	13·07	20	13·28	30	14·59
19	16·92	15	14·38	21	12·82	30	13·50	1846	
21	16·86	20	14·36	25	12·87	Oct. 11	13·24	Jan. 12	14·61
23	16·85	26	14·32	31	12·81	22	14·27	20	14·71
26	16·88	31	14·37	Sept. 5	12·95	31	14·33	Feb. 2	14·70
30	17·16			11	12·95	Nov. 14	14·35	12	14·67
						Dec. 3	14·86	23	14·69
								Mar. 5	14·64
								16	14·67

TABLE XV.

Values of the Time of Horizontal Vibration and of the Inclination employed, with the deduced Values of h .

DATES.	T'	θ	h
	Sec.		
January 1st to 16th, 1842	11·66	−53° 09′	·00004
January 17th to February 1st, 1842	11·66	−53 09	·00006
February 2nd to October 1st, 1842	11·68	−53 12	·00011
October 2nd, 1842, to March 30th, 1843	11·73	−53 16	·00015
May 1st, 1843, to November 2nd, 1843	11·75	−53 20	·00018
November 2nd, 1843, to October 11th, 1844	11·78	−53 25	·00017
October 12th, 1844, to November 14th, 1844	11·78	−53 26	·00015
November 26th, 1844, to June 30th, 1846	11·80	−53 30	·00014

Temperature Coefficient.—A series of experiments to determine the value of the temperature coefficient of the Vertical Force Magnet was made by Lieut. Clerk in April 1843. The suspended magnet was 9·15 inches in length, and the distance of the two magnets 2½ feet from centre to centre. The vertical force magnet was placed with its thermometer in a copper vessel having a glass window through which the thermometer was read; this vessel being placed within another copper vessel, containing the water by which the temperature was regulated. The changes of declination and horizontal force occurring during the experiments were carefully observed by a declinometer and bifilar, and applied. The result of this series, however, was not satisfactory; neither the differences of temperature, nor the amount of the deflections being found sufficient. A second series was undertaken by Lieut. Clerk in November 1844, a suspended magnet of 7½ inches being substituted for that of 9·15 inches, and the distance between the magnets reduced to 1½ feet; by these means greater differences of temperature and larger deflections were obtained: the results on two different days were respectively ·000035 and ·000055 for 1° of Fahrenheit, the magnetic force of the needle being found to increase with decreasing temperature. The mean of the two results, weighted according to probable error, gave $q = \cdot 000038$.

In April 1849, a third series of experiments was made by Mr. Maclear, employing as a suspended magnet a bar of 9·15 inches, and placing the deflecting magnet at various distances, commencing with four feet and ending with one foot. The changes of declination and horizontal force were observed as in Lieut. Clerk's two series, by a declinometer and bifilar, and duly allowed for. The experiments lasted during five days, in which altogether 52 results were obtained, the partial results exhibiting great irregularity. The mean of the whole, calculated with the weights assigned by the method of least squares, was $q = \cdot 000061$, with a probable error of $\pm \cdot 000008$. Mr. Maclear's report of these experiments concludes with the remark:—"It may be desirable hereafter to subject this magnet to experiments by Lamont's method." The value adopted in this volume is $q = \cdot 00005$ for all temperatures.

Diurnal Variation.—Tables XVI., XVII., and XVIII., show the diurnal variation of the vertical force, expressed in parts of the force, in each month from January 1842 to June 1846 inclusive.

TABLE XVI.—*Diurnal Variation of the Vertical Force from*

Cape of Good Hope Time.	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
JANUARY.											
{ 1842	000	015	038	057	069	081	089	090	082	090	102
{ 1843	009	002	024	042	044	043	046	050	050	047	048
{ 1844	000	008	024	034	044	063	077	065	063	064	066
{ 1845	005	000	033	066	083	104	111	096	102	105	104
{ 1846	001	000	023	028	056	062	062	055	053	058	057
Reduced Means	000	002	025	042	056	068	074	068	067	070	072
FEBRUARY.											
{ 1842	000	000	027	061	086	104	086	093	096	100	096
{ 1843	000	006	041	074	103	119	106	109	108	107	109
{ 1844	007	000	031	075	111	133	130	123	115	119	113
{ 1845	000	004	042	085	116	134	138	132	128	126	122
{ 1846	017	000	019	065	109	142	152	141	135	133	143
Reduced Means	003	000	030	070	103	124	120	118	114	115	115
MARCH.											
{ 1842	002	011	039	073	104	110	110	109	104	107	115
{ 1843	003	000	023	063	089	103	105	107	103	096	098
{ 1844	000	007	030	065	084	093	097	095	087	083	092
{ 1845	000	008	045	074	095	133	132	124	112	110	105
{ 1846	002	000	031	090	130	154	146	140	137	132	127
Reduced Means	000	004	033	072	099	117	117	114	108	105	106
APRIL.											
{ 1842	000	035	067	085	099	104	103	099	094	100	100
{ 1843											
{ 1844	000	022	050	072	087	091	091	088	078	070	068
{ 1845	000	030	070	103	123	124	128	124	116	113	111
{ 1846	000	025	067	108	124	135	140	140	138	135	120
Reduced Means	000	028	063	092	108	113	115	113	106	104	100
MAY.											
{ 1842	000	009	031	042	060	065	063	055	053	052	046
{ 1843	000	006	014	029	048	047	050	049	051	055	041
{ 1844	000	004	016	032	048	047	045	041	038	038	032
{ 1845	000	005	020	033	066	071	071	066	065	064	062
{ 1846	000	007	017	038	065	071	069	058	067	065	058
Reduced Means	000	006	020	035	057	060	060	054	055	055	048
JUNE.											
{ 1842	014	004	009	025	028	041	037	049	057	058	036
{ 1843	005	000	008	025	037	041	044	039	037	036	026
{ 1844	016	007	007	022	035	035	035	033	031	029	028
{ 1845	022	016	016	034	049	051	052	050	043	042	041
{ 1846	018	020	025	037	057	057	054	053	050	046	045
Reduced Means	014	008	012	028	040	044	043	044	043	041	034

DIURNAL VARIATION OF THE VERTICAL FORCE.

January 1842 to June 1846, in parts of the Vertical Force.

11 ^h 34 ^m	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m
·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
108	101	098	091	093	098	101	104	108	105	091	059	021
057	056	061	065	067	068	079	089	090	068	022	001	000
063	065	066	067	069	069	078	083	091	095	078	042	008
092	094	102	100	095	094	094	099	114	134	132	083	028
064	070	071	071	073	073	085	097	114	104	069	035	005
074	074	077	076	076	077	084	091	100	098	075	041	009
086	079	079	085	088	089	098	109	129	137	101	047	021
102	105	104	111	115	116	122	141	168	179	143	079	028
115	111	113	114	111	115	120	125	160	190	174	112	046
124	121	126	126	121	121	120	134	159	177	146	092	040
147	142	138	134	124	129	130	143	180	207	196	143	075
113	110	110	114	110	112	116	128	157	176	150	093	040
100	101	091	086	089	091	093	105	124	126	087	035	000
097	092	086	083	088	089	088	103	123	147	129	083	020
085	109	083	080	082	082	078	093	121	148	117	056	017
100	105	104	102	102	100	108	123	143	155	122	053	015
132	128	124	129	128	128	128	138	178	206	186	110	037
102	106	097	095	097	097	098	111	137	155	127	066	017
093	079	071	075	072	077	071	075	094	118	106	061	024
065	065	051	056	054	055	056	058	079	106	107	072	025
105	108	106	100	107	107	100	108	122	141	126	075	022
122	118	112	112	111	112	110	116	134	171	167	110	041
096	092	085	086	086	088	084	089	107	134	126	079	028
039	038	035	034	034	033	031	015	028	070	078	065	014
042	033	029	028	028	024	023	010	018	051	068	052	016
029	028	021	023	019	025	022	007	015	045	053	043	016
065	068	060	060	061	057	052	041	048	087	094	073	033
059	051	038	038	037	026	023	010	026	070	082	065	022
047	044	037	037	036	033	030	017	027	065	075	060	020
034	030	024	022	021	028	024	010	000	031	053	046	025
035	026	026	023	019	020	023	010	006	037	058	046	019
024	027	022	020	019	020	016	007	000	020	039	041	024
040	037	035	035	032	031	026	011	000	028	042	050	026
036	029	019	029	021	018	020	010	000	028	044	043	025
033	029	024	025	021	022	021	009	000	028	046	044	023

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

Mean Time at the Cape of Good Hope		0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m
		·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
JULY.	1842	028	031	022	036	056	057	060	052	058	050	048
	1843	013	011	025	031	042	046	047	049	048	043	039
	1844	023	014	012	024	045	050	045	042	042	036	035
	1845	024	012	007	026	049	053	051	051	047	043	040
	Reduced Means	018	013	013	025	044	047	047	044	045	039	036
AUGUST.	1842	018	000	012	021	044	057	047	050	041	037	041
	1843	027	017	026	033	052	052	048	049	048	042	037
	1844	033	024	017	025	044	059	056	059	056	047	048
	1845	022	022	017	025	047	060	056	055	044	046	047
	Reduced Means	025	016	018	026	047	057	052	053	047	043	043
SEPT.	1842	013	000	011	033	059	066	062	060	056	053	054
	1843	001	000	021	038	040	056	054	044	044	046	033
	1844	009	009	021	036	054	061	058	052	050	043	037
	1845	000	006	019	040	054	066	060	052	051	053	046
	Reduced Means	002	000	014	033	048	058	054	048	046	045	038
OCTOBER.	1842	000	009	039	079	111	122	106	100	096	100	090
	1843	000	008	037	066	090	090	085	074	075	073	074
	1844	000	012	040	072	093	083	072	083	083	061	054
	1845	000	018	059	108	135	135	122	115	109	106	110
	Reduced Means	000	012	044	082	108	107	096	088	086	085	082
Nov.	1842	000	009	038	054	080	083	081	075	077	074	078
	1843	005	000	016	040	065	102	078	077	075	075	073
	1844	007	001	024	046	060	075	069	068	065	059	052
	1845	000	005	029	063	086	095	083	082	080	078	078
	Reduced Means	000	001	024	048	070	087	075	072	071	069	067
DEC.	1842	000	003	032	055	060	060	066	072	073	073	068
	1843	004	000	014	031	044	048	057	061	060	047	051
	1844	003	023	058	076	087	083	082	081	080	076	075
	1845	012	017	039	066	087	090	091	085	081	071	076
	Reduced Means	003	009	034	055	067	068	072	073	071	065	065

DIURNAL VARIATION OF THE VERTICAL FORCE.

from January 1842 to June 1846, in parts of the Vertical Force—continued.

11 ^h 34 ^m	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m
·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
036	031	031	022	033	028	025	000	016	042	053	047	035
025	017	017	015	015	011	011	002	000	027	054	050	025
034	032	028	025	026	022	018	007	000	027	054	054	033
038	037	033	035	035	028	024	010	000	026	053	064	044
029	025	023	020	023	018	015	001	000	026	049	050	030
042	033	031	024	021	022	018	000	006	048	068	069	041
033	034	029	031	027	023	019	001	000	034	056	065	047
039	034	032	029	025	019	017	000	001	039	066	069	051
042	040	040	038	028	022	020	000	007	045	063	068	043
039	035	033	030	025	021	018	000	003	041	063	068	045
047	047	043	038	040	037	033	016	033	067	084	075	041
031	033	033	029	021	025	018	010	015	036	045	030	012
034	030	029	027	025	024	017	000	021	046	059	046	024
039	039	036	032	033	030	022	007	024	055	063	047	020
034	033	031	027	026	025	018	004	019	047	059	045	020
087	075	091	088	087	092	093	107	125	124	090	047	011
070	073	068	070	067	069	071	085	103	093	060	025	004
057	055	057	062	058	057	059	068	075	077	062	025	007
114	114	111	110	106	103	111	126	145	135	095	036	003
082	079	082	082	080	080	083	096	112	107	077	033	006
078	078	080	080	081	086	105	123	127	100	059	028	013
069	072	075	074	077	081	090	106	105	092	060	023	007
052	057	056	061	058	064	080	086	093	083	066	030	000
081	078	080	086	084	088	101	114	111	089	052	022	003
067	068	070	072	072	077	091	104	106	088	056	020	003
068	068	071	074	079	082	094	099	092	067	030	008	005
047	050	056	054	057	058	067	073	070	059	039	015	003
077	080	075	081	087	096	108	116	110	093	058	020	000
078	077	077	080	081	088	098	108	109	095	060	019	000
065	067	068	070	074	079	090	097	093	076	045	013	000

TABLE XVII.

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

Cape of Good Hope Time.	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	11 ^h 34 ^m	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	000	002	025	042	056	068	074	068	067	070	072	074	January.
February . . .	003	000	030	070	103	124	120	118	114	115	115	113	February.
March . . .	000	004	033	072	099	117	117	114	108	105	106	102	March.
April . . .	000	028	063	092	108	113	115	113	106	104	100	096	April.
May . . .	000	006	020	035	057	060	060	054	055	055	048	047	May.
June . . .	014	008	012	028	040	044	043	044	043	041	034	033	June.
July . . .	018	013	013	025	044	047	047	044	045	039	036	029	July.
August . . .	025	016	018	026	047	057	052	053	047	043	043	039	August.
September . . .	002	000	014	033	048	058	054	048	046	045	038	034	September.
October . . .	000	012	044	082	108	107	096	088	086	085	082	082	October.
November . . .	000	001	024	048	070	087	075	072	071	069	067	067	November.
December . . .	003	009	034	055	067	068	072	073	071	065	065	065	December.
April to Sept. inclusive	000	002	013	030	047	053	052	049	047	044	040	036	
Oct. to March, inclusive	000	004	031	061	083	094	091	088	085	084	083	083	
Mean of the whole Year.	000	003	023	046	066	074	072	069	067	065	062	060	

Cape of Good Hope Time.	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	074	077	076	076	077	084	091	100	098	075	041	009	January.
February . . .	110	110	114	110	112	116	128	157	176	150	093	040	February.
March . . .	106	097	095	097	097	098	111	137	155	127	066	017	March.
April . . .	092	085	086	086	088	084	089	107	134	126	079	028	April.
May . . .	044	037	037	036	033	030	017	027	065	075	060	020	May.
June . . .	029	024	025	021	022	021	009	000	028	046	044	023	June.
July . . .	025	023	020	023	018	015	001	000	026	049	050	030	July.
August . . .	035	033	030	025	021	018	000	003	041	063	068	045	August.
September . . .	033	031	027	026	025	018	004	019	047	059	045	020	September.
October . . .	079	082	082	080	080	083	096	112	107	077	033	006	October.
November . . .	068	070	072	072	077	091	104	106	088	056	020	003	November.
December . . .	067	068	070	074	079	090	097	093	076	045	013	000	December.
April to Sept. inclusive	033	029	027	026	024	021	010	016	047	060	048	018	
Oct. to March, inclusive	083	083	084	084	086	093	103	016	116	087	043	011	
Mean of the whole Year.	059	056	056	056	056	057	057	066	082	074	046	015	

DIURNAL VARIATION OF THE VERTICAL FORCE.

TABLE XVIII.

Exhibits the Mean Hourly Position of the Vertical Force Magnet in each Month of the Year, relatively to its general Mean Position in the Month; the sign + implies that the Force is greater than in the Mean Position, and - that it is less.

Cape of Good Hope Time. } 0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	11 ^h 34 ^m		
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
January . .	-.062	-.060	-.037	-.020	-.006	+.006	+.012	+.006	+.005	+.008	+.010	+.012	January.
February . .	-.099	-.102	-.072	-.032	+.001	+.022	+.018	+.016	+.012	+.013	+.013	+.011	February.
March . . .	-.091	-.087	-.058	-.019	+.008	+.026	+.026	+.023	+.017	+.014	+.015	+.011	March.
April . . .	-.088	-.060	-.025	+.004	+.020	+.025	+.027	+.025	+.018	+.016	+.012	+.008	April.
May	-.041	-.035	-.021	-.006	+.016	+.019	+.019	+.013	+.014	+.014	+.007	+.006	May.
June	-.014	-.020	-.016	000	+.012	+.016	+.015	+.016	+.015	+.013	+.006	+.005	June.
July	-.010	-.015	-.015	-.003	+.016	+.019	+.019	+.016	+.017	+.011	+.008	+.001	July.
August . . .	-.010	-.019	-.017	-.009	+.012	+.022	+.017	+.018	+.012	+.008	+.008	+.004	August.
September . .	-.030	-.032	-.018	+.001	+.016	+.026	+.022	+.016	+.014	+.013	+.006	+.002	September.
October . . .	-.075	-.063	-.031	+.007	+.033	+.032	+.021	+.013	+.011	+.010	+.007	+.007	October.
November . .	-.062	-.061	-.038	-.014	+.008	+.025	+.013	+.010	+.009	+.007	+.005	+.005	November.
December . .	-.056	-.050	-.025	-.004	+.008	+.009	+.013	+.014	+.012	+.006	+.006	+.006	December.
April to Sept. inclusive }	-.032	-.030	-.019	-.002	+.015	+.021	+.020	+.017	+.015	+.012	+.008	+.004	
Oct. to March inclusive }	-.074	-.070	-.043	-.013	+.009	+.020	+.017	+.014	+.011	+.010	+.009	+.009	
Mean of the whole Year. }	-.053	-.050	-.031	-.008	+.012	+.021	+.018	+.015	+.013	+.011	+.009	+.007	
Cape of Good Hope Time. } 12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m		
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
January . . .	+.012	+.015	+.014	+.014	+.015	+.022	+.029	+.038	+.036	+.013	-.021	-.053	January.
February . . .	+.008	+.008	+.012	+.008	+.010	+.014	+.026	+.055	+.074	+.048	-.009	-.062	February.
March	+.015	+.006	+.004	+.006	+.006	+.007	+.020	+.046	+.064	+.036	-.025	-.074	March.
April	+.004	-.003	-.002	-.002	000	-.004	+.001	+.019	+.046	+.038	-.009	-.060	April.
May	+.003	-.004	-.004	-.005	-.008	-.011	-.024	-.014	+.024	+.034	+.019	-.021	May.
June	+.001	-.004	-.003	-.007	-.006	-.007	-.019	-.028	000	+.018	+.016	-.005	June.
July	-.003	-.005	-.008	-.005	-.010	-.013	-.027	-.028	-.002	+.021	+.022	+.002	July.
August	000	-.002	-.005	-.010	-.014	-.017	-.035	-.032	+.006	+.028	+.033	+.010	August.
September . .	+.001	-.001	-.005	-.006	-.007	-.014	-.028	-.013	+.015	+.027	+.013	-.012	September.
October	+.004	+.007	+.007	+.005	+.005	+.008	+.021	+.037	+.032	+.002	-.042	-.069	October.
November . . .	+.006	+.008	+.010	+.010	+.015	+.029	+.042	+.044	+.026	-.006	-.042	-.059	November.
December . . .	+.008	+.009	+.011	+.015	+.020	+.031	+.038	+.034	+.017	-.014	-.046	-.059	December.
April to Sept. inclusive }	+.001	-.003	-.005	-.006	-.008	-.011	-.022	-.016	+.015	+.028	+.016	-.014	
Oct. to March inclusive }	+.009	+.009	+.010	+.010	+.012	+.019	+.029	+.042	+.042	+.013	-.031	-.063	
Mean of the whole Year. }	+.005	+.003	+.003	+.002	+.002	+.004	+.004	+.013	+.028	+.020	-.008	-.038	

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

The diurnal variation of the Vertical Force is shown in Fig. 2 of Plate V., the two opposite seasons of the year, April to September and October to March, being projected separately. It consists at both seasons of a double progression, having two maxima and two minima. The principal maximum takes place earlier from October to March, viz., at 20^h, than from April to September, when it is found between 21^h and 22^h; thence the curves descend at both seasons to a principal minimum, which takes place throughout the year at the same hour, viz., between noon and 1 P.M. The curves then reascend at both seasons to a secondary maximum at 5^h 34^m, after which the April to September curve reaches a secondary well-marked minimum at 18^h 34^m; while the October to March curve descends slightly to a less marked but continuous nocturnal minimum, from which it begins to reascend at about 16^h. The range of the diurnal variation of the vertical force is greater during the six months when the sun is south of the equator, or from October to March, than in the opposite season.

MAGNETIC INCLINATION.

The observations of Inclination comprised in this volume extend in a continuous series over a period of four years and ten months, from June 1841 to March 1846. Table XIX. contains the mean results of the observations in each month, with the number of determinations of which each result is the representative.

TABLE XIX.

MONTHS.	1841		1842		1843		1844		1845		1846	
	No. of Determ.	Inclin. - 53°.	No. of Determ.	Inclin. - 53°.	No. of Determ.	Inclin. - 53°.	No. of Determ.	Inclin. - 53°.	No. of Determ.	Inclin. - 53°.	No. of Determ.	Inclin. - 53°.
January . .	—	—	17	09·0	16	16·2	9	19·5	8	27·8	6	31·7
February . .	—	—	16	09·6	16	16·8	8	22·7	8	26·6	9	31·9
March . .	—	—	17	10·5	18	16·0	9	24·4	8	26·3	8	31·4
April . .	—	—	16	13·8	5	21·3	9	27·7	8	26·9	—	—
May . .	—	—	17	12·7	31	18·8	9	26·6	9	25·1	—	—
June . .	2	06·7	17	12·7	17	17·9	8	29·1	9	24·9	—	—
July . .	6	07·5	17	14·6	17	19·1	9	26·3	8	26·3	5	37·4
August . .	9	07·4	18	16·2	17	16·8	9	31·4	10	28·0	15	31·7
September . .	12	09·6	11	16·7	22	19·2	9	33·0	10	31·1	3	35·7
October . .	16	10·9	17	14·7	10	20·2	10	34·7	9	30·4	—	—
November . .	12	09·4	17	16·7	8	22·9	9	31·9	8	29·9	—	—
December . .	13	10·3	18	17·1	8	19·5	10	31·2	9	33·9	—	—

We have here a series of 58 monthly determinations from June 1841 to March 1846 inclusive, of which the arithmetical mean is $- 53^{\circ} 21' 1''$, corresponding to their middle period, or to November 1st, 1843. The probable error of the arithmetical mean is $\pm 0' 24''$; and the probable error of a single monthly determination is $\pm 1' 84''$.

Secular Change.—From each of the 58 monthly determinations we may derive an equation of the form $\theta' = \theta + a y$, in which θ is the most probable value of the Inclination on November 1st, 1843, θ' the observed Inclination in any other month, a the interval in months between the date of θ' and November 1st, 1843, and y the monthly variation occasioned by secular change, assumed to be uniform during the period in which the observations were made. Regarding each monthly determination as of equal weight (which is approximately but not strictly true), the 58 equations treated by the method of least squares give $\theta = - 53^{\circ} 21' 1''$, and $y = - 0' 454''$, equivalent to a mean secular increase of south dip in each year of $5' 45''$.

Annual Variation.—If we collect into separate means the monthly determinations between June 1841 and March 1846 which were obtained in the same month in different years, and which stand on the same horizontal line in Table XIX., we find them as follows:—

January	- 53 20' 84	corresponding to the middle of January 1844
February	- 53 21' 52	February 1844
March	- 53 21' 72	March 1844
April	- 53 22' 42	October 1843
May	- 53 20' 80	November 1843
June	- 53 18' 26	June 1843
July	- 53 18' 76	July 1843
August	- 53 19' 96	August 1843
September	- 53 21' 92	September 1843
October	- 53 22' 18	October 1843
November	- 53 22' 16	November 1843
December	- 53 22' 40	December 1843

From the investigation respecting secular change we obtain the equation $\theta' = - 53^{\circ} 21' 1'' - 0' 454'' a$ for the value of the inclination θ' at any required epoch, a being the difference expressed in months between November 1st, 1843, and the epoch for which θ' is required, a being positive when the epoch is later than November 1st, 1843, and negative when it is earlier. Employing this equation, we have the values of θ' by calculation at the epochs to which the means of the several months respectively correspond. The differences between these values, and the observed values, should

exhibit the annual variation, supposing there to be one, and that the observations were sufficiently accurate and sufficiently long continued to determine it.

TABLE XX.

MONTHS.	Computed Values $\theta' = - 53^{\circ} 21'.1$ $- 0'.454 a.$	Observed Values.	Observed Inclination greater (+) or less (-) than the computed.
January . .	$- 53^{\circ} 22'.23$	$- 53^{\circ} 20'.84$	$- 1'.39$
February . .	$- 53^{\circ} 22'.69$	$- 53^{\circ} 21'.52$	$- 1'.17$
March . .	$- 53^{\circ} 23'.14$	$- 53^{\circ} 21'.72$	$- 1'.42$
April . .	$- 53^{\circ} 20'.88$	$- 53^{\circ} 22'.42$	$+ 1'.54$
May . .	$- 53^{\circ} 21'.32$	$- 53^{\circ} 20'.80$	$- 0'.52$
June . .	$- 53^{\circ} 19'.06$	$- 53^{\circ} 18'.26$	$- 0'.80$
July . .	$- 53^{\circ} 19'.51$	$- 53^{\circ} 18'.76$	$- 0'.75$
August . .	$- 53^{\circ} 19'.98$	$- 53^{\circ} 19'.96$	$- 0'.02$
September . .	$- 53^{\circ} 20'.42$	$- 53^{\circ} 21'.92$	$+ 1'.50$
October . .	$- 53^{\circ} 20'.87$	$- 53^{\circ} 22'.18$	$+ 1'.31$
November . .	$- 53^{\circ} 21'.32$	$- 53^{\circ} 22'.16$	$+ 0'.84$
December . .	$- 53^{\circ} 21'.77$	$- 53^{\circ} 22'.40$	$+ 0'.63$

These results do not appear to afford a final conclusion in respect to annual variation. The observations of a much longer period, seven to eight years, at the Hobarton Observatory in Van Diemen Island, have given a tolerably consistent indication of the existence of an annual variation at that station, the south inclination being less when the sun is in the northern than when in the southern signs (Hobarton Mag. and Met. Observ., vol. i, p. lxxv.) If the monthly results at the Cape are collected into half-yearly means, the mean from April to September inclusive shews a smaller south inclination by $0'.36$, than the monthly mean during the half-year from October to March inclusive. But a satisfactory determination on a point of so much delicacy requires a longer continuance of careful observation than was afforded by the period during which the Cape Observatory was under the direction of the officers of the Royal Artillery, and will doubtless receive from Mr. Maclear at a later period its due consideration.

DIURNAL VARIATIONS OF THE INCLINATION AND TOTAL FORCE.

Having obtained, in pages xxxiii. to xl., and xliii. to xlix., the diurnal variation of the horizontal and vertical components of the Magnetic Force, we may derive from them the diurnal variations of their theoretical equivalents, the Inclination and the total Force.

The diurnal variations of the Horizontal and Vertical Force, on the mean of the whole year, brought into one view, are as follows:—

TABLE XXI.

Local Time.			Local Time.		
Hor. Force.	Vert. Force.		Hor. Force.	Vert. Force.	
h. m.			h. m.		
0 34	·00033	·00000	12 34	·00019	·00059
1 34	·00028	·00003	13 34	·00024	·00056
2 34	·00025	·00023	14 34	·00028	·00056
3 34	·00026	·00046	15 34	·00031	·00056
4 34	·00029	·00066	16 34	·00032	·00056
5 34	·00024	·00074	17 34	·00036	·00057
6 34	·00013	·00072	18 34	·00047	·00057
7 34	·00005	·00069	19 34	·00065	·00066
8 34	·00000	·00067	20 34	·00072	·00088
9 34	·00001	·00065	21 34	·00067	·00074
10 34	·00006	·00062	22 34	·00052	·00046
11 34	·00012	·00060	23 34	·00039	·00015

Hence, by the formula in page 13 of the Royal Society's Instructions, we have a minimum of (south) inclination and of the total force at the same hour, viz., 0^h 34^m; and the mean diurnal variation of the two elements is as follows, reckoned from the respective minima:—

TABLE XXII.

Local Time.			Local Time.		
Inclination.	Total Force.		Inclination.	Total Force.	
h. m.	'		h. m.	'	
0 34	0·00	·00000	12 34	1·20	·00033
1 34	0·13	·00000	13 34	1·07	·00033
2 34	0·51	·00012	14 34	1·00	·00034
3 34	0·87	·00027	15 34	0·95	·00035
4 34	1·15	·00041	16 34	0·94	·00035
5 34	1·36	·00044	17 34	0·89	·00038
6 34	1·51	·00039	18 34	0·71	·00041
7 34	1·60	·00034	19 34	0·56	·00054
8 34	1·64	·00031	20 34	0·71	·00066
9 34	1·60	·00030	21 34	0·66	·00060
10 34	1·46	·00030	22 34	0·44	·00036
11 34	1·33	·00031	23 34	0·14	·00012

These numbers show, — in respect to the Inclination, an increase of south dip from the minimum at 0^h 34^m to the maximum at 8^h 34^m, and from thence a decrease to the minimum at 0^h 34^m, with a very slight interruption about the hours of 19^h 34^m, 20^h 34^m, and 21^h 34^m,—and in respect to the total Force, an increase from the minimum at 0^h 34^m to a secondary maximum at 5^h 34^m, thence a diminution to a secondary minimum about 9^h 34^m; from this hour the increase is very slow until about 16^h 34^m, when it gains rapidly until the principal maximum is attained at 20^h 34^m. From this maximum to the minimum at 0^h 34^m is a continuous and rapid progression.

Tables XXIII. and XXIV. exhibit the mean diurnal variation of the Inclination and of the total Force for every month of the year, reckoned from their respective minima, the minimum of the Inclination being the smallest (south) dip occurring in the monthly means at any one of the observation hours ; Tables XXV. and XXVI. exhibit the differences of Inclination and total Force at each observation hour from the mean in each month. In all these tables the diurnal variation of the Inclination and of the total Force is also collected into half-yearly means, viz., from April to September inclusive, and from October to March inclusive.

In Plate V. these half-yearly means are projected, Fig. 4 representing the diurnal variation of the Inclination in opposite seasons, and Fig. 3 that of the total Force : and in Plates VI. and VII. the mean diurnal variation of the two elements in every month of the year is projected, that of the Inclination in Plate VI. and that of the total Force in Plate VII.

Directing our attention first to the half-yearly means of the Inclination (Plate V. Fig. 4), we perceive that the projection corresponding to the half-year from October to March is a single progression, the minimum of (south) dip occurring at $0^{\text{h}} 34^{\text{m}}$, and the maximum at $7^{\text{h}} 34^{\text{m}}$. The increase from the minimum to the maximum during the hours of the afternoon is comparatively rapid ; the decrease from the maximum is slow during the hours of the night, but is rapid from $20^{\text{h}} 34^{\text{m}}$ to $0^{\text{h}} 34^{\text{m}}$. The projection corresponding to the opposite season, or from April to September, exhibits on the other hand a double progression, two minima of nearly equal amount at $19^{\text{h}} 34^{\text{m}}$ and $0^{\text{h}} 34^{\text{m}}$, and two maxima, viz., a secondary maximum at $21^{\text{h}} 34^{\text{m}}$ and a principal maximum at $8^{\text{h}} 34^{\text{m}}$.

When, however, we examine the monthly projections as shewn in Plate VI., we perceive that the true character of the diurnal variation of the Inclination is but very imperfectly apprehended by viewing its half-yearly representation, and that there are many characteristic circumstances which are either partially or wholly masked in half-yearly means.

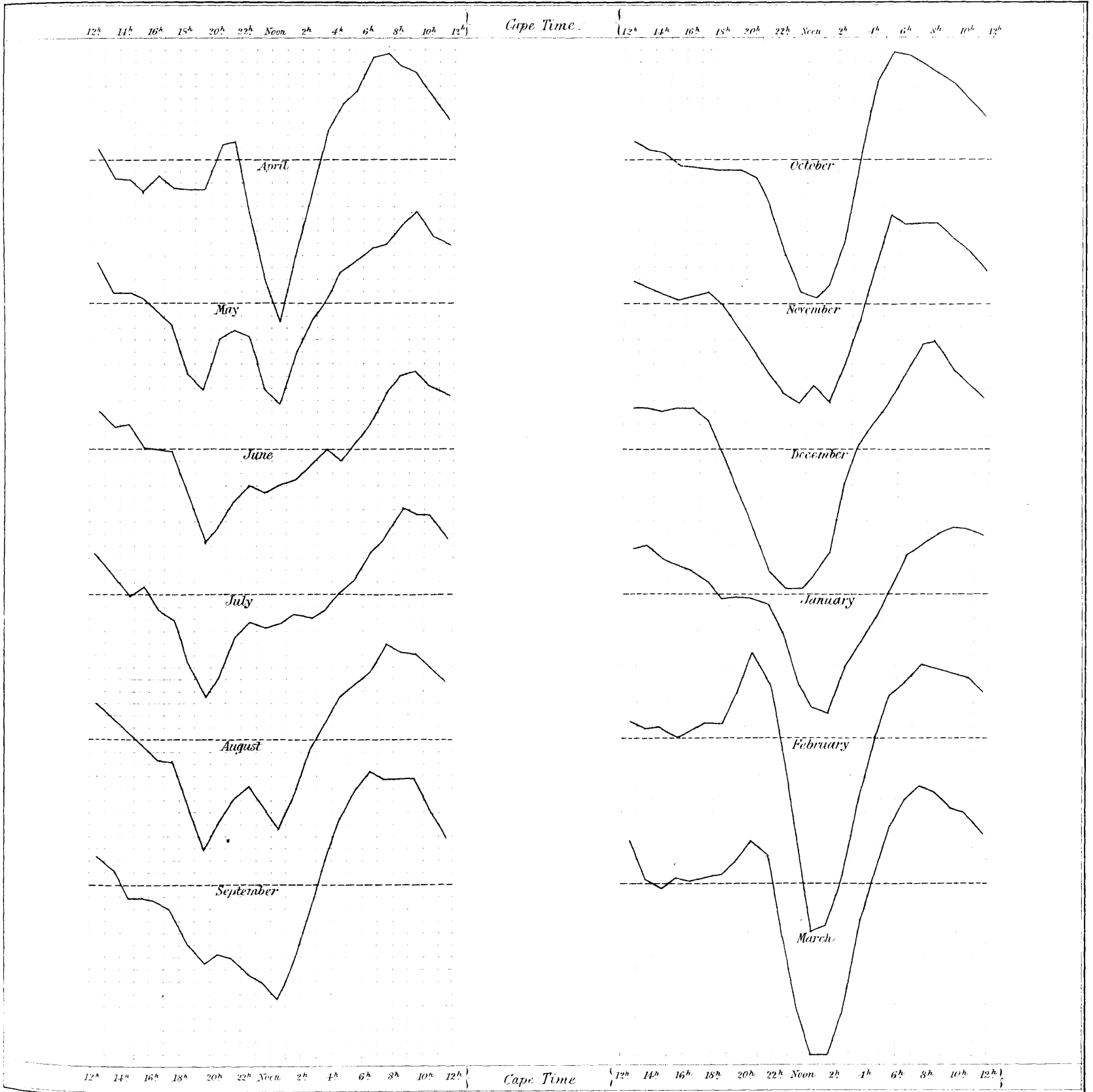
When the half-year from April to September is resolved into its constituent months, we perceive that the diurnal variation in June and July, omitting slight irregularities, is a single progression, having its minimum at $19^{\text{h}} 34^{\text{m}}$ with scarcely any trace of the minimum at or about $0^{\text{h}} 34^{\text{m}}$, which is so conspicuous in the half-year from October to March, and is a well-marked feature in the diurnal variation of every other month of the year except these two. April and September, on the other hand, exhibit also, with very slight irregularities, a single progression having its minimum at $0^{\text{h}} 34^{\text{m}}$, with scarcely any trace of the minimum at $19^{\text{h}} 34^{\text{m}}$; whilst May and August, intermediate between June and July, on the one hand, and April and September on the other, have well-characterized minima both at $19^{\text{h}} 34^{\text{m}}$ and $0^{\text{h}} 34^{\text{m}}$, being therefore the only months in the half-year from April to September which have the double progression indicated by the half-yearly projection in Plate V., Fig. 3.

Plate VI.

Diurnal Variation of the Inclination. Scale 1^m to 1 of Arc.

South Inclination ↓ *increasing.*

South Inclination ↓ *decreasing.*



Day & Con. 1840. in the Queen



There is also a peculiar feature in the projections for February and March which is masked in the half-yearly projection in which those months are included, viz., the minimum of (south) dip, commencing about 15 or 16 hours, and attaining a maximum at 20^h 34^m; this feature is most strongly marked in February, causing 20^h 34^m to be the hour of the principal maximum in that month; it is also seen in the April projection.

The hour of the afternoon maximum varies in different months; in October and November it occurs earliest, viz., at 5^h 34^m; in September at 6^h 34^m; in August, and also in February, March, and April, at 7^h 34^m; in July and December at 8^h 34^m; and in May, June, and January at 9^h 34^m.

The diurnal variation of the total Force exhibits much less dissimilarity of character at opposite seasons than that of the Inclination: the principal features occur during the hours of the day; the range is greater, and the turning points are generally earlier from October to March than from April to September. A rapid increase in the Force takes place in the early hours of the morning, commencing earliest, *i.e.*, about 14 or 15 hours, in December and January, and latest, *i.e.*, about 19 hours, in June and July. The maximum is reached earliest, viz., 19^h 34^m, in October, November, and December, and latest, viz., at 22^h, in July and August; the Force then decreases to a minimum, which occurs about an hour earlier generally in the half-year from October to March, *i.e.*, at 0^h 34^m, than in the half-year from April to September, *i.e.*, at 1^h 34^m, and is a very decided minimum in the half-year from October to March, including also April; whereas in other five months the minima in the early morning and in the early afternoon have nearly the same absolute value. From the minimum early in the afternoon, the Force increases in all months of the year to a secondary maximum a little before or after 5 hours; the decrease of Force from the secondary maximum to its mean amount during the hours of the night is comparatively slight. The extreme range of the diurnal variation of the total Force from October to April inclusive is about one-thousandth part of the Force itself; and from May to September about half that quantity. The greatest range is in February and March; the least in June and July.

TABLE XXIII.

Mean Diurnal Variation of the Inclination for the several Months of the Year, the lowest (South) Inclination occurring at any of the Observation Hours being taken as the Zero of the Month.

Cape of Good Hope Time. } 0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	11 ^h 34 ^m		
January . . .	0'04	0'00	0'37	0'58	0'78	1'01	1'29	1'39	1'47	1'55	1'52	1'47	January.
February . . .	0'00	0'04	0'48	1'11	1'60	1'96	2'06	2'20	2'18	2'15	2'10	1'98	February.
March . . .	0'00	0'00	0'43	1'08	1'47	1'88	2'11	2'23	2'18	2'05	2'00	1'82	March.
April . . .	0'00	0'51	1'06	1'58	1'80	1'93	2'19	2'23	2'13	2'08	1'90	1'67	April.
May . . .	0'00	0'38	0'69	0'87	1'09	1'17	1'30	1'32	1'50	1'60	1'40	1'33	May.
June . . .	0'48	0'52	0'65	0'78	0'68	0'81	0'98	1'24	1'37	1'41	1'29	1'22	June.
July . . .	0'60	0'66	0'63	0'71	0'84	0'94	1'17	1'29	1'54	1'50	1'50	1'29	July.
August . . .	0'18	0'45	0'84	1'08	1'27	1'37	1'45	1'70	1'65	1'62	1'52	1'39	August.
September . . .	0'00	0'25	0'69	1'14	1'47	1'71	1'86	1'80	1'81	1'81	1'53	1'30	September.
October . . .	0'00	0'10	0'53	1'19	1'78	2'03	2'01	1'93	1'86	1'77	1'62	1'52	October.
November . . .	0'14	0'00	0'31	0'67	1'13	1'55	1'45	1'48	1'48	1'33	1'25	1'08	November.
December . . .	0'11	0'29	0'87	1'22	1'38	1'53	1'78	2'01	2'04	1'81	1'69	1'56	December.
April to Sept. .	0'00	0'25	0'55	0'82	0'98	1'11	1'28	1'39	1'46	1'46	1'31	1'16	
Oct. to March	0'00	0'02	0'45	0'93	1'31	1'61	1'73	1'82	1'82	1'73	1'65	1'52	
Mean of the Year	0'00	0'14	0'50	0'87	1'14	1'36	1'51	1'61	1'64	1'59	1'48	1'34	

Cape of Good Hope Time. } 12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m		
January . . .	1'37	1'39	1'29	1'21	1'17	1'08	0'94	0'96	0'94	0'89	0'65	0'23	January.
February . . .	1'73	1'67	1'68	1'59	1'65	1'72	1'72	1'95	2'29	2'08	1'49	0'70	February.
March . . .	1'78	1'46	1'39	1'46	1'44	1'47	1'49	1'60	1'78	1'64	0'98	0'38	March.
April . . .	1'45	1'20	1'19	1'07	1'22	1'12	1'09	1'09	1'47	1'52	0'91	0'33	April.
May . . .	1'17	0'92	0'92	0'87	0'76	0'66	0'26	0'11	0'54	0'62	0'56	0'13	May.
June . . .	1'09	0'96	0'98	0'80	0'78	0'76	0'43	0'00	0'15	0'35	0'48	0'42	June.
July . . .	1'16	0'99	0'81	0'89	0'71	0'63	0'27	0'00	0'15	0'48	0'60	0'55	July.
August . . .	1'22	1'09	0'99	0'86	0'74	0'73	0'35	0'00	0'23	0'42	0'53	0'33	August.
September . . .	1'15	1'05	0'81	0'81	0'79	0'71	0'44	0'28	0'34	0'31	0'18	0'11	September.
October . . .	1'29	1'24	1'21	1'09	1'07	1'06	1'06	1'06	1'01	0'76	0'35	0'05	October.
November . . .	0'99	0'95	0'89	0'85	0'87	0'90	0'79	0'61	0'44	0'24	0'08	0'00	November.
December . . .	1'50	1'50	1'46	1'50	1'50	1'38	1'13	0'80	0'49	0'14	0'01	0'00	December.
April to Sept. .	1'00	0'83	0'74	0'67	0'62	0'56	0'26	0'04	0'27	0'41	0'33	0'10	
Oct. to March	1'39	1'32	1'27	1'23	1'23	1'22	1'14	1'11	1'11	0'91	0'54	0'18	
Mean of the Year	1'19	1'07	1'01	0'95	0'93	0'89	0'70	0'58	0'69	0'66	0'44	0'14	

INCLINATION AND TOTAL FORCE.

TABLE XXIV.

Mean Diurnal Variation of the Total Magnetic Force in the several Months of the Year, the least Force occurring at any one of the Observation Hours being taken as the Zero of the Month.

Cape of Good Hope Time.	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	11 ^h 34 ^m	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	000	003	018	030	040	047	047	039	036	037	040	043	January.
February . . .	003	000	020	046	069	082	075	071	067	069	070	071	February.
March . . .	000	004	023	048	067	076	071	065	060	060	062	062	March.
April . . .	000	017	040	058	069	071	068	065	060	059	059	060	April.
May . . .	002	000	007	018	035	037	034	027	024	022	020	020	May.
June . . .	006	000	001	014	028	029	025	020	016	013	009	009	June.
July . . .	010	003	004	014	030	031	026	021	016	011	008	006	July.
August . . .	029	014	007	010	027	035	028	024	019	016	018	017	August.
September . . .	007	000	004	014	021	026	019	014	012	011	010	011	September.
October . . .	000	010	033	057	070	063	052	047	046	047	047	049	October.
November . . .	000	004	020	036	048	056	046	043	042	043	043	046	November.
December . . .	000	003	015	029	037	035	033	029	027	026	028	031	December.
April to Sept. inclusive . . .	003	000	005	015	029	032	027	023	019	016	016	015	
Oct. to March inclusive . . .	000	003	021	040	054	059	053	048	045	046	047	049	
Mean of the whole Year. . .	002	002	013	028	042	046	040	036	032	031	032	032	

Cape of Good Hope Time.	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	045	048	049	050	052	061	071	080	078	056	028	005	January.
February . . .	073	074	078	076	077	079	091	115	126	105	061	025	February.
March . . .	067	065	065	065	065	066	078	102	116	091	044	008	March.
April . . .	061	059	060	063	062	060	066	084	102	093	060	021	April.
May . . .	021	019	019	019	019	018	013	027	055	063	050	019	May.
June . . .	008	006	007	007	008	007	002	003	028	041	036	017	June.
July . . .	005	006	007	008	007	006	000	005	027	043	042	023	July.
August . . .	016	017	016	014	013	010	000	011	044	062	064	046	August.
September . . .	013	013	015	014	013	008	000	018	045	057	046	023	September.
October . . .	051	056	056	057	057	060	073	089	086	061	026	005	October.
November . . .	049	052	055	056	061	074	090	096	081	053	021	006	November.
December . . .	034	035	038	041	046	060	072	075	065	042	013	000	December.
April to Sept. inclusive . . .	015	014	015	015	014	012	008	019	044	054	044	0 9	
Oct. to March, inclusive. . .	052	054	056	057	059	066	078	092	091	067	031	007	
Mean of the whole Year. . .	034	034	036	036	037	039	043	056	068	061	038	013	

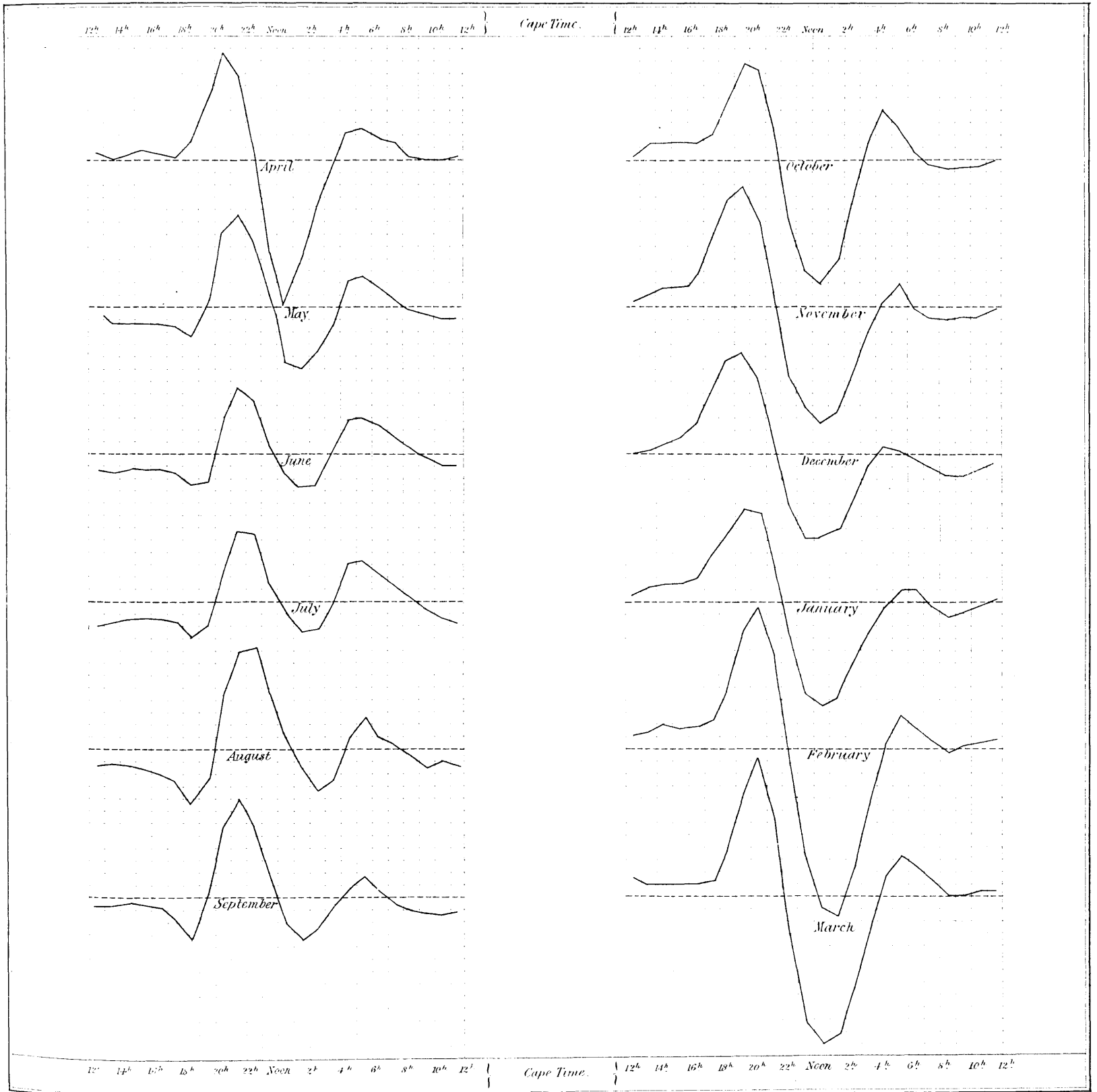
TABLE XXV.

Exhibits the Differences of the Inclination at each Observation Hour, from the Mean in the Month; the sign + implies that the Inclination is greater than in the mean position, and - that it is less.

Cape of Good Hope Time.	0 ^h 34 ^m	1 ^h 34 ^m	2 ^h 34 ^m	3 ^h 34 ^m	4 ^h 34 ^m	5 ^h 34 ^m	6 ^h 34 ^m	7 ^h 34 ^m	8 ^h 34 ^m	9 ^h 34 ^m	10 ^h 34 ^m	11 ^h 34 ^m	
January . . .	-0'94	-0'98	-0'61	-0'40	-0'20	+0'03	+0'31	+0'41	+0'49	+0'57	+0'54	+0'49	January.
February . . .	-1'59	-1'55	-1'11	-0'48	+0'01	+0'37	+0'47	+0'61	+0'59	+0'56	+0'51	+0'39	February.
March . . .	-1'42	-1'42	-0'99	-0'34	+0'05	+0'46	+0'69	+0'81	+0'76	+0'63	+0'58	+0'40	March.
April . . .	-1'36	-0'85	-0'30	+0'22	+0'44	+0'57	+0'83	+0'87	+0'77	+0'72	+0'54	+0'31	April.
May . . .	-0'84	-0'46	-0'15	+0'03	+0'25	+0'33	+0'46	+0'48	+0'66	+0'76	+0'56	+0'49	May.
June . . .	-0'30	-0'26	-0'13	0'00	-0'10	+0'03	+0'20	+0'46	+0'59	+0'63	+0'51	+0'44	June.
July . . .	-0'23	-0'17	-0'20	-0'12	+0'01	+0'11	+0'34	+0'46	+0'71	+0'67	+0'67	+0'46	July.
August . . .	-0'74	-0'47	-0'08	+0'16	+0'35	+0'45	+0'53	+0'78	+0'73	+0'70	+0'60	+0'47	August.
September . . .	-0'93	-0'68	-0'24	+0'21	+0'54	+0'78	+0'93	+0'87	+0'88	+0'88	+0'60	+0'37	September.
October . . .	-1'15	-1'05	-0'62	+0'04	+0'63	+0'88	+0'86	+0'78	+0'71	+0'62	+0'47	+0'37	October.
November . . .	-0'67	-0'81	-0'50	-0'14	+0'32	+0'74	+0'64	+0'67	+0'67	+0'52	+0'44	+0'27	November.
December . . .	-1'04	-0'86	-0'28	+0'07	+0'23	+0'38	+0'63	+0'86	+0'89	+0'66	+0'54	+0'41	December.
April to Sept. inclusive . . .	-0'73	-0'48	-0'18	+0'08	+0'25	+0'38	+0'55	+0'65	+0'72	+0'72	+0'58	+0'42	
Oct. to March, inclusive . . .	-1'14	-1'11	-0'69	-0'21	+0'17	+0'48	+0'60	+0'69	+0'68	+0'59	+0'51	+0'39	
Mean of the Year . . .	-0'93	-0'80	-0'43	-0'06	+0'21	+0'43	+0'57	+0'67	+0'70	+0'66	+0'55	+0'41	
Cape of Good Hope Time.	12 ^h 34 ^m	13 ^h 34 ^m	14 ^h 34 ^m	15 ^h 34 ^m	16 ^h 34 ^m	17 ^h 34 ^m	18 ^h 34 ^m	19 ^h 34 ^m	20 ^h 34 ^m	21 ^h 34 ^m	22 ^h 34 ^m	23 ^h 34 ^m	
January . . .	+0'39	+0'41	+0'31	+0'23	+0'19	+0'10	-0'04	-0'02	-0'04	-0'09	-0'33	-0'75	January.
February . . .	+0'14	+0'08	+0'09	0'00	+0'06	+0'13	+0'13	+0'36	+0'70	+0'49	-0'10	-0'89	February.
March . . .	+0'36	+0'04	-0'03	+0'04	+0'02	+0'05	+0'07	+0'18	+0'36	+0'22	-0'44	-1'04	March.
April . . .	+0'09	-0'16	-0'17	-0'29	-0'14	-0'24	-0'27	-0'27	+0'11	+0'16	-0'45	-1'03	April.
May . . .	+0'33	+0'08	+0'08	+0'03	-0'08	-0'18	-0'58	-0'73	-0'30	-0'22	-0'28	-0'71	May.
June . . .	+0'31	+0'18	+0'20	+0'02	0'00	-0'02	-0'35	-0'78	-0'63	-0'43	-0'30	-0'36	June.
July . . .	+0'33	+0'16	-0'02	+0'06	-0'12	-0'20	-0'56	-0'83	-0'68	-0'35	-0'23	-0'28	July.
August . . .	+0'30	+0'17	+0'07	-0'06	-0'18	-0'19	-0'57	-0'92	-0'69	-0'50	-0'39	-0'59	August.
September . . .	+0'22	+0'12	-0'12	-0'12	-0'14	-0'22	-0'49	-0'65	-0'59	-0'62	-0'75	-0'82	September.
October . . .	+0'14	+0'09	+0'06	-0'06	-0'08	-0'09	-0'09	-0'09	-0'14	-0'39	-0'80	-1'10	October.
November . . .	+0'18	+0'14	+0'08	+0'04	+0'06	+0'09	-0'02	-0'20	-0'37	-0'57	-0'73	-0'81	November.
December . . .	+0'35	+0'35	+0'31	+0'35	+0'35	+0'23	-0'02	-0'35	-0'66	-1'01	-1'14	-1'15	December.
April to Sept. inclusive . . .	+0'26	+0'09	+0'01	-0'06	-0'11	-0'18	-0'47	-0'70	-0'46	-0'32	-0'40	-0'63	
Oct. to March, inclusive . . .	+0'26	+0'18	+0'13	+0'10	+0'10	+0'08	0'00	-0'02	-0'02	-0'23	-0'59	-0'96	
Mean of the Year . . .	+0'26	+0'14	+0'07	+0'02	-0'01	-0'05	-0'23	-0'36	-0'24	-0'28	-0'50	-0'79	

Plate VII.

Diurnal Variation of the Total Force. Scale 1st to 0005 parts of the Force.
Force increasing. Force decreasing.



Dr. W. S. M. The...

INCLINATION AND TOTAL FORCE.

TABLE XXVI.

Exhibits the Differences of the Total Force at each Observation Hour from the Mean in the Month; the sign + implies that the Force is greater than in the mean position, and - that it is less.

Cape of Good Hope Time. } 0 ^h 34 ^m 1 ^h 34 ^m 2 ^h 34 ^m 3 ^h 34 ^m 4 ^h 34 ^m 5 ^h 34 ^m 6 ^h 34 ^m 7 ^h 34 ^m 8 ^h 34 ^m 9 ^h 34 ^m 10 ^h 34 ^m 11 ^h 34 ^m												
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . . .	-.042	-.039	-.024	-.012	-.002	+.005	+.005	-.003	-.006	-.005	-.002	+.001
February . . .	-.065	-.068	-.048	-.022	+.001	+.014	+.007	+.003	-.001	+.001	+.002	+.003
March . . .	-.060	-.056	-.037	-.012	+.007	+.016	+.011	+.005	.000	.000	+.002	+.002
April . . .	-.059	-.042	-.019	-.001	+.010	+.012	+.009	+.006	+.001	.000	.000	+.001
May . . .	-.023	-.025	-.018	-.007	+.010	+.012	+.009	+.002	-.001	-.003	-.005	-.005
June . . .	-.008	-.014	-.013	.000	+.014	+.015	+.011	+.006	+.002	-.001	-.005	-.005
July . . .	-.005	-.012	-.011	-.001	+.015	+.016	+.011	+.006	+.001	-.004	-.007	-.009
August . . .	+.006	-.009	-.016	-.013	+.004	+.012	+.005	+.001	-.004	-.007	-.005	-.006
September . . .	-.010	-.017	-.013	-.003	+.004	+.009	+.002	-.003	-.005	-.006	-.007	-.006
October . . .	-.050	-.040	-.017	+.007	+.020	+.013	+.002	-.003	-.004	-.003	-.003	-.001
November . . .	-.047	-.043	-.027	-.011	+.001	+.009	-.001	-.004	-.005	-.004	-.004	-.001
December . . .	-.034	-.031	-.019	-.005	+.003	+.001	-.001	-.005	-.007	-.008	-.006	-.003
April to Sept. inclusive . . .	-.017	-.020	-.015	-.004	+.009	+.013	+.008	+.003	-.001	-.004	-.005	-.005
Oct. to March, inclusive . . .	-.050	-.046	-.029	-.009	+.005	+.010	+.004	-.001	-.004	-.003	-.002	.000
Mean of the Year . . .	-.033	-.033	-.022	-.007	+.007	+.011	+.006	+.001	-.003	-.003	-.003	-.003

Cape of Good Hope Time. } 12 ^h 34 ^m 13 ^h 34 ^m 14 ^h 34 ^m 15 ^h 34 ^m 16 ^h 34 ^m 17 ^h 34 ^m 18 ^h 34 ^m 19 ^h 34 ^m 20 ^h 34 ^m 21 ^h 34 ^m 22 ^h 35 ^m 23 ^h 34 ^m												
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . . .	+.003	+.006	+.007	+.008	+.010	+.019	+.029	+.038	+.036	+.014	-.014	-.037
February . . .	+.005	+.006	+.010	+.008	+.009	+.011	+.023	+.047	+.058	+.037	-.007	-.043
March . . .	+.007	+.005	+.005	+.005	+.005	+.006	+.018	+.042	+.056	+.031	-.016	-.052
April . . .	+.002	.000	+.001	+.004	+.003	+.001	+.007	+.025	+.043	+.034	+.001	-.038
May . . .	-.004	-.006	-.006	-.006	-.006	-.007	-.012	+.002	+.030	+.038	+.025	+.006
June . . .	-.006	-.008	-.007	-.007	-.006	-.007	-.012	-.011	+.014	+.027	+.022	+.003
July . . .	-.010	-.009	-.008	-.007	-.008	-.009	-.015	-.010	+.012	+.028	+.027	+.008
August . . .	-.007	-.006	-.007	-.009	-.010	-.013	-.023	-.012	+.021	+.039	+.041	+.023
September . . .	-.004	-.004	-.002	-.003	-.004	-.009	-.017	+.001	+.028	+.040	+.029	+.006
October . . .	+.001	+.006	+.006	+.007	+.007	+.010	+.023	+.039	+.036	+.011	-.024	-.045
November . . .	+.002	+.005	+.008	+.009	+.014	+.027	+.043	+.049	+.034	+.006	-.026	-.041
December000	+.001	+.004	+.007	+.012	+.026	+.038	+.041	+.031	+.008	-.021	-.034
April to Sept. inclusive . . .	-.005	-.006	-.005	-.005	-.005	-.008	-.012	-.001	+.025	+.034	+.024	+.001
Oct. to March, inclusive . . .	+.003	+.005	+.007	+.007	+.009	+.017	+.029	+.043	+.042	+.018	-.018	-.042
Mean of the Year . . .	-.001	.000	+.001	+.001	+.002	+.005	+.008	+.021	+.033	+.026	+.003	-.020

SECULAR CHANGES.

The selection of the Cape of Good Hope as one of the stations for Magnetic Observatories was chiefly determined by the circumstance, that the Secular Changes of the magnetic elements at the Cape were considered to present features of peculiar interest. It may not be unsuitable therefore to notice briefly on the present occasion some of the most authentic determinations at earlier epochs, and to compare the Secular Changes deducible from them with those which are shown by the observations recorded in this volume, and by their continuation since the Observatory has been transferred from the department of the Ordnance to that of the Admiralty.

Declination.—From the period of the earliest observations of the Declination at the Cape of Good Hope, the north end of the needle has been moving progressively more and more towards the west. We find it recorded by Halley in the Phil. Trans. for 1692, that about the year 1600 the needle pointed due north and south at the Cape D'Agulhas, and that the Cape received its name from the Portuguese from that circumstance. The journals of our earliest English navigators to the East, preserved in Purchas, corroborate this observation of the Portuguese.

From its peculiar geographical position there are perhaps few localities on the globe where the progress of secular change can be more satisfactorily traced than at the Cape. I have collected in the following table the determinations which, from the character of the observers, appear most entitled to confidence, from the earliest recorded observations to the period when those contained in this volume commenced:—

TABLE XXVII.

EPOCHS.	OBSERVERS.	DECLINATIONS.	AUTHORITIES.
1605	Davis.	0° 30' E.	Purchas.
1609	Keeling.	0 12 W.	{ Purchas; and Hansteen, Anhang, 146.
1614	Pring.	1 30	Purchas.
1614	Daunton.	1 45	Purchas.
1622		2 00	Halley, Phil. Trans., 1683.
1675		8 00	Halley, Phil. Trans., 1683.
1675	Leydeker.	8 28	Hansteen. Anh. 24.
1691		11 00	Halley, Phil. Trans., 1692.
1721	Mathews.	16 25	Hansteen. Anh. 46.
1724	Mathews.	16 23	Hansteen. Anh. 50.
1751	La Caille.	19 15	Hist. d l'Acad. R., 1754.
1753	La Caille.	19 00	Hist. d l'Acad. R., 1754.
1768	Wallis.	19 30	Voyage in Hawkesworth.
1768	Carteret.	19 30	Voyage in Hawkesworth.
1770	Ekeberg.	19 10	Tr. R. Swed. Ac. of Sc., 1772.
1771	Cook.	20 30	Phil. Trans., 1771.
1772	Wales.	20 26	Astron. Observations.
1774	Ekeberg.	21 39	Tr. R. Swed. Ac. of Sc., 1775.
1774	Bayley.	21 36	Astron. Observations.

SECULAR CHANGES.

TABLE XXVII—*continued.*

EPOCHS.	OBSERVERS.	DECLINATIONS.	AUTHORITIES.
1775	Wales.	21 14	Astron. Observations.
1780	Cook.	22 16	Third Voyage.
1783	Lodberg.	22 23	Hansteen. Anh. 101.
1788	Bligh.	24 04	Voyage.
1791	Vancouver.	25 40	Voyage.
1792	Dentrecasteaux.	24 31	Voyage.
1818	Freycinet.	26 31	Voyage.
1836	Fitz Roy.	28 30	Voyage.
1839	Du Petit-Thouars.	29 09	Voyage.

The regularity of the progression is obvious on the first inspection of the table. If we take the year 1738 as a mean epoch, and calculate by least squares the Declination corresponding to that epoch, and the most probable value of the annual secular increase of west declination assuming it to have been uniform throughout the whole period, we obtain 16° 50' as the West Declination in the year 1738, and + 7'·56 as the annual secular change. The series of calculated and of observed values will then be as follows:—

TABLE XXVIII.

EPOCHS.	DECLINATIONS.		Differences, observed + or -	EPOCHS.	DECLINATIONS.		Differences, observed + or -
	Calculated.	Observed.			Calculated.	Observed.	
1605	+ 0 04	- 0 30	-0 34	1770	20 52	19 10	-1 42
1609	+ 0 35	+ 0 12	-0 23	1771	21 00	20 30	-0 30
1614	+ 1 12	+ 1 30	+0 18	1772	21 07	20 26	-0 41
1614	+ 1 12	+ 1 45	+0 33	1774	21 22	21 39	+0 17
1622	+ 2 13	+ 2 00	-0 13	1774	21 22	21 36	+0 14
1675	+ 8 54	+ 8 00	-0 54	1775	21 30	21 14	-0 16
1675	+ 8 54	+ 8 28	-0 26	1780	22 08	22 16	+0 08
1691	+10 54	+11 00	+0 06	1783	22 30	22 23	-0 07
1721	+14 41	+16 25	+1 44	1788	23 08	24 04	+0 56
1724	+15 04	+16 23	+1 19	1791	23 31	25 40	+2 09
1751	+18 29	+19 15	+0 46	1792	23 38	24 31	+0 53
1753	+18 45	+19 00	+0 15	1818	26 55	26 31	-0 24
1768	+20 37	+19 30	-1 07	1836	29 11	28 30	-0 41
1768	+20 37	+19 30	-1 07	1839	29 34	29 09	-0 25

From the comparison between the calculated and observed Declinations in this table, comprising a period of 234 years, it is obvious that the secular change at the Cape has been, if not strictly uniform, at least very nearly so, amounting on the average to an annual increase of about 7'·56 of west Declination.

The study of the direction which the lines of equal Declination follow in that part of the globe, and of the progressive movement of translation which they undergo

in consequence of the secular change, had however led to the belief that the epoch was approaching, when an order of the phenomena which had prevailed with so much regularity for so long a period would cease, and be succeeded by a secular change which should progress in the contrary direction. To determine with as much precision as might be possible the date of this epoch, and all circumstances connected with it, were amongst the motives which led to the selection of the Cape as a station. On the arrival in England of the first few months of the Declinometer Observations made under Captain Wilmot's superintendence, it became evident that the anticipated epoch had arrived: and that the West Declination was no longer increasing at the rate at which it had increased for nearly two centuries and a half. The comparisons of the fortnightly means in the years 1841 and 1842 exhibited indeed an actual *decrease* of West Declination, though of very small amount ($-0\cdot29$); and from 1842 to 1843, 14 out of 26 fortnightly means showed also a decrease, though on the average of the 26 fortnights in the year, the balance, in Declination value, was a very slight increase ($+0\cdot09$). The fortnightly means of the Declination from April 1841 to July 1846 furnish 104 comparisons between results separated one from another by a twelve month's interval, and these comparisons show that the mean secular change in each year during those five years was still an increase, but diminished from its former amount of $7\cdot56$ to $0\cdot49$. In addition to this general fact, a very remarkable minor feature was brought into notice by the system of observation so happily established under the auspices of the Royal Society: the increase of West Declination, so greatly diminished from what it had been in former years, appeared during the five years under consideration to be again slightly accelerating, its mean value in each year being as follows:—

From 1841 to 1842	$-0\cdot29$
1842 „ 1843	$+0\cdot09$
1843 „ 1844	$+0\cdot16$
1844 „ 1845	$+1\cdot21$
1845 „ 1846	$+1\cdot29$

An acceleration of this nature may not be inconsistent with the continuous translation of the declination lines from east to west, but may be occasioned by alterations which from time to time we perceive to take place in the general form of the lines, and which appears to be consequent on the unequal secular change of the two magnetic systems by which the magnetic lines in each hemisphere are governed. But whatever may hereafter prove to be the physical explanation, our present duty is to investigate and place on record all particulars connected with the fact itself; and in this view it appears desirable to take the present opportunity of stating the result of the continuation of the observations since the Observatory has been placed under Mr. Maclear's superintendence.

The maintenance of hourly observations during five years having furnished equations to mean monthly values (Table IX. page xxiii.) for observations taken at any of the hours of Göttingen Time, the number of observation hours was reduced in September 1846 from twenty-four to five in each day, the five retained being at the local hours of 17^h 34^m, 21^h 34^m, 1^h 34^m, 5^h 34^m and 9^h 34^m. The monthly means at each of these observation hours, for four years commencing with September 1846 and ending with August 1850, are given in Table XXIX.

TABLE XXIX.

One Scale Division = 0'.751. The 50th Scale Division corresponds to 29° 07'.6 West Declination. Increasing numbers denote decreasing West Declination, or a movement of the north end of the Magnet towards the East.

CAPE TIME.	1 ^h 34 ^m	5 ^h 34 ^m	9 ^h 34 ^m	17 ^h 34 ^m	21 ^h 34 ^m	CAPE TIME.	1 ^h 34 ^m	5 ^h 34 ^m	9 ^h 34 ^m	17 ^h 34 ^m	21 ^h 34 ^m
1846	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	1848	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
September .	47.67	47.78	47.08	48.74	44.60	September .	43.52	44.55	44.58	45.25	37.10
October .	48.60	46.84	46.99	46.90	41.66	October .	44.23	42.39	41.97	40.44	33.89
November .	48.13	46.65	46.74	44.35	40.38	November .	42.32	40.30	39.97	35.43	30.90
December .	46.98	46.82	47.46	43.58	42.20	December .	41.28	39.70	40.73	36.22	32.48
1847						1849					
January .	43.40	45.12	45.69	46.08	38.99	January .	40.83	40.83	39.95	36.06	31.04
February .	45.73	45.59	45.32	43.78	37.19	February .	40.49	40.34	39.28	36.38	30.36
March .	44.62	43.75	43.43	43.72	35.61	March .	40.36	39.60	39.74	36.89	27.88
April .	44.95	43.28	42.80	44.26	38.71	April .	40.78	39.22	38.39	38.02	28.89
May .	43.52	43.28	43.83	45.40	41.40	May .	40.30	40.41	40.09	40.93	34.28
June .	45.32	44.92	45.22	46.59	43.92	June .	40.47	40.60	40.43	41.82	38.96
July .	44.99	45.20	45.74	47.51	44.06	July .	40.01	40.95	41.26	42.79	39.05
August .	43.83	45.38	45.34	45.36	44.64	August .	39.23	41.13	41.13	42.88	37.33
September .	43.85	44.39	43.40	43.34	42.40	September*	41.17	40.46	40.51	42.36	35.53
October .	43.65	42.30	42.14	41.54	38.36	October .	42.90	40.26	39.87	39.83	33.62
November .	45.98	43.97	43.66	41.35	35.35	November .	39.13	36.55	37.05	33.80	29.56
December .	44.55	42.42	42.72	38.30	34.68	December .	38.21	36.82	36.53	33.94	27.97
1848						1850					
January .	43.77	43.53	43.17	40.18	36.06	January .	38.47	37.10	36.40	34.68	29.59
February .	40.31	40.35	39.15	39.18	35.61	February .	35.00	34.69	34.75	35.51	29.39
March*	41.10	41.36	40.40	40.85	36.72	March .	36.24	36.67	38.05	38.82	37.96
April*	41.89	42.37	41.65	42.52	37.83	April .	35.03	35.86	35.80	36.20	33.45
May .	42.68	43.39	42.90	44.20	38.94	May .	35.96	36.38	36.39	37.56	32.80
June .	43.75	44.22	44.77	45.35	41.94	June .	36.78	36.48	36.24	37.93	34.69
July .	42.58	43.45	43.33	44.81	39.83	July .	35.46	35.40	35.50	38.17	34.75
August .	41.70	44.11	43.81	45.48	39.70	August .	31.17	32.47	32.37	33.98	30.75

* Magnet resting on the damper (see page lxiv.); observations cancelled and values interpolated.

Applying to each of the monthly means in this table the equation from Table IX. corresponding to the hour of observation, and taking a general mean of the whole, we obtain $29^{\circ} 14' \cdot 6$ as the Declination corresponding to the middle period of the four years comprised by the observations, viz., September 1st, 1848. The general mean, as severally derived from the observations at the different hours, with and without the equations applied, is shewn in the following Table :—

TABLE XXX.

Observation Hours.		Means without the Equation.	Means with the Equation.
H.	M.	°	'
1	34	29	13·8
5	34	29	14·0
9	34	29	14·1
17	34	29	14·3
21	34	29	17·9
Means .		29	14·8
		29	14·6

Without the equations the result is $29^{\circ} 14' \cdot 8$, with a probable error of $0' \cdot 273$; with the equations applied, $29^{\circ} 14' \cdot 6$, with a probable error of $0' \cdot 016$.

During these four years the Declinometer was undisturbed, except on the 3rd of May 1848, when, in consequence of the magnet having become stationary, the external cases were removed by Mr. Maclear, and “the magnet found in contact with, if not resting upon, the copper damper. The magnet was raised about $\frac{1}{6}$ th of an inch by turning the upper suspension screw. The boxes were then cleaned, and restored. By tracing back the observations the contact appears to have commenced about the latter end of February.” The March and April observations have therefore been cancelled.

The suspension thread which had thus gradually elongated had been adjusted to a proper length on the 1st of May 1843; the elongation of the silk suspension is therefore a process which may go on for several years, and the direction of the plane of detorsion may be liable at almost any period to unsuspected derangements, if no mode of detecting them, such as is recommended in the 1st vol. of the Toronto Observations, page xi., be adopted. It is not probable, however, that any effects resulting from the stretching of the suspension thread in the Cape Declinometer should have been of sufficient importance to influence the conclusions on the subject now under notice.

Table XXXI. contains the Monthly Means for each month, derived from the five observation hours with the equations applied, during the four years from September 1846 to August 1850, together with the secular change derived therefrom.

SECULAR CHANGES.

TABLE XXXI.

MONTHS.	Mean Declination in each Month.					Annual increase (+), or decrease (-), of West Declination.			
	1846	1847	1848	1849	1850	1846 to 1847	1847 to 1848	1848 to 1849	1849 to 1850
	29° +.	29° +.	29° +.	29° +.	29° +.				
January . . .	—	12·13	14·06	16·76	18·63	—	+1·93	+2·70	+1·87
February . . .	—	12·38	15·83	16·95	19·62	—	+3·45	+1·12	+2·67
March . . .	—	13·18	14·91	16·97	17·00	—	+1·90	+1·90	+0·03
April . . .	—	12·86	13·99	17·17	18·52	—	+2·15	+2·15	+1·35
May . . .	—	11·95	13·07	15·49	17·58	—	+1·12	+2·12	+2·09
June . . .	—	10·99	11·13	14·55	17·57	—	+0·14	+3·42	+3·06
July . . .	—	10·79	12·82	14·31	18·04	—	+2·03	+1·49	+3·73
August . . .	—	11·21	12·53	14·65	20·79	—	+1·32	+2·12	+6·14
September . . .	9·52	12·23	12·65	14·50	—	+2·71	+0·42	+1·85	—
October . . .	10·29	13·74	14·51	15·47	—	+3·45	+0·77	+0·96	—
November . . .	11·01	13·40	16·61	18·54	—	+2·39	+3·21	+1·93	—
December . . .	10·93	14·59	16·43	18·98	—	+3·66	+1·84	+2·55	—
	Mean . . . 29° 14' 62					Mean . . . +2' 16			

We have therefore the secular change for different periods as follow :—

- From July 1841 to July 1846 (page viii.) + 0·49 annually.
- From January 1843 (Mean Declination 29° 06' 64, page ix.) to September 1st, 1848 (Mean Declination 29° 14' 62, page lxx.) + 1·41 annually.
- From September 1846 to August 31st, 1850 (page lxxv.) + 2·16 annually.

We find therefore in the results of the observations from 1486 to 1850, a confirmation of the conclusions drawn from the results obtained between 1841 and 1846, both in respect to the general diminution of the rate of secular increase of west declination from its amount in the preceding two centuries and upwards, and to its present slight acceleration.

Inclination.—I have not been able to find any earlier observations of the Inclination at the Cape of Good Hope than those of La Caille in 1751, but subsequent to that epoch there have been frequent satisfactory determinations, showing a progressive increase in the dip of the south end of the needle.

TABLE XXXII.

EPOCHS.	OBSERVERS.	INCLINATION.	AUTHORITIES.
1751	La Caille.	— 43 00	Hist. de l'Acad. R. 1754.
1770	Ekeberg.	— 44 25	Tr. R. Swed. Ac. of Sc. 1772.
1774	Bayley.	— 45 37	Astronomical Observations.
1774	Ekeberg.	— 44 29	Tr. R. Swed. Ac. of Sc. 1775.
1775	Wales.	— 45 19	Astronomical Observations.
1775	Abercrombie.	— 46 21	Phil. Trans. 1778.
1776	Bayley.	— 46 31	Astron. Observations.
1780	Bayley.	— 46 46	Cook's 3rd Voyage.
1791	Vancouver.	— 48 30	Voyage.
1792	Dentrecasteaux.	— 47 25	Voyage.
1818	Freycinet.	— 50 47	Voyage.
1836	Fitz Roy.	— 52 35	Voyage.
1839	Du Petit-Thouars.	— 53 06	Voyage.
1840	Ross.	— 53 08	MSS.

If we take the year 1790 as a mean epoch, and calculate by least squares the Inclination corresponding to that epoch, and the most probable value of the secular increase, assuming it to have been uniform throughout, we obtain — $47^{\circ} 27'$ as the Inclination corresponding to the year 1790, and $6' \cdot 94$ as the annual secular increase. The series of calculated and observed values will be in such case as follows:—

TABLE XXXIII.

EPOCHS.	SOUTH INCLINATION.		Differences; observed + or -
	Calculated.	Observed.	
1751	42 56	43 00	+ 0 04
1770	45 08	44 25	- 0 43
1774	45 36	45 37	+ 0 01
1774	45 36	44 29	- 1 07
1775	45 43	45 19	- 0 24
1775	45 43	46 21	+ 0 38
1776	45 49	46 31	+ 0 42
1780	46 17	46 46	+ 0 29
1791	47 34	48 30	+ 0 56
1792	47 41	47 25	- 0 16
1818	50 42	50 47	+ 0 05
1836	52 46	52 35	- 0 11
1839	53 07	53 06	- 0 01
1840	53 14	53 08	- 0 06

The secular change derived from the observations of the Inclination recorded in this volume between the years 1841 and 1846 is an annual increase of $5' \cdot 45$.

Early in 1851 Mr. Maclear received from Woolwich a new Inclinator constructed with the most recent improvements, amongst which may be especially named the addition of verniers and compound microscopes. In a letter, dated February 14th, 1851, he writes as follows:—"I have taken the Dip circle under my personal charge for the present, that I may from experience ascertain the results that ought always to be expected from it. The following results are pretty coincident for a beginning:—

TABLE XXXIV.

Date.	Needle.	Inclination.	Date.	Needle.	Inclination.
D. H.		° /	D. H.		° /
Feb. 4 10 A.M.	1	- 53 57·76	Feb. 8 4 P.M.	1	- 53 58·66
5 9 A.M.	1	- 54 02·56	10 7 A.M.	1	- 53 58·62
6 10 A.M.	1	- 54 00·29	10 6 P.M.	1	- 54 00·15
6 4 P.M.	1	- 54 00·57	14 7 A.M.	2	- 54 04·88
7 8 A.M.	1	- 53 58·19	14 10 A.M.	2	- 54 02·97
7 6 P.M.	1	- 53 58·80	14 4 P.M.	1	- 53 58·36
8 10 A.M.	1	- 53 59·57			

“ Each result is derived from the usual number of observations in the eight positions of the needle. I was rather startled this morning (February 14th) on finding No. 2 needle gave $4\frac{1}{2}'$ greater than the mean of the preceding results. My next letter may throw some light upon the axle corrections. Both needles will be employed for the future. I cannot well before the middle of March make the experiments in different azimuths for the axle correction.” The eleven results with needle 1 give a mean of $-53^{\circ} 59' \cdot 4$: the two with needle 2 a mean of $-54^{\circ} 03' \cdot 9$; there is probably a small correction due to the axle of one of the needles or of both: until this correction has been ascertained, a mean between the two ($-54^{\circ} 01' \cdot 6$), is perhaps the most probable result at which we can arrive: it corresponds to the epoch of February, 1851.

We have therefore three results of secular change corresponding to different epochs, as follows:—

From 1751 to 1840, annual increase of south Inclination	. . .	6·94
From 1841 to 1846	„ „ „ . . .	5·45
From November 1, 1843 (Inclination $-53^{\circ} 21' \cdot 1$, page li) to February	} 5·58	
1851 (Inclination $-54^{\circ} 01' \cdot 6$, page lxvii.)		

It is probable therefore that the annual rate of increase of South Inclination is somewhat less at present, and has been so from 1841 to 1851, than it was on the average of the 90 preceding years.

Horizontal Force.—Very soon after the establishment of the Observatories it became obvious that the Bifilar Magnetometer could not be thoroughly relied upon for investigations of the secular change of the Horizontal Force, and apparatus was prepared at Woolwich, and sent to the Colonial Observatories, to accomplish that object by means of measures of the Absolute Horizontal Force obtained periodically. The apparatus was received at the Cape in 1843, but does not appear to have been taken into continuous and systematic employment until November 1846, although it was occasionally used, as already stated, in the quarterly determinations in 1843 and 1844, and in the monthly determinations for a part of 1845, discussed in pages xxiv. and xxv. A weekly series with this apparatus with the magnet No. V., of 3·67 inches in length, was commenced by Mr. Smalley in November 1846, and was continued with very few and slight interruptions until January 1849, when it appears to have been discontinued for some months; the series was again resumed in July 1849, the observations being made fortnightly during July, August, and September, 1849, and weekly from October 1849 to February 1850 inclusive. Mr. Smalley’s deflections were always observed at two distances, 1·2 and 1·3 feet, and the coefficient P computed by Captain Young-husband from the whole series is stated in page xxv. The resulting values of the Horizontal Force are contained in the following table:—

TABLE XXXV.

DATE.	Values of the Absolute Horizontal Force.			DATE.	Values of the Absolute Horizontal Force.				
	Distances.		Means.		Distances.		Means.		
	1·2 Feet.	1·3 Feet.			1·2 Feet.	1·3 Feet.			
1846				1847					
November	4	4·5105	4·5101	4·5103	May	12	4·5068	4·5043	4·5056
		4·5141	4·5105	4·5123			4·5059	4·5034	4·5047
	11	4·5128	4·5122	4·5125		19	4·5050	4·5028	4·5039
		4·5063	4·5023	4·5043		26	4·5090	4·5051	4·5071
	18	4·5160	4·5166	4·5163	June	2	4·5022	4·5064	4·5043
		4·5091	4·5085	4·5088		9	4·5104	4·5083	4·5094
	25	4·5138	4·5136	4·5137		16	4·5109	4·5086	4·5098
		4·5140	4·5121	5·5131		23	4·5117	4·5087	4·5102
December	2	4·5127	4·5104	4·5115		30	4·5080	4·5103	4·5092
		4·5115	4·5104	4·5110	July	7	4·5083	4·5008	4·5076
	9	4·5125	4·5120	4·5123		14	4·5080	4·5059	4·5070
	16	4·5125	4·5114	4·5120		21	4·5095	4·5067	4·5081
		4·5113	4·5113	4·5113		28	4·5091	4·5079	4·5085
	23	4·5144	4·5128	4·5136	August	4	4·5089	4·5070	4·5080
		4·5106	4·5086	4·5096		11	4·5074	4·5051	4·5063
	30	4·5139	4·5142	4·5141		18	4·5097	4·5074	4·5086
		4·5132	4·5133	4·5133		25	4·5073	4·5031	4·5052
1847				1848					
January	6	4·5089	4·5090	4·5090	September	1	4·5046	4·5027	4·5037
	13	4·5127	4·5127	4·5127		8	4·5027	4·4996	4·5012
		4·5116	4·5096	4·5106		15	4·5036	4·5000	4·5018
	20	4·5185	4·5160	4·5173		22	4·5031	4·5009	4·5020
		4·5114	4·5085	4·5099		29	4·5001	4·4982	4·4992
February	4	4·5051	4·5048	4·5050	October	6	4·5019	4·4986	4·5003
		4·5033	4·5025	4·5029		13	4·4994	4·4971	4·4983
	10	4·5058	4·5043	4·5051		20	4·4983	4·4955	4·4969
	17	4·5107	4·5097	4·5102		27	4·4976	4·4940	4·4958
		4·5069	4·5068	4·5069	November	3	4·4978	4·4955	4·4967
	24	4·5085	4·5077	4·5081		10	4·4985	4·4974	4·4980
March	3	4·5032	4·5061	4·5047		17	4·4976	4·4950	4·4963
		4·5056	4·5059	4·5058		24	4·4951	4·4923	4·4937
	10	4·5032	4·5018	4·5028	December	1	4·4958	4·4945	4·4952
		4·5014	4·4996	4·5005		8	4·4961	4·4939	4·4950
	17	4·5084	4·5046	4·5065		15	4·4959	4·4933	4·4946
		4·5063	4·5058	4·5061		22	4·4972	4·4958	4·4965
	24	4·5076	4·5061	4·5069		29	4·4961	4·4951	4·4956
		4·5046	4·5063	4·5055	1848				
	31	4·5086	4·5083	4·5085	January	5	4·4956	4·4940	4·4948
		4·5066	4·5088	4·5077		12	4·4965	4·4932	4·4949
April	7	4·5032	4·5008	4·5020		19	4·4975	4·4952	4·4964
		4·5039	4·5009	4·5024		26	4·4973	4·5006	4·4990
	14	4·5046	4·5006	4·5026	February	2	4·4906	4·4889	4·4898
		4·5027	4·4999	4·5013		9	4·4945	4·4912	4·4929
	21	4·5051	4·5015	4·5033		16	4·4931	4·4898	4·4915
		4·5005	4·4997	4·5001		23	4·4915	4·4901	4·4908
	28	4·5076	4·5036	4·5056	March	1	4·4957	4·4942	4·4950
		4·5066	4·5039	4·5053		8	4·4923	4·4896	4·4910
May	5	4·5062	4·5032	4·5047		15	4·4917	4·4898	4·4908
		4·5035	4·5006	4·5021		22	4·4969	4·4955	4·4962
						29	4·4976	4·4947	4·4962

TABLE XXXV—continued.

DATE.	Values of the Absolute Horizontal Force.			DATE.	Values of the Absolute Horizontal Force.		
	Distances.		Means.		Distances.		Means.
	1·2 Feet.	1·3 Feet.			1·2 Feet.	1·3 Feet.	
1848				1849			
April 5	4·4937	4·4928	4·4933	January 3	4·4906	4·4886	4·4896
„ 12	4·4932	4·4908	4·4920	„ 10	4·4878	4·4873	4·4876
„ 19	4·4964	4·4933	4·4949	„ 17	4·4916	4·4892	4·4904
„ 26	4·4982	4·4950	4·4966	„ 24	4·4925	4·4894	4·4910
May 3	4·4931	4·4925	4·4928	„ 31	4·4935	4·4917	4·4926
„ 10	4·4999	4·4963	4·4981	July 11	4·5030	4·4981	4·5006
„ 17	4·4997	4·4966	4·4982	„ 25	4·5050	4·5026	4·5038
„ 24	4·4998	4·4991	4·4995	August 1	4·5019	4·4995	4·5007
June 7	4·4976	4·4953	4·4965	„ 15	4·5015	4·5004	4·5010
„ 14	4·5018	4·4998	4·5008	„ 29	4·4995	4·4978	4·4987
„ 21	4·5002	4·4983	4·4993	September 5	4·5000	4·4970	4·4985
„ 28	4·4999	4·4981	4·4990	„ 19	4·4971	4·4954	4·4963
July 5	4·4937	4·4931	4·4934	„ 26	4·4967	4·4945	4·4956
„ 12	4·4941	4·4917	4·4929	October 3	4·4979	4·4937	4·4954
„ 19	4·4958	4·4934	4·4946	„ 10	4·4961	4·4950	4·4956
„ 26	4·4948	4·4915	4·4932	„ 17	4·4957	4·4908	4·4933
August 2	4·5008	4·4981	4·4995	„ 24	4·4929	4·4911	4·4920
„ 9	4·4963	4·4937	4·4950	November 7	4·4947	4·4906	4·4927
„ 16	4·4984	4·4960	4·4972	„ 14	4·4936	4·4920	4·4928
„ 23	4·5002	4·4970	4·4986	„ 21	4·4960	4·4841	4·4901
„ 30	4·4977	4·4945	4·4961	„ 28	4·4990	4·4959	4·4975
September 6	4·4977	4·4953	4·4965	December 5	4·4927	4·4910	4·4919
„ 13	4·4956	4·4934	4·4945	„ 12	4·4966	4·4930	4·4948
„ 20	4·4980	4·4958	4·4969	„ 19	4·4949	4·4930	4·4940
„ 27	4·4990	4·4971	4·4981	„ 26	4·4975	4·4940	4·4958
October 4	4·4893	4·4884	4·4889	1850			
„ 11	4·4912	4·4893	4·4903	January 2	4·4819	4·4790	4·4760
„ 18	4·4930	4·4896	4·4913	„ 9	4·4800	4·4776	4·4788
„ 25	4·4920	4·4889	4·4905	„ 30	4·4834	4·4824	4·4829
November 1	4·4860	4·4847	4·4854	February 6	4·4815	4·4786	4·4800
„ 8	4·4895	4·4927	4·4911	„ 13	4·4840	4·4825	4·4833
„ 22	4·4815	4·4803	4·4809	„ 20	4·4815	4·4798	4·4806
„ 29	4·4850	4·4830	4·4840	„ 27	4·4916	4·4758	4·4837
December 6	4·4874	4·4852	4·4863				
„ 13	4·4856	4·4836	4·4846				
„ 20	4·4912	4·4880	4·4896				
„ 27	4·4895	4·4880	4·4888				

In this Table we have a series of 35 monthly determinations, apparently strictly comparable with each other, and extending, with occasional interruptions, from November 1846 to February 1850 inclusive; they are shewn in the following table:—

TABLE XXXVI.

Date.	Horizontal Force.	Date.	Horizontal Force.	Date.	Horizontal Force.
1846 Nov..	4·5114	1847 Nov..	4·4962	1848 Nov..	4·4853
,, Dec..	4·5121	,, Dec..	4·4953	,, Dec..	4·4873
1847 Jan..	4·5119	1848 Jan..	4·4962	1849 Jan..	4·4902
,, Feb..	4·5064	,, Feb..	4·4912	,, July.	4·5021
,, March	4·5055	,, March	4·4938	,, Aug..	4·5000
,, April	4·5028	,, April	4·4942	,, Sept..	4·4967
,, May.	4·5047	,, May.	4·4971	,, Oct..	4·4940
,, June.	4·5085	,, June.	4·4989	,, Nov..	4·4932
,, July.	4·5078	,, July.	4·4935	,, Dec..	4·4944
,, Aug..	4·5070	,, Aug..	4·4973	1850 Jan..	4·4807
,, Sept..	4·5016	,, Sept..	4·4965	,, Feb..	4·4819
,, Oct..	4·4978	,, Oct..	4·4902		

Taking July 1848 as a mean epoch, and giving equal weight to all the monthly determinations, we have 4·4969 as the value of the horizontal force at the mean epoch, and ·0061 as the rate of annual decrease between November 1846, and February 1850.

The value 4·4969 must still be regarded as in a slight degree provisional, and subject to corrections which it may hereafter receive on the return of the magnet to Woolwich, when its moment of inertia will be more perfectly determined, and its correction for terrestrial induction ascertained.

Total Force, Absolute Value, and Secular Change.—In page li. we have the Inclination corresponding to November 1st, 1843, $-53^{\circ} 21' 1$, and in page lxxvii. its value corresponding to February 1851, $-54^{\circ} 01' 6$; from these data we have the Inclination corresponding to July 1848, $= -53^{\circ} 47' 1$. Combining this value of the Inclination with that of the horizontal Force corresponding to the same epoch ($=4\cdot4969$), we obtain 7·611 as the value of the total Force in absolute measure in July 1848.

The mean annual increase of south Inclination in the interval between November 1843, and February 1851, has been shewn to be $5' 58$; assuming the total Force to be constant, the horizontal Force should have diminished, on account of the increase of the Inclination, by a quantity equal to 0·0100 annually. The diminution derived from Mr. Smalley's observations between November 1846 and February 1850, is 0 0061 annually; according to Mr. Smalley's determination, therefore, the secular increase of the total Force in the same period is 0·0066 in absolute measure.

We have no determination of the total Force in absolute measure at the Cape of Good Hope at an earlier period than that of the establishment of the magnetic Observatory. The results obtained by the quarterly determinations in 1843 and 1844

with the same apparatus employed by Mr. Smalley, are unfortunately too discordant with each other to be available for the present purpose; the monthly series in 1845, from February to June inclusive, is however far more satisfactory in the agreement of the partial results, and it is only to be regretted that it should not have commenced earlier, or have been continued later. The mean of the five determinations of this series (corresponding to April 1845) is 4·5158; Mr. Smalley's series would give for the same epoch $4\cdot4969 - 3\cdot25\cdot y = 4\cdot5167$, y being the annual change = $-0\cdot0061$; the agreement is so far a confirmation of the value assigned by Mr. Smalley's series to the secular change of the horizontal Force, and consequently of the value assigned to the secular change of the total Force. The investigation will be resumed by Mr. Smalley's successor. It is obvious that the method is sufficient for the accomplishment of the object, and that perseverance alone is required. The apparatus with which Mr. Maclear has recently been furnished is in many respects superior to that which Mr. Smalley employed; it reached the Cape in January 1851.

Annual Variation of the Horizontal Force.—Mr. Smalley's consecutive series of monthly determinations in 1847 and 1848 may be combined in such manner as to shew the influence of Annual Variation in the opposite seasons of the year, irrespective of the amount of secular change. Thus, in 1847, the average of the first three and of the last three months, is 4·5022, and of the six middle months, 4·5054; the six middle months, or those from April to September inclusive, having an average excess of ·0032. Again, in 1848 the average of the first three and of the last three months is 4·4907, and of the six middle months, 4·4962; the six middle months showing again an excess from April to September, amounting on this occasion to a monthly average of ·0055. This is a converse effect to that which takes place at Hobarton, where the absolute Horizontal Force has been found to be less on the average of the months from April to September than from October to March.

If we compare the observed monthly values in Mr. Smalley's complete series from November 1846, to February 1850 (Table XXXVI.) with the values computed by the formula $X' = X + a y$, in which X is 4·4969 corresponding to July 1848, y the monthly secular change — ·000509, and a the interval in months from July 1848, negative if before, and positive if after, the mean epoch; we have the residual quantities shown in Table XXXVII.

TABLE XXXVII.

MONTHS.	OBSERVED VALUES IN EXCESS OR DEFECT.					MEAN.
	1846	1847	1848	1849	1850	
January .	—	+·0058	-·0038	-·0037	-·0071	-·0022
February .	—	+·0008	-·0083	—	-·0054	-·0043
March .	—	+·0005	-·0052	—	—	-·0023
April .	—	-·0017	-·0043	—	—	-·0030
May .	—	+·0007	-·0009	—	—	-·0001
June .	—	+·0050	+·0014	—	—	+·0032
July .	—	+·0048	-·0034	+·0113	—	+·0042
August .	—	+·0045	+·0009	+·0097	—	+·0050
September .	—	-·0004	+·0006	+·0069	—	+·0024
October .	—	-·0037	-·0052	+·0047	—	-·0014
November .	+·0043	-·0048	-·0096	+·0044	—	-·0014
December .	+·0055	-·0052	-·0071	+·0061	—	-·0002

If we examine the final column, which contains the means of the partial results, we find the evidence of the existence of Annual Variation quite as clear and systematic as we could have any reason to expect in so short a period of observation. The average monthly defect in the Horizontal Force from October to March inclusive is ·00197 in absolute measure; and the average monthly excess from April to September inclusive is ·00195.

In what proportions the Annual Variations of the Horizontal Force is due to Annual Variations of the Inclination and of the total Force, remains to be investigated by the observations of Mr. Smalley's successor. The observations of the Inclination between June 1841 and March 1846, discussed in pages l. to lii., indicate a probability that the South Inclination at the Cape of Good Hope is less in the months from April to September inclusive, than in those from March to October inclusive; and so far is in accordance with an increase of the Horizontal Force from April to September, as compared with the other six months. But it is needless to discuss probabilities when certainty is likely to be soon obtained.

EDWARD SABINE.

Woolwich, July 31, 1851.

CAPE OF GOOD HOPE, 1841 to 1846.

MAGNETICAL OBSERVATIONS.

CAPE OF GOOD HOPE, 1841. MAGNETICAL OBSERVATIONS.

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. Increasing Numbers denote increasing Easterly Declination.														
Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^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.	
APRIL.	1	50.2	54.2	54.2	52.0	52.1	52.0	52.5	52.5	51.6	53.0	46.7	47.0	51.50
	2	54.0	54.3	52.6	52.0	52.0	52.6	51.9	51.5	51.3	51.0	46.2	46.4	51.32
	3	50.6	52.6	51.0	51.7	51.5	51.2	—	—	—	—	—	—	50.15
	4	—	—	—	—	—	—	—	49.0	50.5	49.3	44.4	49.8	50.57
	5	51.6	54.5	51.2	51.8	51.5	52.0	51.7	50.8	50.3	49.5	45.1	46.8	50.54
	6	55.4	53.0	52.1	51.7	52.2	52.1	52.2	51.0	50.4	47.5	42.4	46.5	51.32
	7	53.5	54.6	52.2	52.1	52.1	52.3	52.7	52.9	51.9	51.2	43.6	46.7	50.68
	8	51.5	52.5	53.0	51.7	51.0	51.3	52.0	51.3	51.1	50.2	44.0	48.6	50.49
	9	52.8	54.3	52.1	51.5	51.4	51.7	51.9	51.9	52.0	50.0	43.6	42.7	50.73
	10	50.7	53.6	53.0	51.5	52.0	52.1	—	—	—	—	—	—	50.05
	11	—	—	—	—	—	—	49.3	50.8	52.9	51.7	46.2	45.0	50.07
	12	49.1	51.7	50.8	50.6	49.9	50.5	52.7	50.8	51.2	49.8	45.8	47.7	51.78
	13	53.5	53.4	51.4	49.0	51.0	45.9	51.0	51.9	53.1	50.4	44.3	45.9	51.15
	14	50.5	53.6	52.9	51.5	51.5	51.4	51.4	52.5	57.6	53.6	48.6	46.2	51.13
	15	50.2	52.4	51.7	51.7	52.4	51.9	51.9	52.3	52.4	51.8	47.6	47.5	51.42
	16	51.4	52.2	52.5	51.3	51.9	50.8	50.5	51.0	53.4	52.7	48.8	47.1	49.88
	17	52.6	54.1	53.0	51.9	48.7	49.9	—	—	—	—	—	—	50.30
	18	—	—	—	—	—	—	54.7	51.0	52.8	50.0	51.2	47.1	51.32
	19	50.2	49.9	47.5	48.8	50.2	48.5	47.8	51.6	52.1	53.6	50.2	48.2	50.01
	20	51.0	49.8	49.6	46.3	47.8	47.9	50.1	51.9	54.2	56.3	50.5	48.2	50.45
	21	51.4	51.6	50.5	50.0	50.1	50.8	51.8	52.1	54.5	51.9	50.7	50.5	50.25
	22	51.0	51.9	51.6	49.6	49.1	49.3	49.5	50.7	50.5	52.0	48.0	46.9	51.18
	23	49.0	51.1	51.0	50.0	50.6	50.5	51.9	53.0	52.0	51.1	47.5	47.7	51.63
	24	43.5	52.3	51.0	51.0	50.9	49.8	—	—	—	—	—	—	51.76
	25	—	—	—	—	—	—	49.3	53.3	50.9	53.4	49.5	48.1	—
	26	50.8	52.0	52.8	51.0	51.0	50.4	49.6	51.0	51.8	52.9	51.4	49.5	—
	27	52.8	51.9	52.5	51.6	51.7	51.3	51.0	53.4	52.2	51.5	50.5	49.1	—
	28	49.7	52.6	53.2	52.2	52.0	50.7	51.0	51.7	52.5	53.5	50.3	51.7	—
	29 ^a	51.5	52.9	52.0	51.4	52.1	51.0	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	51.12	52.67	51.81	50.94	51.02	50.70	51.24	51.66	52.22	51.58	47.38	47.54	50.70	
MAY.	1	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	—
	5	50.7	53.4	52.6	51.9	52.2	51.9	51.1	53.6	60.5	51.5	47.4	48.9	52.14
	6	50.3	52.4	49.5	49.4	48.0	46.8	52.2	51.2	51.6	51.6	47.7	41.9	49.38
	7	48.8	50.5	50.3	51.2	51.1	51.2	51.8	52.8	51.4	50.3	47.7	45.7	50.23
	8	51.4	53.0	53.0	52.0	51.8	51.9	—	—	—	—	—	—	52.26
	9	—	—	—	—	—	—	53.4	50.2	55.2	55.4	51.8	48.0	48.06
	10	50.3	47.1	—	43.9	43.2	45.8	49.6	53.1	51.3	51.5	49.1	43.8	51.40
	11	47.2	51.5	52.3	54.0	51.5	52.2	52.2	52.7	52.1	51.1	50.3	49.7	51.03
	12	51.3	54.6	52.3	50.5	49.0	50.6	51.1	50.3	51.1	53.7	52.0	45.8	50.53
	13	48.1	50.4	51.5	50.0	50.3	51.0	51.0	50.9	51.9	52.0	51.5	47.8	51.22
	14	49.3	50.5	52.5	51.4	51.2	50.4	50.4	52.4	52.1	53.5	52.0	48.9	52.07
	15	52.3	52.6	52.2	51.8	51.5	51.5	—	—	—	—	—	—	50.23
	16	—	—	—	—	—	—	51.9	51.8	53.2	53.8	52.5	49.7	49.64
	17	51.1	50.6	48.0	47.8	48.9	48.9	50.4	51.0	52.0	53.7	52.0	48.4	50.94
	18	47.8	50.4	51.2	47.0	48.8	48.1	49.2	50.9	51.2	52.9	50.7	47.5	51.33
	19	51.6	51.1	50.8	50.4	50.8	50.7	50.0	54.7	52.2	52.7	49.8	46.5	51.05
	20	50.7	52.2	51.0	50.2	50.1	50.9	51.2	52.4	51.7	53.3	51.7	50.6	—
	21	51.4	53.4	50.9	49.5	50.1	49.2	49.7	52.1	53.4	54.4	51.5	47.0	—
	22 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—
	23 ^c	—	—	—	—	—	—	45.1	47.6	46.0	46.8	46.6	42.2	—
	24	44.4	45.5	45.4	45.2	46.0	46.0	46.5	46.7	47.3	48.1	48.9	46.0	46.33
	25	46.2	46.8	46.5	45.9	46.6	47.0	47.1	48.0	48.2	49.3	49.4	46.0	47.25
	26	47.5	49.0	49.0	48.0	47.9	48.5	49.6	49.8	48.8	50.9	48.9	45.9	48.65
	27	48.5	48.1	48.0	47.1	47.0	48.0	48.6	50.0	48.8	50.1	51.6	48.2	48.67
	28	46.7	49.4	49.6	49.0	49.5	46.3	48.1	48.3	50.6	51.8	50.3	45.2	48.73
	29 ^c	46.9	49.9	50.1	50.1	50.6	50.8	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	49.17	50.59	50.33	49.35	49.34	49.41	50.01	50.98	51.46	51.83	50.16	46.84	48.55	

^a Omitted in the means.

^b Instrument adjusted.

^c Omitted in the daily means.

CAPE OF GOOD HOPE, 1841. MAGNETICAL OBSERVATIONS.

DECLINATION.														
Zero Scale Division = 50, corresponding to 29° 07'·6 East.														
Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^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.	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	—	—	—	—	—	47·6	48·1	48·8	49·3	48·3	—	—	
	3	49·7	52·3	51·5	51·2	51·1	50·5	51·7	52·9	54·9	52·7	51·6	50·0	51·68
	4	52·3	53·3	51·2	51·9	52·0	57·5	52·6	54·1	54·4	56·8	53·7	49·9	53·31
	5	50·9	52·9	52·8	52·2	52·9	53·4	—	—	—	—	—	—	53·07
	6	—	—	—	—	—	—	53·9	53·4	55·1	54·3	54·4	50·6	—
	7	52·7	53·9	52·9	51·9	52·0	52·0	52·1	56·5	54·9	55·2	55·7	51·6	53·45
	8	52·6	55·0	54·3	53·3	53·4	53·6	53·1	53·1	53·3	54·9	55·7	52·0	53·69
	9	52·1	54·3	53·5	52·8	51·8	53·3	55·4	54·7	54·5	58·1	55·0	52·2	53·98
	10	53·5	54·5	54·0	54·0	54·0	53·8	54·0	54·2	54·6	54·7	55·5	51·8	54·05
	11	54·9	55·9	55·5	53·9	54·0	54·3	54·6	54·9	56·9	55·4	56·5	52·0	54·90
	12	52·6	54·5	55·0	53·6	54·2	54·2	—	—	—	—	—	—	53·53
	13	—	—	—	—	—	—	51·4	54·7	54·9	54·4	53·2	49·6	—
	14	51·9	53·5	53·6	53·5	53·3	54·8	55·4	55·1	56·1	55·7	54·9	52·5	54·19
	15	55·1	54·8	52·7	52·2	53·0	50·0	57·2	52·7	55·4	54·9	55·1	52·9	53·83
	16	53·8	53·7	52·7	51·3	52·2	54·0	53·2	54·9	54·6	55·5	55·6	51·8	53·61
	17	54·0	52·3	53·0	52·1	51·6	50·0	51·8	54·2	58·4	56·9	57·0	51·7	53·58
	18	52·0	52·6	51·0	50·2	51·5	47·2	54·1	54·3	52·3	54·5	54·6	51·5	52·15
	19	52·5	50·9	52·3	52·0	52·8	53·2	—	—	—	—	—	—	52·68
	20	—	—	—	—	—	—	53·2	52·0	53·2	54·1	54·5	51·3	—
	21	53·6	56·1	54·0	53·2	53·6	54·3	55·5	55·0	54·7	54·5	56·9	52·7	54·51
	22	54·4	53·8	53·4	53·4	54·5	53·4	54·9	55·4	54·5	54·0	55·7	51·6	54·08
	23	54·9	52·4	52·6	52·6	53·1	52·3	54·2	54·0	52·9	53·6	54·9	51·7	53·27
	24	51·8	54·2	53·0	52·1	52·2	52·6	52·8	54·8	52·1	54·3	54·3	52·7	53·08
	25	55·0	51·4	52·3	51·2	52·0	53·2	51·8	55·0	56·4	55·2	53·7	51·1	53·19
	26	50·1	52·9	55·1	52·3	53·1	52·9	—	—	—	—	—	—	53·49
	27	—	—	—	—	—	—	56·9	53·7	54·9	54·7	54·4	50·9	—
	28	50·7	54·2	53·5	53·0	53·5	53·8	53·2	55·2	54·2	50·5	55·0	51·7	53·21
	29	51·1	53·0	53·8	53·1	53·1	51·9	55·5	53·7	54·0	58·6	55·6	53·6	53·92
	30 ^a	51·1	54·0	52·7	52·2	53·0	53·8	—	—	—	—	—	—	—
Hourly Means	52·64	53·60	53·18	52·47	52·83	52·92	53·59	54·02	54·42	54·70	54·66	51·62		
JULY.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	—	—	—	—	—	50·3	54·0	51·1	50·6	51·2	47·7	—	
	3	49·1	50·4	49·9	49·5	49·1	50·2	—	51·5	52·1	51·4	52·1	50·9	50·38
	4	—	—	—	—	—	—	51·5	52·1	51·4	52·1	50·9	48·4	51·38
	5	49·9	52·8	52·2	50·9	50·1	51·3	52·1	51·0	50·3	51·4	54·0	50·6	52·26
	6	52·1	54·4	51·7	50·3	51·3	52·0	53·1	52·0	53·2	54·6	52·7	49·7	51·85
	7	50·5	55·0	52·2	51·2	50·8	51·3	52·0	52·6	53·2	53·6	51·4	48·4	52·14
	8	50·7	52·0	52·2	52·0	52·3	52·7	52·7	53·2	53·8	53·1	52·6	48·4	53·02
	9	50·5	54·0	53·0	52·5	53·0	53·2	53·9	53·5	53·7	53·4	54·1	51·4	53·56
	10	53·0	54·9	54·0	53·0	53·4	54·5	—	—	—	—	—	—	53·93
	11	—	—	—	—	—	—	52·7	54·1	54·3	56·5	53·0	49·3	52·04
	12	50·5	51·3	52·8	52·5	53·0	53·1	53·1	53·8	54·4	55·5	54·6	50·5	52·77
	13	50·5	52·1	52·0	51·8	52·0	51·0	52·0	52·5	54·3	54·7	53·0	49·3	51·57
	14	51·7	54·5	53·4	52·3	52·7	52·9	52·9	51·6	53·5	53·9	53·0	50·8	52·15
	15	50·0	49·0	49·4	50·2	50·5	52·1	53·0	51·9	54·0	56·5	52·4	49·8	53·13
	16	50·9	52·9	51·2	51·3	52·4	52·9	53·5	53·1	53·0	53·5	53·0	48·1	52·68
	17	50·1	53·8	52·5	52·4	53·1	53·5	—	—	—	—	—	—	51·48
	18	—	—	—	—	—	—	53·4	53·9	53·7	54·6	57·0	49·6	52·39
	19	49·6	51·2	54·2	52·7	52·6	53·0	53·1	50·7	56·6	50·9	55·1	52·5	52·44
	20	52·1	50·8	50·7	50·4	50·6	46·6	52·7	53·0	55·2	53·7	52·0	50·0	52·52
	21	53·7	53·0	51·3	50·2	52·3	52·4	52·7	51·7	56·2	52·0	52·8	50·4	52·50
	22	52·2	51·9	51·6	50·7	51·3	51·7	52·6	53·9	52·5	53·1	55·8	52·0	52·30
	23	51·2	51·5	53·0	52·0	52·1	51·4	50·4	50·5	53·5	53·8	56·9	54·0	53·03
	24	53·0	52·8	51·0	50·6	49·7	51·0	—	—	—	—	—	—	52·73
	25	—	—	—	—	—	—	53·9	54·2	55·0	55·9	54·0	48·9	52·79
	26	49·8	53·0	53·0	51·0	51·5	52·5	52·8	53·5	54·5	53·0	53·0	50·0	53·10
	27	52·0	53·1	54·0	52·0	52·1	52·9	54·1	55·0	54·7	54·9	53·3	48·3	—
	28	49·8	52·0	53·0	51·6	52·8	51·8	52·8	53·5	53·7	55·7	55·0	51·0	—
	29	50·5	52·0	52·9	52·4	52·2	52·0	52·6	54·8	53·6	54·9	55·0	50·6	—
	30	50·2	54·0	53·0	52·9	52·3	52·2	53·6	53·9	54·1	55·6	55·0	50·4	—
	31 ^a	49·9	54·8	54·4	53·0	53·8	54·0	—	—	—	—	—	—	—
Hourly Means	50·94	52·69	52·34	51·58	51·88	52·09	52·70	52·96	53·74	53·90	53·60	50·00		

Omitted in the daily means.

CAPE OF GOOD HOPE, 1841. MAGNETICAL OBSERVATIONS.

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. Increasing Numbers denote increasing Easterly Declination.														
Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^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.	
AUGUST.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3 ^a	—	—	—	—	—	48.0	51.4	51.1	52.8	55.8	52.2	—	
	4	49.3	49.8	50.5	49.7	49.4	50.5	50.9	51.6	51.4	53.1	52.3	48.1	50.55
	5	48.7	52.0	50.9	51.2	50.5	49.5	49.9	50.4	51.1	53.0	57.9	53.8	51.57
	6	51.6	55.0	49.2	46.8	44.1	47.8	44.5	48.2	48.0	49.0	52.1	51.9	49.02
	7	50.9	50.5	50.0	49.8	49.8	50.0	—	—	—	—	—	—	—
	8	—	—	—	—	—	—	51.5	51.6	53.0	53.5	53.0	48.4	51.00
	9	48.8	51.0	52.0	51.9	52.1	52.2	50.9	51.5	52.2	53.4	53.6	49.1	51.56
	10	47.6	50.1	52.5	52.1	52.0	52.8	52.8	53.0	—	54.5	52.2	48.8	51.67
	11	48.9	51.5	52.9	51.8	52.0	51.5	50.4	50.2	54.7	55.5	57.5	52.8	52.48
	12	49.1	50.2	49.8	51.2	52.0	51.2	53.1	53.2	53.1	54.3	53.0	49.8	51.67
	13	50.5	52.6	53.8	52.5	53.0	52.7	53.4	53.9	54.1	55.2	54.3	51.5	53.12
	14	52.9	54.0	54.5	53.6	54.3	54.5	—	—	—	—	—	—	—
	15	—	—	—	—	—	—	52.4	53.0	49.8	55.9	55.1	50.2	53.35
	16	51.0	53.0	53.4	50.3	52.3	50.9	52.3	51.4	55.4	55.9	55.7	51.0	52.72
	17	50.0	52.5	52.0	52.0	50.7	52.0	52.2	52.7	54.7	55.8	54.4	49.0	52.33
	18	49.8	51.2	53.0	52.0	52.4	52.8	52.7	52.9	53.4	54.6	53.4	47.4	52.13
	19	51.9	53.3	52.5	52.0	52.8	53.0	53.6	53.7	54.5	53.2	52.5	49.9	52.74
	20	50.2	53.5	54.2	53.0	52.6	53.1	53.4	54.6	54.1	54.9	50.1	45.2	52.41
	21	48.3	53.6	54.0	53.2	53.4	52.0	—	—	—	—	—	—	—
	22	—	—	—	—	—	—	53.8	55.2	57.5	57.1	55.8	50.4	53.69
	23	52.4	54.0	53.0	52.0	49.5	49.8	51.6	55.5	54.2	57.2	58.0	47.9	52.93
	24	49.1	50.4	53.0	52.2	52.7	53.2	53.8	55.6	54.3	54.6	52.1	47.5	52.37
	25	48.4	52.5	54.2	53.0	53.0	53.0	54.2	56.5	56.9	56.5	52.9	49.0	53.34
	26	51.8	52.1	53.4	51.7	51.4	51.1	48.0	48.0	52.0	54.0	53.2	49.0	51.31
	27	53.1	55.0	53.2	53.6	53.0	52.1	51.6	55.7	53.0	56.1	55.0	51.2	53.55
	28	50.8	52.1	53.5	53.0	53.0	52.2	—	—	—	—	—	—	—
	29	—	—	—	—	—	—	51.2	53.0	52.9	54.2	56.0	49.0	52.58
	30	49.4	51.6	52.5	51.8	52.3	52.9	53.1	53.5	53.5	56.7	53.2	50.8	52.61
	31	51.9	54.0	53.3	52.9	53.9	53.5	55.5	53.0	52.7	56.0	53.8	49.8	53.36
Hourly Means	50.27	52.31	52.55	51.80	51.76	51.85	51.95	52.83	53.33	54.26	54.05	49.65		
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 .	12 ^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.	
OCTOBER.	1	54.5	55.3	—	54.0	53.0	52.0	52.1	52.7	52.2	52.6	52.2	52.7	52.6
	2 ^b	53.8	55.0	—	—	—	53.2	53.3	53.9	53.6	53.5	53.5	53.4	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	53.5
	4	55.0	56.5	56.1	54.1	52.9	52.0	50.0	51.9	52.0	52.8	52.9	53.1	53.1
	5	53.0	54.3	55.0	54.9	53.0	52.2	52.4	53.0	53.0	53.5	53.3	53.2	54.7
	6	52.4	53.8	55.0	55.4	54.5	53.0	52.8	53.1	50.0	51.0	51.0	51.2	52.2
	7	54.0	56.2	56.1	55.4	53.8	52.0	52.6	53.2	53.6	53.8	52.8	51.9	55.0
	8	55.5	56.8	56.5	55.1	54.5	52.5	52.2	47.9	46.5	49.0	50.4	50.4	50.5
	9	54.9	55.1	55.0	55.5	52.8	53.2	53.2	52.0	53.2	52.9	56.0	51.0	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	11	50.9	53.5	55.3	55.0	53.8	52.8	52.8	53.0	53.0	51.5	53.0	53.9	53.0
	12	55.0	55.7	54.5	53.8	53.0	52.7	52.0	52.8	53.2	53.1	53.1	53.0	53.0
	13	54.0	55.2	55.9	55.4	54.0	53.0	53.3	53.4	53.9	53.7	51.0	52.7	53.0
	14	56.4	55.9	55.2	54.9	54.1	53.6	53.8	53.4	53.9	53.1	53.0	51.4	52.8
	15	55.0	55.5	53.8	52.8	52.5	52.2	52.0	51.0	51.0	52.9	53.3	53.0	53.2
	16	53.0	55.4	55.0	54.4	53.3	52.5	51.0	52.8	52.0	53.8	53.0	52.5	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	52.3
	18	53.3	55.0	54.8	54.5	53.9	53.0	50.0	53.0	53.9	53.0	53.0	53.0	53.5
	19	53.9	55.9	56.2	55.5	54.4	53.4	51.5	53.9	54.0	52.3	53.0	52.4	53.8
	20	54.0	55.0	55.9	55.9	54.9	53.1	52.4	53.4	53.0	53.9	54.0	53.2	53.7
	21	54.3	55.7	55.2	54.0	53.0	53.0	52.0	49.8	50.7	52.0	52.5	53.0	53.0
	22	54.0	54.7	54.9	54.9	54.1	53.8	53.8	54.0	54.0	54.0	54.0	54.0	53.8
	23	53.6	54.0	53.2	53.2	53.2	53.4	53.5	53.4	53.0	53.1	53.3	53.0	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	55.0
	25	55.1	57.9	63.1	54.4	54.9	54.6	50.9	51.8	45.0	49.4	48.2	51.3	51.0
	26	51.8	52.6	55.0	54.0	52.0	48.0	50.4	51.1	50.9	52.8	53.2	52.3	52.5
	27	55.9	56.0	55.1	53.8	52.2	52.0	51.8	52.1	52.5	53.0	53.0	53.0	53.4
	28	53.9	54.4	55.0	54.0	53.0	51.0	52.0	51.5	51.5	52.0	52.8	54.0	54.7
	29	56.1	57.8	57.2	56.0	55.0	54.2	54.0	54.0	52.4	53.9	54.4	54.3	54.0
	30	53.1	55.5	56.3	55.0	53.8	53.2	53.5	53.8	54.2	54.8	54.0	54.0	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	53.7
Hourly Means	54.09	55.33	55.64	54.64	53.58	52.68	52.28	52.53	52.16	52.75	52.84	52.73	53.19	

^a Omitted in the means.

^b Omitted in the daily means.

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 East.

Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^h .	Means.	
SEPTEMBER.	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.	
	1 ^a	50·6	52·4	50·7	51·6	52·0	50·6	51·8	52·9	53·7	55·4	—	—	
	2	48·1	50·4	52·4	52·8	53·2	51·2	51·8	54·6	54·4	58·1	52·8	47·5	52·27
	3	50·0	53·0	52·8	52·7	52·0	52·8	52·4	53·0	54·0	55·9	54·0	48·3	52·58
	4	49·8	53·5	54·4	53·0	53·4	54·0	—	—	—	—	—	—	52·97
	5	—	—	—	—	—	—	54·1	54·1	54·0	55·2	51·9	48·2	—
	6	51·5	54·9	54·5	53·5	53·9	54·0	54·4	54·9	54·4	55·6	51·3	47·1	53·33
	7	49·0	52·3	53·2	52·3	53·0	53·4	53·9	54·0	55·2	54·3	50·2	46·0	52·23
	8	47·0	50·9	53·8	53·1	53·8	53·8	54·3	54·3	54·2	55·0	51·8	48·4	52·53
	9	50·0	53·4	55·5	53·9	54·0	53·2	53·2	53·5	53·3	54·0	51·4	48·0	52·78
	10	48·4	54·2	53·6	53·2	53·6	53·8	53·2	53·3	53·4	54·5	51·7	50·1	52·75
	11	51·8	52·4	52·8	52·9	53·2	53·3	—	—	—	—	—	—	—
	12	—	—	—	—	—	—	52·5	50·4	50·8	52·0	53·4	53·4	52·41
	13	53·2	51·0	49·2	50·0	52·2	51·2	52·0	51·8	52·6	54·5	54·4	49·0	51·76
	14	50·5	50·0	51·2	50·9	51·0	50·8	52·0	52·0	53·1	54·0	50·1	46·8	51·03
	15	50·1	52·8	52·4	51·5	51·9	52·6	51·6	52·2	51·8	54·2	50·4	—	51·96
	16	50·9	54·4	53·0	52·3	52·0	52·0	52·2	52·0	54·0	52·2	49·5	47·0	51·79
	17	51·9	55·1	52·9	50·9	52·4	52·2	53·3	52·5	53·4	54·0	48·7	46·7	52·00
	18	50·0	53·8	52·1	51·6	52·5	51·9	—	—	—	—	—	—	—
	19	—	—	—	—	—	—	52·2	53·0	53·0	53·6	49·5	46·4	51·63
	20	47·0	51·0	51·8	51·9	50·8	50·0	52·8	55·0	53·9	54·4	51·4	47·9	51·49
	21	50·2	53·8	52·0	52·0	53·0	52·9	53·5	54·0	54·0	55·2	52·2	48·8	52·63
	22	51·2	53·5	53·0	52·8	52·4	53·5	52·5	53·0	53·2	54·5	52·3	52·5	52·87
	23	54·0	56·5	54·5	53·9	54·4	54·2	54·4	53·5	53·6	54·2	52·6	50·9	53·89
	24	53·0	55·3	54·0	52·2	47·5	46·8	46·1	45·2	54·6	60·1	53·8	54·6	51·93
	25	48·0	53·5	43·1	45·6	41·0	41·4	—	—	—	—	—	—	—
	26	—	—	—	—	—	—	50·0	50·9	50·2	50·4	46·5	44·1	47·06
	27	50·0	53·1	48·2	50·4	49·0	50·0	52·5	52·8	50·7	52·9	46·5	46·9	50·25
	28	46·9	53·5	51·0	50·2	49·0	50·5	52·0	52·6	50·5	50·5	49·3	51·6	50·63
	29	53·2	55·0	51·6	50·0	50·0	50·8	50·8	50·9	52·2	51·0	48·9	50·2	51·21
30	55·0	55·2	51·6	51·5	51·8	52·0	53·9	54·5	51·0	51·0	47·9	47·0	51·87	
Hourly Means	50·43	53·26	52·13	51·80	51·65	51·65	52·44	52·73	53·05	54·10	50·90	48·64	51·31	
OCTOBER.	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.	
	1	52·5	51·9	51·9	51·8	51·6	51·8	51·3	48·4	46·4	48·1	52·0	—	51·90
	2 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—
	3	53·5	53·0	53·7	54·0	53·0	54·5	52·9	53·0	50·0	48·0	50·7	—	—
	4	52·0	52·5	53·0	52·3	52·7	53·4	53·1	50·5	48·3	—	49·2	—	52·58
	5	53·0	55·0	54·3	51·5	51·0	51·0	49·8	48·0	46·2	49·2	51·2	—	52·32
	6	52·0	51·5	51·5	53·0	52·0	50·9	50·1	49·4	49·1	49·9	51·4	—	51·93
	7	52·0	51·9	51·4	51·8	51·8	52·0	50·0	57·5	46·8	47·9	52·0	—	52·73
	8	49·0	51·8	50·0	50·4	50·0	50·4	49·2	49·1	50·8	52·9	53·5	—	51·45
	9	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	52·2	54·0	53·0	54·2	53·4	50·9	46·4	45·1	45·0	47·0	48·0	—	51·91
	11	53·0	53·3	52·9	52·2	51·6	49·6	47·6	47·0	47·1	49·4	52·2	—	51·98
	12	52·8	52·6	52·0	52·3	52·2	52·1	50·9	50·8	50·1	51·5	52·4	—	52·64
	13	52·0	52·0	51·3	50·1	51·0	49·2	47·2	46·7	49·0	50·9	53·7	—	52·15
	14	54·7	54·7	53·9	55·5	53·8	54·0	52·9	50·0	49·0	51·8	55·1	—	53·62
	15	52·9	52·4	53·0	52·0	51·8	50·4	48·0	47·2	46·3	48·0	50·8	—	51·71
	16	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	53·0	53·4	53·2	53·0	52·4	51·2	48·4	47·6	48·2	49·5	51·6	—	52·19
	18	53·5	52·8	52·8	52·8	53·0	53·0	50·8	47·9	47·1	48·8	51·0	—	52·40
	19	53·9	56·2	52·9	52·9	52·0	52·0	49·6	47·0	47·0	48·2	50·5	—	52·60
	20	52·4	52·0	54·0	53·0	53·1	52·4	56·3	52·8	49·9	49·8	53·4	—	53·40
	21	53·3	53·2	52·2	52·5	52·2	50·9	49·4	49·0	50·0	52·0	52·9	—	52·33
	22	53·7	52·1	51·2	52·0	51·6	50·1	48·3	46·2	47·0	50·0	51·9	—	52·42
	23	—	—	—	—	—	—	—	—	—	—	—	—	—
	24	54·6	53·5	52·0	53·0	50·0	49·0	48·0	51·0	51·2	53·0	55·4	—	52·73
	25	55·9	53·9	50·9	49·0	49·0	49·6	47·9	46·6	45·6	46·7	49·2	—	51·33
	26	53·7	54·1	51·8	51·0	50·4	48·7	47·4	47·4	48·3	50·8	53·7	—	51·41
	27	54·4	52·1	50·0	51·3	49·5	51·3	50·1	47·5	58·5	50·8	52·0	—	52·55
	28	55·0	53·7	53·2	52·0	50·9	48·4	46·3	47·0	48·9	51·5	54·0	—	52·11
	29	54·9	54·0	53·0	52·2	51·9	50·2	49·0	48·8	49·0	50·0	51·1	—	53·22
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
31	54·0	53·4	53·0	53·1	52·6	51·6	49·7	46·9	46·5	48·1	50·0	—	52·74	
Hourly Means	53·23	53·12	52·39	52·27	51·71	51·10	49·64	48·78	48·51	49·75	51·88	—	52·62	

^a Omitted in the means.

^b Omitted in the daily means.

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. Increasing Numbers denote increasing Easterly 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 .	12 ^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.	
NOVEMBER.	1	53.4	55.7	56.8	56.0	54.5	53.5	58.8	54.2	54.0	54.4	55.0	54.8	54.0
	2	54.2	56.2	56.5	56.0	55.0	53.4	53.5	53.9	53.4	54.5	54.2	55.0	54.4
	3	53.4	56.0	56.9	56.1	55.0	54.1	54.0	54.3	54.3	54.5	54.9	55.0	55.1
	4	54.1	54.0	55.6	57.0	55.0	55.0	54.3	53.9	52.6	53.9	52.9	53.9	54.6
	5	54.5	55.9	56.9	55.8	54.8	53.9	53.8	53.4	50.2	49.2	49.4	53.6	51.0
	6	56.1	56.0	53.8	53.7	54.0	53.9	54.0	54.0	51.0	51.3	52.4	54.4	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	8	53.2	54.3	54.4	53.8	53.5	52.9	53.0	52.4	53.4	53.4	54.0	54.4	53.5
	9	53.4	55.0	55.7	54.4	54.4	53.9	53.0	53.0	52.7	53.6	53.4	54.5	54.1
	10	55.5	55.5	56.0	55.0	53.8	52.1	53.3	54.1	54.9	55.0	54.0	54.8	54.9
	11	55.3	58.0	57.4	56.3	55.1	53.2	51.4	54.0	54.5	54.3	54.1	54.9	55.0
	12	55.0	54.0	55.0	53.9	52.9	52.5	53.2	51.6	53.5	53.8	53.5	52.8	55.0
	13	57.0	57.6	57.5	54.5	53.5	52.5	53.4	54.2	54.9	54.1	54.1	54.5	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	15	51.4	54.2	55.4	55.0	53.6	53.0	53.6	54.0	54.4	54.9	54.9	54.5	54.1
	16	53.0	54.2	54.1	53.1	52.0	52.1	53.0	53.9	54.0	54.5	54.5	54.1	54.1
	17	52.4	56.9	56.0	55.0	54.0	53.2	52.5	53.8	54.1	54.0	52.1	54.2	54.8
	18	55.5	56.0	55.9	54.5	52.9	51.1	50.9	49.0	45.0	50.0	45.2	42.8	54.5
	19	51.1	51.6	53.0	52.0	51.8	50.8	50.0	52.4	51.9	51.0	50.5	49.0	48.2
	20	48.4	51.2	53.0	50.6	49.0	49.5	49.0	50.5	51.5	52.0	52.0	52.0	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	51.6
	22	53.1	49.0	55.8	56.0	54.9	53.9	52.3	52.7	53.4	52.5	51.9	52.0	51.4
	23	53.2	53.9	54.2	54.0	53.0	52.1	51.4	52.0	52.5	51.5	52.0	52.1	52.0
	24	55.4	57.5	56.3	55.5	54.2	54.0	52.8	53.0	52.5	52.8	52.0	51.9	52.0
	25	52.5	53.0	52.8	52.8	52.8	52.4	52.9	53.0	53.4	53.8	53.4	53.5	53.0
	26	56.4	57.0	56.1	55.0	53.0	52.5	52.3	53.5	52.7	53.0	52.8	52.9	52.1
	27	56.5	56.0	54.5	52.9	51.4	50.9	51.4	52.3	52.4	51.5	52.0	52.5	—
	28 ^a	—	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	53.9
Hourly Means	53.92	54.95	55.40	54.54	53.50	52.77	52.83	53.05	52.81	53.08	52.72	53.09	52.93	
DECEMBER.	1	55.9	55.5	55.3	54.4	43.6	52.9	52.9	53.0	52.4	52.9	52.0	50.7	49.7
	2 ^b	50.6	54.0	53.0	53.8	52.2	51.0	50.5	51.5	53.1	52.0	52.0	52.2	52.5
	3	47.4	48.8	50.4	49.0	45.9	46.0	40.1	46.0	44.9	44.7	44.5	45.1	43.4
	4	43.0	45.0	45.0	56.4	44.8	42.8	42.4	44.0	39.8	45.0	44.2	48.5	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	43.4
	6	45.5	47.7	47.0	47.0	46.2	45.8	45.9	46.0	46.0	45.4	43.9	44.4	44.8
	7	46.5	48.4	48.5	47.5	46.6	46.8	46.0	46.4	46.4	46.2	46.2	46.6	56.0
	8	45.0	46.8	46.7	45.4	43.1	42.9	44.5	44.4	44.5	44.4	43.9	45.0	45.5
	9	46.0	46.0	44.0	44.2	44.2	44.0	44.8	43.5	44.7	45.3	45.0	45.6	45.1
	10	46.2	47.4	45.2	43.8	43.1	43.5	44.4	45.0	44.9	43.5	43.3	44.5	44.5
	11	46.8	48.0	48.0	46.0	44.0	43.0	43.2	44.9	45.0	45.2	45.4	45.3	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	44.1
	13	42.5	45.2	45.2	45.5	45.1	44.3	42.9	43.9	44.3	44.5	44.0	44.8	45.9
	14	45.0	46.2	47.0	47.1	46.4	45.1	43.0	42.0	39.0	43.4	38.0	36.8	43.1
	15	41.0	42.2	42.6	42.6	42.5	43.0	43.2	43.4	44.5	44.0	44.0	44.3	44.0
	16	41.0	44.5	45.6	46.3	44.9	44.0	43.5	43.9	42.4	41.4	43.2	42.1	42.3
	17	43.2	47.0	47.9	47.9	49.0	47.0	45.5	44.5	43.8	44.0	43.5	43.4	44.6
	18	40.7	43.6	45.0	44.6	42.9	42.2	42.3	42.9	43.0	43.0	42.2	42.2	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	44.0
	20	42.4	44.0	43.8	43.0	43.0	43.6	44.0	43.7	43.9	44.4	43.3	43.9	43.2
	21	41.6	42.4	42.8	42.8	42.8	43.2	43.2	43.4	44.4	44.8	44.6	44.1	44.0
	22	44.2	44.9	44.9	44.9	45.2	45.7	45.4	44.5	42.6	45.4	45.0	43.9	43.5
	23	41.0	40.6	41.2	42.1	43.0	44.4	44.1	44.1	44.8	44.9	45.0	45.0	45.0
	24	46.7	47.4	46.4	45.0	45.2	45.0	44.0	44.4	45.3	45.0	45.0	43.4	47.0
	25	43.9	43.9	45.0	45.2	45.5	45.8	43.0	43.5	43.0	43.2	44.3	43.8	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	43.8
	27	43.4	44.2	44.2	42.9	42.9	44.1	44.0	43.8	44.3	45.0	45.9	44.5	44.5
	28	47.0	48.9	48.2	46.8	45.2	44.8	43.5	44.3	45.8	45.3	45.3	45.4	45.8
	29	46.2	47.8	47.2	46.0	44.5	44.0	44.0	45.1	46.0	46.0	45.9	45.9	45.5
	30	50.8	53.7	53.0	50.2	49.2	46.4	46.2	44.0	43.4	41.0	42.4	43.0	40.8
	31	42.2	43.0	42.9	44.0	43.5	43.0	42.0	42.7	43.5	44.2	44.5	44.2	44.5
Hourly Means	45.02	46.56	46.52	46.46	44.98	44.97	44.39	44.77	44.65	44.60	44.68	44.76	45.20	

^a Roof of the Observatory under repair.

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 East.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
NOVEMBER.	1	54·0	54·9	53·4	52·9	51·9	50·4	48·0	45·2	45·0	48·2	51·2	52·93
	2	54·4	54·6	54·0	54·8	54·0	52·5	49·1	45·0	45·1	47·8	50·8	53·01
	3	55·2	54·9	56·1	53·5	54·9	53·5	55·0	52·9	50·1	50·4	51·1	54·24
	4	54·5	52·6	52·0	51·3	50·6	46·8	48·0	49·4	50·4	50·8	53·0	52·76
	5	52·9	53·1	51·9	50·4	48·2	48·8	50·3	54·8	54·0	54·2	54·6	52·73
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	53·0	53·0	52·4	52·4	52·0	50·3	47·4	47·9	49·5	51·0	52·0	52·47
	8	53·3	52·1	52·5	51·5	49·9	47·7	46·4	46·4	48·9	49·1	51·0	51·88
	9	54·0	53·7	53·4	52·5	51·0	48·0	46·0	46·5	48·4	51·0	53·0	52·44
	10	54·0	55·8	53·0	53·0	50·5	48·2	46·2	46·2	48·1	50·1	53·9	52·83
	11	55·0	54·4	53·9	53·4	52·5	49·6	47·5	46·0	47·4	50·7	53·0	53·20
	12	54·7	54·4	53·5	53·3	52·1	50·1	47·8	47·4	48·0	51·0	55·0	52·67
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	54·0	53·2	53·1	52·5	51·7	50·0	47·0	45·4	45·9	47·2	49·1	52·50
	15	54·8	53·0	52·1	53·3	51·3	49·6	47·0	45·0	46·4	49·1	50·5	52·30
	16	54·0	53·3	53·4	52·7	51·3	47·5	45·8	44·5	44·0	46·6	49·4	51·65
	17	54·9	54·0	52·4	53·0	50·2	50·7	50·5	49·9	50·0	52·5	54·2	53·14
	18	47·1	41·8	40·0	41·0	43·0	43·3	42·2	43·9	44·2	43·2	47·0	47·08
	19	49·9	47·4	46·9	45·3	45·0	48·3	48·8	45·9	45·0	46·0	48·0	49·16
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	51·5	51·2	50·0	50·0	49·0	47·5	45·1	47·6	45·9	48·1	50·1	49·85
	22	51·1	50·9	50·0	50·0	51·5	49·7	49·0	48·3	48·4	50·5	51·0	51·64
	23	52·0	51·2	50·1	50·1	48·8	46·1	45·2	44·0	45·8	50·0	54·0	50·88
	24	51·5	52·0	50·9	50·1	48·4	46·9	46·4	44·9	45·7	48·7	51·0	51·52
	25	52·5	52·3	51·4	51·0	50·0	47·8	45·7	46·5	48·0	50·0	53·4	51·58
	26	52·0	52·2	53·0	51·0	50·1	48·6	46·7	48·3	52·4	58·9	56·5	52·88
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28 ^a	—	—	—	—	—	—	—	—	—	—	—	52·07
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	52·4	51·9	51·4	51·2	50·4	47·8	47·4	48·4	51·1	54·0	55·5	50·89
Hourly Means	53·03	52·41	51·70	51·26	50·35	48·74	47·44	47·10	47·82	49·96	52·03		
DECEMBER.	1	49·5	48·4	48·6	48·2	46·6	46·0	44·1	43·9	44·5	46·9	48·2	49·84
	2 ^b	50·2	49·7	48·8	47·9	47·0	46·1	45·8	43·4	43·1	42·0	44·9	49·47
	3	52·5	42·4	41·6	40·8	41·0	39·6	39·0	37·2	38·1	40·0	42·0	43·77
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	43·2	42·4	42·1	42·1	41·2	40·1	39·1	39·9	41·0	42·2	43·8	43·39
	6	45·0	45·0	43·7	42·0	40·9	38·6	37·4	38·0	40·4	43·0	45·8	43·98
	7	44·5	45·1	43·8	43·3	42·7	40·7	42·0	41·6	43·1	43·0	43·3	45·47
	8	44·2	42·8	42·0	41·1	39·8	38·8	37·7	38·0	39·3	42·1	45·1	43·04
	9	45·3	44·8	43·5	42·1	41·2	39·1	38·0	38·8	36·1	40·0	44·5	43·16
	10	44·9	45·0	44·0	43·1	41·3	38·9	37·0	36·1	37·6	42·0	45·0	43·09
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	44·4	44·8	44·0	44·0	43·3	40·4	38·0	35·2	33·9	36·1	40·0	43·04
	13	45·8	45·8	45·1	44·0	42·3	41·8	42·8	41·0	40·8	42·2	43·2	43·87
	14	39·9	39·0	38·0	37·2	37·3	37·5	37·6	37·3	39·0	41·9	41·9	40·78
	15	43·4	41·1	43·4	44·2	44·5	42·8	40·1	37·7	35·5	35·5	37·3	41·95
	16	42·6	42·5	42·0	42·0	42·1	42·6	40·0	38·6	36·9	38·6	40·5	42·23
	17	42·2	41·4	41·3	40·5	41·3	38·4	38·0	39·4	38·0	39·1	39·3	42·93
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	42·0	41·8	42·8	41·4	40·0	40·1	39·5	38·0	38·2	39·9	41·2	41·81
	20	42·6	41·8	42·0	42·0	42·0	41·3	40·1	38·2	37·0	38·2	40·7	42·17
	21	43·4	43·2	43·0	42·9	42·5	41·1	41·0	40·0	40·0	41·0	43·0	42·72
	22	44·6	43·4	43·0	42·9	41·8	42·0	41·0	41·5	43·0	42·9	40·9	43·63
	23	44·0	45·0	43·2	43·0	42·1	42·1	43·3	42·9	43·1	44·1	45·7	43·49
	24	43·1	42·8	43·0	41·4	40·0	39·3	38·0	39·1	40·5	42·0	44·4	43·48
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	43·5	44·0	42·0	42·0	40·2	39·8	39·0	39·5	40·0	41·8	42·2	42·83
	27	44·5	44·1	43·0	43·0	42·0	40·2	38·9	39·0	40·0	41·9	44·9	43·13
	28	—	45·3	44·3	44·1	43·9	42·2	41·0	40·5	40·8	43·2	45·0	44·63
	29	45·0	44·5	44·3	44·4	43·1	40·9	37·7	38·5	41·9	46·0	48·1	44·52
	30	40·5	41·8	42·0	42·5	42·1	41·0	40·0	39·0	38·0	39·0	39·9	43·75
	31	44·0	44·0	44·1	44·6	43·8	42·6	41·7	39·8	37·0	39·1	43·1	42·83
Hourly Means	44·41	43·77	43·28	42·84	42·07	40·89	39·92	39·34	39·51	41·25	43·11		

^b The magnet was removed in the afternoon of the 2nd of December, for the purpose of examining the Zero of the scale, but the observations being interrupted, it was replaced. A break appears to have been occasioned in the connection of the readings.

DECLINATION.														
Angular Value of One Scale Division of the Declinometer = 0'.751. Increasing Numbers denote increasing Easterly 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 .	12 ^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.	
JANUARY.	1	48.1	50.4	47.0	49.6	48.9	45.0	45.0	46.1	44.8	44.1	41.0	42.9	43.5
	2	—	—	—	—	—	—	—	—	—	—	—	—	—
	3	40.6	45.2	46.5	45.8	46.1	45.8	44.8	45.1	45.5	44.2	45.1	44.1	43.0
	4	39.3	45.0	47.3	47.9	46.8	45.1	43.4	43.7	44.8	44.5	44.2	43.2	43.0
	5	40.9	43.0	43.7	44.1	45.5	46.1	45.0	44.9	45.5	43.8	42.5	42.0	44.7
	6	43.9	45.1	45.1	44.7	44.5	44.3	43.2	43.5	44.9	45.0	45.0	44.5	42.9
	7	41.3	41.5	42.0	42.4	43.9	44.0	42.9	42.6	43.9	43.4	42.6	44.0	43.3
	8	40.0	46.6	45.1	44.5	44.2	44.2	44.0	44.2	44.9	43.9	44.4	44.0	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	43.3
	10	47.1	47.4	44.5	43.5	44.1	44.1	44.5	45.2	46.0	46.3	46.3	45.7	42.1
	11	47.4	48.9	49.3	46.5	44.2	43.6	43.9	45.0	45.8	45.2	43.2	43.6	43.6
	12	43.8	46.1	46.1	44.8	44.2	44.4	44.9	45.3	46.0	45.9	45.9	45.3	45.6
	13	48.0	50.9	49.5	47.3	46.0	45.1	45.0	45.6	45.9	46.0	46.5	46.4	45.9
	14	45.0	47.5	48.6	47.0	45.5	45.0	44.7	45.4	46.2	46.1	46.0	47.9	47.0
	15	52.0	54.1	52.0	48.9	47.1	47.1	47.8	48.0	48.0	47.8	47.3	46.7	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	45.0
	17	51.9	52.5	49.0	46.0	46.5	46.5	45.9	46.0	46.0	44.8	45.9	45.9	46.0
	18	45.5	50.2	49.9	49.0	47.5	45.9	44.0	40.9	41.0	45.0	45.8	45.1	47.2
	19	46.9	48.3	47.5	45.1	45.2	44.9	45.2	44.9	43.9	44.2	44.2	44.1	44.1
	20	44.1	46.1	47.7	46.9	46.6	46.8	46.2	46.1	46.4	45.8	46.2	46.0	45.5
	21	45.0	46.5	47.2	44.9	46.3	47.5	47.0	46.1	45.9	46.1	46.0	43.8	40.4
	22	45.2	45.5	45.8	45.4	44.6	45.1	46.1	46.0	46.1	46.0	46.9	45.7	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	45.1
	24	46.9	47.8	47.0	45.0	43.5	43.7	45.0	45.6	46.7	45.2	42.4	40.2	41.6
	25	45.7	45.8	47.1	47.2	46.5	46.2	45.4	44.8	42.9	45.0	45.0	44.3	44.2
	26	44.5	44.8	45.1	44.1	43.3	43.2	44.1	44.9	44.9	45.1	45.4	—	45.1
	27	49.3	50.8	50.0	49.3	48.1	46.3	45.4	43.9	45.1	45.0	41.7	40.0	45.0
	28	45.5	48.0	48.9	48.0	46.2	46.0	46.1	47.0	47.4	47.5	47.4	46.4	45.8
	29	52.1	52.6	50.5	49.1	48.9	47.3	46.7	47.2	47.5	47.8	47.0	46.3	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	47.5
	31	55.0	55.1	52.5	49.4	47.6	46.3	47.2	48.0	48.5	48.1	47.7	48.2	48.2
Hourly Means	45.96	47.91	47.50	46.40	45.88	45.36	45.13	45.23	45.56	45.45	45.06	44.65	44.56	
FEBRUARY.	1	54.2	56.6	55.1	51.5	48.8	45.2	45.9	47.1	47.0	47.6	47.9	48.2	46.3
	2	48.0	52.1	50.9	50.6	48.6	46.9	46.4	46.4	46.2	46.2	45.7	46.5	47.0
	3	41.0	43.9	45.1	45.8	46.9	47.5	47.0	46.0	44.5	45.5	46.0	46.0	45.9
	4	42.2	43.8	45.9	46.0	47.0	47.6	47.0	45.9	46.2	46.0	46.0	45.0	44.9
	5	42.8	41.9	42.8	43.1	43.8	44.8	45.2	45.0	45.0	45.1	45.8	45.2	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	47.9
	7	43.8	43.8	44.0	42.9	42.7	43.5	43.8	44.0	44.2	44.0	46.5	46.2	44.9
	8	46.0	45.8	46.0	45.3	43.5	43.5	44.6	44.6	44.1	45.2	45.1	43.5	45.1
	9	48.7	47.2	46.2	45.4	45.0	45.1	45.3	45.5	45.5	45.9	45.9	45.7	45.4
	10	46.0	47.3	46.9	45.7	45.3	44.6	44.6	45.2	44.9	46.2	46.8	47.0	47.0
	11	46.5	48.2	47.3	46.2	45.1	44.6	44.5	44.7	43.4	44.0	42.1	43.2	44.9
	12	42.9	45.5	45.9	44.1	43.0	42.3	42.5	43.5	44.0	43.0	41.9	43.3	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	45.0
	14	44.7	45.0	46.7	46.2	45.7	44.8	44.4	44.1	43.2	40.8	42.1	42.9	44.0
	15	44.9	45.9	47.2	46.9	46.2	44.8	42.2	43.2	43.6	43.5	43.5	43.8	42.4
	16	41.9	44.0	45.9	46.1	44.1	41.9	40.5	40.8	42.2	43.0	42.8	43.6	44.0
	17	42.9	45.5	45.4	44.2	43.3	36.9	40.7	40.5	41.3	41.9	41.6	42.0	41.1
	18	40.0	42.2	44.8	45.0	42.9	40.0	41.0	41.5	38.1	38.0	38.1	36.9	41.9
	19	37.8	40.9	44.9	45.7	43.5	42.8	40.2	40.8	42.4	43.0	43.2	44.0	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	42.1
	21	42.4	43.8	44.0	43.5	43.5	43.1	44.0	43.5	44.2	43.9	43.6	43.2	43.8
	22	45.3	46.8	47.3	46.7	45.8	45.0	45.0	45.0	44.9	44.9	44.3	44.3	44.0
	23	46.0	47.2	47.0	46.5	45.5	45.2	45.4	45.0	44.9	44.9	44.9	45.0	44.7
	24	49.2	51.3	47.0	46.4	42.6	43.9	44.6	38.4	35.9	33.0	29.6	31.5	29.2
	25	43.8	44.5	44.8	43.5	42.2	41.8	43.2	44.9	43.2	43.0	45.2	42.9	42.5
	26	44.9	46.6	46.0	44.0	41.9	40.8	41.5	40.3	40.9	41.3	41.5	42.3	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	43.4
	28	46.8	50.0	50.8	49.0	46.6	44.0	43.7	44.1	44.4	43.3	44.1	44.6	45.2
Hourly Means	44.70	46.24	46.58	45.85	44.73	43.77	43.88	43.75	43.51	43.47	43.51	43.62	43.86	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.														
JANUARY.	1	43·3	42·9	42·2	42·1	42·7	42·7	41·7	39·2	37·0	36·3	37·9	43·52													
	2	42·4	41·7	41·3	41·2	42·4	42·5	42·1	40·0	36·5	35·0	36·0		42·62												
	3	42·0	39·9	42·3	41·0	42·7	42·7	43·9	41·9	38·8	37·8	38·4			42·90											
	4	43·2	43·1	42·4	41·9	41·1	43·5	43·9	43·5	41·2	41·1	42·0				43·28										
	5	41·9	42·4	40·8	42·3	41·0	39·3	40·7	40·6	39·0	39·4	40·0					42·67									
	6	43·3	42·9	42·0	42·0	42·0	42·5	42·0	42·0	40·9	40·3	41·2						42·45								
	7	—	—	—	—	—	—	—	—	—	—	—							42·72							
	8	42·9	42·9	42·2	42·2	41·5	39·7	37·9	37·9	39·5	41·5	43·8								43·40						
	9	45·0	43·9	43·9	42·9	42·8	40·1	38·8	37·9	39·4	42·0	45·9									43·73					
	10	42·9	44·0	43·0	42·9	42·2	40·5	41·0	36·8	34·9	36·6	40·0										43·12				
	11	46·1	44·9	44·4	44·8	43·0	41·9	39·1	37·8	37·5	40·5	40·5											43·70			
	12	45·0	44·8	44·5	44·3	43·2	42·0	41·2	40·2	40·1	40·9	42·1												44·85		
	13	47·1	46·9	46·0	45·2	44·4	42·3	41·8	40·0	40·8	43·0	46·0													45·23	
	14	—	—	—	—	—	—	—	—	—	—	—														46·23
	15	44·8	44·0	43·2	43·3	48·1	41·9	40·8	39·2	40·9	43·0	48·5														
	16	45·5	45·0	43·3	43·2	43·4	41·7	40·0	39·5	—	40·5	42·5	44·30													
	17	43·8	45·7	44·0	43·0	41·8	41·0	40·2	40·0	40·8	42·0	43·9	44·35													
	18	45·5	44·0	43·4	43·6	44·0	44·4	42·1	41·0	41·9	42·5	43·4	45·16													
	19	45·2	45·2	44·3	44·6	43·5	42·6	41·8	41·7	42·3	47·6	44·6	43·81													
	20	42·4	42·7	43·5	43·0	40·4	40·0	39·9	38·8	40·7	43·0	44·3	44·70													
	21	—	—	—	—	—	—	—	—	—	—	—	43·89													
	22	45·0	44·8	44·0	44·0	42·3	42·0	42·5	42·3	47·4	42·1	42·8	44·08													
	23	43·3	43·9	43·4	42·7	42·2	43·4	42·0	40·6	41·5	44·0	45·8	44·13													
	24	45·0	45·0	44·0	43·8	42·5	42·1	42·0	40·7	39·8	40·0	42·8	45·58													
	25	45·0	44·4	44·6	44·5	44·1	42·5	40·9	40·5	41·8	44·8	47·3	46·45													
	26	44·9	45·1	45·0	45·0	44·5	43·5	42·0	41·0	41·0	42·3	43·5	47·12													
	27	45·5	45·0	45·8	45·0	43·0	43·0	39·8	40·1	41·0	45·0	50·6	—													
	28	—	—	—	—	—	—	—	—	—	—	—	—													
	29	47·0	47·4	47·2	46·6	45·1	43·3	39·6	37·0	37·8	42·8	50·4	—													
	30	47·8	47·2	47·5	46·2	47·4	45·4	40·7	37·2	36·9	42·7	50·0	—													
	31	—	—	—	—	—	—	—	—	—	—	—	—													
Hourly Means	44·45	44·22	43·78	43·51	43·13	42·17	41·09	39·90	39·98	41·41	43·62	—														
FEBRUARY.	1	46·9	47·0	46·3	45·2	44·1	42·7	39·9	38·8	38·0	40·1	44·7	44·83													
	2	46·0	46·4	45·8	46·0	45·0	44·2	42·3	39·2	37·9	48·3	38·5		44·21												
	3	45·9	44·2	43·2	44·0	44·1	43·5	41·2	39·8	40·2	41·9	41·9			44·42											
	4	44·8	44·7	44·0	44·4	43·9	42·6	41·8	40·3	40·1	42·2	43·8				43·65										
	5	—	—	—	—	—	—	—	—	—	—	—					43·60									
	6	46·1	43·3	44·6	41·4	41·8	40·4	39·8	41·4	43·9	43·6	42·8						44·00								
	7	45·0	43·5	43·0	42·2	42·2	40·0	39·4	40·5	43·6	46·7	46·0							44·21							
	8	43·9	44·1	43·9	43·0	42·3	40·3	38·2	39·0	42·5	47·1	49·5								44·55						
	9	45·0	44·9	44·3	44·4	44·1	43·5	40·2	37·2	37·0	39·8	43·8									43·40					
	10	47·1	46·1	45·0	44·7	43·3	42·1	39·4	37·9	38·3	42·4	45·3										42·54				
	11	43·3	43·0	42·0	41·9	43·1	43·1	42·3	37·1	37·1	40·9	43·2											42·74			
	12	—	—	—	—	—	—	—	—	—	—	—												42·84		
	13	44·5	43·8	42·9	42·6	42·0	41·8	40·5	38·0	36·1	39·3	42·5													41·86	
	14	43·9	44·0	43·4	43·3	42·4	41·3	39·4	37·2	36·7	37·6	42·0														40·98
	15	43·6	44·5	43·8	43·7	42·6	42·0	40·7	38·7	35·9	35·8	38·7														
	16	43·3	37·1	41·2	43·2	40·6	41·2	42·8	39·5	37·0	37·2	40·8	41·68													
	17	42·0	42·5	42·9	42·0	41·4	41·7	40·0	37·8	35·8	34·0	36·2	42·71													
	18	40·8	41·5	43·2	42·9	42·4	41·9	40·0	37·2	34·6	33·4	35·1	43·79													
	19	—	—	—	—	—	—	—	—	—	—	—	44·58													
	20	42·3	45·0	43·8	43·1	42·8	41·5	39·8	37·1	35·8	37·5	40·2	39·04													
	21	43·9	44·1	43·8	44·5	44·2	42·4	40·8	37·3	34·7	39·5	43·3	40·83													
	22	43·8	44·2	44·5	44·0	43·9	42·2	40·0	37·7	37·1	40·0	44·2	41·10													
	23	43·9	44·8	43·7	45·9	44·3	43·5	40·0	38·8	39·5	44·0	48·9	—													
	24	43·0	33·1	36·2	37·2	38·3	36·8	36·9	36·0	36·8	38·9	41·1	—													
	25	41·7	40·0	39·2	39·1	39·0	38·0	35·5	34·0	33·3	34·5	40·2	—													
	26	—	—	—	—	—	—	—	—	—	—	—	—													
	27	42·8	42·2	42·0	42·0	41·6	40·0	36·9	34·2	33·3	35·8	40·2	—													
	28	44·4	46·0	44·0	43·3	43·1	44·0	40·8	37·8	37·2	37·0	40·8	—													
Hourly Means	44·08	43·33	43·20	43·08	42·60	41·70	39·94	38·02	37·60	39·90	42·24	—														

DECLINATION.														
Angular Value of One Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
MARCH.	1	43.8	47.3	48.3	47.8	46.0	44.7	44.4	44.0	44.0	44.0	41.0	41.7	42.8
	2	40.5	43.9	45.9	45.9	40.1	43.1	42.3	41.0	43.0	43.0	43.0	43.1	43.6
	3	41.1	44.5	47.3	47.1	45.8	44.3	44.2	44.5	44.8	43.9	43.8	43.4	43.7
	4	43.2	45.6	46.6	46.1	45.2	44.6	44.2	44.1	44.1	44.6	44.7	44.0	43.5
	5	44.5	46.0	46.9	46.8	45.4	44.9	44.0	43.9	44.2	43.0	41.0	41.8	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	44.1
	7	46.8	46.3	45.2	44.2	43.8	43.8	44.6	44.0	44.3	43.8	44.0	44.2	44.7
	8	44.6	44.4	44.9	44.5	44.1	44.1	45.0	45.0	45.0	44.4	44.1	44.7	44.0
	9	46.0	46.4	46.0	45.5	45.5	44.2	44.6	44.1	44.0	43.0	44.5	44.9	44.9
	10	45.4	46.0	46.4	45.4	44.4	44.4	44.0	43.7	44.3	44.2	44.2	44.5	44.5
	11	48.0	49.0	48.2	46.2	44.2	43.2	43.7	43.8	44.1	44.1	44.0	44.1	44.3
	12	45.2	46.0	45.4	44.5	43.8	43.3	43.5	43.9	44.0	44.0	44.1	44.3	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	43.4
	14	44.1	45.5	45.8	45.2	44.5	44.1	44.1	44.7	44.1	44.3	44.4	44.3	43.1
	15	44.2	46.1	46.9	45.9	44.1	43.4	43.2	43.9	44.0	40.1	39.6	39.9	39.5
	16	42.8	44.6	45.9	45.6	43.9	42.0	42.0	40.0	40.2	41.0	37.0	41.8	40.6
	17	40.4	43.8	44.8	44.1	43.2	42.3	42.8	43.0	42.5	43.4	42.5	42.8	42.2
	18	45.1	46.0	46.0	45.1	44.0	43.2	44.0	44.2	44.2	44.4	43.1	43.9	44.0
	19	46.7	46.9	45.3	45.0	44.1	44.2	44.0	44.0	43.1	42.4	40.9	42.0	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	43.4
	21	44.9	46.0	46.5	45.1	44.1	44.2	45.0	45.0	44.8	43.3	43.6	44.0	43.4
	22	45.8	46.9	46.1	45.0	44.0	44.0	44.4	44.5	44.2	43.9	43.0	43.1	43.2
	23	48.9	49.0	48.4	45.4	44.0	44.0	45.0	45.7	46.0	46.0	44.3	43.9	43.1
	24	43.8	44.9	44.9	43.9	43.9	43.7	43.0	44.0	44.2	45.1	43.8	43.7	44.2
	25	46.2	46.7	45.0	43.4	42.2	42.8	43.8	43.5	43.3	41.3	43.0	44.4	43.8
	26	48.1	48.2	46.5	44.0	42.0	42.5	44.0	44.4	44.6	44.9	44.7	44.6	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	44.8
	28	47.2	48.0	46.0	44.8	44.2	43.4	44.9	44.0	43.9	44.1	44.0	44.8	45.5
	29	46.8	47.0	47.8	46.9	45.3	44.0	42.9	40.2	43.5	43.3	44.1	44.1	44.9
	30	45.9	47.8	47.5	46.0	44.8	43.0	42.0	42.8	43.0	43.3	43.0	44.6	45.0
	31	47.0	46.9	46.1	44.9	44.0	43.4	43.8	44.0	44.0	43.5	43.8	44.0	44.0
Hourly Means	45.07	46.29	46.32	45.34	44.10	43.66	43.83	43.70	43.90	43.57	43.08	43.58	43.64	
APRIL.	1	45.2	47.3	46.4	46.9	45.3	44.0	44.1	44.0	44.4	44.3	42.2	43.0	43.8
	2	43.0	44.5	45.0	44.4	43.9	44.0	44.2	44.5	44.7	44.8	43.2	42.1	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	42.7
	4	45.7	46.6	46.4	45.2	44.2	43.8	42.2	44.3	44.5	44.8	44.3	44.6	43.3
	5	47.6	48.2	48.0	46.1	45.5	45.1	45.4	45.7	45.5	42.9	43.5	44.9	44.8
	6	44.5	44.1	44.2	44.0	43.7	43.5	43.8	43.8	44.0	44.1	43.9	44.1	44.6
	7	44.9	46.2	46.1	45.2	44.8	44.2	44.2	44.8	44.9	45.2	45.0	44.3	44.9
	8	46.9	47.4	46.7	45.6	44.9	45.5	45.8	45.9	46.0	45.9	45.0	45.0	43.9
	9	45.9	48.0	47.3	46.0	45.0	44.5	44.8	45.0	45.3	45.6	45.3	45.3	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	44.1
	11	44.6	45.0	42.9	42.2	41.3	42.7	42.1	42.3	42.2	42.6	43.2	42.2	43.3
	12	44.0	45.8	43.1	41.9	40.0	42.7	42.2	41.2	39.0	40.9	39.7	40.3	42.3
	13	45.7	44.9	42.9	41.6	41.0	42.0	41.1	40.1	41.0	41.1	39.7	40.0	40.2
	14	48.2	49.2	47.9	45.7	44.3	44.0	43.5	43.8	44.0	43.8	43.5	44.2	46.0
	15	45.5	44.8	44.0	43.2	40.2	40.3	39.0	37.5	39.8	39.1	40.7	40.2	39.0
	16	38.0	40.6	42.2	42.0	41.2	41.1	40.3	42.3	41.9	42.2	41.0	41.3	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	43.3
	18	44.2	45.3	45.2	45.5	44.7	43.4	43.0	43.6	43.3	43.9	43.7	43.3	43.4
	19	42.9	43.7	43.0	42.1	42.7	42.2	42.8	43.1	43.0	42.9	42.0	41.8	40.9
	20	44.2	42.0	42.0	41.2	43.2	42.9	42.2	43.4	43.3	43.0	42.9	42.9	42.9
	21	43.2	43.7	42.8	42.7	40.0	41.0	41.8	42.6	42.8	43.1	42.3	43.0	43.7
	22	42.8	43.3	43.0	43.0	43.0	42.5	43.2	43.1	43.0	43.4	43.5	43.8	44.0
	23	45.3	45.3	44.3	43.0	42.9	42.5	42.9	43.2	43.7	43.6	43.5	44.0	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	43.6
	25	44.8	45.0	44.1	43.2	42.8	42.4	42.9	43.0	43.3	43.4	43.6	43.9	44.1
	26	45.7	44.9	44.6	43.9	42.7	42.6	42.9	43.0	43.4	43.6	43.4	42.9	43.2
	27	45.2	45.3	44.2	43.1	43.1	42.1	42.0	42.1	40.0	41.2	42.1	43.0	43.0
	28	43.9	45.0	44.5	43.5	42.9	42.7	42.0	42.3	42.7	42.9	43.0	43.3	43.2
	29	45.0	45.3	42.2	43.9	43.2	42.8	42.5	42.0	42.0	39.2	41.0	41.2	42.4
	30	43.7	44.3	44.4	43.5	43.1	42.9	42.9	42.9	43.0	43.2	43.5	43.9	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	44.7
Hourly Means	44.64	45.22	44.51	43.79	43.06	42.98	42.84	43.06	43.10	43.10	42.87	43.02	43.28	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MARCH.	1	43·0	43·1	43·1	43·1	43·4	44·0	42·2	38·1	36·0	35·0	37·7	42·85
	2	44·0	43·9	44·8	44·1	45·1	44·4	40·9	39·2	38·6	39·2	39·9	42·60
	3	44·8	45·0	45·1	45·0	44·9	44·0	42·8	39·8	38·7	40·1	42·7	43·80
	4	45·0	44·9	45·0	45·0	41·1	44·3	41·3	40·0	40·7	42·3	43·9	43·92
	5	—	—	—	—	—	—	—	—	—	—	—	43·30
	6	45·0	42·9	44·0	43·6	42·5	41·0	39·0	38·5	38·8	42·4	45·0	43·68
	7	44·2	45·1	45·9	44·8	44·0	42·8	39·0	36·3	39·5	43·0	44·0	43·01
	8	43·9	44·1	43·9	43·9	43·3	42·2	38·0	34·2	35·2	40·6	44·2	43·92
	9	45·9	44·7	45·0	44·9	44·4	42·3	39·6	38·7	39·7	41·0	44·3	43·59
	10	44·3	44·2	44·0	43·9	43·6	41·9	39·7	38·1	38·9	41·0	45·2	43·49
	11	44·0	44·0	44·1	43·3	42·2	40·2	39·4	38·0	37·9	40·1	43·7	43·00
	12	—	—	—	—	—	—	—	—	—	—	—	42·91
	13	42·8	42·7	42·3	42·0	42·8	42·5	40·1	39·4	38·8	40·9	42·2	41·80
	14	43·3	45·7	43·7	43·6	42·6	40·4	37·9	37·0	36·8	39·0	41·7	40·86
	15	41·2	41·7	42·0	42·3	41·9	41·3	39·4	37·1	36·7	38·0	40·8	42·15
	16	40·4	42·6	43·8	43·3	42·1	42·2	39·4	34·8	34·2	33·5	37·0	43·50
	17	42·8	44·0	44·0	43·5	43·1	42·0	39·5	38·1	36·1	38·4	42·2	43·47
	18	44·0	44·0	44·0	44·2	44·5	44·0	41·2	38·7	38·2	40·2	43·9	43·66
	19	—	—	—	—	—	—	—	—	—	—	—	43·64
	20	46·3	43·9	43·1	43·0	44·4	43·6	42·4	40·1	40·4	41·3	42·7	43·33
	21	45·9	44·4	43·7	43·8	43·9	42·5	41·3	37·7	39·2	41·1	44·5	43·06
	22	43·1	43·3	43·0	42·5	43·4	43·0	41·0	39·5	40·4	43·2	46·8	42·23
	23	40·5	42·1	41·2	40·8	41·8	40·7	37·4	37·0	38·5	41·4	44·9	44·13
	24	45·6	44·8	43·7	42·6	42·5	40·5	37·6	37·3	37·7	42·2	45·9	43·91
	25	43·6	43·7	42·6	43·1	42·6	39·7	35·6	34·3	35·2	39·5	44·2	44·50
	26	—	—	—	—	—	—	—	—	—	—	—	43·83
	27	46·3	45·0	44·0	43·2	43·8	46·0	42·1	38·5	39·5	42·0	45·5	43·28
	28	45·7	45·8	45·2	46·4	45·0	43·0	40·3	37·2	36·9	39·6	43·9	44·04
	29	44·3	46·6	46·2	46·9	47·0	46·1	43·4	40·9	39·0	44·0	42·7	43·20
	30	45·0	45·1	46·7	46·1	44·0	42·0	39·1	38·3	38·9	43·1	45·0	43·84
	31	44·5	44·7	45·1	44·3	44·1	41·9	39·0	37·0	36·9	39·7	42·2	43·21
Hourly Means	44·05	44·15	44·04	43·82	43·48	42·54	39·95	37·92	38·05	40·44	43·21	44·04	
APRIL.	1	44·9	44·0	45·0	45·0	44·9	42·1	39·1	36·7	36·4	37·6	40·3	43·20
	2	—	—	—	—	—	—	—	—	—	—	—	43·84
	3	43·8	43·6	44·2	44·6	45·4	45·0	44·0	46·1	40·2	41·0	43·3	44·13
	4	44·6	44·4	48·1	44·9	44·3	43·6	41·6	40·1	41·0	41·9	44·6	45·34
	5	46·1	45·0	45·0	45·4	45·3	48·3	45·9	43·3	42·9	43·7	44·0	43·29
	6	44·1	44·1	44·1	44·0	44·3	43·9	42·5	40·1	38·1	39·3	42·2	44·25
	7	44·9	44·8	44·9	44·3	44·2	44·2	43·2	41·2	40·0	41·2	44·5	44·74
	8	44·3	43·7	44·2	44·8	45·1	45·0	43·5	41·6	41·3	42·0	43·8	43·60
	9	—	—	—	—	—	—	—	—	—	—	—	43·17
	10	43·0	41·9	41·6	41·2	42·9	42·0	41·0	38·2	39·0	40·0	43·4	42·16
	11	44·7	43·9	46·2	45·0	45·0	44·8	42·6	44·9	39·4	40·0	43·0	42·17
	12	40·0	43·2	43·9	43·6	44·2	43·0	41·0	41·0	42·0	43·6	43·3	45·43
	13	42·8	43·4	43·9	44·0	44·3	43·2	41·3	39·9	39·9	42·2	45·9	43·21
	14	47·3	44·9	44·4	48·0	50·9	46·0	47·9	45·9	43·3	42·5	41·1	42·31
	15	40·3	46·8	47·7	48·1	49·5	50·6	51·0	48·9	43·5	39·3	38·0	42·90
	16	—	—	—	—	—	—	—	—	—	—	—	43·70
	17	44·1	44·2	43·9	45·8	45·2	45·1	45·2	42·5	40·0	39·9	42·2	42·15
	18	43·7	43·8	44·2	44·3	44·0	43·8	46·5	44·6	39·9	40·0	41·5	42·61
	19	42·3	42·0	41·5	42·0	41·9	43·1	44·0	41·2	39·3	39·7	41·6	42·37
	20	43·7	43·5	41·0	43·8	45·7	43·9	42·9	41·0	39·6	40·2	41·2	43·37
	21	43·5	43·2	44·5	44·3	44·0	44·0	43·3	40·5	38·4	38·1	40·4	42·90
	22	44·0	43·9	44·0	43·5	45·0	45·8	44·8	42·4	41·2	41·5	43·1	42·93
	23	—	—	—	—	—	—	—	—	—	—	—	43·20
	24	43·8	43·8	43·4	43·3	43·4	43·2	42·6	39·9	38·0	38·5	41·9	42·48
	25	44·0	43·8	43·7	43·8	42·9	43·0	42·0	40·1	38·5	39·0	43·0	43·04
	26	44·0	43·9	43·2	43·1	43·0	43·0	43·0	40·1	40·2	42·0	44·5	42·24
	27	43·0	43·3	43·2	43·0	43·1	43·8	43·0	41·0	39·1	39·1	41·5	43·66
	28	43·5	43·5	43·9	44·0	44·0	45·6	45·0	41·8	39·0	39·2	41·5	43·32
	29	43·2	43·3	43·7	43·7	43·2	44·0	43·3	40·8	38·2	37·5	40·2	43·21
	30	—	—	—	—	—	—	—	—	—	—	—	43·32
	31	45·0	45·3	45·2	45·1	45·8	45·8	45·4	42·4	40·5	40·2	41·1	43·21
Hourly Means	43·79	43·89	44·18	44·33	44·67	44·45	43·68	41·78	39·96	40·35	42·35	43·32	

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
MAY.	2	44.8	46.5	45.8	44.8	44.2	44.0	44.1	44.0	44.0	44.2	44.5	44.5	44.5
	3	42.7	45.0	44.9	45.1	44.2	43.4	44.1	44.4	44.5	44.0	44.5	44.6	44.8
	4	43.2	45.0	45.5	45.7	46.0	45.4	45.6	45.8	45.7	45.3	45.5	44.7	45.3
	5	41.0	42.5	43.4	43.8	42.9	43.1	43.4	44.1	44.6	44.4	44.3	44.4	44.4
	6	42.1	43.0	44.7	46.3	44.5	43.0	42.0	41.8	42.0	41.2	41.5	42.6	43.3
	7	42.8	43.8	43.3	43.5	43.7	43.2	42.4	43.3	43.0	41.8	45.8	43.9	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	43.8
	9	42.6	43.3	43.9	44.4	44.1	43.6	43.9	43.8	44.5	44.2	44.8	44.6	44.0
	10	43.9	44.8	45.2	45.1	44.4	44.0	43.0	44.7	44.9	44.2	43.1	44.3	44.9
	11	45.1	45.0	44.9	44.7	44.2	44.1	44.5	44.9	44.9	45.2	45.1	45.4	45.7
	12	45.7	46.2	46.0	45.8	45.2	45.0	44.9	44.8	44.9	45.1	45.0	45.2	45.4
	13	44.5	44.8	44.8	45.0	44.9	44.2	44.3	44.7	44.9	44.9	45.0	46.2	46.0
	14	42.7	43.0	45.0	46.3	45.7	45.0	45.0	45.0	45.0	45.2	45.7	45.9	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	44.2
	16	44.8	45.5	44.5	44.0	41.4	43.4	42.9	41.9	42.2	41.6	43.0	42.9	43.2
	17	42.2	43.7	45.7	45.0	44.4	42.3	43.0	43.8	43.3	43.2	43.1	43.3	43.0
	18	45.0	45.5	45.2	45.8	44.5	44.1	44.0	44.2	43.7	43.9	44.1	44.4	45.5
	19	41.4	44.9	43.8	44.0	44.1	43.3	43.0	44.5	44.6	44.5	44.9	44.5	44.5
	20	43.0	43.7	43.8	44.5	44.6	44.0	44.2	45.0	45.0	44.9	44.7	44.9	44.9
	21	42.0	42.7	44.3	44.5	44.0	43.8	43.9	44.2	44.4	44.8	44.7	45.0	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	45.1
	23	43.3	44.3	44.5	44.8	44.2	43.7	44.0	44.2	44.6	44.9	44.8	45.0	45.2
	24	46.2	46.0	46.1	45.8	45.2	43.9	44.3	44.6	44.8	44.8	45.2	45.5	45.7
	25	45.5	46.0	46.0	45.5	44.9	44.0	44.8	45.1	45.0	45.9	45.9	45.6	46.0
	26	45.0	46.0	46.0	46.1	45.2	44.2	44.8	45.1	45.5	45.3	45.4	45.4	46.2
	27	44.8	46.8	47.0	46.0	45.0	45.0	45.0	44.9	44.9	45.5	45.9	46.0	45.9
	28	44.0	45.4	46.5	46.2	45.9	45.1	45.4	45.3	45.6	45.9	45.9	46.3	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	46.1
	30	45.0	45.0	46.1	46.6	46.0	45.4	45.6	45.1	45.2	45.9	45.9	46.1	46.1
	31	45.4	46.1	46.0	46.5	45.2	44.9	44.9	45.0	45.5	45.7	46.0	45.8	45.4
	Hourly Means	43.91	44.79	45.11	45.22	44.56	44.04	44.12	44.30	44.51	44.48	44.78	44.88	44.97
JUNE.	1	46.0	47.4	48.2	47.9	46.4	46.0	45.9	45.9	46.2	44.6	45.6	45.0	45.4
	2	43.3	45.5	46.8	45.0	45.0	45.0	45.5	45.4	45.7	45.5	45.6	46.1	45.9
	3	43.2	44.1	45.0	46.1	45.3	46.4	44.2	45.0	44.9	45.1	45.5	46.6	47.2
	4	45.7	46.7	46.1	45.5	45.6	45.4	45.5	43.8	34.9	40.7	43.6	40.1	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	44.9
	6	41.2	42.1	43.9	44.0	42.9	43.2	44.0	44.1	44.3	44.2	43.4	45.0	43.6
	7	42.3	43.0	44.4	45.0	44.0	43.5	43.8	44.3	44.8	45.0	45.0	43.9	43.9
	8	43.8	43.9	44.2	44.9	44.1	43.8	43.1	42.6	43.6	43.5	44.3	45.7	46.8
	9	45.1	44.8	45.0	45.1	45.8	44.2	44.0	43.5	43.5	43.8	44.1	44.1	46.2
	10	46.2	47.4	47.0	46.5	45.2	43.4	43.9	43.9	44.2	44.8	45.4	45.9	45.6
	11	43.5	44.5	45.9	46.1	45.1	44.2	44.9	45.0	44.5	45.8	45.5	45.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	45.0
	13	45.8	47.2	46.1	45.8	45.6	45.0	44.0	45.0	44.9	44.1	44.2	44.3	43.5
	14	44.9	46.1	45.1	45.4	45.0	44.5	43.2	43.9	42.9	42.6	44.9	44.0	43.7
	15	43.4	44.0	46.0	46.0	45.1	44.8	44.8	44.9	44.4	44.8	44.9	45.2	45.5
	16	43.1	44.1	45.5	46.5	45.4	44.6	45.1	45.2	45.2	45.4	45.9	45.9	45.7
	17	43.8	44.8	45.2	45.4	45.5	45.0	45.3	45.6	45.7	45.6	45.9	46.0	46.0
	18	43.5	45.2	46.9	46.4	45.4	45.0	45.1	45.1	45.2	45.9	45.9	45.7	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	41.8
	20	43.0	44.1	45.1	45.2	44.9	44.8	45.1	45.2	45.3	45.2	45.2	45.2	45.1
	21	44.7	44.9	45.2	45.0	44.9	44.6	45.0	44.9	45.3	45.8	46.0	46.0	46.0
	22	45.3	46.3	46.5	46.0	45.5	45.0	46.0	45.5	45.9	46.2	46.5	47.4	47.9
	23	45.0	45.6	45.7	45.4	45.4	44.4	44.5	44.8	44.0	44.1	43.9	45.3	45.0
	24	44.2	44.8	44.9	45.0	44.0	43.4	44.2	44.1	44.2	44.9	44.3	45.0	45.9
	25	45.6	46.0	45.8	46.2	45.5	44.6	44.3	45.0	44.5	45.0	45.2	46.0	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	46.0
	27	45.1	45.1	46.0	45.9	45.8	45.0	45.1	45.0	45.2	45.1	45.5	46.0	46.7
	28	44.6	45.0	45.9	45.7	45.9	45.4	45.5	45.5	45.6	46.0	46.0	45.9	45.7
	29	45.9	46.9	47.4	47.3	46.5	46.0	45.9	45.9	46.3	46.2	46.4	47.1	47.0
	30	47.0	46.0	46.0	46.0	45.2	44.8	44.9	45.0	45.2	45.3	44.9	45.8	46.1
Hourly Means	44.43	45.21	45.76	45.78	45.19	44.69	44.72	44.77	44.48	44.82	45.14	45.34	45.46	

DECLINATION.
Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
MAY.	2	44·4	44·7	44·8	45·4	45·3	45·8	46·0	43·5	40·1	37·6	38·8	44·01
	3	45·0	45·0	45·2	45·2	45·3	46·2	46·2	43·9	40·1	38·8	40·1	44·05
	4	44·6	44·7	45·2	45·0	44·8	45·0	45·9	42·9	39·5	37·7	38·1	44·25
	5	44·5	44·4	45·0	44·9	45·2	46·8	46·9	44·4	41·2	40·0	40·0	43·73
	6	43·9	43·9	44·9	44·9	45·1	46·1	45·9	43·9	42·0	40·5	41·0	43·34
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	43·8	44·0	43·9	44·0	43·9	44·8	44·5	43·0	45·3	39·1	40·6	43·38
	9	44·1	44·5	44·4	45·0	46·2	46·0	44·6	42·6	40·0	38·2	40·1	43·64
	10	45·2	45·1	47·3	48·3	45·7	46·6	46·9	43·7	41·3	41·4	43·1	44·63
	11	46·9	46·5	46·1	46·1	46·5	45·1	45·4	43·4	41·9	43·2	45·6	45·02
	12	45·8	45·5	45·3	45·1	45·0	45·9	46·9	45·5	42·8	41·0	42·5	45·02
	13	45·6	45·4	45·3	45·2	45·1	45·7	45·9	43·2	40·5	40·0	41·1	44·47
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	45·5	45·8	46·0	46·4	45·7	47·1	48·1	45·1	43·8	42·9	44·1	45·18
	16	43·2	43·0	43·6	41·5	43·3	43·8	44·3	42·0	39·6	40·9	43·5	42·92
	17	44·9	44·3	44·2	44·0	45·6	45·4	44·9	43·1	41·8	41·0	42·5	43·65
	18	45·4	45·0	45·8	46·0	45·5	45·8	46·1	45·0	43·6	43·1	43·2	44·77
	19	44·7	44·9	44·7	44·9	45·2	46·5	46·1	44·5	42·7	42·0	42·4	44·32
	20	45·0	45·0	45·0	45·6	46·2	46·7	47·1	44·9	42·1	41·4	41·2	44·48
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	45·0	44·9	44·9	45·4	45·3	46·0	46·0	43·5	41·1	45·3	41·2	44·25
	23	45·3	45·0	45·0	45·0	45·6	46·0	46·6	45·0	42·6	41·7	44·1	44·56
	24	45·9	46·1	46·0	45·9	45·7	46·8	46·6	45·2	42·8	41·0	42·9	45·13
	25	45·2	45·9	45·5	45·1	45·0	45·4	46·9	45·6	43·2	42·6	43·3	45·16
	26	45·9	46·2	46·0	46·0	46·1	46·5	46·2	44·7	42·7	41·9	42·5	45·20
	27	46·3	46·1	46·2	46·2	46·1	46·0	46·0	43·9	41·7	40·1	41·9	45·13
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	46·1	46·0	46·5	46·3	46·0	46·9	47·0	46·5	44·1	44·1	44·5	45·73
	30	46·4	46·5	46·8	47·1	46·8	47·5	48·2	47·0	44·9	43·9	44·0	45·96
	31	45·6	45·9	46·0	46·0	46·0	46·4	47·6	44·5	44·5	43·0	44·0	45·50
	Hourly Means	45·16	45·17	45·37	45·40	45·47	46·03	46·26	44·25	42·15	41·25	42·17	
JUNE.	1	45·9	46·1	46·3	46·3	48·1	48·8	48·4	46·9	44·0	42·8	41·2	46·05
	2	46·0	47·4	48·4	47·0	46·6	46·7	46·4	44·1	42·1	42·7	42·9	45·44
	3	46·6	46·8	47·3	46·9	46·9	47·0	46·3	43·9	41·8	42·2	45·1	45·39
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	44·6	45·3	45·0	45·1	45·1	45·5	46·5	45·1	42·9	41·4	41·3	44·01
	6	45·0	45·9	45·1	44·0	45·2	45·2	46·8	45·0	42·0	41·3	41·3	43·86
	7	44·0	44·7	44·8	45·0	45·3	47·1	47·1	45·1	41·6	39·9	40·8	44·10
	8	45·9	45·5	45·9	47·0	45·9	46·1	47·1	45·3	43·0	40·7	42·5	44·55
	9	49·4	49·1	46·6	45·2	45·2	46·0	46·5	44·9	43·4	43·3	43·8	45·11
	10	47·3	46·1	45·8	45·9	46·1	46·9	47·2	45·2	42·8	42·4	43·0	45·34
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	45·8	45·8	46·0	45·4	45·6	45·9	48·2	47·4	46·0	45·0	45·4	45·50
	13	41·9	45·5	42·8	44·8	45·5	45·3	46·0	48·8	46·0	45·1	44·7	45·08
	14	46·2	45·7	46·7	47·8	46·0	47·9	48·2	47·9	43·9	43·6	43·1	45·13
	15	46·2	46·4	46·4	46·8	47·4	46·5	47·3	45·6	48·3	42·7	43·0	45·43
	16	45·9	45·7	45·7	46·0	46·1	46·7	48·0	47·2	45·1	42·2	42·0	45·34
	17	45·4	45·7	46·3	45·9	46·4	46·8	47·4	46·4	43·3	43·0	42·9	45·39
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	41·1	42·9	43·9	43·4	43·7	43·9	44·2	45·1	44·0	42·9	42·4	44·36
	20	45·1	45·1	45·2	45·2	45·2	45·5	46·0	45·0	43·9	42·8	43·5	44·83
	21	46·1	46·2	46·0	45·9	46·2	47·0	48·1	47·7	46·0	46·6	45·0	45·80
	22	45·7	45·9	46·8	46·0	44·1	47·8	48·5	47·1	45·3	45·1	45·1	46·14
	23	45·6	46·0	46·6	46·1	47·3	47·6	49·2	46·8	45·0	44·0	43·4	45·45
	24	45·4	46·1	46·5	45·1	45·4	46·1	47·1	45·8	43·9	43·1	43·8	44·88
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	46·9	46·0	46·0	46·3	46·2	47·5	48·6	48·5	46·5	45·1	45·1	45·93
	27	46·4	46·2	46·3	46·4	46·3	46·5	47·9	47·4	46·0	45·4	44·7	45·88
	28	45·9	46·0	46·0	46·0	46·0	46·0	47·9	47·0	45·1	44·2	44·9	45·78
	29	47·1	47·3	47·5	47·5	48·5	48·4	48·3	48·7	47·2	46·5	46·8	47·03
	30	46·8	46·2	47·8	46·8	45·9	46·0	48·9	49·3	47·4	45·5	43·9	46·15
	Hourly Means	45·70	45·98	46·07	45·92	46·01	46·57	47·39	46·43	44·48	43·44	43·52	

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
JULY.	1	44.0	45.6	46.2	45.8	44.1	43.8	43.8	43.6	44.4	44.4	43.1	43.9	46.8
	2	41.6	41.9	43.0	42.2	41.7	40.1	38.2	33.0	36.0	35.2	37.0	41.9	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	47.8
	4	46.8	43.0	41.9	41.9	37.4	38.9	38.9	39.2	40.0	38.8	41.2	41.0	42.0
	5	41.3	42.6	43.5	43.5	43.0	42.5	43.0	43.2	43.2	44.0	44.0	44.2	44.2
	6	44.3	43.0	44.1	44.8	44.5	44.0	44.2	44.2	44.6	45.0	45.3	45.0	44.2
	7	46.1	45.4	45.2	45.0	44.1	43.9	44.0	44.3	44.7	45.0	45.1	45.2	45.8
	8	43.7	44.2	45.1	45.8	45.5	45.0	44.9	44.8	44.6	44.9	45.1	45.0	45.1
	9	48.1	46.2	46.7	45.4	45.0	45.3	43.7	43.8	42.6	44.5	42.7	46.3	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	45.7
	11	45.2	45.0	44.5	45.0	45.0	44.9	44.1	43.9	44.3	44.4	45.5	45.5	45.6
	12	43.3	44.4	46.0	46.0	45.0	44.0	44.0	43.8	44.2	45.0	45.1	45.5	45.7
	13	44.7	44.0	45.2	46.0	45.3	45.4	45.5	45.4	45.7	45.8	45.9	46.5	46.1
	14	44.7	46.1	47.0	47.4	46.0	45.4	45.6	45.9	46.0	46.0	45.9	46.0	46.1
	15	44.4	44.9	45.2	45.9	45.2	45.0	45.0	45.0	45.2	45.3	45.7	45.8	45.8
	16	44.0	43.1	44.3	45.1	45.7	44.9	45.0	45.3	45.7	45.7	45.0	46.0	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	47.0
	18	45.5	45.4	46.2	46.9	46.1	45.2	45.5	45.9	46.0	46.2	46.5	46.9	47.2
	19	46.1	45.1	45.5	45.0	45.4	44.9	44.8	45.2	45.6	45.7	45.7	45.3	46.3
	20	46.1	45.9	46.5	46.2	45.9	44.7	45.0	45.3	45.8	45.4	44.7	45.9	45.9
	21	47.0	46.6	46.9	46.1	46.2	45.1	45.2	45.7	45.7	46.0	46.2	46.4	46.5
	22	46.9	46.8	46.8	47.9	47.0	46.1	45.2	45.9	46.2	46.1	45.9	46.2	47.0
	23	45.0	45.3	46.1	47.2	46.2	45.0	45.1	45.1	46.0	45.3	44.8	44.7	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	46.2
	25	44.3	44.9	46.9	47.9	46.0	45.0	45.0	45.5	45.6	46.0	46.3	46.8	46.9
	26	43.2	45.7	46.3	46.1	45.1	44.7	45.0	45.1	45.2	45.8	46.0	46.1	46.3
	27	43.0	45.6	46.6	46.0	45.0	44.8	44.8	44.9	45.0	45.5	46.0	46.8	46.7
	28	44.0	46.2	47.5	46.7	45.7	45.8	45.8	45.9	46.2	46.3	45.8	46.0	46.6
	29	43.0	44.9	45.9	46.2	45.0	44.1	43.9	44.0	44.1	43.0	44.5	44.8	45.9
	30	43.0	43.8	44.2	44.9	44.2	44.0	44.1	44.5	44.5	44.2	42.8	44.9	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	44.8
Hourly Means	44.59	44.83	45.51	45.65	44.82	44.33	44.20	44.17	44.50	44.60	44.68	45.33	45.93	
AUGUST.	1	38.2	39.3	43.1	44.2	42.8	41.8	40.8	41.9	42.7	43.2	43.5	44.1	45.4
	2	40.4	41.9	43.9	44.8	44.2	43.9	43.9	44.0	44.5	44.9	45.0	45.1	45.1
	3	42.1	45.0	46.3	45.8	45.0	44.9	45.0	45.2	45.2	45.6	45.2	45.2	46.0
	4	42.9	44.9	47.0	47.4	46.9	46.1	45.9	45.9	45.9	46.1	46.4	46.7	47.1
	5	43.0	44.2	45.9	46.1	45.1	44.2	44.3	44.6	44.9	45.0	44.5	45.0	45.0
	6	43.9	44.2	45.0	46.0	45.4	42.6	44.2	44.0	44.0	40.0	43.1	43.9	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	44.9
	8	46.4	44.0	46.1	46.2	45.2	44.3	44.5	44.5	44.7	44.9	44.6	44.0	44.8
	9	40.9	44.0	46.0	45.9	45.1	44.8	45.0	45.0	45.0	45.0	45.1	45.2	45.2
	10	41.3	44.5	46.0	47.9	45.8	45.5	45.5	45.3	45.9	45.8	44.0	44.8	44.7
	11	43.0	44.0	47.0	47.2	46.1	45.5	45.3	45.1	45.2	45.2	45.7	45.9	46.1
	12	43.9	44.8	47.5	48.0	46.8	45.3	45.0	43.4	45.0	45.0	42.9	45.2	45.1
	13	46.9	44.3	46.2	46.9	45.9	45.2	46.0	45.9	45.9	45.9	46.0	46.3	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	45.7
	15	41.8	42.8	43.6	44.9	45.3	45.4	46.1	46.2	46.8	46.3	46.9	46.9	46.9
	16	43.9	45.0	45.9	47.2	47.1	46.3	46.8	47.0	47.0	46.9	46.3	46.9	46.9
	17	44.3	45.8	46.5	47.6	46.7	45.7	46.0	46.0	46.3	46.6	46.8	46.9	46.9
	18	42.9	44.9	46.2	47.1	46.4	45.0	46.8	44.1	47.2	47.0	46.6	44.3	46.7
	19	43.7	44.2	45.1	45.0	46.2	44.4	46.0	43.8	45.0	45.2	48.6	43.9	44.5
	20	42.2	43.0	44.3	45.5	45.9	45.2	45.4	45.9	46.1	45.9	43.1	44.5	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	45.0
	22	43.0	43.4	44.8	46.1	46.7	45.0	44.6	45.0	45.9	46.0	45.7	44.7	45.3
	23	41.2	42.0	44.8	46.4	46.1	45.1	45.0	45.5	45.6	45.7	46.0	46.1	46.2
	24	41.8	42.1	43.1	44.6	45.0	43.1	43.1	44.9	45.1	45.5	45.4	44.0	45.0
	25	42.7	43.7	44.3	44.2	44.5	44.0	44.4	44.8	44.1	45.1	45.0	46.0	45.8
	26	43.9	45.2	45.0	45.7	46.5	45.3	45.2	45.1	45.0	45.4	45.0	46.0	47.9
	27	43.7	46.0	46.0	47.0	47.0	46.0	46.0	46.1	46.1	46.1	46.1	46.0	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	46.5
	29	44.8	46.7	47.4	47.4	47.1	47.0	46.8	46.9	46.9	46.8	46.3	47.0	47.0
	30	44.2	45.2	46.8	47.8	47.9	46.6	46.2	46.5	46.1	47.0	46.6	46.9	45.9
	31	43.0	46.8	48.9	49.2	48.9	47.1	47.0	47.0	47.3	47.3	47.4	47.5	47.5
Hourly Means	42.96	44.14	45.66	46.37	45.99	45.01	45.21	45.17	45.53	45.53	45.47	45.52	45.93	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
JULY.	1	45·5	42·9	46·5	47·4	47·4	66·0	60·0	55·0	49·2	49·2	42·9	47·15
	2	—	—	—	—	—	—	—	—	—	—	—	44·45
	3	54·1	46·1	52·1	48·3	53·1	61·4	47·2	42·1	52·7	45·8	44·4	42·45
	4	42·9	44·3	44·1	45·8	45·0	45·4	45·6	43·9	42·9	43·1	44·8	44·31
	5	45·1	44·0	44·9	45·3	45·4	46·7	47·0	46·5	46·3	44·9	45·2	45·33
	6	44·8	44·6	45·6	46·1	45·5	46·4	48·8	50·1	47·1	45·7	46·1	45·22
	7	45·4	45·9	45·5	46·0	46·1	46·7	47·2	46·4	44·3	43·9	44·0	45·77
	8	45·0	47·3	45·4	45·6	46·1	45·8	48·7	48·9	47·2	46·9	47·9	45·84
	9	—	—	—	—	—	—	—	—	—	—	—	45·11
	10	45·5	47·0	47·0	46·6	46·0	45·7	47·2	48·0	48·0	47·2	46·0	45·28
	11	45·4	46·0	46·4	45·8	46·3	46·9	47·3	46·4	44·6	44·7	44·0	45·29
	12	46·6	45·3	47·0	45·4	45·9	46·1	47·0	47·1	45·2	44·9	44·5	45·56
	13	46·5	46·1	46·4	46·3	46·0	46·3	47·2	46·1	44·0	43·3	43·7	46·00
	14	46·1	45·6	45·6	45·1	45·2	45·9	47·2	47·5	46·6	46·3	44·7	45·81
	15	45·9	45·7	46·1	46·0	48·1	47·6	48·4	48·8	45·8	44·8	43·9	45·80
	16	—	—	—	—	—	—	—	—	—	—	—	45·5
	17	47·0	46·0	46·1	46·1	46·1	46·8	48·1	47·8	46·9	46·1	45·5	46·30
	18	47·6	46·9	47·3	47·1	46·7	46·0	47·5	46·8	46·1	44·7	44·9	46·10
	19	46·9	46·9	47·1	48·0	47·0	47·3	46·5	45·9	48·0	46·1	46·1	45·90
	20	48·9	47·1	46·0	46·4	46·0	46·2	46·9	45·9	45·0	45·0	45·0	46·26
	21	46·9	46·8	46·4	47·1	47·5	47·1	47·9	46·3	45·3	44·4	45·0	46·49
	22	47·7	47·3	47·0	48·0	47·8	47·1	47·2	46·9	44·9	43·8	44·1	45·90
	23	—	—	—	—	—	—	—	—	—	—	—	45·81
	24	46·8	47·2	47·0	48·4	48·0	46·6	47·0	45·9	44·5	43·8	42·2	45·73
	25	47·1	47·0	46·1	46·4	47·0	48·0	47·4	45·6	42·6	41·2	42·0	45·39
	26	47·0	47·0	47·8	47·1	47·4	47·4	46·7	43·3	41·8	41·6	41·7	45·74
	27	46·8	46·9	47·0	47·0	47·0	47·2	47·0	46·0	45·0	44·1	43·1	45·98
	28	46·5	46·7	46·6	46·7	46·5	47·6	47·4	46·4	44·9	43·4	42·4	45·27
	29	46·2	49·5	45·6	46·3	47·8	48·2	47·8	45·9	44·6	43·5	41·8	45·02
	30	—	—	—	—	—	—	—	—	—	—	—	44·03
	31	45·4	45·1	47·9	49·6	47·9	49·3	49·8	47·6	44·0	41·0	38·9	Hourly Means
Hourly Means	46·52	46·20	46·56	46·69	46·88	48·14	47·92	46·81	45·67	44·59	44·03		
AUGUST.	1	45·1	46·1	46·9	46·4	46·6	47·7	47·1	45·4	43·7	42·3	41·3	43·73
	2	45·0	45·0	45·0	45·1	45·8	46·0	47·3	46·1	43·0	40·0	39·6	44·15
	3	45·2	45·2	45·5	45·9	45·8	46·3	47·2	45·0	42·0	40·5	41·4	44·85
	4	46·5	48·2	44·0	45·0	45·8	47·2	48·0	47·8	43·8	41·3	40·5	45·72
	5	46·1	45·1	45·1	45·7	48·9	48·0	48·7	49·2	43·9	42·0	42·2	45·28
	6	—	—	—	—	—	—	—	—	—	—	—	44·60
	7	45·5	45·2	47·9	47·1	46·6	46·4	46·8	44·8	42·5	41·1	45·3	44·75
	8	45·7	44·7	45·6	45·8	45·9	47·0	47·2	44·7	42·1	41·2	40·0	44·75
	9	45·9	46·1	46·1	46·8	46·2	46·9	48·1	45·7	41·9	39·2	38·9	45·39
	10	45·1	46·0	46·7	46·1	46·5	47·9	47·0	45·9	43·3	46·0	41·9	45·90
	11	46·1	46·8	47·2	46·7	48·3	48·3	48·3	47·3	44·7	42·7	43·9	45·84
	12	46·1	46·1	47·3	47·0	47·0	47·7	48·2	46·5	44·0	46·4	46·0	45·88
	13	—	—	—	—	—	—	—	—	—	—	—	45·68
	14	46·3	46·1	46·7	47·2	47·8	47·9	48·0	46·3	44·0	42·7	41·1	47·00
	15	46·1	46·7	46·5	46·6	47·1	48·1	48·8	46·6	44·1	43·4	42·3	46·55
	16	46·5	48·8	47·4	47·4	49·1	50·0	51·5	48·8	46·5	44·1	44·7	46·41
	17	46·9	46·8	46·5	46·1	49·2	49·1	51·3	48·1	46·7	43·4	41·1	45·34
	18	46·2	46·7	46·9	46·8	50·5	49·7	51·7	49·3	46·1	43·2	41·5	45·08
	19	45·1	46·8	46·2	46·4	46·5	48·1	50·0	48·2	44·2	41·0	40·0	45·60
	20	—	—	—	—	—	—	—	—	—	—	—	45·44
	21	46·3	46·2	46·7	46·9	47·0	47·6	48·3	46·0	42·9	40·3	41·8	45·27
	22	46·0	47·7	46·7	46·9	46·7	47·9	49·2	46·9	44·3	43·0	43·0	46·04
	23	47·3	46·3	47·0	47·1	47·1	47·6	48·5	46·7	43·7	41·9	41·6	46·56
	24	46·2	48·1	47·0	47·6	47·8	47·8	44·7	46·9	44·1	41·6	42·0	46·95
	25	46·2	46·0	47·9	47·3	47·9	48·3	48·9	46·1	43·9	42·3	43·0	46·67
	26	46·7	46·1	48·2	47·1	47·0	48·0	49·8	48·4	45·5	43·8	43·1	46·98
	27	—	—	—	—	—	—	—	—	—	—	—	44·24
	28	46·7	46·9	47·7	47·1	47·4	48·6	49·7	48·8	47·1	44·8	44·1	42·48
	29	47·0	47·2	47·2	47·5	48·0	49·3	50·2	48·4	45·9	44·0	44·0	42·12
	30	47·0	47·2	47·5	48·0	48·3	49·1	49·7	48·3	45·7	42·7	41·9	
	31	47·7	47·9	47·9	48·1	48·2	49·1	49·1	46·4	45·0	42·1	41·1	
Hourly Means	46·17	46·52	46·71	46·73	47·37	47·99	48·64	46·99	44·24	42·48	42·12		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
SEPTEMBER.	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.	
	1	43.9	46.5	47.3	48.3	47.8	47.3	47.3	47.7	47.8	47.3	47.1	47.0	
	2	43.0	45.2	45.8	47.5	46.9	45.7	46.9	46.1	42.0	45.0	45.0	43.9	
	3	41.1	42.7	44.7	45.2	45.7	45.9	45.9	46.5	46.0	46.3	45.9	45.3	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	46.1
	5	40.8	43.7	46.9	48.7	48.1	46.6	46.0	44.5	46.2	46.0	46.2	44.4	44.8
	6	40.1	42.7	46.3	48.0	47.0	46.1	46.0	46.0	46.1	45.2	45.9	46.3	46.1
	7	39.2	42.1	45.2	47.0	46.9	46.0	46.2	46.2	46.2	46.8	46.8	46.7	47.0
	8	42.4	44.0	46.3	47.4	47.1	46.8	46.1	46.8	46.5	46.3	46.7	46.9	46.5
	9	41.6	43.2	45.3	47.5	47.2	45.7	45.9	45.3	45.1	45.7	46.3	46.5	46.8
	10	42.8	44.9	46.3	47.3	47.2	46.5	46.4	46.7	47.0	47.0	47.0	46.8	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	46.2
	12	42.1	44.9	47.0	47.9	47.3	46.4	46.6	46.3	46.9	46.3	45.3	44.1	45.8
	13	40.8	42.3	44.7	44.4	43.6	44.9	45.8	46.6	46.3	46.2	45.8	46.5	45.1
	14	42.0	43.7	45.0	46.5	46.3	45.8	45.9	46.0	46.0	46.5	46.6	46.4	46.4
	15	45.2	47.3	47.7	47.0	46.8	46.1	46.4	46.3	46.1	45.5	45.9	45.4	46.0
	16	45.6	46.4	47.5	47.4	47.2	46.3	46.4	46.9	46.2	46.2	46.2	45.2	45.4
	17	43.7	45.4	46.0	46.2	46.4	46.0	46.1	47.1	46.3	46.1	46.0	45.7	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	45.6
	19	43.2	45.9	46.3	47.0	46.8	46.0	46.6	47.3	47.1	45.4	43.5	45.0	45.1
	20	44.6	46.1	46.9	47.1	45.6	44.9	44.1	43.5	43.0	43.8	44.6	45.9	45.0
	21	43.6	44.3	45.5	45.5	43.0	44.0	43.4	44.6	45.1	46.2	44.8	44.1	45.1
	22	43.0	45.2	47.0	46.5	45.8	45.8	45.7	44.0	45.2	44.8	45.2	45.9	46.0
	23	42.8	44.2	45.4	46.1	46.2	46.0	45.7	45.2	45.8	46.3	45.9	46.4	47.2
	24	44.1	46.8	48.3	48.1	46.8	45.9	44.5	45.8	45.0	45.3	46.0	46.8	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	47.7
	26	43.3	45.2	47.2	48.2	47.9	47.0	47.0	47.6	47.8	47.9	47.8	47.6	47.3
	27	45.3	48.0	48.5	48.1	47.7	46.7	46.1	47.0	47.0	47.0	46.9	46.8	46.9
	28	48.2	50.3	49.9	49.0	48.0	47.1	47.3	48.1	47.0	47.4	47.9	46.9	46.9
	29	48.3	48.7	49.2	48.5	46.8	46.0	46.0	46.4	46.9	46.9	46.9	46.8	46.9
30	49.2	51.8	51.7	49.8	47.4	46.7	46.2	47.0	47.0	47.0	47.0	45.9	46.9	
Hourly Means	43.46	45.44	46.84	47.32	46.67	46.08	46.02	46.21	46.06	46.18	46.12	45.97	46.13	
OCTOBER.	1	49.0	50.3	50.6	49.0	47.5	46.9	47.0	47.2	47.1	47.0	46.2	46.9	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	46.5
	3	48.7	50.3	50.2	48.2	46.6	45.8	46.9	47.0	47.0	46.7	46.6	47.3	47.5
	4	46.8	47.9	48.8	47.8	49.7	44.8	45.6	46.0	46.2	46.5	46.1	46.0	46.2
	5	47.4	50.2	50.5	48.0	46.0	43.5	45.6	45.2	45.9	46.0	46.0	46.0	45.8
	6	46.9	49.3	49.4	48.0	45.8	44.9	45.0	45.8	46.2	46.3	46.5	46.5	46.1
	7	45.4	47.2	48.2	47.0	45.5	45.1	45.9	46.0	45.3	45.9	46.0	46.1	46.1
	8	45.9	47.5	48.1	47.3	45.0	44.2	44.5	41.5	44.5	44.4	45.8	44.7	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	44.2
	10	41.4	43.9	44.9	46.0	45.7	45.0	44.8	45.2	45.3	45.4	45.0	45.0	44.9
	11	42.0	43.4	44.9	45.1	44.9	44.8	44.7	45.0	45.0	45.6	45.7	45.3	45.1
	12	42.8	45.3	47.1	46.9	46.1	44.9	44.8	45.1	45.2	45.2	45.1	45.1	45.1
	13	46.3	48.3	48.8	47.1	45.2	43.9	43.2	45.1	43.1	41.9	43.4	44.5	45.0
	14	44.2	45.1	44.6	44.4	43.4	42.9	43.2	43.0	44.4	45.0	45.0	44.9	44.8
	15	48.9	48.1	48.1	46.4	45.2	44.8	44.1	44.1	44.7	44.2	44.0	43.1	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	43.7
	17	43.2	43.9	43.8	44.9	44.0	40.7	42.0	41.2	41.9	41.9	43.0	44.0	44.2
	18	46.8	46.0	45.0	44.8	44.4	43.6	43.0	43.7	44.7	43.0	45.0	44.0	43.2
	19	45.8	46.0	45.0	44.2	43.1	42.9	42.0	43.2	45.0	44.8	43.6	43.7	44.1
	20	47.0	46.9	46.1	44.7	43.3	43.2	43.9	44.1	45.0	44.2	44.7	45.1	45.8
	21	45.2	46.8	47.1	45.8	43.3	42.8	44.0	44.8	45.0	43.9	44.8	44.8	45.0
	22	44.2	46.3	46.1	45.2	43.9	43.0	44.2	44.9	45.2	45.5	45.7	45.3	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	44.2
	24	43.9	45.5	45.8	45.5	44.4	44.2	44.3	44.7	45.1	45.0	44.2	44.9	44.5
	25	44.9	47.3	48.2	48.1	47.1	45.7	44.9	44.9	44.0	44.1	44.3	44.2	43.7
	26	46.3	47.0	46.1	45.3	44.1	44.1	44.7	45.2	44.9	43.0	42.9	42.5	42.8
	27	45.2	45.9	46.4	44.7	44.3	42.6	43.3	43.3	42.8	43.0	43.2	43.9	43.9
	28	45.0	45.9	46.9	45.3	43.7	43.1	43.3	43.7	42.8	43.3	44.0	44.3	44.5
	29	45.8	44.9	44.5	44.0	43.8	43.7	44.2	44.0	44.7	44.2	43.2	43.1	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	44.0
	31	45.1	45.5	45.9	45.2	43.6	42.8	43.8	44.2	44.8	45.0	44.8	44.7	44.5
Hourly Means	45.54	46.72	46.96	46.11	44.98	44.00	44.34	44.54	44.84	44.65	44.80	44.84	44.82	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
SEPTEMBER.	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	47·2	47·1	47·3	47·8	48·5	49·3	49·0	43·3	43·3	40·5	41·0	46·53
	2	49·2	46·5	47·6	46·3	47·1	49·0	49·0	47·7	43·5	42·0	41·0	45·63
	3	—	—	—	—	—	—	—	—	—	—	—	45·80
	4	46·2	46·8	47·0	46·8	46·8	49·1	52·0	48·8	45·8	41·7	40·8	45·71
	5	45·9	46·2	45·9	46·1	47·0	48·8	49·9	48·5	44·7	42·0	39·1	45·47
	6	46·8	46·6	46·5	47·8	48·2	49·2	49·2	47·0	42·3	39·0	36·9	46·10
	7	47·0	46·7	47·3	47·2	47·6	49·7	50·6	48·0	48·8	41·0	40·1	46·15
	8	46·0	46·7	47·2	47·3	47·7	49·9	50·8	47·9	44·2	40·7	39·5	45·72
	9	46·7	46·3	46·6	46·2	47·0	48·7	49·2	47·3	44·3	41·7	41·1	45·63
	10	—	—	—	—	—	—	—	—	—	—	—	45·37
	11	45·9	45·9	45·0	46·5	45·7	49·3	48·6	45·6	41·8	38·7	40·0	45·30
	12	45·4	45·2	48·0	47·4	47·3	48·4	47·1	42·5	40·9	40·0	39·8	45·72
	13	45·0	46·0	48·9	52·9	48·8	48·5	46·9	44·3	41·9	40·3	40·8	45·87
	14	46·4	46·3	46·3	46·3	47·0	48·6	48·4	45·7	42·8	42·5	43·9	45·99
	15	45·7	45·9	46·1	46·0	46·0	47·9	47·7	46·1	42·9	42·1	42·9	45·48
	16	45·0	45·0	45·4	46·9	46·7	48·8	49·8	46·0	43·1	41·9	42·2	45·33
	17	—	—	—	—	—	—	—	—	—	—	—	45·51
	18	46·3	45·5	46·0	46·2	46·5	48·0	47·6	45·2	42·6	40·0	41·0	44·60
	19	44·9	45·4	45·3	45·1	45·4	46·8	47·3	45·2	43·0	41·5	42·7	45·63
	20	48·8	46·7	46·0	45·9	46·1	48·0	50·0	48·2	43·5	41·8	42·1	45·99
	21	46·8	48·0	46·4	46·2	47·0	48·2	46·4	43·3	40·8	38·2	40·0	46·16
	22	47·8	49·1	48·5	47·2	47·9	50·2	45·0	45·8	41·9	39·9	41·7	46·49
	23	—	47·4	47·3	47·4	48·0	49·9	49·0	46·7	44·0	42·2	42·6	46·65
	24	—	—	—	—	—	—	—	—	—	—	—	47·31
	25	47·4	47·3	47·3	47·9	48·0	48·8	47·2	48·7	41·3	41·0	41·8	46·56
	26	47·0	46·7	46·8	47·0	47·7	49·8	48·5	45·1	42·1	41·3	41·9	46·82
	27	46·8	46·8	46·6	46·6	46·5	48·3	48·0	45·9	44·2	43·0	45·0	46·12
	28	46·1	47·1	45·7	45·3	46·0	50·0	50·0	45·9	45·0	44·4	45·9	46·22
	29	47·0	48·2	48·8	47·0	46·8	46·3	45·1	43·2	42·7	42·9	45·2	46·04
30	47·4	47·8	47·8	46·2	45·9	45·3	42·9	41·7	42·3	44·8	48·0	45·28	
Hourly Means	46·59	46·66	46·83	46·90	47·05	48·65	48·28	45·91	43·22	41·35	41·81	43·86	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	46·22	
	2	47·0	46·8	46·4	47·0	46·2	44·6	41·9	40·2	39·6	42·4	46·0	
	3	46·5	46·3	46·0	45·8	46·6	45·8	43·6	40·8	39·3	41·0	44·4	
	4	46·1	45·9	45·7	45·6	45·5	46·0	44·0	41·9	40·4	41·4	44·8	
	5	45·8	45·5	45·2	45·1	44·4	44·5	44·0	42·0	40·1	40·9	43·1	
	6	46·0	45·6	45·6	45·0	44·9	44·1	43·0	41·1	39·5	40·7	42·3	
	7	45·5	45·0	45·1	44·1	45·2	44·3	43·3	41·9	41·1	42·1	44·9	
	8	—	—	—	—	—	—	—	—	—	—	—	
	9	44·5	44·2	44·3	44·4	45·3	46·9	46·1	43·5	41·3	40·1	39·8	
	10	44·9	44·7	44·2	44·0	44·3	44·9	43·8	41·7	39·9	38·7	39·6	
	11	44·9	44·7	44·5	44·4	45·0	44·9	43·5	42·2	40·7	41·9	41·9	
	12	44·9	44·8	44·9	45·1	45·1	43·9	42·4	39·9	38·0	39·7	43·5	
	13	45·3	44·3	44·0	43·8	43·9	43·0	41·0	39·2	38·8	40·9	42·6	
	14	44·6	44·2	44·0	43·5	44·0	44·1	40·8	39·4	41·1	45·9	48·0	
	15	—	—	—	—	—	—	—	—	—	—	—	
	16	45·1	45·5	44·9	44·0	42·8	41·9	39·9	38·8	39·1	40·6	42·2	
	17	44·5	44·0	45·0	43·5	43·0	40·9	39·1	38·9	42·5	44·9	46·3	
	18	43·0	44·6	43·5	42·7	41·9	42·0	39·8	38·7	38·8	41·4	44·3	
	19	43·7	43·3	42·5	42·9	42·2	41·1	39·5	38·1	38·5	41·4	45·3	
	20	45·0	44·3	44·6	44·0	44·5	43·8	42·4	39·3	38·2	38·9	42·2	
	21	44·9	44·8	44·0	43·7	43·5	43·1	40·9	38·0	37·1	38·0	41·8	
	22	—	—	—	—	—	—	—	—	—	—	—	
	23	43·8	43·7	42·1	41·7	43·0	42·9	40·8	38·9	38·3	38·9	40·9	
	24	44·3	44·4	44·0	44·1	43·7	43·2	41·1	37·8	37·5	39·2	42·5	
	25	44·1	43·7	43·7	44·9	44·0	43·0	41·0	38·1	36·2	38·0	43·0	
	26	43·0	43·3	43·0	42·3	41·1	39·0	36·9	34·9	35·8	38·9	42·4	
	27	43·7	43·8	42·9	43·0	42·1	40·1	38·1	37·1	38·9	40·5	42·9	
	28	44·3	43·6	42·8	42·8	42·1	40·0	38·4	37·3	37·7	40·0	43·1	
	29	—	—	—	—	—	—	—	—	—	—	—	
	30	43·0	42·2	42·1	42·0	40·4	39·0	37·8	37·5	39·2	40·8	43·3	
	31	44·0	43·7	43·5	43·2	42·2	39·0	36·2	35·0	35·9	38·7	42·6	
Hourly Means	44·71	44·50	44·17	43·95	43·73	42·92	41·13	39·31	38·98	40·61	43·22	43·29	

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	Sc. Div.	
	1	46.0	46.9	46.9	45.4	44.1	43.7	44.6	45.3	45.3	45.3	45.4	45.6	45.4
	2	46.3	47.6	47.1	45.8	44.9	44.8	45.6	46.1	46.3	45.8	43.8	43.7	43.9
	3	46.5	46.2	47.1	47.8	45.9	44.2	43.0	42.4	43.0	44.3	43.2	44.0	45.2
	4	46.1	46.4	46.2	46.2	45.2	45.0	45.3	45.7	45.3	46.2	46.0	46.0	45.9
	5	47.6	48.7	49.0	48.0	46.5	45.2	45.5	46.1	46.7	46.8	46.4	46.3	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	46.5
	7	40.3	44.7	46.9	46.9	46.0	44.4	44.6	45.9	46.0	45.7	45.8	45.9	45.9
	8	43.9	46.9	47.7	47.0	45.7	44.8	45.0	45.8	45.8	45.2	45.9	46.0	46.2
	9	46.8	49.3	48.7	47.3	47.1	47.3	47.1	47.5	47.1	47.0	46.0	46.0	46.5
	10	47.7	49.9	48.4	46.3	44.8	44.7	44.0	44.3	44.7	44.1	44.9	45.1	44.8
	11	45.4	45.4	45.8	45.1	45.7	44.5	44.8	44.7	44.9	44.5	44.4	44.2	44.4
	12	42.9	44.2	45.1	45.2	45.0	44.2	44.1	44.7	44.7	44.7	44.7	45.1	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	44.8
	14	44.9	45.9	46.2	45.7	45.1	44.7	44.9	45.1	45.2	45.2	45.1	45.0	45.0
	15	45.0	46.5	47.1	46.3	45.9	45.3	44.9	44.9	45.0	45.1	45.5	45.2	45.7
	16	44.0	45.5	44.7	43.9	43.3	43.0	42.9	43.0	41.8	43.8	45.1	45.9	45.9
	17	45.3	47.0	46.1	45.0	44.9	44.6	44.8	45.1	45.0	45.2	45.2	45.5	46.0
	18	42.2	43.7	44.2	43.4	43.7	43.6	44.1	44.9	44.9	45.0	45.4	44.9	44.6
	19	41.9	43.0	43.7	42.9	42.5	42.9	44.1	45.4	46.1	46.1	46.9	45.9	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	45.1
	21	47.9	47.6	46.4	44.9	44.1	44.0	45.0	46.3	45.9	45.0	43.0	42.3	42.2
	22	41.1	44.0	45.0	43.0	42.5	40.9	41.0	42.6	43.0	44.0	43.2	43.0	43.0
	23	40.6	42.3	42.8	42.6	42.0	40.9	41.1	41.9	41.9	41.7	41.9	42.0	42.1
	24	44.8	45.8	46.0	44.2	43.9	42.2	42.0	42.5	42.6	43.0	42.3	42.1	42.1
	25	40.5	42.2	43.3	42.8	41.9	41.5	42.0	42.0	42.6	42.5	42.1	41.9	41.9
	26	41.2	41.5	41.9	42.8	43.0	43.1	43.0	43.1	43.3	43.0	43.0	43.4	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	42.4
	28	41.2	41.9	41.9	42.4	43.5	44.8	44.9	44.4	44.5	44.3	43.9	43.9	43.2
	29	41.8	43.0	42.4	42.1	43.0	44.3	44.8	44.2	44.8	44.9	45.0	44.4	43.8
	30	42.2	42.9	42.5	43.1	43.7	44.7	44.5	43.9	44.0	43.7	42.9	42.9	43.0
Hourly Means	44.00	45.35	45.50	44.85	44.38	43.97	44.14	44.53	44.63	44.70	44.50	44.47	44.44	
DECEMBER.	1	45.6	47.0	47.0	45.5	44.1	44.0	43.4	43.9	44.1	44.3	44.0	44.0	43.9
	2	43.2	44.8	44.6	44.0	44.0	44.4	44.9	45.0	45.0	44.9	44.5	44.3	44.1
	3	46.9	46.0	44.9	43.8	42.5	43.0	43.9	44.6	44.5	44.4	44.2	44.0	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	43.8
	5	43.0	43.6	43.8	43.3	43.1	43.9	44.2	44.5	44.4	45.0	45.2	45.0	44.6
	6	45.8	46.1	45.0	43.5	43.0	44.0	44.2	44.1	43.6	42.7	43.4	43.6	42.7
	7	41.7	44.4	45.9	43.9	43.3	43.2	42.9	41.9	41.7	41.7	41.1	40.9	42.8
	8	42.4	44.0	44.8	43.7	42.3	41.9	41.9	42.1	41.0	42.2	42.9	43.1	43.0
	9	47.1	46.1	45.3	43.9	43.3	42.9	40.3	38.4	40.2	37.8	41.0	40.2	41.5
	10	43.6	43.8	43.9	42.1	41.5	41.4	42.0	42.2	42.0	42.0	42.1	43.3	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	42.4
	12	41.1	41.9	42.8	43.1	44.2	43.8	43.4	43.2	43.4	43.7	43.8	43.2	42.7
	13	44.0	43.6	42.2	43.5	43.2	45.2	45.9	45.2	45.2	43.4	42.9	42.6	41.5
	14	42.2	41.2	40.9	40.2	41.0	42.1	42.1	43.0	43.0	42.9	42.8	42.3	41.9
	15	43.5	43.3	43.0	41.5	40.0	41.3	41.9	41.9	42.0	41.1	42.1	42.2	42.1
	16	42.2	43.3	43.1	42.5	41.7	41.9	42.0	41.9	41.9	42.1	42.5	42.2	42.1
	17	44.5	45.9	45.0	44.0	44.0	44.1	43.9	43.5	44.2	44.0	44.2	44.1	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	42.7
	19	45.4	46.5	46.6	45.0	42.8	42.3	42.5	43.0	43.9	44.0	44.1	43.2	44.0
	20	46.0	48.2	47.8	46.5	45.1	44.9	44.1	45.0	45.0	44.9	45.0	44.8	44.4
	21	45.0	45.8	46.4	45.8	45.3	44.6	44.0	44.1	44.7	44.6	44.4	44.2	44.1
	22	44.0	45.1	46.1	45.8	45.8	45.9	45.8	46.0	46.2	46.2	46.6	46.5	45.7
	23	37.8	40.3	42.3	42.2	42.5	42.8	42.5	43.0	43.3	43.5	43.9	43.8	43.8
	24	40.9	44.2	45.5	45.3	45.7	45.1	43.9	43.5	44.1	44.0	44.1	43.8	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	44.0
	26	41.5	43.0	44.8	44.7	44.1	44.7	43.9	43.5	44.0	44.1	44.1	43.9	43.4
	27	43.2	44.8	44.1	42.7	42.0	43.3	44.0	42.6	44.3	44.6	44.4	43.8	44.8
	28	41.1	42.4	42.7	42.2	42.1	42.8	43.1	42.9	42.4	43.9	43.4	43.5	43.1
	29	42.5	43.7	44.1	44.0	44.0	43.8	42.3	42.0	42.6	43.0	43.0	43.0	42.7
	30	42.0	43.0	43.2	42.2	42.1	43.2	43.1	43.0	43.5	44.0	44.1	44.0	43.8
	Hourly Means	43.31	44.31	44.45	43.65	43.18	43.48	43.31	43.23	43.47	43.43	43.61	43.44	43.29

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
NOVEMBER.	1	44·9	44·2	45·0	44·7	43·5	41·0	37·5	35·7	38·3	40·2	43·9	43·70
	2	43·9	43·9	43·0	42·0	40·7	39·1	37·8	36·6	37·2	40·7	45·4	43·42
	3	45·0	45·1	44·7	44·2	41·9	40·0	39·8	40·1	40·7	43·1	44·5	43·83
	4	45·4	45·1	44·8	44·4	44·1	43·3	40·0	39·3	41·6	43·7	45·7	44·70
	5	—	—	—	—	—	—	—	—	—	—	—	44·14
	6	46·3	46·1	46·5	45·6	45·1	42·7	38·7	34·9	33·9	34·1	36·3	43·49
	7	45·8	45·4	45·1	44·8	44·2	42·4	38·3	35·2	34·8	37·6	41·2	44·19
	8	46·1	46·8	45·5	45·4	45·0	42·8	37·9	34·9	36·5	40·1	43·6	45·17
	9	45·4	45·6	45·7	45·0	42·6	41·6	39·3	38·3	39·9	41·8	45·1	43·80
	10	44·4	43·7	42·9	42·4	41·7	39·9	40·2	40·0	39·7	40·3	42·3	43·55
	11	44·9	43·7	43·4	42·7	41·3	41·0	39·9	40·6	40·8	41·2	41·9	43·58
	12	—	—	—	—	—	—	—	—	—	—	—	43·0
	13	44·7	44·4	43·7	42·9	43·2	43·0	40·9	39·8	39·7	41·1	43·0	43·48
	14	44·9	44·9	45·0	45·1	43·9	41·4	37·3	34·9	35·6	39·4	43·0	43·51
	15	45·2	44·9	44·9	44·3	43·0	39·9	36·0	36·0	36·9	38·9	41·8	42·87
	16	45·1	45·7	45·4	45·0	43·2	39·9	36·8	36·1	37·3	39·5	42·0	43·60
	17	46·7	47·2	46·1	44·9	43·3	40·4	37·0	35·8	36·0	38·7	40·5	42·30
	18	44·4	44·2	44·2	43·8	42·2	39·5	36·0	34·1	35·0	37·1	40·0	42·95
	19	—	—	—	—	—	—	—	—	—	—	—	41·33
	20	45·0	44·0	43·3	43·5	41·5	37·3	36·3	36·0	38·1	42·5	46·9	40·99
	21	38·3	37·0	41·0	37·4	37·7	35·1	35·8	34·1	35·0	36·7	39·2	40·70
	22	42·6	42·0	41·9	40·9	38·5	39·6	36·0	34·1	35·0	37·6	39·3	41·09
	23	42·4	42·6	41·9	41·2	40·2	37·0	35·1	35·0	36·0	39·2	42·5	40·97
	24	43·0	42·2	41·3	41·1	40·1	38·1	35·9	34·0	34·0	35·0	38·0	41·11
	25	41·4	41·3	41·0	40·9	40·4	38·9	37·6	37·3	37·5	38·9	40·8	42·20
	26	—	—	—	—	—	—	—	—	—	—	—	42·19
	27	42·1	41·9	41·9	41·2	39·8	37·2	36·2	36·2	37·1	38·6	39·7	41·88
	28	42·2	42·0	41·0	40·0	38·1	39·3	39·2	40·5	42·4	41·7	41·6	41·68
	29	43·0	42·5	42·3	41·2	40·0	37·0	37·0	38·0	39·7	41·2	42·2	42·19
	30	42·2	41·1	40·6	40·2	40·0	38·0	37·1	36·7	39·0	42·5	43·8	41·88
Hourly Means	44·05	43·75	43·54	42·88	41·74	39·82	37·68	36·70	37·60	39·67	42·08		
DECEMBER.	1	43·5	42·9	42·6	42·0	40·5	38·1	37·3	36·7	35·1	36·8	39·8	42·33
	2	43·8	43·2	42·3	41·8	39·9	36·5	34·1	33·9	36·9	42·1	46·0	42·43
	3	—	—	—	—	—	—	—	—	—	—	—	41·87
	4	43·2	42·3	42·0	41·0	40·1	37·0	35·1	34·1	35·2	38·0	40·4	42·42
	5	43·4	43·1	42·5	42·0	40·8	39·9	37·2	36·6	37·2	38·8	42·9	41·80
	6	42·5	42·1	41·1	40·7	40·6	38·7	36·1	37·0	36·4	38·0	38·3	41·25
	7	40·2	41·0	41·1	41·0	40·0	37·9	36·2	36·9	38·2	40·0	42·1	42·40
	8	43·1	42·9	42·3	41·3	41·2	40·2	40·4	39·8	41·6	43·8	45·8	41·50
	9	41·3	42·2	41·9	41·9	40·5	39·1	38·0	38·4	39·2	42·0	43·4	41·71
	10	—	—	—	—	—	—	—	—	—	—	—	41·71
	11	42·3	42·0	42·2	41·8	41·2	40·6	38·3	37·7	39·1	41·3	42·2	42·06
	12	42·5	41·9	41·8	41·2	40·2	37·9	36·3	37·1	40·5	44·2	45·5	42·11
	13	40·9	39·4	38·6	38·9	39·3	38·3	37·4	40·3	42·1	43·8	43·2	40·97
	14	41·8	41·3	41·3	40·6	39·9	38·5	36·5	36·3	38·2	41·1	42·2	41·21
	15	42·2	41·2	40·4	40·1	39·2	37·6	37·9	39·2	41·0	42·3	42·1	41·21
	16	42·1	42·0	41·5	41·0	40·2	38·0	36·0	36·5	38·8	40·7	42·8	42·33
	17	—	—	—	—	—	—	—	—	—	—	—	42·56
	18	43·0	42·5	41·9	41·0	40·0	38·4	37·3	37·1	38·4	40·2	42·0	43·85
	19	43·8	42·2	41·8	41·9	41·0	39·2	37·9	37·6	38·1	40·8	43·9	43·42
	20	44·2	43·8	43·2	43·1	41·2	37·7	38·1	39·4	41·6	43·7	44·8	44·03
	21	43·9	43·9	44·0	43·7	42·7	41·0	38·8	37·7	39·2	41·5	42·7	41·91
	22	45·8	44·3	44·1	43·2	43·1	41·8	40·8	40·8	40·9	38·9	37·2	42·88
	23	43·9	43·5	42·9	43·0	42·2	41·4	41·0	40·3	39·3	38·4	38·2	42·93
	24	—	—	—	—	—	—	—	—	—	—	—	42·51
	25	43·8	43·0	42·9	42·7	41·1	40·2	39·9	40·1	39·9	40·3	41·0	42·53
	26	43·3	43·2	42·8	42·6	42·2	41·7	40·1	39·5	41·0	42·0	42·1	42·18
	27	43·5	43·3	41·0	41·4	40·1	39·8	39·5	40·7	41·0	41·6	39·7	42·48
	28	43·1	43·0	42·5	41·4	40·5	40·1	41·1	42·4	44·1	44·4	42·5	42·18
	29	42·7	42·2	42·5	42·3	40·6	37·7	37·1	39·4	41·2	43·1	42·7	42·48
	30	42·9	42·2	42·0	41·6	41·3	39·9	39·1	39·0	41·9	43·8	44·7	
Hourly Means	42·95	42·48	42·05	41·66	40·75	39·12	37·98	38·25	39·46	41·22	42·24		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
Dec. 31	44.5	44.0	44.0	43.5	43.1	43.2	43.4	43.5	44.0	44.1	44.0	43.9	—	
1	—	—	—	—	—	—	—	—	—	—	—	—	43.0	
2	50.0	50.2	46.9	43.9	41.1	40.0	40.7	42.2	41.2	42.9	43.0	42.1	41.2	
3	42.9	45.0	44.9	43.1	41.9	41.1	41.0	41.0	43.0	43.0	43.0	42.5	42.0	
4	45.3	45.8	44.4	43.7	42.8	42.5	42.0	42.5	43.0	42.8	42.9	42.7	42.8	
5	44.3	44.9	44.0	42.8	42.8	42.5	42.3	42.8	43.1	43.2	43.0	43.0	43.0	
6	44.1	45.3	44.9	43.1	41.9	42.1	42.0	42.1	42.9	43.0	43.0	43.2	43.0	
7	43.1	46.0	46.9	45.9	44.8	43.9	43.5	43.7	43.8	43.8	44.0	43.6	—	
8	—	—	—	—	—	—	—	—	—	—	—	—	43.8	
9	43.3	43.9	43.9	43.1	43.1	44.1	44.0	43.1	43.2	43.9	43.8	43.5	43.9	
10	42.2	42.2	43.0	44.0	44.2	44.0	44.4	43.4	44.0	44.5	44.6	44.6	42.9	
11	41.8	42.0	42.8	43.1	44.0	44.2	44.6	43.8	41.9	42.0	43.2	43.0	43.0	
12	42.9	43.9	43.4	43.0	42.9	43.2	43.9	43.4	43.9	43.9	44.0	43.4	43.9	
13	42.0	40.9	39.7	40.4	41.8	43.2	44.0	44.0	44.4	44.3	44.2	44.0	43.9	
14	43.6	43.0	42.1	42.0	42.9	43.8	44.1	44.0	44.3	44.2	44.5	44.1	—	
15	—	—	—	—	—	—	—	—	—	—	—	—	44.0	
16	45.3	45.3	45.2	44.0	43.0	43.7	44.2	44.8	45.8	45.8	45.7	44.6	44.2	
17	43.9	45.9	46.1	44.1	43.1	43.0	43.2	43.7	44.0	44.2	44.1	44.1	44.0	
18	43.2	44.7	44.7	43.7	43.0	44.2	44.2	43.5	43.6	44.0	43.8	43.2	43.0	
19	41.9	43.1	44.9	45.0	44.2	44.0	43.9	43.2	43.7	43.9	44.1	44.2	44.8	
20	42.9	45.3	46.1	46.7	44.9	44.2	44.1	44.0	44.1	44.5	44.6	44.5	44.2	
21	43.1	45.8	45.0	44.3	44.0	44.3	44.1	44.2	44.1	44.2	44.2	44.4	—	
22	—	—	—	—	—	—	—	—	—	—	—	—	42.9	
23	40.2	41.5	43.0	42.1	41.3	41.4	42.0	42.0	42.1	43.0	43.4	43.1	43.9	
24	38.8	40.2	41.0	41.9	43.8	44.1	43.6	43.0	43.0	43.2	43.0	42.4	42.1	
25	37.7	38.8	40.8	41.1	42.0	43.1	43.7	42.7	43.0	43.4	43.3	43.3	43.0	
26	43.6	44.1	43.1	41.2	42.2	43.7	44.2	43.5	43.1	43.9	43.9	43.7	43.5	
27	46.0	44.0	42.2	42.2	42.1	43.8	44.9	45.0	44.7	44.5	44.3	44.7	44.7	
28	46.0	44.9	42.7	42.4	43.5	42.6	40.3	43.0	43.2	43.3	43.7	42.8	—	
29	—	—	—	—	—	—	—	—	—	—	—	—	42.3	
30	43.9	43.8	42.0	41.2	40.3	40.6	41.2	41.8	42.1	42.2	42.2	42.1	42.0	
31	44.2	44.9	45.1	44.0	42.8	42.1	41.9	42.8	43.0	42.9	42.8	42.9	42.9	
Hourly Means	43.36	44.05	43.86	43.17	42.87	43.06	43.16	43.21	43.41	43.65	43.71	43.47	43.26	
FEBRUARY.	1	45.6	44.0	44.0	43.9	43.1	42.2	42.0	42.0	42.3	42.8	42.8	42.6	42.3
	2	41.9	43.2	43.8	43.0	42.0	41.3	41.3	42.0	42.0	42.3	42.8	42.8	42.7
	3	46.5	46.9	45.7	45.8	44.6	43.5	42.9	43.2	43.7	43.8	43.8	43.5	43.4
	4	45.0	47.0	47.8	47.0	45.6	44.1	44.0	45.1	45.2	44.8	44.5	44.6	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	43.4
	6	41.6	43.2	45.0	44.8	44.8	44.5	43.6	42.6	42.2	40.7	37.0	42.2	43.2
	7	42.7	43.7	43.0	43.9	45.1	43.2	43.2	41.7	43.7	43.9	43.9	43.9	44.1
	8	43.0	45.7	45.6	44.2	44.8	44.5	43.8	43.9	44.0	44.0	43.6	43.3	42.9
	9	42.0	42.8	42.7	42.0	41.8	42.3	43.2	43.0	43.0	43.1	43.2	43.1	43.0
	10	43.1	44.0	43.7	42.7	43.0	42.9	42.2	41.9	42.1	42.5	42.9	42.9	42.5
	11	43.1	43.7	44.1	43.8	43.3	43.1	43.3	43.7	43.3	42.8	43.2	43.2	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	43.0
	13	48.1	47.4	45.2	43.2	42.1	41.8	43.0	43.2	43.5	43.1	40.4	42.8	43.2
	14	45.3	47.0	47.0	45.4	43.0	41.2	41.0	41.3	41.4	40.0	42.0	43.0	43.5
	15	44.3	46.5	46.6	44.9	42.3	41.6	41.2	41.9	42.5	42.0	43.1	43.2	43.8
	16	45.0	46.8	46.9	45.5	43.9	42.6	42.4	43.0	41.8	42.9	43.2	43.5	43.7
	17	46.2	48.8	48.8	47.1	44.8	42.6	42.2	43.2	43.0	43.3	43.2	42.7	43.1
	18	37.3	42.3	44.8	45.2	44.9	42.9	42.4	42.8	42.3	42.8	43.0	43.7	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	43.7
	20	41.9	45.8	46.5	46.1	45.0	43.8	43.2	43.1	44.0	44.1	44.0	43.2	43.0
	21	42.1	47.0	48.5	48.1	46.8	45.0	44.5	44.3	44.5	44.0	44.0	44.1	44.2
	22	41.2	43.6	44.8	45.3	45.1	44.6	44.2	44.2	44.2	44.7	44.6	44.5	44.2
	23	49.1	48.1	47.2	46.7	45.4	44.7	44.3	44.4	44.5	44.7	44.7	44.8	44.8
	24	45.9	46.2	45.2	47.5	47.4	45.5	45.0	44.2	44.2	43.2	42.4	41.0	41.0
	25	44.5	45.2	45.4	45.1	44.2	44.1	43.8	43.4	43.8	44.0	43.1	43.7	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	44.0
	27	42.8	45.5	46.3	46.0	45.5	44.2	43.3	43.8	43.9	43.8	43.1	43.0	43.0
	28	43.8	45.4	45.8	44.8	44.0	43.0	42.7	43.0	43.1	43.1	43.2	43.1	43.0
Hourly Means	43.83	45.41	45.60	45.08	44.27	43.30	43.03	43.12	43.26	43.18	42.99	43.27	43.28	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.
Dec. 31	—	—	—	—	—	—	—	—	—	—	—	—
1	42·8	41·0	39·8	40·0	38·8	38·0	38·0	37·7	40·3	44·9	48·1	42·40
2	41·1	41·4	41·0	40·2	40·0	39·6	40·2	39·7	39·7	41·2	42·3	42·16
3	41·9	41·5	41·4	41·3	40·9	39·4	38·5	39·1	40·5	41·7	44·0	41·86
4	42·1	42·2	41·9	40·8	40·5	38·9	38·9	39·1	40·2	42·3	43·7	42·24
5	42·9	42·9	42·7	42·1	42·0	41·1	40·0	39·5	41·1	42·9	43·0	42·58
6	42·9	42·7	41·5	41·3	40·1	40·9	41·0	39·2	39·4	40·9	42·7	42·22
7	—	—	—	—	—	—	—	—	—	—	—	42·53
8	43·7	43·0	42·9	42·7	42·0	41·9	41·2	39·4	39·3	40·7	41·9	43·15
9	43·7	43·6	43·4	43·0	43·0	43·3	43·9	43·9	43·9	44·1	42·2	43·53
10	43·0	43·6	42·0	42·1	41·3	40·9	41·2	41·5	42·5	42·9	43·1	43·00
11	43·0	42·9	42·9	41·9	41·0	39·9	39·9	39·0	39·5	40·6	42·2	42·18
12	43·8	43·0	42·8	42·4	42·5	40·9	39·8	39·8	41·9	42·8	42·9	42·85
13	43·1	42·5	42·1	41·9	40·4	39·0	38·1	39·0	40·9	44·0	45·4	42·22
14	—	—	—	—	—	—	—	—	—	—	—	43·14
15	43·9	43·5	43·2	42·6	41·6	41·3	40·4	39·3	42·3	45·2	45·5	43·50
16	43·9	43·2	42·9	42·4	42·1	40·0	40·0	39·8	41·3	43·0	43·9	42·77
17	43·2	43·1	42·6	42·4	40·6	39·8	38·0	37·4	39·9	42·1	43·9	42·53
18	43·0	42·9	42·1	41·9	41·8	42·0	40·3	38·0	38·9	39·9	41·1	43·08
19	44·2	44·0	43·2	43·0	42·6	41·6	39·9	39·8	41·1	41·8	41·8	43·38
20	44·0	43·9	43·9	43·8	42·6	41·8	40·2	39·1	39·6	40·2	41·9	42·92
21	—	—	—	—	—	—	—	—	—	—	—	42·69
22	43·1	42·9	42·3	41·6	41·2	41·0	40·1	39·7	41·2	41·2	41·1	41·51
23	42·9	42·9	42·0	42·4	41·6	39·8	38·6	38·5	39·2	40·2	39·2	41·52
24	41·8	41·4	42·4	41·8	41·4	40·4	40·4	40·3	39·5	38·2	38·7	41·96
25	42·9	42·8	42·2	42·1	41·3	39·9	39·1	40·2	42·7	43·8	44·1	43·13
26	43·2	43·0	42·9	42·8	42·6	40·6	40·5	41·0	43·4	45·6	45·8	42·86
27	44·5	42·9	42·1	41·8	40·6	38·2	37·2	38·3	40·8	43·9	45·3	42·04
28	—	—	—	—	—	—	—	—	—	—	—	41·03
29	41·9	41·0	40·5	39·7	40·3	38·4	38·2	38·9	41·2	43·7	44·4	42·43
30	42·1	41·8	41·0	40·9	40·3	38·2	36·3	36·4	38·2	40·9	43·2	—
31	42·7	42·5	42·0	41·6	41·2	39·5	37·1	38·1	41·8	43·5	45·9	—
Hourly Means	43·01	42·67	42·21	41·87	41·27	40·23	39·52	39·32	40·75	42·30	43·23	—
1	42·2	42·2	42·0	41·8	41·1	40·0	38·1	36·8	37·7	38·2	40·0	41·65
2	42·8	42·4	42·0	41·3	40·2	37·3	35·6	36·0	38·2	40·4	43·9	41·30
3	43·2	43·0	42·7	42·4	42·0	40·4	38·2	35·6	36·9	39·4	42·3	42·64
4	—	—	—	—	—	—	—	—	—	—	—	42·77
5	43·7	43·0	42·0	42·3	41·1	40·1	38·9	37·3	35·1	35·9	38·9	41·65
6	43·2	42·4	44·0	42·9	42·0	40·1	38·0	36·8	36·5	38·1	40·3	42·70
7	43·7	43·4	43·4	43·5	43·7	43·0	41·3	40·3	39·0	37·8	39·8	42·56
8	42·8	42·6	42·5	43·4	43·1	41·1	39·0	37·0	38·0	38·4	40·2	42·08
9	42·3	42·3	42·3	42·3	42·3	41·4	39·6	38·7	38·9	41·7	43·0	41·70
10	42·2	42·2	42·5	41·8	41·4	39·4	38·1	37·8	38·7	39·2	41·2	42·24
11	—	—	—	—	—	—	—	—	—	—	—	42·48
12	43·3	43·6	42·9	43·9	41·9	40·4	37·3	34·3	36·8	40·5	45·3	41·88
13	44·2	41·9	41·5	41·4	40·7	40·2	39·9	40·3	39·3	40·7	42·5	42·30
14	44·2	43·2	42·7	42·7	41·9	40·8	38·9	36·5	34·8	37·5	40·7	42·40
15	43·0	44·2	43·5	42·6	42·2	41·7	39·4	36·8	36·2	39·4	42·2	41·93
16	43·4	43·1	42·8	42·6	42·7	—	39·4	35·7	35·0	37·2	42·1	41·74
17	43·1	43·3	42·0	41·9	42·0	41·3	40·0	36·7	33·3	31·7	32·1	42·63
18	—	—	—	—	—	—	—	—	—	—	—	43·32
19	42·9	43·0	42·7	42·7	42·6	43·2	42·2	38·9	35·2	34·1	36·1	43·85
20	44·9	43·6	43·7	43·6	43·2	43·3	41·7	38·1	35·3	34·9	37·2	43·94
21	44·2	44·1	44·0	43·9	43·9	43·3	41·1	37·8	35·9	36·2	38·2	42·85
22	44·2	44·2	44·3	44·1	44·0	43·9	41·0	38·2	39·8	44·8	48·7	42·54
23	43·4	44·2	43·6	43·2	43·1	42·7	39·8	37·2	37·0	41·8	45·2	42·29
24	42·7	42·4	42·2	40·9	42·0	41·9	38·5	37·8	38·1	40·1	43·2	41·92
25	—	—	—	—	—	—	—	—	—	—	—	—
26	44·0	43·4	42·6	42·4	42·5	42·9	40·8	38·0	35·6	36·4	38·1	—
27	42·8	42·5	42·3	42·4	42·2	42·8	40·9	37·0	33·9	34·9	39·0	—
28	42·8	42·2	42·1	42·2	42·2	41·9	40·0	36·8	33·9	35·0	39·0	—
Hourly Means	43·30	43·02	42·76	42·59	42·25	41·44	39·49	37·35	36·63	38·10	40·80	—

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
MARCH.	1	42.7	45.0	45.2	45.5	44.7	43.4	42.9	43.0	43.8	43.4	43.2	43.0	43.2
	2	43.9	45.9	46.0	45.0	43.8	42.9	42.9	43.0	43.2	43.6	43.6	43.6	43.5
	3	42.1	44.8	45.6	45.5	44.7	43.7	43.7	43.7	43.9	43.8	43.8	44.1	44.3
	4	42.9	45.8	47.3	47.3	45.6	43.9	43.3	43.3	43.1	42.2	42.0	42.8	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	44.0
	6	40.0	43.0	44.1	44.9	45.7	44.2	43.8	42.7	42.7	42.3	40.0	39.4	39.0
	7	39.1	40.3	42.0	42.0	42.1	39.6	38.1	39.1	38.4	40.1	40.7	41.0	41.2
	8	41.5	43.1	44.8	44.9	44.2	43.2	43.0	42.8	42.8	42.9	42.7	42.9	42.7
	9	42.2	43.3	44.3	45.0	44.1	43.6	43.3	43.3	43.1	43.0	43.7	43.2	43.1
	10	43.8	44.8	44.2	43.3	42.7	43.2	43.3	42.9	42.8	43.0	43.0	42.7	42.0
	11	43.8	44.8	44.0	43.5	43.5	42.6	43.0	43.2	42.8	43.1	42.4	42.9	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	40.1
	13	40.6	42.0	42.2	42.4	41.9	40.8	41.4	41.8	41.4	41.9	42.0	42.0	41.9
	14	42.9	44.0	43.1	42.8	42.0	41.2	42.0	41.9	42.0	42.0	41.8	41.9	41.9
	15	41.2	43.8	44.0	44.0	42.8	42.5	42.3	42.4	42.2	41.6	42.2	42.1	42.0
	16	40.0	42.1	42.8	42.4	42.1	41.5	42.1	42.0	42.0	42.0	42.0	41.7	42.0
	17	41.1	42.3	42.6	42.7	43.0	42.3	42.0	42.1	42.1	41.8	41.6	41.4	40.7
	18	43.8	44.5	44.2	43.9	42.8	42.1	40.2	41.1	42.0	42.0	40.6	41.2	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	42.1
	20	41.5	43.3	43.1	43.2	42.6	42.6	42.7	43.0	43.0	43.0	41.9	42.7	42.7
	21	43.6	44.2	44.3	43.4	42.9	42.2	42.2	42.0	41.7	41.8	42.0	42.0	42.5
	22	40.8	42.9	43.9	43.8	42.8	42.6	42.4	42.4	42.5	42.1	41.8	41.7	41.1
	23	42.2	44.0	43.9	43.7	42.9	41.8	40.9	40.1	41.9	42.0	41.8	41.7	41.7
	24	42.7	43.8	43.9	43.1	42.8	42.5	42.4	42.3	42.3	42.1	42.1	42.0	42.0
	25	41.1	43.2	44.5	44.2	43.7	43.0	42.3	42.5	42.5	42.2	42.3	42.2	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	42.1
	27	41.7	43.6	43.7	42.8	42.2	41.9	41.9	42.0	42.0	42.1	42.2	42.0	41.9
	28	40.2	42.1	42.3	41.8	41.1	41.3	41.4	42.0	42.0	42.1	42.2	42.2	42.1
	29	44.5	45.7	45.3	44.1	42.8	42.0	42.6	42.0	40.5	39.6	38.0	39.8	41.0
	30	40.9	42.5	42.7	42.2	41.3	40.4	40.8	41.0	40.3	41.5	41.4	41.4	41.1
	31	44.4 ^a	45.0	43.9	42.0	41.5	41.1	41.1	41.2	41.6	41.9	41.7	41.6	—
Hourly Means	41.95	43.65	44.00	43.75	43.11	42.35	42.19	42.22	42.19	42.20	41.96	42.06	42.00	
APRIL.	1 ^b	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	—	
	8	—	—	—	—	—	—	—	—	—	—	—	—	
	9	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	
	11	—	—	—	—	—	—	—	—	—	—	—	—	
	12	—	—	—	—	—	—	—	—	—	—	—	—	
	13	—	—	—	—	—	—	—	—	—	—	—	—	
	14	—	—	—	—	—	—	—	—	—	—	—	—	
	15	—	—	—	—	—	—	—	—	—	—	—	—	
	16	—	—	—	—	—	—	—	—	—	—	—	—	
	17	—	—	—	—	—	—	—	—	—	—	—	—	
	18	—	—	—	—	—	—	—	—	—	—	—	—	
	19	—	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	—	
	21	—	—	—	—	—	—	—	—	—	—	—	—	
	22	—	—	—	—	—	—	—	—	—	—	—	—	
	23	—	—	—	—	—	—	—	—	—	—	—	—	
	24	—	—	—	—	—	—	—	—	—	—	—	—	
	25	—	—	—	—	—	—	—	—	—	—	—	—	
	26	—	—	—	—	—	—	—	—	—	—	—	—	
	27	—	—	—	—	—	—	—	—	—	—	—	—	
	28	—	—	—	—	—	—	—	—	—	—	—	—	
	29	—	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	—	—	—	—	—	—	—	—	—	—	—	—	—	

^a Not included in the means.

^b The observations were suspended during this month, and the

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MARCH.	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	43·2	43·0	42·7	42·8	42·1	42·8	40·7	37·0	34·0	35·0	39·6	42·16
	2	43·5	43·1	43·0	43·0	42·9	42·2	39·9	34·8	32·0	33·2	37·9	41·93
	3	44·0	44·0	43·7	43·5	43·6	43·2	40·9	37·6	35·0	35·9	39·2	42·68
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	44·1	44·1	42·5	43·3	42·7	42·6	41·5	39·9	37·9	36·7	37·1	42·75
	6	40·2	39·1	40·3	39·8	43·1	41·6	40·1	38·5	36·1	35·1	37·2	40·95
	7	41·2	41·8	42·1	42·0	41·9	41·3	39·9	38·5	37·8	38·4	39·8	40·35
	8	42·7	42·5	42·3	42·8	42·5	41·8	39·5	36·5	36·1	38·8	40·7	41·99
	9	43·0	42·8	42·2	43·2	42·0	41·0	39·8	37·4	37·0	38·5	41·0	42·21
	10	42·0	42·0	42·1	43·0	42·4	42·1	41·1	38·2	36·1	37·1	41·2	42·04
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	41·7	42·7	42·1	42·1	41·3	40·4	38·8	38·3	38·1	38·1	38·6	41·75
	13	42·0	43·0	43·6	43·1	42·1	41·1	41·1	37·9	35·9	36·0	40·0	41·17
	14	41·7	41·7	41·8	42·0	42·0	41·9	40·9	38·4	37·0	37·1	38·9	41·37
	15	42·0	42·0	42·0	42·0	42·0	42·1	40·4	37·3	35·5	36·0	38·0	41·35
	16	42·0	41·8	41·8	41·8	42·1	41·8	40·9	39·0	36·9	36·7	39·0	41·19
	17	42·0	41·5	41·0	42·1	41·2	41·5	40·9	39·0	37·5	39·1	41·8	41·39
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	42·9	42·8	42·4	42·2	42·0	42·0	41·0	38·2	36·3	36·3	39·0	41·48
	20	43·5	43·0	43·1	43·2	42·8	42·9	40·7	38·5	37·1	38·6	41·7	42·10
	21	42·8	43·1	42·6	42·3	41·8	41·8	41·1	38·8	37·3	38·0	39·9	41·85
	22	41·9	41·9	40·3	40·0	39·9	39·2	39·4	38·0	37·8	39·7	41·5	41·27
	23	41·8	41·9	42·3	41·8	42·7	41·8	40·8	39·3	37·1	37·8	40·3	41·51
	24	42·0	42·0	42·0	42·0	42·0	41·0	39·0	37·0	36·6	37·9	39·4	41·45
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	42·1	41·6	41·2	41·1	41·0	41·0	39·5	37·0	36·1	38·5	40·5	41·48
	27	41·8	41·7	41·8	41·2	41·5	41·4	39·7	36·6	34·8	35·8	38·3	41·03
	28	42·0	42·0	42·0	42·0	41·7	41·2	38·9	36·6	36·4	39·5	42·6	41·15
	29	41·4	41·9	41·0	41·0	40·4	39·3	36·6	34·9	34·4	36·0	38·6	40·56
	30	41·6	41·0	41·0	41·0	41·0	40·0	38·1	35·9	35·1	37·4	42·0	40·48
31	—	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	42·27	42·23	42·03	42·09	41·95	41·50	40·05	37·66	36·23	37·20	39·76		
APRIL.	1 ^b	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	
	8	—	—	—	—	—	—	—	—	—	—	—	
	9	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	
	11	—	—	—	—	—	—	—	—	—	—	—	
	12	—	—	—	—	—	—	—	—	—	—	—	
	13	—	—	—	—	—	—	—	—	—	—	—	
	14	—	—	—	—	—	—	—	—	—	—	—	
	15	—	—	—	—	—	—	—	—	—	—	—	
	16	—	—	—	—	—	—	—	—	—	—	—	
	17	—	—	—	—	—	—	—	—	—	—	—	
	18	—	—	—	—	—	—	—	—	—	—	—	
	19	—	—	—	—	—	—	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	
	21	—	—	—	—	—	—	—	—	—	—	—	
	22	—	—	—	—	—	—	—	—	—	—	—	
	23	—	—	—	—	—	—	—	—	—	—	—	
	24	—	—	—	—	—	—	—	—	—	—	—	
	25	—	—	—	—	—	—	—	—	—	—	—	
	26	—	—	—	—	—	—	—	—	—	—	—	
	27	—	—	—	—	—	—	—	—	—	—	—	
	28	—	—	—	—	—	—	—	—	—	—	—	
	29	—	—	—	—	—	—	—	—	—	—	—	
	30	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	—	—	—	—	—	—	—	—	—	—	—	—	

instruments re-adjusted: the connexion of the readings of the Declinometer appears to have been broken.

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
MAY.	1	46.5	47.2	46.8	45.9	45.1	45.2	45.4	45.8	45.7	45.9	45.9	45.2	45.7
	2	44.7	46.1	46.3	45.9	45.0	44.7	45.0	45.0	45.0	45.0	45.1	45.1	45.5
	3	46.0	46.9	46.8	46.3	46.0	45.6	45.6	45.8	45.9	45.9	46.0	46.0	46.1
	4	46.0	47.6	48.0	47.0	46.0	45.1	45.0	45.5	45.4	45.4	45.9	45.7	45.9
	5	45.9	47.2	48.0	48.4	47.2	46.2	46.2	46.1	46.0	46.1	46.2	46.5	46.8
	6	46.8	48.8	49.0	48.6	47.2	47.0	46.8	46.9	45.9	45.8	39.3	32.0	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	46.2
	8	45.9	47.5	47.9	47.8	47.3	47.2	47.7	47.9	47.0	47.1	47.2	47.9	49.8
	9	47.8	47.1	47.0	47.3	47.0	47.3	47.9	48.0	46.9	47.0	49.0	48.0	48.3
	10	47.8	48.9	50.4	49.9	49.0	48.0	46.9	48.3	47.8	47.3	48.1	49.1	51.0
	11	50.4	50.6	50.0	50.0	49.4	49.0	48.8	49.1	49.8	49.6	50.1	50.5	51.0
	12	49.1	49.9	50.1	51.2	51.0	49.9	50.0	50.0	50.3	50.3	50.2	50.3	51.2
	13	50.1	51.0	50.3	50.3	50.2	50.0	49.8	50.0	50.4	50.6	51.0	51.1	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	53.1
	15	52.1	52.3	52.3	52.0	52.1	52.0	51.0	51.9	51.8	47.0	49.7	50.8	51.4
	16	52.0	52.0	52.0	52.2	50.9	51.0	50.9	51.0	51.5	51.5	51.6	53.0	52.0
	17	51.1	51.3	51.3	51.7	51.0	51.7	51.0	51.0	51.0	50.6	51.0	51.7	52.7
	18	50.2	50.6	51.1	51.8	51.6	51.1	51.1	51.0	50.8	51.8	51.7	51.9	52.2
	19	47.8	48.9	50.3	51.9	50.9	50.3	50.2	50.2	50.7	50.5	50.9	51.0	51.2
	20	51.1	51.9	52.2	52.7	51.5	51.0	51.3	51.6	51.6	51.9	52.0	52.1	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	22	51.7	52.0	53.2	54.4	53.1	52.3	52.6	52.7	53.2	53.4	53.9	54.0	54.0
	23	52.2	53.2	54.1	54.0	53.1	52.7	52.8	52.8	52.9	53.0	53.0	53.2	53.5
	24	51.9	53.2	55.0	55.3	54.0	53.2	53.7	54.0	54.4	54.6	54.7	54.9	54.9
	25	51.0	51.5	52.0	53.3	53.0	52.7	53.0	53.3	54.0	54.0	54.0	54.0	54.1
	26	52.2	53.0	53.5	54.1	54.0	53.9	53.3	53.3	54.2	53.2	53.2	53.0	52.7
	27	50.8	50.6	51.5	52.0	51.6	51.5	52.0	52.0	52.7	52.8	52.2	53.2	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	55.1
	29	53.3	54.0	55.2	55.0	54.0	53.1	52.8	52.8	53.8	54.0	54.5	54.1	54.2
	30	50.6	52.0	53.5	54.1	53.0	52.9	52.7	53.4	53.7	54.1	54.5	54.9	55.0
	31	52.9	53.2	54.1	54.1	53.0	52.8	53.0	53.3	54.0	54.0	54.1	54.9	55.0
Hourly Means	49.55	50.32	50.81	51.01	50.27	49.90	49.87	50.10	50.24	50.09	50.19	50.15	51.18	
JUNE.	1	52.4	53.3	54.1	54.5	53.8	53.5	53.8	53.9	54.0	54.0	53.9	53.8	53.8
	2	53.9	55.0	55.6	55.1	53.9	53.0	53.5	54.0	54.4	54.8	55.0	55.0	55.0
	3	52.0	52.2	53.0	52.9	52.0	51.9	52.0	52.0	52.0	53.0	53.7	54.4	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	54.2
	5	53.0	53.0	53.9	53.0	52.0	52.0	52.4	52.9	53.0	53.1	53.2	53.2	54.6
	6	50.4	50.2	51.4	52.2	52.0	51.9	52.4	52.8	53.0	53.0	53.3	53.7	54.0
	7	49.1	51.8	52.6	52.7	51.5	51.8	51.9	51.4	52.0	51.9	49.7	51.3	50.0
	8	53.1	54.2	55.5	55.2	53.2	53.0	53.0	53.7	53.7	53.8	53.7	54.0	53.8
	9	51.9	52.2	53.9	53.8	53.0	53.0	53.1	53.3	53.8	54.0	54.0	54.3	54.4
	10	53.9	54.2	53.2	53.2	52.0	51.3	51.6	51.9	52.2	50.9	52.0	51.8	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	12	50.1	51.8	52.1	51.7	51.0	50.5	50.1	51.0	51.2	51.0	52.0	51.4	52.5
	13	51.9	51.8	52.2	51.9	51.9	51.5	50.2	52.0	52.0	52.1	52.9	53.9	53.9
	14	52.5	53.4	53.9	53.2	52.1	52.2	52.7	53.0	53.1	53.2	53.3	53.8	53.8
	15	52.9	52.9	54.0	54.2	53.0	52.7	52.9	52.9	53.2	53.3	53.9	54.0	54.7
	16	52.9	54.2	54.2	53.4	53.0	53.0	53.2	53.1	53.3	53.2	53.7	53.7	53.9
	17	53.8	55.8	55.3	54.1	53.7	53.7	53.6	53.7	53.9	53.9	54.0	54.1	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	19	52.4	52.9	53.0	53.0	52.7	52.2	52.2	52.6	51.8	52.9	52.8	53.0	53.0
	20	51.1	52.0	53.6	54.1	53.7	53.3	53.3	53.2	53.5	52.0	54.4	54.2	54.1
	21	51.1	53.3	54.9	55.2	54.8	54.3	54.5	54.8	54.5	54.2	54.1	54.0	54.1
	22	52.9	53.8	55.0	54.9	54.7	54.1	54.1	54.4	54.7	54.7	54.9	55.9	55.6
	23	53.5	55.2	55.2	54.8	54.5	54.3	54.2	54.3	54.9	55.0	55.2	55.2	56.0
	24	54.7	55.7	55.6	55.2	54.9	54.0	54.0	54.0	54.7	55.0	55.1	55.1	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	55.3
	26	51.9	54.0	54.9	54.2	53.6	53.4	53.5	54.4	54.6	54.7	55.1	55.2	55.3
	27	52.1	54.0	54.7	55.2	54.6	54.5	54.8	55.0	55.0	55.1	55.9	55.8	56.0
	28	51.0	52.8	54.8	55.7	54.7	54.1	53.9	53.9	54.2	54.5	55.0	55.0	55.1
	29	53.0	53.2	54.1	54.0	53.8	53.9	53.8	53.7	54.1	54.4	54.2	54.0	55.0
	30	53.2	53.6	54.0	54.0	53.0	52.0	52.6	52.0	51.1	52.3	53.0	51.5	53.4
	Hourly Means	52.33	53.33	54.03	53.90	53.20	52.89	52.97	53.23	53.38	53.46	53.77	53.90	54.13

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
MAY.	1	45·8	46·0	46·9	46·9	46·2	46·3	44·7	42·0	39·1	39·8	42·0	45·08
	2	45·7	45·9	46·0	46·0	46·2	46·7	45·9	43·3	41·3	41·6	43·9	45·04
	3	46·1	46·0	46·4	46·1	46·2	46·2	46·1	43·5	41·5	40·2	42·2	45·39
	4	45·5	46·1	46·2	45·9	45·7	45·5	44·9	42·2	39·5	38·8	41·5	45·01
	5	47·0	47·0	47·4	47·8	47·5	47·2	46·0	43·4	40·4	41·0	44·0	46·06
	6	—	—	—	—	—	—	—	—	—	—	—	46·40
	7	47·8	47·0	48·9	48·0	49·2	51·9	50·0	46·2	45·9	44·1	44·3	48·59
	8	50·8	50·0	49·8	51·0	50·4	52·0	52·0	49·0	48·1	47·2	47·7	48·24
	9	48·5	49·1	50·3	50·2	50·4	51·3	52·5	49·4	46·2	45·1	46·1	49·75
	10	50·2	50·0	51·0	52·0	51·9	52·0	53·2	51·9	50·0	49·4	50·0	50·30
	11	52·2	52·0	52·2	52·0	51·8	51·9	51·8	50·0	48·8	48·1	48·2	50·59
	12	50·9	51·3	52·0	53·6	52·5	52·3	52·1	50·3	48·6	48·1	48·9	51·60
	13	—	—	—	—	—	—	—	—	—	—	—	51·62
	14	53·1	53·4	53·6	53·5	53·8	54·9	55·2	52·8	50·0	50·0	50·1	52·18
	15	51·7	51·3	52·0	54·7	53·6	52·4	53·9	52·2	49·6	49·7	51·4	51·80
	16	53·5	54·0	54·0	53·9	54·0	54·0	54·0	52·6	50·6	50·0	50·2	51·65
	17	53·3	53·0	54·0	52·5	53·0	54·0	55·0	52·9	50·7	48·9	48·8	50·81
	18	52·7	52·8	52·8	52·7	52·7	53·2	54·7	53·0	50·3	—	46·1	52·46
	19	51·7	51·9	52·0	52·4	52·5	53·0	53·8	51·7	49·0	47·9	48·7	53·45
	20	—	—	—	—	—	—	—	—	—	—	—	53·50
	21	53·3	53·6	53·7	53·8	54·2	55·0	55·3	53·9	51·7	50·2	50·3	54·13
	22	54·0	54·2	54·7	54·7	54·9	55·2	55·9	54·6	52·0	51·0	51·0	53·39
	23	53·6	54·0	55·0	54·4	54·3	54·9	56·0	54·9	53·8	51·8	50·9	52·69
	24	55·0	55·1	55·0	55·0	55·0	55·8	56·9	55·1	52·1	50·2	50·2	53·37
	25	54·1	54·0	54·2	54·4	54·5	55·1	56·9	55·7	52·2	50·2	50·1	53·85
	26	52·3	51·5	52·6	51·1	51·1	52·9	54·8	53·9	51·0	49·9	49·9	54·07
	27	—	—	—	—	—	—	—	—	—	—	—	54·06
	28	55·7	55·8	55·1	55·0	55·0	55·5	56·3	55·7	53·9	52·5	52·4	53·77
	29	54·0	54·0	54·2	53·7	54·7	55·7	56·0	55·6	52·9	50·8	49·9	53·97
	30	55·2	55·1	54·9	55·0	55·8	55·8	56·6	56·3	54·1	52·1	52·3	54·35
	31	55·0	55·0	55·0	55·0	55·1	55·7	56·7	55·1	53·0	51·6	51·9	54·35
Hourly Means	51·43	51·45	51·85	51·90	51·93	52·46	52·86	51·01	48·75	47·70	48·26		
JUNE.	1	53·8	53·8	53·7	53·8	54·0	54·6	56·1	55·3	54·2	52·9	52·8	53·91
	2	54·9	55·8	54·8	55·7	55·9	56·0	56·2	54·8	54·1	55·9	52·2	54·77
	3	—	—	—	—	—	—	—	—	—	—	—	53·46
	4	54·9	54·9	55·6	57·3	56·7	55·7	56·2	53·3	51·9	50·0	51·3	53·00
	5	54·5	54·5	54·4	54·8	55·4	54·8	54·3	52·3	49·7	48·8	49·2	52·50
	6	55·0	54·1	54·8	53·1	54·0	54·0	54·8	52·8	50·1	48·7	48·2	52·55
	7	52·0	51·7	56·4	54·8	54·3	56·0	57·3	54·9	52·2	52·2	51·8	53·72
	8	54·0	54·1	54·1	54·8	55·2	55·1	56·2	54·2	51·2	50·0	50·5	54·25
	9	54·2	54·5	54·8	55·0	55·8	57·0	58·1	57·1	54·7	52·9	53·2	52·81
	10	—	—	—	—	—	—	—	—	—	—	—	51·70
	11	52·0	56·8	55·4	55·7	54·9	54·6	54·9	53·5	51·1	49·0	49·2	52·63
	12	51·2	53·0	53·8	52·6	53·2	53·6	53·6	52·8	50·8	49·8	49·9	53·18
	13	54·2	54·2	53·9	54·3	53·7	54·0	54·2	53·1	52·0	50·6	50·7	53·41
	14	53·7	53·9	54·0	54·0	53·9	55·0	55·4	53·7	51·4	50·0	51·0	53·71
	15	54·1	54·0	54·2	53·0	53·7	55·0	55·9	54·8	51·9	49·8	50·9	53·56
	16	54·3	54·3	54·6	54·4	54·7	55·1	56·3	55·1	52·9	51·4	51·1	52·93
	17	—	—	—	—	—	—	—	—	—	—	—	53·32
	18	54·0	53·8	54·0	54·0	54·0	54·2	54·3	52·3	50·9	49·8	50·7	54·10
	19	54·5	54·1	54·5	54·8	54·7	54·9	54·4	53·1	50·9	49·9	50·1	54·47
	20	54·3	54·2	54·9	55·0	55·0	55·0	55·4	53·5	51·2	49·2	49·5	54·80
	21	54·8	55·0	56·0	55·6	55·7	55·2	55·1	53·2	51·7	50·9	51·3	54·35
	22	55·5	55·9	55·8	56·6	56·0	55·8	55·2	53·7	51·8	50·1	51·1	54·07
	23	56·0	57·0	56·2	56·0	55·0	55·4	56·0	54·7	51·9	51·1	53·5	54·63
	24	—	—	—	—	—	—	—	—	—	—	—	54·20
	25	55·4	55·4	55·3	54·4	54·4	55·2	55·4	54·0	51·5	49·9	50·3	53·77
	26	55·6	55·5	56·0	55·3	55·0	55·1	55·8	53·4	50·5	49·8	50·9	53·46
	27	56·0	56·0	55·6	55·7	55·3	55·9	56·6	55·2	52·3	50·2	49·7	54·35
	28	55·2	55·6	55·5	55·3	55·2	55·7	55·7	53·3	51·5	51·1	52·0	54·07
	29	55·0	55·0	55·0	55·0	54·2	54·9	54·8	52·8	51·7	49·3	51·5	54·63
	30	54·0	54·0	54·6	54·2	57·0	57·8	57·8	53·8	51·7	50·7	51·8	54·20
Hourly Means	54·35	54·66	54·92	54·82	54·88	55·22	55·62	53·87	51·76	50·54	50·94		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
JULY.	1	52.0	53.1	53.9	53.9	53.6	53.0	52.6	52.2	53.0	53.7	53.9	54.5	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	53.1	53.9	54.5	54.2	54.0	53.2	53.0	53.7	54.0	53.9	53.9	52.9	53.7
	4	52.4	53.3	53.5	54.0	54.1	54.0	53.1	53.2	53.7	52.9	54.4	54.8	54.4
	5	53.2	54.0	53.8	54.2	54.0	54.0	54.1	54.1	54.2	54.3	54.8	55.0	54.9
	6	54.6	55.7	56.0	55.2	55.0	54.2	54.6	54.1	55.0	55.0	55.1	55.3	54.9
	7	52.2	52.9	53.8	54.0	53.8	53.4	52.9	53.0	52.8	51.5	52.0	53.2	52.9
	8	50.9	51.5	53.1	53.0	52.2	51.0	53.0	52.1	52.4	51.5	53.8	53.9	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	53.1
	10	51.1	52.4	53.0	53.4	53.9	52.3	52.2	51.9	51.9	53.1	53.5	53.6	53.3
	11	52.2	54.6	55.1	54.9	53.8	53.8	53.9	53.4	52.9	53.6	53.1	53.7	57.0
	12	51.0	52.5	53.0	53.1	52.9	53.0	53.4	53.1	53.6	53.9	53.9	53.9	54.4
	13	53.0	54.8	55.4	55.7	54.8	54.7	54.3	53.5	53.5	53.6	53.9	55.2	55.0
	14	52.1	54.3	55.1	55.0	54.9	53.8	53.7	53.6	53.7	52.8	54.0	54.7	55.1
	15	54.9	54.3	54.9	55.2	54.1	54.0	53.2	53.1	53.6	54.0	54.1	54.2	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	54.7
	17	53.8	54.0	54.1	53.9	53.2	53.1	53.2	53.0	53.9	53.8	54.0	55.0	55.0
	18	51.2	54.3	57.1	56.0	54.6	54.0	54.0	54.1	54.1	54.2	54.4	54.5	54.6
	19	52.4	53.0	54.0	54.2	54.0	54.0	54.2	54.2	54.5	54.6	54.9	55.0	54.8
	20	53.2	53.7	54.1	54.8	54.2	54.2	54.2	54.9	55.0	55.0	55.0	55.0	55.0
	21	53.0	54.0	55.0	55.0	54.8	54.3	54.3	54.9	54.9	54.9	55.1	55.3	55.6
	22	53.7	54.9	55.1	54.1	54.0	54.0	53.9	54.0	54.0	54.0	54.0	54.0	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	55.1
	24	52.7	55.0	55.2	55.2	54.8	54.8	55.1	56.0	54.1	54.1	48.4	54.1	55.3
	25	51.9	52.3	52.0	51.2	49.8	49.1	47.6	45.0	45.9	43.8	45.9	45.0	49.0
	26	52.2	52.1	52.6	52.6	52.5	52.0	51.4	52.2	52.4	52.8	53.0	53.1	54.0
	27	52.0	53.9	54.5	54.1	53.0	52.9	52.9	52.7	53.8	53.9	54.2	53.9	52.5
	28	51.5	51.2	52.1	52.2	52.0	52.1	52.1	52.8	53.0	53.0	53.0	54.4	54.0
	29	51.5	52.0	53.2	53.9	52.9	52.2	52.2	52.0	52.5	52.0	53.0	53.0	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	58.6
	31	50.7	51.6	53.2	54.0	53.1	52.9	53.0	53.0	52.5	53.4	54.1	55.0	55.0
Hourly Means	52.40	53.43	54.13	54.12	53.62	53.23	53.16	53.07	53.27	53.20	53.44	53.94	54.47	
AUGUST.	1	52.2	53.9	55.6	55.6	54.3	53.8	53.8	54.0	54.2	54.9	55.0	55.1	55.0
	2	50.1	51.0	52.3	53.5	54.2	53.8	54.0	54.1	54.1	54.7	54.4	54.4	55.0
	3	50.0	51.1	52.4	54.4	55.0	54.2	54.2	54.5	54.4	54.0	54.0	54.2	54.0
	4	50.5	51.2	51.6	52.9	52.7	52.0	52.0	53.0	52.0	52.8	54.4	52.1	54.6
	5	51.2	52.3	53.7	54.0	53.9	53.4	53.9	53.6	52.7	53.5	53.8	54.2	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	54.2
	7	52.0	53.9	53.5	53.8	53.2	53.2	53.7	53.7	53.1	53.4	54.0	55.0	54.1
	8	53.9	54.6	55.0	55.0	53.7	53.4	53.0	50.9	52.0	53.9	54.0	54.2	53.7
	9	50.8	52.7	52.0	51.9	51.9	52.9	53.8	53.8	53.9	54.2	54.1	54.6	55.0
	10	51.1	52.7	53.1	54.0	53.2	53.2	53.9	54.1	54.3	54.2	54.5	54.5	54.5
	11	50.1	51.9	53.0	53.7	53.5	53.9	54.0	53.0	54.4	54.5	54.8	55.3	54.1
	12	51.4	54.0	56.7	56.3	54.0	53.0	53.2	53.7	53.2	53.9	54.0	53.9	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	14	51.0	53.3	54.2	53.9	53.4	52.4	52.2	53.0	52.9	53.9	52.9	53.0	53.5
	15	49.2	50.5	53.1	54.7	54.0	52.9	53.1	53.6	53.7	53.4	54.0	54.0	54.0
	16	50.0	52.0	53.1	54.1	53.8	53.0	53.7	53.9	53.5	53.8	54.0	54.1	54.3
	17	49.1	49.9	50.7	52.7	53.8	52.9	53.0	53.4	53.5	53.6	54.0	54.1	54.2
	18	52.4	53.1	53.5	53.2	53.0	52.9	53.0	53.0	54.0	54.1	54.1	54.6	54.1
	19	53.4	53.5	53.1	53.7	53.0	52.7	52.9	52.9	53.0	53.1	53.0	53.4	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	53.6
	21	51.9	52.9	53.0	53.5	53.4	52.8	53.2	53.7	54.0	54.5	54.0	54.4	54.4
	22	51.2	51.6	50.9	52.3	51.9	51.0	51.9	51.9	51.0	51.8	52.5	54.3	53.3
	23	52.0	52.9	53.2	53.2	53.2	52.7	52.4	51.9	52.6	53.2	52.4	53.3	53.2
	24	51.9	52.9	52.5	53.8	53.2	52.8	53.1	53.3	54.0	53.6	53.8	54.0	54.0
	25	50.6	51.0	52.0	54.6	53.5	52.0	51.1	51.1	51.0	52.0	51.7	51.9	52.1
	26	50.0	50.0	51.0	52.2	51.9	51.2	51.4	52.0	52.5	51.9	52.0	52.5	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	28	50.4	52.0	53.8	53.8	53.1	52.4	52.8	53.1	53.8	53.5	54.1	54.3	54.0
	29	51.2	52.8	53.7	54.5	54.3	53.5	53.4	53.7	54.0	54.3	54.6	54.6	54.6
	30	52.0	52.6	52.8	53.2	53.9	53.1	53.2	53.7	54.0	54.1	54.5	54.5	54.8
	31	50.2	52.0	53.7	55.3	55.0	54.1	53.9	53.9	54.1	53.9	54.0	54.2	54.1
Hourly Means	51.10	52.31	53.08	53.84	53.48	52.93	53.10	53.20	53.33	53.66	53.80	54.03	54.07	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
JULY.	1	—	—	—	—	—	—	—	—	—	—	54·24	
	2	54·8	58·5	56·0	55·0	57·0	57·0	56·2	54·6	53·3	52·7	53·0	
	3	54·9	54·5	56·0	55·8	55·6	55·7	55·0	53·4	51·9	51·1	51·3	
	4	55·3	56·9	56·2	55·6	55·5	56·3	54·6	53·6	52·5	51·6	51·9	54·08
	5	55·0	55·0	55·2	55·9	55·9	55·5	55·0	53·7	51·4	50·7	52·3	54·18
	6	54·8	55·5	56·1	56·1	56·0	56·0	56·1	55·0	52·8	51·9	51·1	54·84
	7	53·2	51·1	53·0	53·0	53·0	55·2	57·0	57·0	54·6	52·7	51·2	53·31
	8	—	—	—	—	—	—	—	—	—	—	—	53·21
	9	53·0	54·2	53·5	53·0	55·2	55·3	55·2	56·1	55·1	53·0	51·9	53·88
	10	54·0	55·5	54·0	55·0	55·2	55·9	56·6	55·1	52·9	50·7	50·0	54·09
	11	54·4	55·7	55·2	55·0	55·0	55·3	56·1	54·9	52·8	50·9	50·9	53·88
	12	55·0	54·4	54·7	56·0	55·7	56·0	56·9	55·6	53·2	52·0	52·0	54·36
	13	55·3	55·7	55·0	56·0	57·0	55·0	55·7	54·5	52·0	50·1	50·9	54·32
	14	55·2	55·8	56·0	56·0	55·6	55·8	55·0	53·9	52·1	52·3	53·2	54·29
	15	—	—	—	—	—	—	—	—	—	—	—	53·65
	16	54·9	55·0	55·2	55·0	55·8	55·9	55·8	53·9	52·0	51·9	53·2	54·25
	17	55·0	55·0	55·0	55·0	55·9	55·3	55·0	53·0	50·0	48·7	49·7	53·97
	18	55·0	55·0	55·0	54·9	55·1	55·8	56·1	54·2	51·9	50·0	51·8	54·57
	19	55·1	55·0	55·0	55·0	54·0	54·5	55·1	53·4	51·2	51·0	52·1	55·23
	20	55·0	54·9	54·9	55·2	55·0	55·3	56·0	55·6	54·0	52·9	52·5	54·57
	21	55·8	56·1	57·7	57·8	56·8	57·0	57·0	56·3	54·5	53·0	52·3	53·84
	22	—	—	—	—	—	—	—	—	—	—	—	54·57
	23	55·8	55·7	55·8	56·1	56·2	56·9	57·8	56·1	53·1	50·9	50·6	54·63
	24	55·1	55·0	55·0	56·0	56·0	56·2	58·0	56·9	53·1	53·7	51·2	50·81
	25	49·3	55·8	51·9	57·5	53·7	54·8	54·9	55·2	53·0	51·9	53·0	53·15
	26	54·2	53·1	54·0	54·3	56·0	56·0	57·7	56·5	52·2	49·4	49·4	53·71
	27	55·6	53·4	58·4	56·1	56·0	56·0	56·0	53·5	50·7	49·1	50·0	53·25
	28	54·0	54·0	55·0	56·0	56·0	56·0	56·9	54·9	51·5	49·6	50·7	53·73
	29	—	—	—	—	—	—	—	—	—	—	—	54·02
	30	57·0	55·9	54·5	56·0	56·8	55·9	57·0	54·5	53·0	50·0	49·9	54·02
	31	55·0	55·2	56·0	55·5	55·8	56·0	57·5	56·1	53·9	52·8	51·2	54·02
Hourly Means	54·67	55·07	55·17	55·49	55·61	55·79	56·16	54·90	52·64	51·33	51·43		
AUGUST.	1	55·1	55·2	55·5	55·5	56·0	57·0	58·8	57·1	53·9	51·1	49·3	54·66
	2	54·9	55·2	55·5	55·4	55·8	57·0	59·1	58·2	54·1	51·0	49·5	54·22
	3	53·3	53·2	53·0	55·9	55·1	55·7	56·1	57·7	55·1	52·0	51·4	53·95
	4	55·5	55·0	54·5	54·9	55·2	56·7	57·9	56·1	53·0	51·0	50·0	53·40
	5	—	—	—	—	—	—	—	—	—	—	—	53·77
	6	54·3	55·0	55·0	54·3	55·4	55·4	55·8	54·0	52·8	52·1	51·9	53·88
	7	54·7	54·0	54·5	54·6	56·0	56·2	56·1	54·1	52·2	51·2	53·0	54·45
	8	52·7	53·8	—	54·4	55·2	60·8	63·3	57·0	54·6	52·7	50·6	53·60
	9	54·7	54·5	54·1	54·9	55·0	55·4	56·8	55·8	53·2	50·4	49·9	53·81
	10	54·7	54·5	54·6	54·8	54·9	56·0	56·8	55·0	52·0	50·7	50·2	53·98
	11	54·7	55·2	55·3	55·3	55·9	56·4	57·4	55·7	52·5	50·8	50·2	53·68
	12	—	—	—	—	—	—	—	—	—	—	—	53·32
	13	55·0	55·0	54·8	54·9	55·7	56·5	56·3	53·6	50·0	47·6	47·8	53·48
	14	54·0	53·9	54·0	54·6	55·2	56·1	57·7	54·9	52·0	49·6	48·1	53·28
	15	54·0	54·1	55·9	55·9	55·8	56·5	57·1	55·0	51·3	49·3	48·4	53·06
	16	54·5	54·3	54·5	54·6	54·6	54·9	55·0	54·0	51·1	49·9	48·1	53·98
	17	54·1	54·0	54·0	54·7	54·5	54·6	54·9	53·5	52·0	51·2	51·1	53·02
	18	54·1	54·1	54·1	54·4	54·2	55·2	56·5	55·2	54·7	54·1	53·8	53·73
	19	—	—	—	—	—	—	—	—	—	—	—	53·03
	20	54·7	54·4	—	—	—	55·0	55·0	53·2	51·2	48·8	49·9	54·02
	21	54·5	54·4	54·9	55·0	55·1	56·0	56·6	54·9	52·6	50·0	49·7	53·53
	22	53·6	50·5	55·9	54·0	54·2	57·2	59·1	56·2	53·5	51·7	51·1	52·73
	23	56·9	56·0	56·0	56·5	55·9	56·2	57·0	56·5	54·5	52·8	52·0	52·10
	24	54·3	55·0	54·4	54·9	55·0	55·2	55·9	54·1	52·2	50·5	50·3	53·30
	25	52·4	52·5	55·0	55·3	53·9	55·5	57·5	54·8	53·7	50·8	49·6	53·54
	26	—	—	—	—	—	—	—	—	—	—	—	54·30
	27	53·8	53·0	53·9	53·9	53·7	54·7	55·2	53·0	50·0	48·0	48·9	54·30
	28	54·0	54·4	54·1	54·5	54·4	55·2	56·0	54·3	52·0	50·0	49·9	54·30
	29	54·4	54·3	54·1	54·1	54·5	55·8	56·8	55·0	52·9	51·1	51·4	53·54
	30	54·8	54·2	54·5	54·9	54·7	56·0	56·1	53·9	51·2	49·2	49·0	54·30
	31	54·2	54·0	54·1	54·0	54·8	55·8	58·0	57·6	55·4	53·9	53·0	54·30
Hourly Means	54·37	54·21	54·65	54·85	55·03	56·04	56·99	55·20	52·73	50·80	50·30		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0.751. 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 .	12 ^h .	
SEPTEMBER.	1	53.9	53.0	53.1	54.0	54.0	54.0	52.7	53.5	53.6	52.4	53.2	53.2	52.7
	2	52.9	53.7	52.3	53.6	53.1	53.1	52.5	51.0	52.2	51.9	52.5	51.1	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	53.4
	4	51.1	51.2	52.0	53.0	53.4	53.0	53.5	53.9	54.0	51.7	50.9	51.8	52.5
	5	52.7	52.1	52.0	51.2	51.6	52.0	52.3	52.3	52.4	53.5	53.4	52.9	52.0
	6	50.0	50.2	51.0	51.4	51.2	51.5	51.8	52.1	53.0	53.0	52.0	53.2	53.2
	7	51.0	52.2	52.2	51.7	52.6	52.7	53.7	53.7	53.7	54.0	54.0	53.9	53.8
	8	52.6	53.0	52.9	52.7	52.9	52.1	53.2	53.2	53.9	53.8	53.0	53.0	53.0
	9	51.1	53.8	54.3	54.0	53.5	52.7	53.7	53.5	53.9	52.5	53.6	53.6	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	53.1
	11	52.3	53.0	52.1	52.1	52.8	52.2	52.7	53.0	53.2	53.2	53.0	52.0	53.0
	12	50.9	51.9	52.3	53.0	52.9	52.7	53.0	53.1	53.2	52.0	52.2	52.8	52.8
	13	51.9	53.7	53.5	52.8	52.6	52.3	52.5	53.1	53.9	53.6	52.8	53.0	53.7
	14	52.2	54.7	55.3	55.0	54.3	54.0	54.0	54.0	53.1	53.9	54.0	53.6	54.0
	15	51.1	53.8	55.0	54.0	53.2	52.8	53.0	53.5	53.5	53.8	53.8	54.0	53.7
	16	53.0	54.1	55.2	54.0	53.3	53.4	53.5	53.9	54.0	54.0	53.9	53.1	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	54.3
	18	53.5	53.3	52.9	52.9	52.9	53.7	53.4	53.5	53.1	53.6	52.8	52.9	54.3
	19	52.9	51.8	52.4	52.9	53.1	53.3	52.8	51.0	52.2	51.8	54.1	53.8	53.1
	20	51.0	52.2	52.0	51.1	51.8	51.1	52.9	52.9	52.9	53.4	53.0	52.7	52.7
	21	52.9	54.2	53.2	52.0	51.0	50.5	49.4	49.5	49.7	51.4	52.0	52.1	52.9
	22	54.2	54.2	53.1	51.1	49.2	50.3	51.1	51.7	51.5	51.1	51.9	54.8	54.1
	23	53.2	53.1	54.0	52.5	50.7	50.4	51.1	52.0	52.1	52.6	53.0	54.0	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	53.6
	25	53.1	53.9	54.4	53.2	52.2	52.2	52.8	53.0	53.3	53.5	53.2	53.1	53.1
	26	53.7	56.1	55.8	54.4	52.7	52.2	53.0	53.0	53.1	53.1	52.7	52.9	52.9
	27	52.4	53.7	53.9	53.4	52.8	52.3	52.5	53.0	53.3	53.6	53.8	53.8	52.8
	28	51.0	52.3	52.9	53.1	52.2	51.2	51.3	52.0	52.2	52.3	52.1	51.9	51.9
	29	50.3	51.9	52.7	52.8	53.0	52.6	52.9	52.7	52.9	52.7	53.0	52.9	53.1
	30	51.2	53.9	53.8	52.4	52.6	52.8	52.9	52.7	53.0	53.4	53.6	53.1	—
October 1	—	—	—	—	—	—	—	—	—	—	—	—	53.2	
Hourly Means	52.16	53.12	53.24	52.86	52.52	52.35	52.62	52.72	52.96	52.92	52.98	53.05	53.19	
OCTOBER.	2	51.0	51.7	52.9	54.3	54.8	53.1	53.0	53.0	53.0	53.2	52.9	52.7	53.0
	3	52.2	51.9	52.5	53.0	52.7	51.7	51.8	52.3	52.1	52.8	52.6	52.7	52.7
	4	53.8	55.9	56.7	54.0	52.8	52.9	52.1	53.0	53.2	53.0	52.9	52.8	53.0
	5	55.5	57.2	55.2	54.6	53.3	52.3	53.1	53.1	51.2	51.9	52.3	52.7	53.3
	6	53.5	54.1	53.2	52.2	51.0	51.3	52.2	52.6	53.0	53.1	53.0	53.2	53.0
	7	55.5	55.5	53.2	51.2	50.9	51.2	52.2	52.9	53.1	53.1	53.6	53.5	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	52.7
	9	53.2	54.1	54.5	53.1	51.9	51.5	51.9	52.9	53.3	53.9	54.2	54.0	54.0
	10	52.9	54.5	55.0	54.2	53.3	52.6	52.8	52.9	53.0	53.5	53.2	53.0	53.1
	11	53.5	55.6	56.8	55.9	54.7	53.0	52.9	53.0	53.4	53.2	53.3	53.0	53.0
	12	54.5	56.2	56.0	55.0	53.0	52.7	52.6	53.4	53.9	53.9	53.8	53.0	53.2
	13	54.5	53.9	56.0	55.1	53.3	52.1	52.2	53.0	53.2	53.9	54.0	54.0	53.4
	14	53.5	55.0	55.6	55.5	54.9	54.0	53.9	54.8	54.4	53.9	53.8	53.0	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	16	52.3	52.8	52.8	52.3	51.8	51.9	52.0	51.2	53.0	50.2	49.0	52.9	52.1
	17	52.4	54.4	54.0	53.1	53.8	52.0	51.9	52.3	53.0	53.6	53.8	53.5	52.8
	18	56.1	56.2	55.1	54.0	52.7	52.3	52.0	52.7	53.0	53.5	53.0	53.2	53.0
	19	53.3	53.9	55.1	54.0	53.2	52.4	52.0	52.6	52.4	52.0	53.0	53.6	53.9
	20	56.1	55.1	54.6	53.0	52.0	51.2	51.9	50.9	51.9	52.7	53.3	53.4	53.0
	21	52.9	53.0	52.5	52.0	51.4	52.2	52.5	53.0	53.1	53.7	53.9	53.9	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	53.0
	23	51.5	53.6	55.4	55.1	53.4	52.7	53.9	54.1	54.1	54.2	54.2	54.1	54.0
	24	56.4	57.1	56.1	55.1	53.0	52.8	54.1	54.7	54.5	54.4	54.2	53.7	53.3
	25	54.5	55.9	55.9	55.9	53.9	53.0	53.7	54.0	54.1	54.0	54.1	54.0	53.5
	26	51.9	53.3	54.9	55.0	53.2	53.0	53.0	51.7	53.0	53.9	50.8	52.8	53.0
	27	53.0	54.1	54.2	54.9	53.5	53.0	52.9	53.3	53.2	53.3	53.1	53.9	53.8
	28	50.1	52.2	54.0	54.0	53.6	53.3	53.0	53.9	54.0	54.0	53.9	54.0	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	52.1
	30	51.9	52.2	52.2	52.2	52.4	52.0	52.0	52.6	53.0	51.7	52.0	52.9	52.5
	31 ^a	—	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	53.44	54.38	54.58	53.95	52.98	52.41	52.62	52.96	53.16	53.22	53.12	53.34	53.06

^a No observations made, the Bifilar Magnetometer being in course of adjustment.

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
SEPTEMBER.	1	52·2	53·0	56·1	54·0	53·8	54·9	55·0	57·9	56·8	55·5	53·5	54·00
	2	—	—	—	—	—	—	—	—	—	—	—	53·08
	3	54·0	53·2	53·7	54·3	55·0	55·0	54·7	54·0	53·1	52·2	51·3	53·20
	4	52·3	52·7	53·1	52·8	52·9	53·9	59·4	57·5	54·3	53·0	52·9	52·33
	5	51·9	52·0	53·1	52·0	52·1	52·8	55·0	52·4	51·9	51·0	51·2	52·17
	6	53·3	53·1	54·2	54·1	53·2	54·1	54·0	52·1	50·0	49·5	50·9	52·98
	7	53·8	53·3	53·0	53·1	54·0	55·8	56·0	53·1	50·6	49·2	50·3	52·79
	8	53·0	52·9	52·4	52·4	52·2	54·5	55·2	52·1	49·8	53·9	49·3	53·13
	9	—	—	—	—	—	—	—	—	—	—	—	52·66
	10	52·9	54·3	53·5	53·2	53·1	55·6	55·1	52·3	50·9	49·9	50·9	52·73
	11	53·9	53·8	53·0	52·9	52·6	55·0	55·2	52·9	50·7	49·6	49·7	53·17
	12	53·2	54·0	53·6	53·2	55·5	54·9	55·1	52·8	50·6	49·0	50·9	53·32
	13	53·9	54·0	53·9	53·8	53·9	54·7	54·7	53·3	52·5	51·0	50·9	53·20
	14	54·1	54·0	53·8	53·9	54·0	54·2	53·8	51·8	49·3	48·9	49·8	54·05
	15	54·2	53·8	53·5	53·6	53·5	54·2	54·1	52·1	50·5	50·3	51·9	53·58
	16	—	—	—	—	—	—	—	—	—	—	—	52·99
	17	54·9	54·0	53·3	53·4	54·8	54·4	55·7	54·9	53·9	54·4	53·8	52·57
	18	54·3	52·4	55·7	56·5	55·5	55·0	53·6	53·5	52·2	52·2	52·2	52·58
	19	53·1	53·2	53·5	54·0	53·9	54·8	55·5	53·8	52·5	52·0	50·3	52·82
	20	52·6	52·9	54·4	53·1	52·5	54·9	55·8	52·2	50·7	51·0	51·9	51·81
	21	54·0	53·4	53·3	53·0	54·1	55·2	55·2	54·9	51·9	52·4	53·7	51·23
	22	52·8	52·7	52·5	51·9	52·0	52·2	52·2	49·8	47·9	48·9	50·4	51·74
	23	—	—	—	—	—	—	—	—	—	—	—	52·83
	24	53·3	53·0	—	—	—	52·5	51·6	49·6	47·3	47·2	50·1	52·12
	25	53·0	53·1	52·9	52·2	53·0	54·2	53·9	51·1	49·7	49·6	51·0	52·70
	26	52·5	53·0	52·8	52·2	52·5	53·2	51·9	49·8	49·9	51·9	52·4	52·82
	27	51·3	51·9	51·1	51·8	52·0	51·2	50·6	49·5	46·7	47·1	48·9	51·81
	28	52·2	52·0	53·6	52·3	52·2	52·1	49·9	48·2	46·0	45·7	48·8	51·23
	29	52·7	53·0	53·5	53·3	52·6	51·1	49·9	48·1	47·0	46·9	50·1	51·74
	30	—	—	—	—	—	—	—	—	—	—	—	52·83
	October 1	55·9	53·8	53·0	52·8	52·1	53·0	52·6	52·8	51·7	51·2	50·5	52·12
Hourly Means	53·28	53·17	53·46	53·19	53·32	53·98	54·07	52·40	50·71	50·52	51·06	52·12	
OCTOBER.	2	52·6	52·0	52·0	52·0	51·9	50·9	50·9	51·2	50·2	50·2	51·5	52·25
	3	52·6	52·3	52·3	52·8	52·8	52·7	50·3	49·3	50·0	50·8	52·1	52·04
	4	53·0	52·8	55·0	53·0	53·3	53·7	51·1	47·5	45·1	45·6	50·7	52·37
	5	53·1	52·7	53·3	51·6	50·3	50·9	49·8	47·9	45·9	47·2	51·8	52·09
	6	53·0	52·2	52·0	51·2	51·4	51·5	49·7	47·1	47·5	49·9	53·4	51·85
	7	—	—	—	—	—	—	—	—	—	—	—	51·41
	8	52·4	52·0	51·9	51·5	51·0	49·8	47·2	45·0	45·3	48·0	51·1	51·50
	9	53·9	53·1	52·5	52·0	52·0	49·7	45·2	43·6	43·6	47·1	50·9	51·91
	10	53·7	53·5	53·1	53·0	52·7	51·0	47·6	45·5	44·5	47·0	50·2	52·33
	11	52·5	52·5	52·3	52·0	51·9	51·3	48·9	46·2	45·9	48·8	52·2	53·08
	12	53·0	53·0	53·9	53·1	53·0	52·8	51·0	49·0	49·9	51·1	53·0	52·32
	13	53·4	53·3	52·2	53·2	52·6	51·8	50·2	47·5	45·0	47·3	50·5	52·79
	14	—	—	—	—	—	—	—	—	—	—	—	52·36
	15	54·2	52·8	52·0	52·2	52·2	52·2	49·4	49·2	48·4	49·0	50·9	52·07
	16	53·0	53·1	53·9	51·8	52·0	52·7	51·8	51·2	51·0	52·6	52·2	52·94
	17	53·8	53·0	52·3	52·2	52·1	51·7	51·0	51·6	53·0	54·0	55·2	52·71
	18	52·8	52·8	53·8	55·0	53·1	52·0	50·0	48·1	48·7	50·0	52·0	52·80
	19	53·4	53·0	53·0	54·3	53·4	53·8	51·8	48·9	49·0	51·1	54·2	52·40
	20	53·0	53·0	53·9	53·0	52·8	51·9	49·6	48·8	49·7	50·7	52·0	51·89
	21	—	—	—	—	—	—	—	—	—	—	—	52·81
	22	53·0	52·9	52·5	52·3	52·7	51·9	49·0	47·3	48·0	48·8	49·8	52·80
	23	54·1	54·0	53·8	53·4	53·2	52·2	49·3	47·2	47·0	50·0	53·0	52·75
	24	54·0	53·3	53·0	53·9	53·3	50·9	47·0	44·5	46·1	49·6	52·2	52·19
	25	53·4	53·7	53·1	53·1	53·0	50·8	48·0	47·1	48·0	48·3	50·9	52·25
	26	54·0	54·3	53·4	52·6	52·1	51·7	50·2	48·5	47·6	48·2	50·5	51·40
	27	53·3	53·2	53·0	53·1	52·4	52·0	50·5	48·9	47·8	46·7	47·0	51·63
	28	—	—	—	—	—	—	—	—	—	—	—	52·12
	29	52·0	51·5	51·4	51·9	50·0	48·3	46·1	44·2	45·9	48·8	51·5	—
	30	52·0	52·0	51·0	50·1	50·7	49·3	48·5	48·6	50·3	52·5	54·4	—
	31 ^a	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	53·17	52·88	52·82	52·57	52·24	51·50	49·36	47·76	47·74	49·33	51·73	—

DECLINATION.															
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .		
NOVEMBER.	1 ^a	—	—	—	—	—	—	—	—	—	—	—	—		
	2	53.4	55.3	55.3	54.8	54.8	54.0	53.9	54.4	54.5	54.0	53.0	50.7	52.4	
	3	50.0	52.1	52.8	53.0	52.3	51.5	52.3	52.4	52.3	53.0	53.3	53.1	53.0	
	4	54.2	55.9	56.1	55.8	54.9	54.0	54.2	54.9	54.1	54.3	55.0	54.4	—	
	5	—	—	—	—	—	—	—	—	—	—	—	—	54.0	
	6	56.1	57.1	57.8	55.3	54.8	53.2	54.0	54.0	54.0	54.1	54.1	54.1	54.5	54.1
	7	54.3	56.0	56.2	55.6	54.5	54.0	54.0	52.9	54.4	54.4	54.5	54.5	54.2	54.0
	8	52.7	55.0	56.7	56.8	55.9	55.0	54.9	55.0	55.0	54.8	54.6	55.0	54.5	54.5
	9	53.2	53.2	53.4	53.4	53.3	53.2	53.4	54.0	54.0	54.1	54.0	54.0	54.0	53.9
	10	53.0	54.5	55.0	55.0	53.9	52.5	53.0	53.5	53.9	53.9	54.0	53.7	53.9	53.9
	11	52.6	55.2	56.3	56.7	55.7	54.3	54.0	54.1	54.0	54.1	54.0	54.1	—	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	—	55.2
	13	56.1	58.0	56.9	56.5	53.2	51.9	52.0	50.0	50.7	50.9	53.0	53.9	54.2	54.2
	14	54.1	54.8	55.5	54.6	53.5	52.4	52.5	53.9	53.9	54.1	54.1	53.3	53.7	53.7
	15	52.3	52.5	52.5	53.0	52.2	51.5	52.2	51.5	52.8	52.0	53.5	53.7	54.3	54.3
	16	50.9	52.8	53.0	54.0	54.1	54.0	53.8	52.8	53.3	53.7	53.6	54.0	54.0	54.0
	17	51.0	52.1	53.7	54.3	54.7	54.4	54.0	54.2	54.1	54.0	53.9	54.0	54.0	54.0
	18	54.5	55.2	55.8	55.4	55.7	55.0	53.9	54.3	54.9	55.0	55.0	55.0	—	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	—	55.0
	20	56.0	56.7	56.8	55.8	55.0	55.0	55.0	55.3	55.8	56.0	56.0	55.7	55.3	55.3
	21	57.9	57.1	55.9	55.3	54.5	53.9	54.4	54.8	53.8	54.0	54.0	54.7	54.2	54.2
	22	54.1	54.8	54.9	54.2	53.2	52.6	52.9	54.0	54.1	54.8	54.7	55.0	55.0	55.0
	23	50.7	53.5	55.6	56.3	56.2	56.0	55.6	55.8	55.3	55.2	55.6	55.3	55.0	55.0
	24	55.0	57.8	57.7	57.2	56.5	55.7	55.9	56.0	56.1	55.6	55.5	55.4	55.3	55.3
	25	51.0	53.5	55.2	55.7	55.1	54.2	53.5	54.1	55.0	55.0	54.8	54.9	—	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	—	54.5
	27	53.2	55.8	56.7	57.5	57.2	56.6	55.4	55.7	55.9	55.8	55.3	55.1	55.0	55.0
	28	50.1	54.1	56.2	57.4	57.0	55.3	54.3	54.8	55.2	55.6	55.0	55.1	54.9	54.9
	29	52.5	53.0	53.9	54.9	55.1	55.1	54.6	54.5	54.5	54.7	54.8	54.9	53.7	53.7
	30	51.0	51.7	53.3	54.0	55.3	56.0	56.2	56.0	55.4	54.2	54.8	54.3	54.4	54.4
	Hourly Means	53.20	54.71	55.31	55.30	54.70	54.05	54.00	54.12	54.28	54.29	54.40	54.32	54.30	54.30
DECEMBER.	1	55.4	55.7	54.7	55.2	55.8	56.0	55.9	55.0	54.9	55.0	54.2	54.3	54.5	
	2	56.0	55.8	54.9	54.0	53.1	54.1	54.4	54.7	55.0	55.0	55.1	55.2	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	55.0	
	4	52.6	53.9	54.5	54.3	54.6	54.4	54.3	55.0	55.9	55.5	55.3	55.0	55.0	
	5	53.0	53.6	53.7	54.2	54.3	54.6	54.1	54.9	54.2	54.4	54.6	54.5	54.4	
	6	54.3	54.8	55.0	54.9	54.9	54.9	54.8	55.0	54.7	54.6	54.8	54.9	54.0	
	7	53.0	54.4	55.2	55.2	55.0	54.7	54.1	54.9	55.0	55.0	54.3	54.3	54.0	
	8	54.5	55.7	56.7	57.3	56.7	55.8	54.3	54.0	53.3	54.9	53.3	54.3	54.3	
	9	54.0	55.2	55.6	55.5	54.3	54.0	53.8	53.3	52.7	54.0	54.2	55.0	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	55.2	
	11	49.4	51.0	51.4	52.7	52.9	52.2	52.9	53.5	51.0	54.0	54.0	53.8	56.2	
	12	51.9	55.0	56.9	54.9	54.1	53.9	52.4	53.0	52.9	53.8	54.1	55.7	54.6	
	13	52.0	52.7	54.1	55.1	55.8	55.1	53.9	52.0	51.9	52.2	53.3	54.7	53.4	
	14	52.2	53.5	53.8	54.5	54.1	53.8	53.7	54.0	54.0	53.5	53.7	54.0	54.0	
	15	52.9	53.9	54.5	54.0	54.1	54.3	53.9	53.8	53.8	53.8	53.9	54.0	54.1	
	16	53.4	53.0	53.9	53.9	53.2	53.8	53.6	54.0	54.2	54.3	54.5	54.4	—	
	17	—	—	—	—	—	—	—	—	—	—	—	—	54.4	
	18	53.0	54.1	55.0	54.0	53.4	53.8	54.8	54.1	55.1	55.0	55.2	55.2	54.5	
	19	51.9	53.3	53.1	52.9	52.2	53.1	53.8	54.8	54.9	55.0	54.9	54.5	54.1	
	20	57.5	57.7	57.8	55.2	54.7	54.8	54.4	54.7	55.0	55.0	55.0	54.6	54.2	
	21	54.7	57.2	57.3	56.0	55.2	54.0	53.6	55.2	55.9	55.9	55.0	54.9	54.9	
	22	56.4	58.0	57.9	56.5	55.4	55.4	55.9	56.0	56.0	56.8	56.2	56.0	55.2	
	23	55.1	56.2	56.7	56.7	56.4	56.4	55.8	55.7	56.2	56.2	56.0	55.8	—	
	24	—	—	—	—	—	—	—	—	—	—	—	—	54.2	
	25	53.0	53.7	53.2	53.3	53.9	53.8	53.4	53.7	54.1	54.1	53.7	53.7	53.7	
	26	52.9	53.5	54.0	54.0	53.9	53.4	52.9	53.0	53.7	54.3	54.3	54.2	54.0	
	27	52.3	53.6	54.0	54.6	54.2	54.1	53.0	52.5	54.2	54.7	54.1	54.2	53.8	
	28	53.4	56.7	58.0	57.0	54.0	53.6	53.2	54.0	54.0	54.0	53.7	53.0	52.0	
	29	52.5	53.9	53.6	51.9	51.1	52.0	52.0	52.0	52.6	52.0	52.2	52.9	52.8	
	30	51.4	52.0	51.9	52.0	53.1	53.9	53.2	52.6	53.3	53.2	53.3	53.4	—	
	31	—	—	—	—	—	—	—	—	—	—	—	—	53.0	
Hourly Means	53.41	54.54	54.90	54.61	54.25	54.23	53.93	54.05	54.17	54.47	54.34	54.48	54.21		

^a No observations made, the Bifilar Magnetometer being in course of adjustment.

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07' 6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
NOVEMBER.	1 ^a	—	—	—	—	—	—	—	—	—	—	—	
	2	51·0	51·2	51·0	50·9	51·5	49·9	46·5	45·9	45·2	47·0	49·2	51·66
	3	52·7	52·1	51·8	52·1	52·6	51·9	49·2	47·1	48·5	51·9	53·1	51·84
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	53·9	53·9	53·1	53·0	52·1	51·0	48·0	46·4	48·0	51·1	54·1	53·19
	6	54·0	54·0	53·7	53·5	52·3	50·2	47·9	46·0	46·2	49·7	53·0	53·07
	7	53·2	53·0	52·5	52·1	52·0	50·4	48·5	46·0	44·0	46·0	50·0	52·36
	8	54·7	53·5	53·8	53·8	51·3	49·0	48·0	47·0	47·9	50·0	52·2	53·21
	9	53·8	53·4	53·2	53·9	52·9	50·3	47·5	46·6	47·1	49·0	51·8	52·36
	10	53·0	52·9	52·6	52·5	51·5	49·6	47·0	46·2	47·5	50·0	51·0	52·23
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	54·8	54·3	54·0	53·2	53·2	52·0	51·2	49·4	49·4	52·0	53·5	53·64
	13	54·0	56·0	55·0	54·0	52·9	51·7	49·6	47·9	48·0	49·9	52·1	52·85
	14	53·7	53·6	53·0	53·3	52·3	50·9	49·1	47·1	47·2	49·0	51·1	52·53
	15	54·7	55·6	54·2	53·2	52·8	51·0	49·0	48·5	47·9	48·1	49·8	52·03
	16	53·1	53·1	52·5	51·9	51·7	50·5	49·3	48·2	49·0	50·0	50·5	52·24
	17	53·4	53·1	53·3	53·0	52·0	50·8	49·8	50·0	50·2	52·0	53·3	52·89
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	54·6	54·0	53·8	52·9	50·3	48·2	47·0	47·8	49·8	51·8	54·0	53·29
	20	55·0	55·0	54·2	54·1	53·2	52·0	48·7	47·1	50·9	54·0	55·5	54·34
	21	54·1	53·7	53·2	52·9	51·3	49·0	46·6	45·3	46·3	50·0	52·9	52·91
	22	54·3	53·8	52·7	51·6	50·5	48·1	46·6	46·0	46·0	47·0	48·5	52·06
	23	54·8	54·7	54·0	53·1	52·3	49·8	47·8	45·8	45·9	47·8	52·1	53·09
	24	55·0	53·9	53·3	53·1	53·3	52·8	51·5	49·2	47·6	47·8	49·2	54·02
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	54·1	54·3	54·1	53·8	52·9	50·7	48·3	47·8	47·8	49·1	51·0	52·93
	27	54·7	54·7	54·6	54·0	54·0	53·3	51·3	49·7	47·9	47·9	48·8	54·00
	28	54·7	54·0	54·0	53·0	53·2	52·1	50·2	49·2	50·2	51·6	53·0	53·76
	29	53·2	53·7	52·4	51·7	50·5	50·1	49·3	48·3	49·1	50·1	50·9	52·73
	30	53·7	53·0	52·7	52·2	51·1	50·0	50·4	51·5	53·0	54·2	55·4	53·49
	Hourly Means	53·93	53·78	53·33	52·93	52·15	50·61	48·73	47·60	48·02	49·88	51·84	
DECEMBER.	1	54·1	53·3	53·1	52·9	51·4	49·9	50·0	51·2	52·2	52·2	55·5	53·85
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	54·1	54·0	53·1	52·7	52·0	50·2	49·1	47·9	48·5	49·1	50·9	53·08
	4	54·6	53·9	53·4	53·2	52·5	51·8	50·2	47·2	47·2	50·0	52·3	53·19
	5	53·4	53·2	52·6	52·7	52·5	52·3	51·5	50·7	49·8	51·0	54·1	53·26
	6	53·8	53·3	53·0	52·1	51·5	51·8	50·0	49·7	49·1	50·0	51·5	53·23
	7	53·6	53·0	53·0	52·6	52·0	49·9	47·9	46·5	47·4	49·9	52·9	52·82
	8	53·7	52·9	51·9	51·2	50·0	47·4	46·5	48·0	48·0	50·1	52·1	52·79
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	53·8	55·0	54·0	53·3	52·7	51·1	50·0	49·8	48·4	47·6	48·5	52·96
	11	53·1	54·0	—	—	—	52·7	50·7	48·1	46·6	46·5	49·3	51·71
	12	53·8	54·0	53·0	53·0	52·0	52·2	50·5	49·6	50·3	52·0	52·5	53·17
	13	53·6	53·6	54·0	53·0	52·1	51·1	49·1	47·8	48·2	49·2	51·2	52·46
	14	54·2	54·7	54·6	55·0	53·7	53·2	52·4	52·9	52·4	51·2	52·3	53·56
	15	53·1	53·8	52·6	52·3	51·5	49·5	49·0	49·1	49·9	51·2	52·8	52·74
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	54·3	53·8	53·2	52·7	51·2	49·5	47·7	46·5	47·5	49·0	51·8	52·41
	18	53·9	53·8	52·9	52·1	50·9	48·3	46·0	45·0	46·3	49·0	50·9	52·35
	19	53·5	52·8	52·7	52·2	51·2	49·8	48·0	49·2	52·2	55·0	56·7	52·99
	20	53·8	53·3	52·6	52·1	52·0	50·0	48·2	48·6	51·2	52·8	53·0	53·68
	21	54·2	54·0	53·3	53·0	52·3	50·0	48·8	47·8	49·9	52·9	55·2	53·80
	22	54·8	54·0	53·5	53·1	52·8	51·5	51·0	51·0	51·8	53·1	54·7	54·71
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	54·0	53·7	53·7	53·1	52·1	50·8	49·4	48·7	49·1	50·7	52·3	53·96
	25	53·3	53·0	52·7	52·2	52·2	52·0	50·2	48·8	48·3	50·9	52·8	52·65
	26	53·8	53·5	53·4	52·3	51·8	51·6	51·5	51·2	49·3	50·1	53·0	52·90
	27	53·1	53·0	52·5	52·7	52·5	51·1	52·0	50·2	49·9	52·2	53·4	53·00
	28	53·8	53·2	52·4	52·0	51·1	49·6	49·0	48·7	50·1	52·2	53·2	53·00
	29	52·8	52·1	51·2	51·8	51·1	50·0	50·0	50·0	49·8	50·6	50·5	51·72
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	53·2	53·0	52·5	52·5	51·8	50·8	50·3	51·4	53·0	51·9	51·2	52·41
Hourly Means	53·75	53·53	53·00	52·63	51·88	50·70	49·58	49·06	49·48	50·78	52·48		

} 52·72

} 53·37

} 52·91

} 53·04

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
JANUARY.	1	53.0	52.8	51.0	52.0	53.6	54.4	53.9	54.3	54.0	54.0	53.0	53.3	53.0
	2	52.9	54.1	54.9	53.1	52.9	53.1	53.0	53.1	52.3	51.6	51.0	51.2	51.6
	3	51.7	52.9	52.5	52.0	51.9	52.3	52.4	53.0	53.9	54.1	53.8	53.2	52.9
	4	54.0	55.2	58.0	57.3	57.0	56.5	55.1	55.0	54.4	54.9	53.2	53.2	54.0
	5	52.4	51.5	52.2	52.8	52.9	54.0	52.8	52.0	50.3	51.8	50.0	52.3	52.1
	6	54.2	54.2	53.6	52.2	50.0	51.5	51.2	51.6	53.1	50.8	52.7	52.9	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	54.4
	8	52.1	51.6	51.1	51.7	51.0	50.5	48.9	50.0	52.0	52.1	51.0	51.9	51.1
	9	52.9	55.0	55.2	53.9	51.2	49.9	48.2	50.1	51.0	52.0	52.3	52.3	52.5
	10	50.1	52.8	53.1	51.3	50.4	50.0	49.2	50.4	50.6	50.0	49.6	52.1	50.5
	11	51.5	54.6	56.9	56.8	55.5	53.2	51.5	51.4	51.8	52.6	53.0	52.9	53.2
	12	54.9	55.0	54.8	55.8	56.0	53.0	56.5	52.9	53.7	53.4	53.2	53.3	53.7
	13	54.9	56.9	57.2	57.9	56.7	54.8	52.5	53.5	54.2	53.8	54.0	53.8	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	53.5
	15	56.8	55.0	53.6	55.4	57.0	55.4	53.8	54.0	54.2	54.9	54.5	54.0	53.0
	16	54.5	54.4	53.4	53.9	55.1	55.0	53.3	53.7	54.2	54.7	54.7	54.3	53.8
	17	56.5	55.5	54.0	53.5	55.0	55.8	54.0	54.0	53.9	53.8	54.2	54.1	54.0
	18	57.8	56.1	53.7	52.7	53.0	53.3	53.5	54.4	54.7	54.6	54.8	53.7	53.9
	19	55.5	55.0	51.7	51.2	51.6	53.4	53.2	54.0	54.0	54.1	54.0	53.2	53.0
	20	52.2	53.9	51.6	49.4	49.9	51.8	52.2	52.9	54.0	54.0	53.9	53.8	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	22	57.3	59.5	58.0	56.1	54.1	52.8	51.4	53.3	55.0	54.5	54.5	54.0	53.3
	23	50.5	54.2	56.1	56.7	55.6	54.2	52.7	52.4	54.0	53.7	54.2	53.9	54.0
	24	52.2	55.9	57.4	56.0	54.7	53.0	52.1	53.2	54.2	55.2	55.1	55.0	54.8
	25	53.2	54.2	55.0	56.5	56.6	54.5	53.0	53.0	54.3	54.1	54.5	53.8	53.2
	26	49.1	53.2	56.8	57.8	56.9	55.5	54.2	54.0	53.0	54.0	54.0	52.8	52.6
	27	53.3	55.0	56.1	56.1	55.5	54.9	53.7	53.3	53.5	53.3	52.9	52.3	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	29	52.1	55.1	55.5	54.6	54.4	53.7	52.9	52.2	52.4	52.6	52.1	52.7	52.7
	30	52.8	54.5	55.1	54.2	53.9	53.3	53.0	52.4	53.4	53.0	53.0	52.9	51.9
	31	53.6	54.8	54.9	53.5	53.2	54.0	54.3	54.0	53.8	53.1	53.8	54.0	54.0
Hourly Means	53.41	54.55	54.57	54.23	53.91	53.47	52.69	52.89	53.33	53.36	53.22	53.22	53.04	
FEBRUARY.	1	52.6	57.3	58.0	55.7	53.2	49.5	51.0	52.0	52.0	49.0	52.5	52.1	53.0
	2	54.1	55.9	55.0	53.1	51.3	50.5	49.7	52.2	52.7	53.0	53.0	53.0	53.0
	3	50.4	51.2	52.4	51.9	50.5	50.0	50.2	49.7	50.2	51.9	51.2	50.0	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	52.5
	5	53.5	55.3	55.7	54.8	52.6	50.7	49.9	48.9	51.8	49.0	49.9	50.8	53.2
	6	51.3	54.3	56.0	54.7	52.8	51.1	49.4	51.2	52.2	52.4	53.4	52.8	52.7
	7	52.0	54.2	56.4	55.7	54.4	52.4	50.2	52.0	52.0	50.0	51.7	50.7	50.3
	8	49.7	53.5	55.8	55.9	54.9	52.5	51.5	52.5	52.3	52.1	52.1	53.0	52.9
	9	47.8	52.2	55.3	55.5	54.0	53.2	52.4	52.2	53.0	53.0	52.9	52.4	52.5
	10	50.1	53.5	54.9	55.0	54.7	53.3	51.9	52.0	51.9	50.8	51.0	51.0	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	51.2
	12	50.5	54.8	56.0	55.9	54.5	52.8	51.6	52.1	52.5	53.0	52.7	52.2	52.3
	13	53.5	56.2	56.0	54.9	53.0	51.2	51.9	52.0	51.6	52.1	52.3	52.0	53.0
	14	51.7	56.3	57.0	56.1	54.8	53.2	53.0	53.5	53.9	54.0	54.0	53.9	53.4
	15	55.0	57.3	56.2	55.3	54.8	53.2	52.5	52.7	52.6	52.0	51.0	52.0	52.1
	16	50.8	54.5	55.3	54.6	53.3	52.2	51.8	52.9	53.0	53.0	52.0	52.3	52.5
	17	52.7	56.3	56.9	55.5	54.1	52.9	52.9	53.8	53.9	53.2	53.3	53.5	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	19	55.5	58.1	58.2	57.1	56.1	54.2	53.0	53.5	53.8	54.0	53.9	53.7	53.5
	20	53.1	55.1	56.7	56.7	55.0	53.0	52.2	53.0	53.3	53.4	53.9	53.5	53.8
	21	48.9	52.5	54.4	55.0	53.6	51.8	51.2	52.2	52.7	53.1	53.1	53.4	53.1
	22	52.3	56.2	58.1	57.9	55.9	53.9	52.9	53.0	52.7	52.0	52.5	53.0	53.1
	23	49.9	54.1	56.2	56.6	56.5	55.0	54.3	54.6	54.2	54.0	53.6	53.3	53.1
	24	50.8	54.4	56.9	57.0	56.8	55.7	55.1	55.0	55.0	55.0	54.7	54.4	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	54.0
	26	52.9	55.9	58.1	58.8	57.3	55.4	54.9	55.0	55.2	55.0	54.2	54.0	53.9
	27	50.2	56.0	57.7	57.2	56.1	54.1	53.6	54.0	54.4	54.5	54.1	54.0	54.0
	28	54.2	56.8	58.0	57.2	56.0	55.0	54.9	54.0	52.0	51.1	51.0	48.5	51.1
	29	48.0	50.7	52.9	53.0	51.9	51.3	51.4	51.2	52.2	52.8	52.3	52.3	53.0
Hourly Means	51.66	54.90	56.16	55.64	54.32	52.72	52.14	52.61	52.84	52.54	52.65	52.47	52.82	

DECLINATION.
Zero Scale Division = 50, corresponding to 29° 07'.6 West.

Mean Göttingen Time.	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.	
JANUARY.	1	52.4	52.0	51.5	51.0	50.8	49.5	49.0	49.2	49.4	49.9	50.5	51.98
	2	51.6	51.2	51.5	50.7	49.7	48.5	49.0	50.8	49.9	50.2	51.1	51.63
	3	52.3	51.9	51.9	51.1	50.3	49.9	50.8	49.9	49.1	50.4	51.9	51.92
	4	53.0	51.0	51.1	54.0	52.1	50.8	50.0	50.7	48.4	47.5	49.6	53.17
	5	52.9	52.5	51.8	52.5	50.0	48.9	50.0	51.0	49.0	49.2	52.2	51.55
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	53.1	52.1	51.1	51.7	51.1	49.4	49.0	48.7	47.7	48.5	51.1	51.50
	8	51.0	51.0	51.7	51.5	50.7	50.2	47.3	46.5	46.9	48.4	50.1	50.43
	9	53.0	52.2	52.0	52.8	50.8	49.5	46.9	44.2	43.2	43.1	47.0	50.47
	10	51.0	51.7	51.6	51.9	50.0	49.7	48.0	47.6	45.7	47.3	50.0	50.19
	11	53.5	53.0	53.0	52.5	51.5	50.7	49.7	49.1	51.1	52.3	53.1	52.68
	12	53.2	53.1	53.0	52.5	52.2	52.0	51.3	49.4	48.4	49.0	52.1	53.02
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	53.2	53.1	53.1	52.7	52.6	52.0	51.0	48.9	47.0	51.2	57.0	53.56
	15	52.4	52.0	51.3	51.1	50.8	50.7	49.7	47.3	47.5	50.2	53.8	52.85
	16	53.5	53.1	52.1	50.3	50.3	50.0	49.2	49.7	51.8	53.6	55.0	53.07
	17	54.0	53.5	52.6	51.9	51.0	49.0	48.0	48.8	48.8	50.2	54.0	52.92
	18	53.0	52.7	52.0	52.2	51.0	49.9	48.2	46.9	48.0	53.5	56.2	52.91
	19	52.9	52.1	53.0	52.0	51.0	49.8	48.0	45.8	43.9	45.8	49.8	51.58
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	52.5	52.0	51.6	51.0	50.7	50.1	48.5	46.4	43.7	46.4	50.5	51.09
	22	53.6	53.5	53.5	53.1	52.9	51.0	49.1	46.5	46.0	48.1	49.7	52.95
	23	53.9	53.7	53.5	52.7	52.0	51.1	49.0	46.2	45.1	45.6	48.0	52.21
	24	55.2	54.9	54.1	52.7	53.0	55.5	54.2	51.2	48.8	49.2	52.3	53.75
	25	52.9	52.0	51.6	51.8	51.8	52.6	52.1	50.3	48.3	47.2	48.0	52.69
	26	52.5	52.7	53.0	53.0	53.0	53.3	52.6	51.2	50.3	51.0	51.5	53.25
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	52.0	51.7	51.0	52.2	52.8	53.1	51.9	49.9	48.8	47.1	49.1	52.57
	29	52.9	52.0	52.0	52.0	51.9	51.8	50.2	47.0	45.4	46.2	48.1	51.77
	30	51.8	51.7	51.7	51.6	52.1	51.3	49.6	47.0	47.3	48.1	51.3	51.95
	31	53.2	52.5	52.0	51.0	50.0	50.3	50.1	50.1	49.8	50.7	51.5	52.59
Hourly Means	52.83	52.40	52.16	51.98	51.34	50.76	49.72	48.53	47.75	48.92	51.28		
FEBRUARY.	1	53.0	52.5	52.0	51.4	50.3	49.7	49.2	47.0	47.2	49.0	50.9	51.67
	2	52.6	52.0	49.4	49.6	51.7	50.0	48.9	45.9	44.1	45.3	48.2	51.01
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	52.1	53.0	53.2	51.7	51.0	52.0	49.2	46.1	43.8	45.3	50.0	50.40
	5	52.9	52.9	52.0	52.1	51.6	51.2	49.0	45.2	43.7	43.2	47.2	50.71
	6	52.5	53.0	52.1	51.9	51.2	51.0	48.0	45.0	43.6	43.3	48.6	51.02
	7	50.4	50.3	51.2	51.8	51.9	50.9	49.2	47.6	45.1	44.7	47.1	50.93
	8	52.5	53.3	51.6	51.8	51.1	50.1	47.4	44.5	42.6	42.9	43.9	50.85
	9	52.1	52.9	53.0	52.3	52.4	51.8	49.2	46.8	45.9	46.0	47.5	51.51
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	51.9	51.0	52.1	51.0	51.3	51.1	49.8	47.0	45.4	44.1	46.1	50.92
	12	52.1	51.6	51.9	52.0	52.0	51.0	48.7	45.2	44.5	46.0	49.2	51.46
	13	52.5	52.5	52.2	52.2	52.2	52.0	49.4	46.6	44.0	43.5	47.0	51.41
	14	53.3	53.0	52.5	52.6	53.0	52.2	50.6	48.0	45.3	45.5	49.0	52.49
	15	52.1	52.1	52.3	52.3	51.9	51.2	49.0	44.9	41.1	41.7	46.0	51.30
	16	52.2	52.2	52.2	51.2	50.9	53.3	49.8	44.8	41.8	44.6	48.6	51.24
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	53.1	53.0	53.1	52.9	52.1	51.6	48.7	45.5	42.4	44.7	50.9	52.09
	19	53.3	53.0	53.0	52.7	53.0	52.8	49.0	44.1	42.9	44.8	49.1	52.60
	20	53.3	52.9	52.8	52.3	51.6	51.6	48.3	43.3	38.9	40.0	46.1	51.41
	21	52.9	52.5	52.6	52.6	52.3	51.9	49.5	45.2	40.5	40.3	45.9	50.88
	22	53.0	53.0	52.9	53.0	—	53.1	51.0	46.5	41.3	41.1	44.2	51.85
	23	53.1	53.0	53.0	53.1	53.8	53.9	53.0	49.8	46.4	45.2	47.4	52.80
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	53.6	53.3	53.1	53.2	53.6	54.0	51.8	47.8	44.0	43.9	48.0	52.96
	26	53.8	53.8	53.7	54.0	54.1	54.9	52.2	47.0	43.1	43.8	46.0	53.21
	27	53.9	53.3	53.4	53.7	53.6	52.8	50.1	46.9	44.5	46.2	51.1	52.89
	28	51.4	51.2	51.1	52.3	50.9	49.0	48.7	45.8	42.3	42.0	45.0	51.23
	29	53.0	52.8	52.0	52.1	53.9	52.5	49.5	46.2	44.6	45.5	47.5	50.94
Hourly Means	52.66	52.56	52.34	52.23	52.14	51.82	49.57	46.11	43.56	44.10	47.62		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
MARCH.	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.	
	1	49.9	52.2	53.2	54.2	54.6	53.8	53.1	53.1	53.9	54.1	53.3	53.3	53.7
	2	51.6	51.3	51.7	52.1	51.5	51.7	51.9	51.8	51.9	49.0	48.4	47.3	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	51.6
	4	52.8	54.1	53.7	52.7	50.9	50.7	50.3	48.9	48.0	51.2	50.9	52.1	51.0
	5	48.9	50.0	51.2	50.2	51.0	50.4	49.4	47.9	48.7	49.7	46.8	48.2	49.1
	6	49.9	51.8	54.3	52.2	51.5	47.7	50.2	50.0	50.8	50.9	51.0	51.0	50.0
	7	48.3	50.8	53.0	52.2	49.2	48.8	45.9	46.7	48.0	50.0	49.7	54.1	48.2
	8	49.5	51.9	53.0	53.2	51.9	50.2	49.9	47.2	49.0	49.7	51.7	50.2	50.3
	9	49.9	51.8	52.9	53.6	52.9	51.1	50.0	51.2	51.6	50.1	51.0	51.1	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	11	52.9	53.6	53.9	53.7	53.2	52.7	52.8	52.1	52.1	52.0	51.0	50.9	51.0
	12	50.1	51.1	53.1	53.6	53.2	52.2	51.6	52.0	52.0	51.9	51.7	52.7	52.2
	13	52.5	54.0	54.2	53.9	53.2	52.8	52.9	53.1	53.3	53.8	53.3	53.3	53.0
	14	53.2	54.6	54.4	54.0	53.7	53.5	53.2	53.5	53.6	54.0	54.1	53.4	53.0
	15	52.3	53.8	55.1	55.0	54.1	53.2	53.4	53.6	54.0	54.0	54.0	53.9	53.1
	16	55.2	56.4	57.0	56.0	54.5	53.2	53.5	54.0	54.0	54.0	53.6	53.3	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	18	56.2	56.1	55.8	54.1	53.8	53.3	53.8	53.8	53.8	51.0	53.0	52.6	53.2
	19	50.9	52.2	53.2	53.9	53.2	52.3	53.0	54.0	52.1	54.0	54.0	53.9	54.0
	20	51.8	53.8	54.6	54.2	53.2	53.2	53.3	53.5	53.6	53.5	53.0	53.9	54.2
	21	50.9	53.1	54.3	53.9	53.0	52.6	52.9	52.8	53.0	53.1	53.0	53.1	53.8
	22	51.8	55.2	57.2	56.3	55.0	53.6	53.5	53.9	53.9	53.0	53.0	53.2	53.8
	23	51.5	54.5	55.1	55.1	54.7	53.2	53.1	53.8	53.8	53.9	53.9	53.9	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	54.2
	25	53.3	56.3	56.2	55.8	54.5	53.2	53.1	53.1	53.0	53.0	52.7	52.9	52.6
	26	53.0	54.3	54.8	54.7	53.2	52.7	52.8	52.7	53.0	53.0	52.9	53.2	53.0
	27	51.0	53.6	55.3	55.2	54.3	53.5	53.0	52.3	52.8	52.7	51.9	52.9	52.1
	28	50.5	52.8	55.0	53.7	52.7	52.4	52.7	52.0	51.9	53.0	53.0	53.0	52.8
	29	53.3	54.3	54.1	54.0	52.9	52.1	52.5	52.6	53.2	52.8	50.4	46.1	45.3
	30	52.5	53.2	50.9	50.1	49.6	51.0	43.0	48.0	50.0	49.2	50.1	52.7	—
31	—	—	—	—	—	—	—	—	—	—	—	—	52.9	
Hourly Means	51.68	53.34	54.12	53.75	52.90	52.12	51.72	51.83	52.12	52.18	51.98	52.16	52.07	
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.	Sc. Div.	
	1	52.9	53.8	54.0	52.1	52.0	51.2	49.6	51.8	51.9	51.0	52.0	51.0	52.0
	2	51.9	52.6	52.7	53.0	51.2	51.4	49.9	51.8	50.0	52.3	50.7	51.9	51.9
	3	50.5	51.0	51.1	50.7	50.4	50.6	48.2	49.1	51.1	50.9	51.2	50.6	50.4
	4	51.1	52.7	53.0	52.5	51.1	50.8	50.9	50.1	50.4	51.1	51.1	50.9	52.1
	5	51.1	54.0	55.2	55.4	54.1	52.0	51.1	51.2	51.9	52.2	52.5	52.8	52.0
	6	49.2	51.7	52.3	51.9	50.9	50.8	50.3	50.6	50.5	50.6	51.9	51.7	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	50.8
	8	51.0	53.1	52.2	52.0	52.1	52.0	52.0	52.0	51.0	51.5	51.7	51.9	51.9
	9	52.0	54.7	53.1	52.8	52.8	52.0	51.7	52.0	52.1	52.4	52.3	52.1	52.1
	10	50.7	53.0	52.3	51.9	52.0	51.7	52.1	52.0	51.8	51.4	51.4	51.0	51.0
	11	51.8	53.0	52.4	51.4	51.7	51.9	51.9	51.9	51.9	51.9	52.0	51.9	51.8
	12	53.0	53.5	52.0	51.5	51.8	52.0	52.2	52.6	52.6	52.8	52.5	52.4	52.2
	13	54.2	54.2	53.5	53.0	52.9	52.6	52.5	52.7	53.0	53.0	53.0	53.0	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	52.1
	15	54.4	55.0	54.4	53.5	52.8	52.0	52.3	52.3	52.1	52.0	51.8	51.9	51.9
	16	52.9	55.4	55.1	53.8	52.8	52.5	52.8	52.2	52.7	52.9	53.0	53.0	53.0
	17	54.8	52.5	49.0	46.4	46.9	43.1	43.8	40.2	40.9	45.0	41.5	47.5	47.0
	18	51.7	51.9	50.8	51.0	51.3	51.8	51.5	51.5	52.4	52.3	52.0	50.3	51.3
	19	49.8	51.2	51.5	51.7	52.3	52.1	52.0	52.0	52.0	52.0	52.0	52.0	52.5
	20	53.1	54.6	53.2	52.0	51.6	52.0	52.0	52.0	52.0	52.0	52.2	52.2	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	22	50.6	52.1	52.7	52.4	51.9	51.9	52.0	51.7	51.6	51.6	51.9	52.0	52.0
	23	53.0	54.2	54.2	52.7	52.7	52.0	52.0	52.0	52.1	52.1	52.6	52.6	52.6
	24	52.9	55.0	54.2	53.7	53.5	52.8	52.9	52.3	52.9	52.2	52.9	53.0	53.0
	25	54.5	55.8	53.9	54.9	52.9	52.0	51.0	47.4	50.4	51.0	51.7	51.0	45.1
	26	53.1	55.3	52.0	51.8	51.8	49.5	49.5	50.2	50.9	50.0	51.0	51.5	51.8
	27	51.2	52.5	53.2	53.0	52.2	52.1	52.1	50.4	52.8	52.0	50.9	54.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	53.3
	29	52.0	53.2	53.7	52.8	52.0	50.9	51.7	51.5	52.0	52.3	52.7	52.3	51.6
30	52.1	53.1	53.5	53.8	53.0	52.9	52.3	52.0	50.9	51.5	52.4	52.6	53.8	
Hourly Means	52.13	53.43	52.89	52.37	51.95	51.41	51.17	50.98	51.30	51.54	51.57	51.85	51.59	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MARCH.	1	53·4	53·4	52·9	52·8	51·5	50·1	48·0	45·1	44·9	47·8	50·3	51·78
	2	—	—	—	—	—	—	—	—	—	—	—	49·60
	3	53·9	49·7	49·0	48·9	49·6	48·0	45·9	43·3	43·4	46·9	50·1	
	4	50·9	51·9	51·8	51·3	50·7	49·3	47·2	44·7	44·8	46·6	47·9	50·18
	5	51·2	49·1	50·2	51·8	52·9	49·7	45·5	43·9	43·5	45·3	47·7	48·85
	6	52·0	50·2	50·1	50·1	52·9	51·4	52·1	46·6	44·2	44·8	46·2	50·08
	7	49·8	50·0	51·0	51·2	50·1	50·7	48·8	47·0	44·3	44·9	46·7	49·14
	8	50·4	54·0	51·8	50·5	50·0	50·0	47·5	44·0	42·9	44·9	46·5	49·59
	9	—	—	—	—	—	—	—	—	—	—	—	50·12
	10	52·0	52·0	51·7	51·6	51·4	50·0	47·0	42·9	41·2	44·1	49·8	
	11	51·4	51·9	52·5	52·2	52·0	52·0	50·0	46·0	42·9	44·7	47·9	51·06
	12	51·7	52·0	52·0	52·8	53·2	52·1	49·4	46·0	44·0	47·0	50·4	51·17
	13	52·8	52·3	52·5	52·0	52·1	52·1	49·3	45·0	42·9	46·0	50·8	51·71
	14	52·6	52·3	52·4	52·7	53·0	52·1	49·1	45·2	43·2	45·1	49·3	51·88
	15	53·0	52·9	52·4	52·4	52·4	52·0	49·9	46·8	46·2	50·3	53·1	52·54
	16	—	—	—	—	—	—	—	—	—	—	—	52·77
	17	53·5	53·2	52·6	52·2	53·0	51·6	50·0	46·5	44·3	47·7	53·3	
	18	53·3	53·7	53·0	53·0	51·8	50·7	47·4	45·5	44·6	46·0	51·1	52·11
	19	53·5	53·3	53·0	52·5	53·0	52·0	49·8	44·1	42·2	45·0	48·9	51·58
	20	54·3	54·0	53·3	53·2	52·6	52·1	49·1	45·1	42·2	45·0	47·9	51·86
	21	53·3	53·1	53·3	53·5	53·7	52·8	50·0	46·2	44·6	46·0	48·8	51·87
	22	54·0	54·0	53·8	53·6	54·3	52·7	50·0	46·7	45·1	45·6	48·3	52·56
	23	—	—	—	—	—	—	—	—	—	—	—	52·72
	24	53·9	54·0	54·0	54·0	53·9	53·3	51·5	47·6	45·7	46·7	50·0	
	25	52·5	52·4	52·2	52·3	53·0	53·1	51·5	47·9	46·1	48·0	50·1	52·45
	26	52·4	52·9	52·9	53·0	53·2	52·4	50·2	46·4	43·9	45·0	47·9	51·81
	27	51·1	52·1	52·1	52·4	52·3	52·2	51·2	47·4	44·8	44·9	46·6	51·57
	28	52·8	52·6	52·8	52·6	52·6	52·3	49·7	47·5	45·6	46·5	50·4	51·70
	29	43·8	53·3	53·0	52·9	50·0	57·2	54·0	50·2	53·0	54·7	51·5	51·97
	30	—	—	—	—	—	—	—	—	—	—	—	50·62
	31	52·6	52·0	52·1	52·0	53·2	55·0	50·0	46·9	47·0	49·0	51·9	
Hourly Means	52·16	52·40	52·25	52·21	52·25	51·80	49·39	45·94	44·52	46·48	49·36	51·32	
APRIL.	1	53·1	53·0	55·7	53·3	53·8	52·9	50·2	47·7	47·4	48·2	50·9	51·73
	2	52·0	52·1	52·8	55·1	55·2	52·9	50·0	47·9	47·0	48·0	49·2	51·40
	3	51·2	51·9	54·1	55·7	53·3	51·7	48·5	46·0	45·4	47·2	49·1	50·41
	4	52·1	53·1	53·3	53·1	53·3	52·3	49·5	46·8	45·5	47·3	49·5	50·98
	5	58·0	53·2	52·9	54·2	53·2	51·7	50·0	47·6	44·7	45·1	46·0	51·75
	6	—	—	—	—	—	—	—	—	—	—	—	50·43
	7	51·3	51·3	52·6	52·0	51·6	51·4	50·0	47·7	46·0	45·5	47·7	
	8	52·1	53·9	52·5	52·6	52·3	52·4	51·2	49·0	47·4	47·4	49·0	51·43
	9	52·2	52·0	52·2	52·3	52·8	53·0	51·0	48·0	46·3	45·3	46·7	51·41
	10	49·8	51·0	51·6	52·2	52·0	51·9	51·8	49·2	47·2	47·3	48·4	51·03
	11	51·8	51·9	52·0	51·5	52·0	52·4	50·5	48·1	46·2	47·7	50·1	51·24
	12	52·0	52·0	52·0	52·1	52·5	52·5	50·7	48·6	47·5	48·5	51·9	51·73
	13	—	—	—	—	—	—	—	—	—	—	—	52·05
	14	52·1	52·1	51·9	51·5	53·0	53·0	51·2	49·1	47·0	47·9	50·8	
15	51·9	51·9	52·1	51·8	51·9	51·3	50·6	48·4	47·9	48·9	50·8	51·83	
16	52·2	53·4	52·9	51·1	53·0	57·0	53·8	52·2	52·2	55·3	54·7	53·33	
17	56·7	52·7	51·0	51·8	51·2	51·0	50·0	47·6	45·9	48·6	50·9	48·17	
18	51·0	51·0	51·0	50·7	50·8	50·3	49·0	46·3	44·2	44·9	48·2	50·30	
19	52·2	52·2	52·5	52·1	52·0	51·9	49·9	46·3	43·5	45·7	50·0	50·89	
20	—	—	—	—	—	—	—	—	—	—	—	51·36	
21	52·6	52·3	52·9	52·0	51·9	52·1	51·2	49·0	46·0	44·7	46·9		
22	52·0	51·8	52·0	52·0	51·9	51·8	51·0	48·2	47·1	46·0	49·1	51·14	
23	52·8	52·4	52·6	52·7	52·4	53·0	51·0	48·1	46·0	46·8	49·1	51·74	
24	53·0	53·1	52·9	52·9	53·7	53·4	53·1	50·5	48·3	48·5	52·0	52·61	
25	52·0	51·9	51·5	52·4	55·0	53·2	53·2	51·5	49·8	50·0	50·8	51·79	
26	55·0	53·0	52·5	56·6	57·2	55·1	54·7	50·6	49·3	47·5	49·2	52·05	
27	—	—	—	—	—	—	—	—	—	—	—	52·59	
28	53·3	53·2	53·0	54·0	55·0	55·9	55·2	52·8	50·2	48·9	50·0		
29	51·5	52·5	53·0	54·2	54·0	54·0	53·2	51·9	50·0	50·0	51·0	52·25	
30	52·8	54·7	56·8	54·8	55·0	54·1	53·0	51·0	51·1	53·0	53·1	53·05	
Hourly Means	52·57	52·45	52·70	52·87	53·08	52·78	51·29	48·85	47·27	47·85	49·81	52·05	

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
MAY.	1	52.8	52.9	53.6	53.6	52.2	52.0	51.7	50.3	51.3	51.6	50.0	50.8	51.9
	2	51.3	51.8	52.3	52.0	51.5	50.8	50.5	52.0	52.0	52.0	52.0	51.9	52.4
	3	52.0	53.2	53.1	52.0	50.9	50.1	50.0	49.7	50.7	51.5	52.0	52.2	52.5
	4	52.3	53.3	52.8	52.0	51.5	51.7	51.9	52.0	52.0	52.2	52.9	52.9	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	52.9
	6	51.1	52.0	52.7	52.8	51.9	52.6	52.0	52.0	52.9	52.6	52.3	52.3	51.7
	7	52.5	52.7	53.0	52.1	52.0	52.0	52.0	51.8	52.0	51.8	52.2	52.5	52.0
	8	51.8	51.8	51.9	52.1	51.2	51.0	48.0	50.5	49.9	49.3	49.2	50.0	51.9
	9	53.1	52.2	52.0	49.5	49.6	48.9	49.1	49.9	50.2	50.8	50.9	50.7	49.3
	10	52.9	52.9	51.9	51.0	50.0	50.0	51.2	51.9	51.9	51.9	52.0	51.9	52.0
	11	51.8	51.1	51.1	51.0	50.8	50.3	50.9	50.9	50.5	51.0	51.0	50.9	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	13	51.8	52.0	52.0	51.9	51.1	51.2	51.4	51.9	51.9	51.9	52.0	52.0	52.4
	14	51.1	52.0	51.2	52.1	51.2	50.9	51.9	52.0	51.7	51.8	52.0	51.2	52.0
	15	51.5	51.1	51.2	51.1	50.2	50.4	50.4	51.0	51.4	52.0	52.0	52.7	52.8
	16	51.5	50.9	50.0	51.1	50.8	50.9	51.1	51.6	51.9	52.0	52.4	52.4	52.6
	17	51.6	52.7	52.5	52.1	51.9	52.0	52.0	52.0	52.0	52.1	52.3	52.4	51.5
	18	52.4	52.4	52.9	53.0	52.9	52.0	51.8	52.0	52.0	52.1	52.6	52.8	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	53.0
	20	52.0	53.1	54.1	53.9	53.1	53.0	52.9	52.9	53.0	53.0	53.5	53.9	54.0
	21	53.3	53.9	53.9	53.0	52.2	52.1	52.0	52.0	52.0	52.1	52.7	52.7	50.1
	22	53.0	53.5	53.0	53.5	52.2	52.0	51.9	51.1	51.2	49.0	49.7	50.5	51.0
	23	50.9	52.7	52.8	52.9	50.2	50.4	50.3	51.3	53.1	52.0	52.0	51.9	52.0
	24	51.4	52.2	52.2	52.2	51.8	50.2	52.0	51.0	51.0	51.2	54.0	52.0	52.6
	25	51.0	51.2	51.5	52.0	51.6	51.3	51.5	51.1	51.8	49.1	52.8	52.7	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	52.5
	27	51.0	51.1	51.0	51.6	52.0	52.0	52.0	52.0	50.0	52.2	51.5	51.4	52.0
	28	50.0	50.7	51.5	51.8	51.7	51.6	52.0	52.1	52.3	52.0	53.3	53.5	53.4
	29	48.1	49.1	50.7	51.5	51.5	51.2	51.6	52.0	52.2	51.5	52.3	52.2	52.8
	30	49.8	51.0	52.2	52.3	52.0	51.8	52.0	52.1	52.2	52.8	53.0	53.0	53.1
	31	50.2	51.9	52.9	52.9	52.2	51.9	52.0	52.1	51.7	51.9	52.4	52.4	53.0
Hourly Means	51.56	52.05	52.22	52.11	51.49	51.27	51.34	51.53	51.66	51.61	52.04	52.07	52.16	
JUNE.	1	49.2	49.9	50.9	51.7	51.6	51.3	51.7	51.7	52.2	52.3	52.2	—	
	2	—	—	—	—	—	—	—	—	—	—	—	52.2	
	3	50.2	50.2	50.7	50.0	49.4	49.8	50.0	50.0	50.0	50.2	51.1	51.4	51.6
	4	50.8	51.1	51.5	51.1	50.9	50.5	50.5	50.7	50.8	51.2	51.0	52.0	52.1
	5	50.5	52.3	53.4	53.2	52.1	52.0	51.2	51.5	51.2	51.8	52.0	52.0	52.0
	6	50.4	50.4	52.0	52.5	52.0	51.9	52.0	52.0	52.0	52.0	52.2	52.0	52.5
	7	48.5	50.0	52.0	52.1	51.9	52.0	52.0	52.0	52.0	52.0	52.2	52.4	52.8
	8	50.9	51.8	52.3	52.6	52.1	51.9	52.0	52.2	52.2	52.3	52.2	52.3	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	52.3
	10	52.9	52.4	53.2	53.3	53.0	52.3	52.6	52.8	53.2	53.1	53.4	53.5	53.1
	11	51.8	52.1	53.0	53.0	53.0	53.0	52.8	53.0	53.3	53.0	53.0	53.0	53.0
	12	51.8	53.1	55.1	55.0	53.7	53.0	53.1	53.0	53.7	54.0	53.6	53.5	53.7
	13	52.3	53.9	55.1	54.3	53.0	53.0	53.0	53.1	53.0	53.0	53.0	53.4	52.9
	14	52.1	54.0	55.5	54.7	54.0	53.5	53.9	53.9	53.9	54.0	54.2	54.3	54.1
	15	50.5	52.2	53.8	54.6	54.0	54.0	54.1	54.2	54.0	54.0	54.4	54.6	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	52.4
	17	51.0	51.1	53.0	52.5	51.5	51.1	51.9	51.0	52.0	51.5	52.0	53.0	53.0
	18	52.9	54.0	52.9	52.3	52.7	52.0	51.8	51.5	51.5	51.9	52.0	54.0	53.2
	19	51.2	52.4	54.0	54.0	52.7	52.7	52.4	52.9	52.9	52.7	52.9	53.4	53.9
	20	50.6	52.0	53.8	53.5	53.0	53.0	53.0	53.0	53.0	53.7	53.2	54.6	54.1
	21	50.0	52.9	54.2	53.9	52.5	52.0	52.1	52.4	51.5	52.0	51.9	51.9	52.4
	22	51.0	52.1	53.2	54.0	53.5	53.0	53.0	53.1	53.2	53.9	54.0	54.0	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	54.2
	24	52.1	53.2	54.0	54.0	53.3	53.4	53.9	53.9	54.3	54.4	54.9	55.0	55.0
	25	51.7	52.2	53.5	53.9	53.0	53.0	53.5	53.5	54.0	54.2	54.2	54.3	54.4
	26	52.7	53.0	53.7	54.5	53.6	53.3	53.5	53.9	53.6	53.0	53.9	54.4	53.8
	27	52.9	53.2	55.0	54.5	53.9	53.3	53.4	53.6	54.0	54.5	54.4	54.4	54.5
	28	51.9	53.8	55.4	55.5	54.1	54.0	54.0	54.0	54.2	55.0	54.0	54.9	55.0
	29	53.1	55.1	54.8	55.0	53.9	52.5	52.5	52.3	52.2	53.3	53.0	53.1	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	53.0
Hourly Means	51.32	52.34	53.44	53.43	52.74	52.46	52.56	52.61	52.72	52.92	53.00	53.34	53.25	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'.6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Meaus.	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
MAY.	1	51.9	52.6	53.4	53.7	53.3	54.0	54.4	51.7	49.4	48.7	48.9	51.95
	2	53.1	54.8	55.8	54.3	53.4	55.0	54.1	50.9	48.9	48.0	48.9	52.07
	3	52.7	52.7	52.9	52.9	52.9	53.0	51.4	48.5	47.4	47.1	48.7	51.25
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	52.5	51.9	53.9	51.5	51.0	52.0	51.0	48.5	47.1	46.9	48.1	51.45
	6	51.9	52.2	52.0	53.0	52.5	52.5	53.0	50.7	48.9	48.7	50.0	51.85
	7	52.3	52.1	52.3	54.0	55.5	54.9	56.8	51.4	49.0	49.1	50.9	52.37
	8	54.0	53.4	54.9	55.0	52.5	53.2	52.8	52.1	51.2	51.2	52.0	51.70
	9	50.5	51.0	52.1	52.1	52.1	52.8	54.0	53.0	51.3	50.5	51.3	51.12
	10	52.0	52.4	52.4	54.0	53.2	53.9	53.8	51.2	49.0	47.6	50.0	51.71
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	52.0	52.4	52.5	52.3	52.9	53.0	53.5	51.9	50.0	49.6	50.6	51.38
	13	52.5	52.8	52.7	52.4	53.9	54.6	54.1	52.5	50.6	50.3	49.2	52.05
	14	51.0	50.3	49.1	53.5	53.5	52.0	52.1	51.9	51.1	51.1	50.2	51.54
	15	—	—	—	51.9	52.2	52.0	51.7	50.3	49.3	49.0	50.6	51.18
	16	52.3	52.0	52.0	52.1	52.1	52.1	53.0	51.8	50.2	50.5	51.0	51.60
	17	51.4	52.0	52.3	52.4	53.0	53.3	52.6	50.1	48.3	47.9	49.6	51.67
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	53.0	53.1	53.5	53.4	53.3	53.7	53.7	51.9	50.0	49.0	50.5	52.38
	20	54.0	54.0	54.0	53.9	54.0	54.0	53.9	52.0	50.1	50.7	52.1	53.13
	21	53.0	52.9	52.5	53.5	53.9	52.7	52.4	50.7	49.3	49.0	51.3	52.22
	22	52.0	50.4	53.9	52.4	59.1	57.0	54.1	53.1	52.1	50.0	49.1	52.28
	23	52.1	53.3	53.4	53.2	53.0	53.0	53.3	51.9	49.7	48.4	50.5	51.85
	24	53.1	53.0	54.4	53.8	53.1	53.0	53.7	52.0	50.7	50.2	50.0	52.12
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	52.9	53.1	54.0	54.5	54.0	54.5	55.0	54.1	51.8	50.1	50.0	52.25
	27	52.0	52.8	52.9	52.3	53.6	54.5	55.0	53.8	52.2	50.2	49.6	52.03
	28	53.2	53.3	53.4	54.0	53.8	54.7	55.4	53.9	51.2	49.5	48.1	52.35
	29	53.0	52.9	53.2	53.2	53.9	55.0	55.5	55.3	52.7	51.1	50.1	52.19
	30	53.0	52.9	53.0	53.0	53.1	53.8	54.1	52.8	50.0	48.8	49.0	52.12
	31	53.2	53.9	53.3	53.3	53.8	54.1	54.8	52.8	49.8	48.8	49.1	52.27
Hourly Means	52.48	52.62	53.07	53.17	53.43	53.64	53.67	51.88	50.05	49.33	49.98		
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	51.61
	2	52.7	52.2	52.0	53.0	53.0	52.7	53.4	52.0	50.0	49.0	49.5	50.62
	3	51.5	51.6	51.5	51.7	51.2	51.5	51.5	49.9	49.2	49.8	50.9	51.08
	4	52.1	52.2	52.0	52.0	51.9	52.3	52.7	51.1	49.3	47.9	48.3	51.82
	5	52.0	52.0	52.0	52.0	52.0	52.1	52.9	52.0	50.3	50.4	50.7	52.08
	6	53.0	53.0	53.0	53.2	53.1	53.7	55.0	53.5	51.1	49.5	48.0	52.01
	7	53.0	53.0	53.0	53.0	53.1	53.9	55.0	53.3	51.0	48.9	49.1	52.32
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	52.4	52.5	53.3	53.0	53.2	53.3	54.0	53.8	51.8	50.6	50.7	53.23
	10	53.8	53.2	55.7	54.1	53.8	54.0	55.0	53.5	52.0	52.0	51.7	52.97
	11	53.1	53.9	53.0	53.7	54.4	54.3	55.2	54.0	51.8	50.2	50.7	53.54
	12	53.5	53.6	53.5	53.6	53.3	54.7	55.2	54.4	53.0	51.8	52.0	53.26
	13	53.0	53.0	53.9	53.9	54.0	54.1	54.7	53.7	52.0	50.9	52.0	53.78
	14	54.1	54.2	54.5	54.6	54.3	55.0	55.2	54.7	52.0	50.0	49.9	53.90
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	56.7	54.5	54.4	53.9	55.4	56.5	56.2	55.0	53.1	50.9	50.2	52.95
	17	53.0	56.9	55.2	52.6	54.9	55.5	55.9	54.1	53.5	52.1	52.4	52.98
	18	53.5	54.0	53.7	54.6	54.4	55.0	55.7	54.8	52.1	50.6	50.5	53.26
	19	53.8	53.9	54.3	54.0	54.0	55.2	55.9	54.8	52.6	51.0	50.6	53.30
	20	54.9	54.0	55.0	54.1	54.7	55.0	56.4	55.2	51.3	49.2	48.9	52.85
	21	53.3	55.0	54.3	54.5	54.9	54.9	54.8	53.7	52.3	50.8	50.1	53.69
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	54.3	54.5	54.8	55.0	55.0	55.4	56.2	55.0	53.0	51.3	51.9	54.22
	24	55.0	55.1	55.2	55.3	55.4	55.8	56.1	55.6	52.9	51.7	51.7	53.85
	25	54.9	55.0	55.0	55.0	55.0	55.7	56.3	55.0	52.2	51.0	51.9	53.85
	26	54.3	54.5	54.5	54.5	54.5	54.9	55.0	54.3	53.0	52.9	53.0	54.06
	27	54.7	54.9	55.1	55.0	55.2	55.3	56.0	54.9	52.9	50.9	50.9	54.40
	28	55.0	54.0	54.4	53.6	54.7	55.0	57.0	57.0	54.9	52.9	51.3	53.53
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	53.0	53.0	54.0	55.0	54.1	54.1	55.2	55.1	53.1	52.1	52.1	
Hourly Means	53.62	53.75	53.89	53.80	53.98	54.40	55.06	54.02	52.02	50.74	50.76		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
JULY.	1	51.9	50.8	52.0	52.9	52.4	52.2	52.2	52.3	52.9	53.0	53.0	53.1	53.7
	2	50.4	51.4	54.2	54.5	53.0	51.9	52.0	52.0	52.0	52.0	53.0	52.9	53.0
	3	52.2	53.4	54.1	54.9	54.8	53.1	53.1	53.0	53.3	53.8	54.1	54.2	54.3
	4	53.8	53.9	53.8	53.8	53.3	52.8	52.8	52.8	53.1	53.4	54.0	54.1	54.2
	5	53.1	54.7	54.9	54.7	53.9	53.0	53.4	53.6	53.7	54.0	54.2	54.5	55.0
	6	51.3	53.5	54.2	54.8	53.9	53.1	53.5	53.6	53.9	53.9	54.2	54.0	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	8	52.6	53.5	53.8	53.9	52.8	53.1	52.4	52.8	52.8	52.9	53.0	53.1	53.0
	9	50.1	52.1	53.9	53.9	53.2	53.0	53.3	53.3	53.5	53.1	53.1	53.2	53.7
	10	54.1	54.9	54.5	54.5	53.6	53.0	52.6	52.8	53.2	53.2	53.4	53.8	53.9
	11	52.2	53.0	55.0	54.4	52.7	52.6	52.9	53.0	53.0	53.7	54.0	53.6	54.2
	12	52.3	52.5	53.2	54.1	53.6	53.1	53.3	53.6	53.7	53.9	54.0	54.0	54.0
	13	52.0	52.5	54.0	54.1	52.9	52.0	52.2	53.0	52.0	52.5	53.6	53.4	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	54.4
	15	52.8	52.3	53.1	53.5	52.9	52.3	53.0	53.1	53.0	53.0	53.4	54.2	54.4
	16	49.7	50.8	52.4	53.6	52.7	52.2	52.9	53.0	53.3	53.9	54.0	54.1	54.0
	17	48.5	49.8	51.0	53.0	54.7	53.5	53.1	53.7	53.2	52.5	53.7	53.5	54.2
	18	52.4	53.4	53.3	53.2	53.0	52.2	51.9	52.1	52.1	52.0	53.1	53.5	54.0
	19	52.2	52.5	53.2	55.1	54.2	53.7	53.3	53.5	53.8	54.1	54.3	54.5	54.9
	20	52.5	52.9	53.2	54.3	54.4	54.0	53.9	54.1	54.1	54.5	54.7	54.7	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	55.0
	22	53.1	54.5	55.6	55.4	54.5	54.4	54.2	54.1	54.2	54.4	54.2	55.0	55.0
	23	53.9	55.8	55.5	54.7	54.0	53.7	53.5	53.6	53.8	54.0	54.5	54.7	54.9
	24	50.9	52.4	54.8	54.9	53.9	53.2	53.6	54.2	54.3	54.5	54.8	54.8	55.0
	25	52.0	53.2	55.2	55.0	53.8	51.9	52.1	52.6	47.9	53.0	52.0	52.6	53.0
	26	49.8	50.0	52.3	53.2	53.8	53.0	53.0	52.5	53.8	53.1	53.0	53.3	53.8
	27	53.3	54.2	55.8	55.0	53.5	50.5	52.8	53.2	52.0	53.9	53.1	52.8	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	54.0
	29	51.8	53.0	53.1	54.0	53.7	53.1	53.4	53.0	53.8	53.9	53.8	53.9	53.9
	30	50.0	50.5	53.9	55.3	54.4	53.0	52.9	53.1	53.3	53.6	53.6	54.0	53.6
	31	49.0	52.0	54.8	54.9	54.3	52.2	53.0	53.0	52.1	53.1	54.4	53.3	54.0
Hourly Means	51.77	52.72	53.88	54.28	53.63	52.81	52.97	53.13	53.03	53.44	53.71	53.81	54.11	
AUGUST.	1	52.4	54.9	56.0	56.0	55.2	53.2	51.9	50.1	44.8	46.3	47.2	49.4	49.3
	2	48.6	50.3	49.5	51.3	51.5	51.3	51.2	52.0	51.8	51.3	51.8	53.0	53.9
	3	48.7	51.7	52.2	53.6	53.1	52.8	51.8	52.0	52.2	52.1	52.5	52.9	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	53.4
	5	50.1	52.7	54.0	54.1	53.0	52.8	52.9	53.0	53.0	52.9	53.0	52.8	52.6
	6	49.4	50.7	51.9	52.8	52.5	52.3	52.1	52.7	52.9	53.0	53.0	53.0	53.0
	7	49.8	52.0	55.2	56.2	54.9	53.4	53.5	53.6	53.6	53.7	53.4	53.3	53.2
	8	49.9	52.8	55.1	55.0	53.5	53.3	53.1	53.1	53.0	53.1	53.0	53.4	53.0
	9	49.9	51.3	55.4	56.3	53.0	50.6	50.3	50.0	49.0	50.1	51.7	52.2	54.4
	10	50.7	50.9	53.2	54.0	53.8	53.0	52.8	52.8	53.0	53.7	53.6	53.1	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	12	47.2	48.8	50.9	52.0	51.9	51.7	52.0	52.2	52.9	53.0	52.9	53.8	53.6
	13	48.9	49.6	50.9	52.1	52.0	51.8	52.0	52.4	53.0	53.1	53.3	53.3	53.4
	14	51.0	52.7	53.5	54.0	53.0	52.4	52.6	52.6	52.6	53.2	53.6	53.9	53.9
	15	50.2	51.4	54.3	54.9	54.1	52.9	53.1	53.5	53.3	53.9	54.0	54.2	54.2
	16	49.9	50.0	51.1	52.2	53.2	52.8	52.6	52.4	52.7	52.5	52.0	52.6	52.6
	17	50.0	50.5	52.6	54.1	54.6	52.9	52.8	53.0	52.8	53.4	52.3	52.7	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	53.6
	19	48.9	49.6	50.9	52.2	53.0	52.5	52.4	52.6	53.0	53.0	53.0	53.0	53.2
	20	51.3	53.3	55.0	55.4	54.9	53.4	53.0	52.7	53.0	53.0	53.0	53.1	53.9
	21	47.2	50.5	53.9	55.5	54.1	53.2	53.0	53.1	53.2	53.9	53.5	53.5	53.5
	22	49.9	51.2	52.8	54.4	53.9	52.2	53.0	52.2	52.0	52.5	52.0	51.1	51.0
	23	49.4	51.3	52.0	53.0	51.9	51.1	50.0	52.0	51.2	51.7	51.7	51.6	52.0
	24	48.0	50.9	53.3	53.9	53.3	51.8	52.0	52.2	51.4	51.8	49.0	50.8	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	53.0
	26	49.0	51.0	52.0	55.0	54.0	52.1	52.9	53.2	53.3	53.4	53.2	53.0	52.2
	27	49.4	51.0	52.0	53.1	53.0	52.0	52.1	52.5	52.8	52.5	53.0	53.2	53.1
	28	51.0	51.9	52.8	53.5	53.1	52.0	52.3	52.6	53.0	53.2	53.2	53.5	53.5
	29	50.0	51.1	52.5	55.0	55.5	53.2	54.0	54.7	54.9	53.9	51.7	52.0	51.8
	30	49.8	49.9	50.0	51.5	51.8	50.8	51.5	52.1	51.9	51.6	51.6	51.6	51.1
Hourly Means	49.64	51.23	52.81	53.89	53.38	52.37	52.34	52.51	52.32	52.53	52.39	52.69	52.87	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Gottingen Time.	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.	
JULY.	1	53·2	54·0	53·0	53·0	53·1	53·7	55·2	54·6	52·7	50·5	49·8	52·72
	2	53·5	53·6	53·5	53·4	54·0	54·0	54·9	54·8	52·9	51·3	50·5	52·86
	3	54·2	54·4	54·3	55·0	55·0	55·4	56·4	56·0	54·6	53·5	53·9	54·21
	4	54·5	54·2	54·7	54·6	54·9	55·0	55·1	53·6	52·0	51·1	51·2	53·61
	5	54·4	54·3	54·5	54·6	54·7	54·8	55·9	55·2	53·5	51·2	50·1	54·00
	6	—	—	—	—	—	—	—	—	—	—	—	53·76
	7	53·3	53·2	53·8	54·0	54·0	53·9	55·0	55·4	54·0	53·4	52·5	53·52
	8	54·0	53·6	53·3	54·3	54·2	54·8	55·7	53·1	50·5	48·4	48·8	
	9	53·7	53·2	53·3	53·9	53·2	53·0	53·9	53·2	52·8	53·0	53·9	53·19
	10	53·4	53·8	54·0	54·2	54·0	54·7	54·8	53·1	52·0	50·8	50·1	53·43
	11	54·3	54·0	54·3	54·3	53·4	54·0	54·6	54·0	52·6	50·9	51·0	53·40
	12	54·2	54·8	54·8	54·8	54·8	55·7	56·1	55·5	53·6	52·0	51·7	53·89
	13	—	—	—	—	—	—	—	—	—	—	—	53·65
	14	54·3	54·2	54·2	54·2	54·6	55·9	57·5	56·1	54·1	51·8	52·1	53·33
	15	55·8	55·2	54·5	54·2	54·1	54·1	55·4	54·8	52·1	49·9	48·9	
	16	54·9	54·1	55·0	54·6	54·1	54·2	55·4	55·3	53·2	50·6	48·0	53·17
	17	53·4	55·4	55·3	54·3	54·9	56·1	56·9	55·0	53·3	53·7	52·0	53·53
	18	54·0	54·0	54·0	54·2	54·9	55·0	55·6	54·9	53·4	52·4	52·0	53·36
	19	55·0	54·7	55·0	55·3	55·1	55·9	56·3	55·2	52·9	50·9	50·3	54·00
	20	—	—	—	—	—	—	—	—	—	—	—	54·04
	21	54·9	55·8	55·4	55·5	55·7	55·9	55·8	53·3	50·9	50·2	51·2	53·78
	22	55·0	55·0	55·0	55·0	55·7	56·0	57·6	55·8	52·3	48·5	50·1	
	23	55·0	55·0	55·1	55·4	55·0	56·1	56·8	55·9	53·7	52·0	50·9	54·48
	24	55·2	56·0	56·0	56·0	57·0	56·3	56·5	53·9	53·9	53·4	52·6	54·50
	25	54·4	54·0	54·0	54·9	55·1	55·6	55·8	54·8	52·2	51·2	51·0	53·22
	26	53·5	54·0	55·0	55·0	55·1	56·0	56·5	55·0	54·2	54·2	53·1	53·59
	27	—	—	—	—	—	—	—	—	—	—	—	53·25
	28	54·0	55·0	53·7	53·7	53·6	54·2	55·2	53·9	51·1	49·8	49·7	53·82
	29	54·0	54·0	54·2	54·8	55·2	56·1	59·0	56·5	53·4	50·1	49·9	
	30	53·5	53·5	53·7	54·0	54·3	55·3	58·2	57·0	53·0	49·6	48·0	53·39
	31	54·0	54·2	54·3	54·7	54·8	55·9	57·1	55·1	52·7	50·5	50·1	53·48
Hourly Means	54·21	54·34	54·37	54·51	54·61	55·10	56·04	54·85	52·88	51·29	50·87		
AUGUST.	1	50·8	51·9	52·0	54·1	53·7	55·0	57·1	54·2	51·8	48·1	49·1	51·85
	2	54·0	54·1	53·7	53·9	55·0	56·0	55·9	53·3	49·4	47·3	45·7	51·91
	3	—	—	—	—	—	—	—	—	—	—	—	52·22
	4	53·2	52·9	53·0	53·4	53·4	54·2	55·5	53·5	49·6	47·3	48·2	52·68
	5	53·2	53·3	53·1	53·7	53·8	53·6	54·3	52·8	50·7	48·6	48·6	
	6	53·0	53·1	53·3	53·2	53·0	53·5	55·2	54·1	52·4	50·9	49·2	52·51
	7	53·2	53·3	53·2	53·2	53·2	54·0	55·7	54·1	52·1	50·1	48·7	53·19
	8	53·8	53·1	53·2	53·4	53·3	53·8	55·2	54·0	51·9	49·9	49·1	53·00
	9	52·2	53·4	53·3	55·7	54·3	55·5	56·2	55·3	53·2	54·1	52·0	52·89
	10	—	—	—	—	—	—	—	—	—	—	—	52·62
	11	53·0	53·0	53·9	54·0	54·9	55·2	54·6	51·9	49·7	48·1	47·7	52·48
	12	53·9	53·9	55·8	54·6	55·2	55·3	56·1	54·0	50·1	48·9	48·8	
	13	53·2	53·3	53·5	53·8	54·2	55·0	54·9	52·8	50·1	48·9	49·5	52·29
	14	54·0	54·0	54·0	54·4	54·6	55·8	56·7	54·2	51·9	51·0	50·0	53·32
	15	54·6	54·5	54·8	54·3	54·6	55·6	56·8	54·7	52·0	50·5	50·3	53·61
	16	52·2	53·0	53·0	53·1	53·9	55·0	57·0	55·8	53·0	50·3	49·4	52·60
	17	—	—	—	—	—	—	—	—	—	—	—	52·89
	18	53·9	54·0	54·0	54·5	54·0	55·0	55·2	54·2	51·8	49·2	48·3	52·67
	19	53·8	54·2	54·2	54·2	54·5	55·6	56·3	54·0	51·0	49·6	49·4	
	20	54·0	54·5	55·0	54·5	54·6	55·0	56·1	54·0	51·0	47·9	46·7	53·26
	21	53·6	54·0	54·0	54·0	54·1	54·1	55·0	52·0	50·0	48·9	49·0	52·78
	22	51·8	52·2	55·0	54·0	53·1	54·2	54·2	53·7	50·4	50·2	49·6	52·36
	23	52·0	53·7	55·0	54·2	54·3	57·0	57·1	55·0	52·2	49·9	47·1	52·35
	24	—	—	—	—	—	—	—	—	—	—	—	51·95
	25	52·0	52·5	53·0	53·0	54·0	57·0	57·0	53·2	49·7	47·1	46·8	52·63
	26	53·0	52·9	54·5	53·9	54·3	56·0	56·0	52·5	49·9	47·9	47·8	
	27	53·1	53·0	52·5	53·6	53·3	54·7	54·9	52·3	50·6	49·4	50·0	52·38
	28	53·4	53·3	53·3	53·7	54·0	56·3	57·2	54·3	51·7	49·5	49·0	52·97
	29	51·7	51·7	54·4	54·3	52·4	53·7	56·5	54·1	52·1	50·2	49·6	52·96
	30	51·8	53·5	52·2	52·9	53·2	55·8	58·8	57·0	54·0	50·7	49·6	52·28
Hourly Means	53·02	53·32	53·73	53·91	53·96	55·07	55·98	53·88	51·24	49·40	48·82		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
SEPTEMBER.	Aug. 31	49.3	51.0	51.0	52.7	51.7	50.7	51.8	52.0	51.1	52.1	52.0	51.3	
	1	—	—	—	—	—	—	—	—	—	—	—	52.9	
	2	49.2	50.4	52.0	53.2	53.6	53.0	52.0	52.1	52.2	52.1	52.5	52.6	52.5
	3	47.9	48.5	51.1	53.8	54.0	52.1	52.3	52.5	52.9	53.0	53.0	53.0	53.0
	4	50.9	50.8	51.1	52.0	52.2	52.2	52.0	52.1	52.8	52.1	52.6	52.4	52.7
	5	47.8	49.1	50.4	51.7	52.0	52.0	52.0	52.5	52.6	52.6	52.7	52.7	52.7
	6	47.9	49.9	50.9	51.1	51.8	51.9	52.0	52.2	52.0	52.8	53.0	53.0	53.0
	7	51.1	51.8	51.9	52.3	52.5	51.5	52.0	52.0	53.0	53.0	53.0	53.2	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	9	52.3	53.0	53.0	52.5	52.2	52.3	52.7	51.8	53.3	53.0	53.2	52.9	52.8
	10	52.4	53.3	54.0	53.0	52.5	52.9	53.0	53.2	53.5	53.6	53.4	53.6	53.5
	11	49.8	52.0	52.9	53.4	53.3	53.2	53.4	53.5	53.5	53.3	53.7	53.7	53.8
	12	50.0	51.8	53.0	53.5	53.0	52.5	52.9	53.2	53.6	53.3	53.9	53.1	53.9
	13	52.4	52.9	53.1	53.8	53.1	53.0	53.3	53.4	53.6	53.5	53.8	53.4	54.0
	14	50.8	52.0	53.0	54.2	53.8	54.0	54.0	55.1	54.0	54.0	54.0	54.0	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	16	50.5	51.6	52.9	53.1	53.2	52.9	53.0	53.2	53.5	53.8	53.8	53.5	52.1
	17	50.0	51.3	53.4	53.0	53.3	53.1	53.1	53.2	53.2	53.2	53.2	53.0	53.3
	18	50.7	52.7	54.7	54.0	54.5	53.2	53.0	53.1	53.1	53.0	52.8	53.1	53.0
	19	51.8	53.5	54.2	55.1	55.1	54.1	53.9	54.1	54.0	52.5	53.6	53.5	53.4
	20	54.9	54.8	54.9	54.8	53.6	53.1	53.0	52.0	50.8	50.7	51.3	53.9	53.3
	21	53.0	52.5	54.0	54.5	53.8	53.0	52.1	53.0	53.0	52.1	52.6	52.9	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	52.7
	23	52.9	53.5	53.4	53.2	52.8	52.5	52.3	52.5	52.3	52.6	52.9	52.8	53.0
	24	50.8	52.1	53.3	53.9	54.5	53.3	53.4	53.9	53.1	53.6	53.9	53.1	54.0
	25	53.5	55.4	56.0	54.0	53.6	53.5	54.5	54.0	54.1	52.7	52.7	51.9	50.5
	26	52.2	54.7	54.8	53.9	51.1	50.7	50.8	49.0	44.2	48.0	47.7	49.0	51.6
	27	51.4	52.7	52.2	52.8	51.0	50.2	50.0	49.1	50.2	51.0	51.9	52.5	54.0
	28	52.2	53.9	54.2	52.0	50.7	50.0	49.0	51.2	52.0	52.4	52.7	53.0	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	30	52.7	54.9	53.0	51.5	48.7	46.0	49.2	50.0	50.0	48.9	50.9	51.0	52.0
Hourly Means	51.09	52.31	53.02	53.19	52.75	52.19	52.33	52.46	52.37	52.42	52.73	52.77	52.93	
OCTOBER.	1	50.0	52.6	53.5	52.1	48.6	46.2	47.7	48.7	44.6	47.3	49.7	48.5	50.0
	2	54.2	54.0	54.1	53.0	51.3	51.9	51.6	47.2	50.0	50.8	51.2	51.2	51.1
	3	50.5	52.7	53.8	52.2	51.8	50.9	52.0	51.9	51.7	51.1	51.7	51.9	52.0
	4	52.5	54.1	54.7	53.8	52.3	51.7	52.4	52.2	52.0	52.4	52.5	52.0	53.0
	5	51.1	53.8	55.5	54.5	53.0	52.0	52.0	52.2	51.8	51.0	51.0	51.1	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	52.1
	7	54.0	55.5	54.6	53.5	52.1	52.0	52.0	52.4	52.5	52.3	52.2	52.5	52.3
	8	53.3	54.9	54.0	53.0	51.7	51.1	51.9	52.1	52.1	51.5	51.9	51.9	51.9
	9	53.5	53.5	53.5	52.6	51.9	51.7	51.7	52.3	52.4	52.2	52.0	52.1	52.0
	10	54.3	55.0	54.8	54.0	52.0	51.5	52.3	52.7	52.5	52.5	53.0	53.0	52.9
	11	56.0	57.0	56.0	54.0	52.0	51.9	52.4	52.8	52.4	53.0	53.1	53.0	53.0
	12	52.5	55.3	56.5	55.1	52.9	51.8	52.3	52.6	53.3	53.5	53.7	53.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	53.5
	14	54.0	55.8	54.9	53.5	52.1	52.0	52.2	52.4	53.0	53.2	53.6	53.1	53.0
	15	55.9	57.3	56.5	54.9	53.3	52.9	52.9	53.3	53.0	53.5	53.9	53.6	53.4
	16	55.0	56.1	55.6	54.3	53.2	53.0	52.9	53.0	53.1	53.3	53.3	53.0	52.9
	17	55.8	55.0	54.1	54.0	53.0	52.2	52.0	52.0	52.2	52.2	52.0	51.9	52.0
	18	52.0	52.6	52.9	52.1	51.2	51.2	51.8	52.0	52.0	52.0	53.0	53.0	52.9
	19	53.8	53.3	53.7	52.6	51.5	52.0	52.4	52.6	52.9	52.5	52.6	52.0	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	21	51.0	52.0	50.1	48.0	47.5	47.0	47.3	48.1	49.4	50.1	50.9	51.0	50.5
	22	54.2	54.3	52.5	51.4	49.4	49.5	50.7	51.0	51.1	50.7	51.3	51.0	51.0
	23	52.9	53.9	53.0	52.0	50.6	50.1	51.1	51.1	51.5	52.0	51.1	51.0	51.0
	24	50.2	52.2	52.4	50.7	49.6	49.7	51.2	52.0	52.0	52.0	51.6	51.2	51.0
	25	53.0	53.2	54.0	51.0	50.0	50.0	50.9	51.9	52.3	50.3	50.8	50.2	50.0
	26	54.6	54.4	54.1	53.4	51.2	49.7	49.0	51.5	51.5	49.0	49.5	53.4	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	28	50.2	52.1	52.5	51.6	50.0	49.6	49.9	50.5	50.3	50.5	50.4	50.0	52.6
	29	50.0	52.2	53.5	53.5	50.7	50.1	50.4	51.0	50.0	51.0	50.9	51.5	50.8
	30	53.3	53.9	55.0	54.6	52.2	50.9	51.0	51.9	52.0	52.0	52.0	51.5	51.5
	31	50.9	54.2	55.2	52.9	51.9	51.0	51.0	51.3	51.5	52.5	52.0	51.9	51.9
Hourly Means	52.91	54.11	54.11	52.90	51.37	50.87	51.30	51.58	51.60	51.64	51.89	51.86	51.90	

DECLINATION.												
Zero Scale Division = 50, corresponding to 29° 07'·6 West.												
Mean Göttingen Time.	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.
Aug. 31	—	—	—	—	—	—	—	—	—	—	—	51·75
1	52·0	52·1	52·6	53·0	53·0	55·3	55·6	52·8	50·0	48·0	48·0	52·41
2	52·0	52·1	52·3	53·0	53·8	55·1	56·1	54·5	52·3	50·1	49·0	52·40
3	53·1	53·0	53·0	53·0	53·0	55·8	55·8	53·9	51·7	49·9	49·5	52·45
4	52·6	53·0	52·9	54·0	54·2	55·0	54·2	51·9	48·9	47·0	46·9	51·94
5	52·5	52·3	52·6	52·9	53·1	55·2	55·9	52·3	48·5	46·0	46·1	51·59
6	52·7	52·2	52·4	52·3	52·9	55·0	56·2	55·0	51·2	49·0	49·1	52·06
7	—	—	—	—	—	—	—	—	—	—	—	53·18
8	52·8	53·3	55·3	53·9	54·8	57·0	57·8	56·0	53·8	51·1	51·1	52·93
9	54·1	53·5	54·0	53·9	53·9	55·4	55·7	53·2	51·2	50·0	50·3	52·94
10	53·9	53·9	54·0	54·0	54·1	56·0	55·6	52·1	49·8	47·2	48·0	52·94
11	53·7	53·7	54·0	54·1	54·6	56·6	56·7	52·2	49·1	47·5	48·8	53·14
12	54·0	54·0	54·4	54·5	54·6	57·0	56·3	53·6	50·0	49·0	50·2	52·93
13	54·2	53·9	54·0	54·1	53·4	54·6	55·0	51·4	48·9	48·8	48·8	53·15
14	—	—	—	—	—	—	—	—	—	—	—	52·38
15	53·1	53·0	53·0	53·6	54·1	55·9	55·9	53·1	49·4	48·5	50·0	52·66
16	52·5	51·7	52·1	53·0	53·4	55·0	54·9	51·2	48·9	47·8	49·5	52·72
17	53·7	53·4	54·2	53·0	54·5	56·2	55·9	52·0	48·9	47·0	48·6	53·13
18	53·0	53·2	53·0	53·1	53·3	55·5	54·2	51·5	49·2	48·2	50·1	52·83
19	53·3	52·5	52·2	52·7	52·9	53·5	52·9	51·7	50·5	51·1	52·9	52·69
20	52·5	53·2	53·6	54·0	53·9	53·7	52·2	50·3	50·6	51·3	51·5	52·10
21	—	—	—	—	—	—	—	—	—	—	—	52·89
22	53·0	53·0	53·0	52·4	53·3	55·0	52·4	50·7	50·2	50·2	52·2	52·25
23	52·8	52·6	52·6	52·6	52·4	53·5	52·0	50·0	48·0	47·7	49·4	51·04
24	53·9	53·8	54·4	54·8	54·1	53·6	52·8	50·2	49·0	48·9	51·0	51·30
25	50·0	53·4	52·3	51·3	51·2	51·2	49·5	49·8	49·8	48·9	50·1	51·42
26	52·0	52·5	52·0	51·9	52·2	53·2	53·4	53·0	50·0	47·7	49·3	51·37
27	53·5	53·5	53·9	52·7	54·2	53·1	51·2	49·0	46·9	46·0	48·1	51·63
28	—	—	—	—	—	—	—	—	—	—	—	51·63
29	51·5	50·7	51·4	51·9	51·8	53·4	52·0	49·0	48·0	48·7	49·1	51·63
30	53·0	55·0	54·5	54·3	55·5	57·0	52·2	49·9	48·6	47·5	46·6	51·63
Hourly Means	52·90	53·02	53·22	53·23	53·55	54·92	54·32	51·93	49·75	48·58	49·39	51·63
1	50·5	51·2	51·3	51·0	50·8	50·6	50·7	50·3	50·0	50·3	51·1	49·89
2	52·8	52·0	52·0	53·0	51·5	51·6	49·8	48·0	47·0	46·5	48·3	51·00
3	51·9	51·5	51·7	51·7	52·3	54·8	55·2	52·8	50·9	50·3	50·3	51·98
4	52·9	53·0	51·8	52·0	52·8	54·7	55·4	51·6	48·7	47·8	49·1	52·31
5	—	—	—	—	—	—	—	—	—	—	—	51·78
6	52·1	52·1	52·6	52·6	52·7	54·0	52·1	49·0	46·8	47·2	50·5	52·37
7	51·9	51·3	53·9	52·5	54·0	53·0	51·0	48·1	48·0	48·9	50·9	52·12
8	52·0	51·9	53·0	52·9	52·2	51·5	50·1	48·9	48·9	50·0	52·7	51·55
9	51·9	51·7	51·3	51·4	51·2	49·9	48·0	47·8	49·1	50·7	52·9	51·94
10	52·6	52·3	51·9	51·5	51·9	51·1	48·7	45·6	46·4	50·0	54·0	52·23
11	53·0	53·0	52·7	53·0	53·3	53·7	51·0	47·0	45·5	45·8	48·9	52·35
12	—	—	—	—	—	—	—	—	—	—	—	52·04
13	53·0	53·6	53·4	52·9	51·8	51·3	49·0	47·1	46·9	49·0	51·6	52·50
14	53·1	53·5	53·0	52·0	51·3	50·9	49·6	47·0	46·5	47·7	51·6	52·68
15	52·8	52·6	52·7	52·4	52·0	50·0	47·3	45·8	45·9	50·4	53·6	51·19
16	52·7	53·3	52·2	51·9	52·0	51·9	50·3	48·0	48·0	50·9	54·3	51·45
17	51·9	51·8	51·0	50·9	50·9	49·4	47·5	45·3	45·0	47·1	49·3	50·17
18	52·4	52·0	51·7	51·5	50·8	50·0	49·5	48·1	48·0	49·1	53·0	49·23
19	—	—	—	—	—	—	—	—	—	—	—	50·09
20	50·4	48·3	47·4	43·4	44·2	41·0	47·5	48·0	48·1	50·4	52·4	49·77
21	50·0	49·6	49·8	50·5	49·0	47·2	45·0	46·0	47·2	51·0	53·2	49·73
22	50·8	50·4	51·0	50·1	49·0	47·9	45·3	43·7	46·0	49·0	50·8	50·50
23	51·2	50·8	49·8	49·3	49·0	48·0	46·0	44·0	43·4	44·8	46·8	49·90
24	50·9	50·4	50·4	50·3	49·0	47·8	44·9	42·9	43·5	47·8	49·9	49·36
25	51·9	50·0	49·9	49·0	50·0	46·1	46·1	47·0	48·5	51·3	54·5	50·10
26	—	—	—	—	—	—	—	—	—	—	—	50·45
27	50·1	49·0	49·5	50·2	48·7	47·2	45·5	44·8	44·0	46·2	49·0	50·55
28	51·4	50·0	49·4	50·0	50·4	49·0	46·9	44·1	43·0	43·5	46·8	50·10
29	50·9	50·2	50·9	51·7	50·9	50·0	46·0	44·0	45·1	48·2	48·9	50·45
30	52·0	51·7	51·7	50·8	50·4	48·6	46·4	43·0	42·5	44·7	47·3	50·55
31	51·0	51·0	51·0	51·0	51·1	49·7	47·5	45·7	45·0	45·8	46·1	50·55
Hourly Means	51·78	51·41	51·37	51·09	50·86	50·03	48·60	46·80	46·59	48·51	50·66	50·15

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
NOVEMBER.	1	50.0	52.9	53.2	53.3	51.3	51.0	50.0	50.0	51.9	51.6	51.4	51.9	
	2	50.1	53.2	53.5	52.8	52.2	51.0	50.7	51.2	51.7	51.6	50.5	53.0	
	3	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	4	53.0	54.5	53.2	52.9	49.8	50.0	51.4	50.9	51.5	50.2	51.5	52.0	51.5
	5	50.6	51.0	51.1	50.3	50.1	50.9	51.7	52.4	51.9	52.0	51.9	52.0	51.4
	6	50.7	52.7	53.0	52.4	52.0	50.8	50.2	52.0	52.0	52.0	52.2	52.3	52.2
	7	57.0	56.5	54.9	53.1	52.2	52.1	52.3	51.9	51.5	52.4	52.3	52.1	52.4
	8	55.1	55.7	55.1	53.0	51.9	51.0	51.8	52.5	53.0	52.9	52.9	52.9	52.8
	9	53.0	53.2	52.5	51.0	50.2	50.6	52.1	53.2	53.2	53.2	54.0	53.1	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	53.7
	11	53.5	54.6	54.5	52.3	51.8	50.9	51.0	50.5	50.0	48.7	48.4	48.8	49.5
	12	50.0	52.5	53.1	53.0	52.2	50.0	50.0	51.4	51.0	52.6	51.9	51.6	51.0
	13	49.0	51.5	52.9	53.0	52.2	50.9	51.0	51.7	51.0	51.4	51.4	50.9	51.0
	14	53.0	54.2	54.0	53.1	51.6	50.7	50.7	51.5	51.0	51.0	51.0	51.0	50.9
	15	50.1	51.6	52.1	52.7	52.5	51.7	51.2	51.2	51.6	52.0	52.2	52.3	52.1
	16	49.0	54.0	53.0	55.0	53.8	51.7	50.7	47.0	44.8	43.3	47.2	48.5	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	18	49.8	50.5	51.1	52.1	52.2	52.1	51.6	51.2	51.0	49.9	50.0	50.0	50.0
	19	54.0	54.0	53.0	52.2	51.0	51.0	51.0	51.0	52.0	51.1	51.4	51.1	50.6
	20	49.4	51.8	51.5	51.1	50.5	50.0	50.5	51.5	51.9	51.0	51.0	51.2	51.0
	21	54.0	54.3	54.0	52.0	51.1	50.7	50.9	51.5	51.9	52.0	52.0	52.0	51.5
	22	54.1	52.8	52.2	52.4	50.5	51.7	50.9	44.4	45.3	49.3	50.2	50.2	50.2
	23	48.6	48.5	49.3	49.0	48.5	49.0	49.1	47.5	50.3	50.4	50.1	51.0	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	25	52.1	53.0	52.6	52.9	52.2	51.1	51.0	51.3	52.3	52.3	51.8	51.8	52.1
	26	50.8	52.4	52.9	52.5	51.6	51.6	51.7	52.0	52.4	52.2	52.4	52.3	52.4
	27	48.9	52.2	53.6	53.9	53.3	53.0	52.4	53.2	54.1	54.5	54.8	53.0	52.0
	28	53.0	55.0	56.1	54.2	53.2	53.8	54.0	53.6	53.1	53.4	53.3	53.0	52.2
	29	51.9	54.0	55.0	54.1	52.5	51.6	51.2	52.0	52.0	51.7	51.8	51.0	51.2
Hourly Means	51.63	53.06	53.10	52.57	51.62	51.16	51.16	51.06	51.22	51.32	51.51	51.54	51.46	
DECEMBER.	Nov. 30	50.0	51.7	52.9	53.1	53.1	52.6	51.8	52.0	52.2	52.2	52.7	53.0	—
	1	—	—	—	—	—	—	—	—	—	—	—	—	52.6
	2	51.0	52.7	53.1	53.0	52.0	50.5	51.0	53.0	53.5	52.9	53.0	52.5	52.3
	3	50.1	51.0	51.6	51.1	51.1	51.1	51.5	52.2	52.5	52.6	52.2	52.7	51.9
	4	54.7	56.7	54.7	52.3	52.0	52.9	52.2	51.0	48.0	51.0	51.9	49.5	52.3
	5	54.0	53.4	53.0	51.9	51.0	51.3	52.6	52.6	52.7	52.0	52.8	52.3	52.2
	6	53.8	54.0	53.1	51.8	51.2	52.0	52.2	51.9	52.8	53.1	52.7	53.0	52.5
	7	55.0	54.2	52.5	50.9	50.3	50.8	52.0	53.0	53.0	53.0	53.0	52.6	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	52.6
	9	54.0	55.2	55.5	54.0	52.0	51.5	52.0	52.9	53.8	53.8	53.8	54.0	53.2
	10	53.0	52.7	52.4	51.5	50.8	50.5	51.9	53.0	53.5	53.8	53.4	53.0	52.3
	11	52.8	54.0	53.8	53.5	52.1	52.2	53.0	53.7	53.6	53.6	53.2	53.0	52.2
	12	55.2	56.0	55.2	53.1	51.9	51.8	51.9	52.1	53.3	53.0	53.0	52.7	52.5
	13	55.1	55.9	55.0	54.0	52.2	50.9	51.1	52.2	52.8	52.5	52.4	52.4	52.3
	14	52.8	54.9	54.6	52.0	52.2	53.3	51.6	49.0	47.2	51.0	52.2	53.5	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	16	50.7	51.0	51.1	51.4	51.1	50.9	50.3	50.5	51.5	49.9	50.9	51.6	51.8
	17	49.3	49.2	49.0	49.4	50.1	50.2	50.0	50.5	50.9	51.3	52.0	51.9	51.8
	18	49.4	50.2	50.0	49.0	49.5	50.9	51.2	51.2	51.3	51.9	52.0	50.7	48.8
	19	51.2	50.9	51.0	50.3	50.9	51.0	50.8	50.7	51.4	51.5	52.0	51.0	52.1
	20	53.9	54.1	52.8	53.5	49.5	49.8	50.9	52.4	52.0	48.8	51.1	51.0	51.1
	21	50.8	51.4	50.1	49.4	47.6	47.1	48.9	49.9	50.4	51.0	51.5	52.7	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	23	50.2	51.2	50.3	49.5	48.6	49.6	50.4	50.1	50.9	51.0	50.9	50.6	50.0
	24	53.1	53.9	52.7	50.8	49.2	48.7	49.0	50.0	50.9	51.1	50.7	50.4	50.7
	25	53.0	53.6	52.2	51.2	50.8	50.6	51.5	52.1	52.4	51.9	52.0	51.7	51.9
	26	54.7	55.0	53.2	51.7	50.9	50.9	51.1	52.0	50.2	50.0	51.2	51.9	52.2
	27	54.5	55.0	54.2	52.7	50.9	49.5	49.7	51.0	52.0	51.9	51.1	51.0	50.3
	28	53.2	53.6	51.8	50.5	50.0	48.7	48.0	50.0	50.2	50.7	50.8	51.0	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	45.4
	30	50.1	51.2	50.1	49.8	50.0	49.8	48.8	47.3	46.0	48.1	48.0	50.1	51.5
	31	50.2	52.2	53.2	50.1	48.8	47.4	47.0	48.0	49.0	50.4	50.0	51.5	51.0
Hourly Means	52.44	53.14	52.56	51.54	50.73	50.61	50.83	51.27	51.41	51.63	51.87	51.90	51.54	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
NOVEMBER.	1	51·0	51·0	52·0	52·2	50·0	48·8	46·5	44·9	43·6	44·1	47·2	49·99
	2	—	—	—	—	—	—	—	—	—	—	—	50·73
	3	51·3	51·0	51·5	50·1	50·8	49·7	48·0	46·0	46·0	48·6	50·9	50·58
	4	52·1	51·0	51·0	50·7	50·6	49·8	47·9	46·3	46·0	47·0	49·0	49·87
	5	52·0	52·1	51·4	51·5	49·3	48·0	44·5	43·6	43·6	45·6	47·9	50·71
	6	51·9	51·2	51·0	51·0	49·8	47·5	46·0	44·6	45·0	50·0	54·6	52·28
	7	52·0	51·5	52·2	51·0	50·3	48·6	46·0	48·1	52·9	55·4	56·0	50·93
	8	52·1	52·0	51·0	51·1	50·0	47·9	44·0	42·0	43·0	47·5	51·0	50·80
	9	—	—	—	—	—	—	—	—	—	—	—	48·37
	10	53·0	53·1	52·5	52·6	50·9	47·9	44·4	42·1	43·7	46·5	49·5	49·55
	11	48·2	48·7	49·2	48·3	46·4	45·0	44·0	40·3	39·5	41·2	45·6	50·20
	12	51·0	50·6	50·0	49·0	48·6	46·0	44·9	44·0	43·3	45·1	46·5	49·77
	13	50·0	50·0	49·6	49·8	49·0	47·1	46·1	45·8	48·1	50·0	51·5	49·96
	14	50·5	50·4	50·1	50·0	49·0	46·5	43·9	42·5	43·5	45·8	48·5	49·22
	15	52·9	52·9	52·0	50·0	49·1	47·4	43·3	41·5	42·5	46·1	48·0	50·48
	16	—	—	—	—	—	—	—	—	—	—	—	49·90
	17	50·5	50·2	50·0	49·4	48·2	46·8	47·0	46·9	47·2	48·0	49·1	49·84
	18	50·0	49·6	49·4	50·1	50·9	48·6	46·7	48·3	51·0	52·0	53·5	50·33
	19	50·9	50·1	49·7	49·0	47·4	45·3	45·1	45·0	46·4	47·2	48·0	47·92
	20	50·0	49·5	49·0	48·9	47·3	45·5	45·2	46·5	48·7	50·2	52·9	48·53
	21	51·0	50·7	51·4	50·0	48·0	45·6	43·8	43·6	45·1	47·1	53·7	50·38
	22	48·0	46·1	47·0	46·0	44·0	43·0	44·4	42·5	42·5	45·2	47·2	50·27
	23	—	—	—	—	—	—	—	—	—	—	—	50·97
	24	50·0	50·0	49·0	49·0	49·0	47·0	45·0	43·5	44·0	46·3	49·6	51·52
	25	51·9	51·3	50·5	50·4	50·0	48·0	45·9	45·0	44·7	46·0	48·9	50·65
	26	52·0	51·6	51·1	51·0	50·5	49·5	47·0	43·4	42·4	43·8	46·9	50·18
	27	53·0	50·9	51·0	50·1	49·0	49·0	46·2	46·0	45·0	46·2	48·0	51·33
	28	51·8	51·6	51·5	50·5	49·0	48·2	48·1	45·8	46·1	47·2	48·7	50·77
	29	51·0	51·2	50·9	50·1	49·0	47·7	46·9	46·0	46·3	47·5	48·9	50·97
Hourly Means	51·12	50·73	50·56	50·07	49·04	47·38	45·63	44·57	45·20	47·18	49·66		
DECEMBER.	Nov. 30	—	—	—	—	—	—	—	—	—	—	—	51·33
	1	52·7	52·8	52·2	53·0	52·7	50·1	48·2	47·0	46·0	48·3	49·2	50·50
	2	52·2	52·3	51·2	50·5	49·5	47·0	44·5	42·0	44·1	48·1	50·1	50·25
	3	52·0	52·1	51·9	51·2	49·7	48·0	45·5	43·5	43·8	46·5	50·3	50·77
	4	52·0	52·0	51·0	50·1	47·1	46·8	44·9	44·1	46·1	51·1	54·0	50·73
	5	52·2	52·1	51·8	51·1	49·2	46·4	43·7	43·0	45·0	49·1	52·2	50·84
	6	52·0	52·0	51·5	50·8	49·0	45·5	43·6	43·2	44·7	49·9	53·9	51·23
	7	—	—	—	—	—	—	—	—	—	—	—	51·25
	8	52·3	52·3	52·0	51·6	50·0	47·8	46·8	45·9	46·2	49·8	52·0	50·70
	9	52·0	52·0	50·4	50·1	48·3	46·0	44·4	45·3	46·9	48·5	50·5	51·90
	10	52·3	51·6	50·9	50·0	48·1	45·5	45·1	46·0	46·5	47·3	51·6	51·13
	11	52·0	51·2	50·1	49·9	48·7	46·5	46·9	48·6	51·2	54·7	55·0	51·40
	12	52·0	51·7	50·8	50·2	48·0	45·0	44·0	44·1	46·8	50·1	52·8	50·34
	13	52·0	51·9	51·2	51·0	50·1	48·0	47·0	47·0	46·9	48·7	50·9	50·13
	14	—	—	—	—	—	—	—	—	—	—	—	49·68
	15	52·0	52·3	51·9	51·2	50·0	48·0	45·9	44·0	43·5	45·0	48·0	49·20
	16	52·7	52·0	50·9	49·9	49·0	47·0	45·9	45·7	47·6	49·6	50·1	50·39
	17	51·2	51·2	50·9	50·1	50·1	47·9	46·9	46·2	46·7	47·6	48·0	50·26
	18	48·8	49·0	48·1	47·0	46·5	46·9	45·7	45·1	46·7	49·8	51·0	49·71
	19	51·1	50·6	50·0	49·0	47·8	44·8	44·7	47·5	51·3	53·9	53·9	48·89
	20	52·1	51·8	48·9	48·3	47·0	45·0	46·0	46·8	48·5	50·2	50·8	49·26
	21	—	—	—	—	—	—	—	—	—	—	—	50·32
	22	51·6	51·0	50·5	49·9	49·2	47·2	46·8	47·1	47·9	49·0	49·8	50·42
	23	50·3	49·5	49·9	48·7	48·0	45·2	43·2	42·5	44·7	47·2	50·8	50·29
	24	50·5	49·5	48·8	48·2	48·0	46·1	44·2	44·3	44·8	46·0	50·6	48·86
	25	51·4	51·6	50·7	50·9	49·2	47·1	45·7	44·6	44·2	46·3	51·1	48·10
	26	52·0	52·0	51·0	50·9	49·0	47·1	45·2	45·8	44·9	46·5	50·7	48·88
	27	52·0	52·3	51·9	50·8	49·6	48·7	45·1	43·9	43·9	45·0	50·0	
	28	—	—	—	—	—	—	—	—	—	—	—	
	29	47·6	48·2	52·0	48·5	47·3	45·8	44·0	44·0	45·0	47·4	49·0	
	30	50·9	50·1	50·0	49·0	47·9	46·1	43·9	41·1	40·0	44·8	49·9	
31	50·8	50·8	50·0	50·2	49·2	49·1	48·0	45·5	42·3	42·0	46·5		
Hourly Means	51·51	51·32	50·76	50·08	48·82	46·84	45·40	44·96	45·79	48·24	50·84		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
JANUARY.	1	49.0	50.5	50.9	51.8	50.0	49.8	48.4	48.8	49.6	50.0	49.9	50.0	50.0
	2	49.1	49.8	49.7	49.3	48.6	48.0	47.9	49.0	50.0	50.0	50.0	50.0	50.2
	3	49.2	51.7	52.0	52.1	52.9	50.9	49.2	50.0	50.1	50.3	50.5	50.0	50.0
	4	49.0	49.9	50.8	50.9	50.5	49.9	49.2	49.2	49.4	49.9	49.3	49.4	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	49.9
	6	48.9	49.5	49.1	52.2	54.2	53.3	51.1	51.0	51.3	51.1	51.0	50.8	50.3
	7	49.1	50.3	51.1	52.9	54.0	53.2	52.2	52.0	52.0	51.9	52.0	51.0	51.1
	8	49.4	51.0	51.3	51.0	51.5	51.5	50.9	51.9	52.2	52.0	51.5	51.0	50.0
	9	51.4	53.4	54.7	54.0	55.0	54.4	53.7	54.4	53.0	49.5	45.9	47.0	43.3
	10	46.1	48.6	47.7	46.5	48.3	49.5	49.2	50.0	50.2	50.1	50.4	50.3	49.9
	11	53.0	52.9	52.2	51.2	51.9	51.2	50.7	51.0	51.5	51.4	51.3	51.3	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	13	54.2	55.8	54.6	54.0	53.3	52.7	52.0	52.0	52.7	52.1	51.9	51.9	51.1
	14	48.0	51.8	53.0	53.1	53.9	53.9	52.5	52.0	53.0	52.2	52.0	51.2	50.9
	15	55.0	56.2	55.9	55.1	54.1	54.1	53.0	52.3	52.0	52.2	52.0	51.0	50.9
	16	46.7	50.3	51.2	51.0	50.0	49.5	49.7	50.1	51.0	51.0	51.3	51.1	50.6
	17	46.1	50.1	52.5	53.6	53.4	52.3	51.0	52.3	52.8	51.7	52.0	51.9	51.6
	18	45.9	47.9	50.2	51.0	51.1	51.2	50.2	50.9	51.6	51.5	51.0	51.0	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	51.1
	20	49.6	51.0	51.9	51.1	50.3	50.1	50.1	50.5	50.5	50.0	49.0	50.2	50.0
	21	53.8	57.1	57.1	53.4	50.5	49.2	48.3	49.5	49.7	49.9	50.0	49.0	49.0
	22	52.9	56.7	57.4	55.1	52.8	50.5	50.1	50.8	50.8	49.5	49.7	50.0	48.9
	23	57.8	58.8	59.2	55.0	51.8	49.3	50.0	51.5	50.9	48.3	50.0	50.1	50.0
	24	49.9	52.2	52.8	51.9	50.7	49.2	46.5	47.0	48.2	49.5	50.0	50.0	49.0
	25	46.3	48.5	50.9	52.5	51.6	49.5	47.1	48.9	50.2	49.1	50.1	50.0	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	51.2
	27	50.5	54.6	56.8	55.9	53.0	51.8	50.7	50.3	51.0	50.5	50.1	51.0	50.2
	28	46.6	53.4	56.9	58.2	55.2	52.5	50.9	50.9	50.3	47.6	46.5	46.3	47.6
	29	51.9	55.0	55.6	53.3	51.3	51.0	47.0	47.7	49.2	48.6	49.0	50.0	49.3
	30	45.9	50.2	53.0	53.5	52.0	50.2	48.0	49.0	46.2	50.2	50.0	50.1	50.0
	31	49.4	51.0	51.7	50.9	50.5	49.2	49.8	50.1	50.0	50.1	50.4	51.0	50.2
Hourly Means	49.80	52.16	52.97	52.61	51.94	51.03	49.98	50.49	50.72	50.38	50.25	50.24	49.86	
FEBRUARY.	1	48.3	54.0	55.0	54.1	54.1	53.0	51.3	51.0	51.8	51.9	51.2	51.1	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	3	51.0	53.6	55.1	56.1	56.1	54.5	52.4	52.2	52.2	52.0	51.6	51.7	50.9
	4	50.0	52.2	52.6	53.2	52.2	51.3	51.5	51.9	52.3	51.8	51.8	51.7	51.0
	5	55.1	57.2	58.4	57.4	57.2	55.7	54.2	53.2	53.7	53.2	53.2	53.0	52.0
	6	50.0	51.2	51.2	51.9	50.9	50.9	51.0	51.2	51.5	51.5	51.0	51.0	51.0
	7	54.0	56.3	55.9	55.1	54.0	52.1	51.6	52.4	52.3	52.1	50.9	51.2	51.8
	8	45.0	51.5	55.1	54.0	53.1	51.9	50.8	51.2	51.8	51.8	51.7	51.6	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	51.6
	10	49.2	53.2	54.0	52.0	51.4	51.0	50.7	51.3	51.6	51.3	51.0	51.0	51.2
	11	48.3	54.1	57.3	57.5	56.0	54.5	53.1	53.0	53.2	53.2	53.0	53.0	52.5
	12	48.0	53.2	55.9	56.7	56.0	54.2	53.5	53.3	53.4	53.2	53.2	53.2	53.2
	13	51.5	58.6	60.5	59.5	57.5	55.5	54.0	53.5	53.3	53.1	53.0	53.0	53.0
	14	51.1	54.6	57.3	57.2	56.1	54.1	53.5	53.0	53.0	53.0	53.0	52.8	52.5
	15	54.4	56.6	56.9	55.7	54.1	53.0	52.3	52.4	52.7	53.0	53.0	53.0	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	52.8
	17	53.1	56.0	57.5	56.2	54.5	52.0	50.0	51.9	52.1	52.0	52.0	51.9	51.9
	18	48.2	52.9	54.5	54.0	52.9	52.0	52.0	52.6	52.9	52.9	52.9	52.4	52.0
	19	53.0	54.3	55.2	55.0	54.3	53.2	52.6	52.9	53.0	53.1	53.0	52.6	52.0
	20	52.0	55.7	55.1	54.9	54.0	52.9	52.6	52.5	52.3	52.2	51.0	50.0	49.9
	21	51.2	53.0	53.3	52.3	52.7	51.0	49.8	47.5	49.7	48.0	50.9	50.0	49.5
	22	52.4	54.9	55.9	54.0	52.0	49.2	50.4	50.3	50.3	50.4	50.0	50.9	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	51.1
	24	52.0	56.7	56.9	55.9	53.6	52.5	53.1	51.1	49.1	49.6	54.2	49.8	50.3
	25	51.9	55.1	56.9	54.6	53.0	52.0	48.9	49.0	49.8	51.0	50.1	52.5	54.3
	26	51.3	52.0	53.9	53.1	50.1	51.0	50.2	50.2	51.0	51.0	51.2	50.5	52.9
	27	51.1	53.1	54.1	53.1	53.0	52.4	51.4	50.7	50.0	49.0	50.5	51.1	50.9
	28	51.9	52.1	52.8	52.2	52.0	50.9	49.7	50.2	49.4	51.0	48.2	49.9	50.9
Hourly Means	51.00	54.25	55.47	54.82	53.78	52.53	51.69	51.60	51.77	51.72	51.73	51.62	51.68	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JANUARY.	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	49·9	49·0	48·9	48·3	49·0	48·2	46·8	45·2	42·8	44·8	47·5	48·75
	2	51·0	50·4	50·0	50·0	49·6	50·4	49·7	48·0	45·6	46·0	47·3	49·15
	3	49·8	49·9	50·0	49·0	48·4	48·5	48·8	48·0	46·9	46·0	46·1	49·60
	4	—	—	—	—	—	—	—	—	—	—	—	49·30
	5	49·5	49·3	49·0	49·0	48·0	47·7	49·0	50·9	49·3	47·2	46·9	50·14
	6	50·2	50·0	49·2	49·3	49·0	48·7	48·8	50·0	49·5	48·0	46·9	49·83
	7	50·8	49·5	49·3	49·0	48·5	47·4	46·1	45·4	44·2	45·4	47·5	48·92
	8	49·2	49·0	48·5	47·9	47·2	45·7	43·1	41·8	41·6	44·8	50·0	47·45
	9	42·8	42·3	43·2	47·2	43·9	41·7	38·9	38·1	42·3	44·3	44·3	47·74
	10	48·7	48·0	48·0	46·2	45·6	45·6	44·7	43·1	42·9	45·4	50·7	50·16
	11	—	—	—	—	—	—	—	—	—	—	—	50·73
	12	50·2	50·0	50·2	49·8	49·9	49·7	48·3	46·1	43·3	45·9	50·9	50·85
	13	51·0	50·9	50·4	50·0	50·0	50·4	49·0	46·0	43·5	43·0	45·0	50·10
	14	51·0	50·4	50·4	50·0	50·0	49·5	48·5	45·7	45·7	48·8	52·8	49·02
	15	51·0	50·4	49·5	49·2	48·9	48·2	45·2	43·0	41·2	39·7	42·3	50·03
	16	50·6	50·0	50·0	49·8	50·0	49·1	47·1	46·2	44·0	43·0	43·2	48·19
	17	51·0	50·4	50·2	50·0	50·0	50·0	48·8	46·5	44·6	43·9	44·1	49·13
	18	—	—	—	—	—	—	—	—	—	—	—	48·95
	19	46·1	44·0	47·1	44·0	45·3	47·6	47·4	45·0	42·2	45·4	47·8	50·92
	20	50·0	49·7	49·1	48·0	47·3	48·2	48·0	45·5	44·9	45·9	48·2	49·98
	21	48·8	48·3	47·8	47·5	47·9	47·8	46·1	42·9	41·5	42·3	47·5	48·98
	22	50·9	51·3	51·0	50·3	49·2	49·9	48·1	46·9	47·0	49·0	53·2	49·28
	23	49·0	50·9	49·9	50·0	49·2	49·9	47·2	43·9	41·6	41·0	44·3	49·68
	24	48·0	49·0	49·8	50·0	50·4	49·2	48·8	47·8	44·2	45·3	46·0	50·08
	25	—	—	—	—	—	—	—	—	—	—	—	49·07
	26	50·6	50·0	50·4	50·3	50·4	50·9	50·1	47·8	44·3	45·0	47·1	49·09
	27	50·1	49·8	49·9	50·0	50·4	50·0	48·8	45·3	40·6	39·6	41·5	48·88
	28	48·7	49·6	50·6	49·8	50·0	50·2	50·4	49·0	46·9	44·9	49·0	49·77
	29	49·3	49·3	50·0	49·5	49·2	49·2	48·3	46·4	43·2	41·8	42·6	49·07
	30	50·0	50·0	50·0	50·0	50·3	50·0	49·2	47·2	44·2	43·2	45·8	49·09
31	50·2	49·7	49·1	48·7	48·7	48·7	47·6	45·8	43·6	42·8	44·0	48·88	
Hourly Means	49·57	49·33	49·31	48·99	48·75	48·61	47·51	45·83	44·13	44·53	46·76		
FEBRUARY.	1	—	—	—	—	—	—	—	—	—	—	50·83	
	2	51·0	50·8	50·0	50·0	50·9	50·4	48·8	47·6	46·2	46·7	49·6	
	3	50·5	49·8	49·0	49·0	49·8	49·5	48·8	47·8	46·2	45·3	47·1	
	4	50·4	50·0	49·2	49·6	50·0	49·9	48·1	45·6	45·0	47·4	51·2	
	5	49·1	48·0	48·1	48·6	48·0	47·0	47·9	45·1	43·5	44·9	47·0	
	6	50·5	50·4	50·0	49·9	49·9	50·0	47·8	44·8	43·8	48·0	50·8	
	7	51·0	50·7	50·0	49·5	49·3	49·8	48·0	44·2	40·0	38·6	39·0	
	8	—	—	—	—	—	—	—	—	—	—	—	
	9	50·1	49·0	49·0	49·0	49·0	51·0	50·7	47·0	43·1	41·7	44·0	
	10	51·0	50·8	50·9	50·9	51·2	51·1	48·0	42·6	39·0	38·2	42·2	
	11	52·1	52·0	52·0	51·7	51·4	51·2	50·2	46·5	42·8	42·0	48·7	
	12	52·4	52·0	54·0	52·6	52·0	52·9	50·5	47·9	45·0	43·6	45·3	
	13	53·1	54·0	53·2	53·0	53·0	52·7	50·3	47·2	45·7	46·5	49·0	
	14	52·1	51·9	51·9	51·6	52·0	52·8	50·1	46·3	42·9	44·2	50·8	
	15	—	—	—	—	—	—	—	—	—	—	—	
	16	52·2	52·0	51·9	52·0	51·9	50·4	47·7	45·0	43·5	44·2	48·2	
	17	51·9	51·8	51·5	51·5	51·4	49·9	46·9	42·8	38·3	38·6	43·1	
	18	51·4	51·3	50·9	51·0	50·8	50·0	48·1	44·9	44·0	47·6	50·5	
	19	52·0	51·8	51·4	51·0	51·0	50·0	47·5	44·8	41·4	41·1	46·9	
	20	50·1	50·1	51·0	52·0	52·3	50·6	47·0	45·9	45·1	46·0	48·0	
	21	52·0	51·0	50·0	50·1	51·2	49·7	47·7	44·7	43·4	45·2	49·6	
	22	—	—	—	—	—	—	—	—	—	—	—	
	23	50·0	50·6	52·6	52·5	53·0	51·6	48·8	46·1	43·5	45·3	48·6	
	24	52·2	50·0	50·4	50·0	51·1	51·6	51·0	46·2	45·3	46·2	48·9	
	25	52·8	53·1	55·0	53·0	51·9	52·0	48·8	47·2	44·2	45·7	48·5	
	26	52·6	52·3	53·0	51·5	50·4	50·0	48·0	45·2	43·4	46·1	49·1	
	27	51·3	53·9	51·9	52·0	50·9	50·0	47·5	44·3	44·0	46·8	49·1	
	28	50·9	52·1	50·7	50·9	50·5	49·9	48·2	44·4	42·7	45·0	48·0	
Hourly Means	51·36	51·23	51·15	50·95	50·95	50·58	48·60	45·59	43·42	44·37	47·63		

DECLINATION.														
Angular Value of One Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
MARCH.	1	50.2	52.4	53.0	53.7	52.7	51.5	51.0	51.0	51.0	51.0	51.0	51.0	
	2	—	—	—	—	—	—	—	—	—	—	—	51.3	
	3	51.5	52.5	53.0	53.0	52.0	52.0	51.9	51.6	51.5	50.7	51.0	51.0	51.0
	4	51.4	52.4	53.2	52.9	51.7	50.2	50.1	51.0	51.1	51.2	51.0	50.9	50.3
	5	49.0	48.9	50.3	51.7	51.5	50.4	49.8	50.0	50.2	50.4	50.3	49.5	49.3
	6	49.2	51.0	52.2	52.9	51.8	50.3	50.0	50.0	50.6	50.9	51.0	51.0	50.9
	7	53.5	55.2	54.5	53.8	52.1	50.5	50.0	50.0	49.8	50.3	50.2	50.0	50.0
	8	51.9	53.8	54.8	53.8	51.9	50.5	50.5	50.7	51.0	51.1	51.2	51.2	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	49.4
	10	47.5	49.0	49.0	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	11	50.2	52.0	53.3	53.5	52.0	50.7	50.0	49.3	50.1	50.0	49.0	49.7	50.0
	12	49.8	52.8	54.8	55.8	54.3	52.2	51.3	52.7	51.6	51.4	51.2	51.1	51.2
	13	51.0	53.2	54.2	54.0	52.7	51.0	50.7	50.5	51.0	51.1	51.0	51.0	51.0
	14	51.9	52.8	53.7	53.5	52.3	50.7	49.2	47.2	48.5	48.0	48.0	49.9	48.2
	15	49.8	52.9	53.8	53.6	52.2	50.2	48.0	49.0	48.0	49.0	50.0	51.0	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	50.4
	17	49.5	50.3	50.9	50.3	49.9	49.0	49.3	49.9	49.6	49.9	50.0	48.8	50.0
	18	50.1	50.9	51.5	51.2	51.0	50.0	50.0	50.9	50.8	50.9	49.9	50.0	50.0
	19	51.8	53.0	53.4	52.9	52.0	50.5	48.9	47.1	48.0	49.2	48.5	51.1	49.2
	20	53.1	53.0	53.1	53.2	53.1	51.2	50.8	49.3	49.7	50.1	50.2	50.1	— ^a
	21	—	—	—	—	—	—	—	—	—	—	—	—	48.3
	22	51.9	51.8	51.8	50.8	50.2	50.1	50.0	50.0	50.9	51.0	50.9	51.0	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	24	51.9	51.9	52.0	51.0	48.8	47.5	46.3	47.0	47.7	47.1	49.2	48.9	50.0
	25	49.1	51.7	52.0	51.0	49.9	47.9	48.5	49.4	49.6	49.8	50.0	50.0	50.0
	26	49.7	51.7	52.0	52.0	51.0	48.2	47.0	46.1	48.0	49.1	50.4	50.4	50.5
	27	48.0	51.0	50.9	50.2	49.6	46.8	48.1	47.1	47.0	49.2	48.0	49.2	48.1
	28	50.8	52.4	51.9	50.5	49.7	49.0	49.4	49.5	50.0	50.0	47.6	49.9	49.5
	29	49.9	52.9	53.3	51.8	51.0	50.7	49.8	49.5	49.5	49.4	49.7	49.4	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	31	51.4	52.8	53.0	52.8	52.2	51.3	50.9	51.0	51.2	51.2	51.0	51.0	51.0
Hourly Means	50.56	52.09	52.62	52.38	51.42	50.10	49.66	49.59	49.86	50.08	50.02	50.28	49.98	
APRIL.	1	50.0	51.3	52.0	52.0	51.6	51.3	51.0	50.8	50.2	50.1	50.7	50.5	50.3
	2	51.4	53.7	53.9	52.4	51.3	51.0	50.6	50.9	50.5	51.0	51.0	50.9	50.5
	3	52.0	54.6	54.2	52.7	52.1	51.7	51.0	51.0	50.1	50.0	50.0	50.0	50.5
	4	52.6	54.3	52.5	50.5	50.8	51.5	50.9	51.0	51.0	50.5	50.9	50.3	50.7
	5	54.5	55.4	52.9	50.9	50.3	51.0	50.9	51.0	51.2	51.2	51.1	51.0	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	50.9
	7	53.3	55.2	55.9	54.1	52.1	52.0	51.3	51.0	51.0	51.4	51.5	51.4	51.3
	8	53.0	55.0	55.0	53.4	51.6	51.4	51.3	51.3	51.7	51.9	51.8	51.0	51.2
	9	50.8	53.0	53.7	52.5	50.7	50.3	50.2	50.8	50.6	51.2	51.0	51.0	51.5
	10	51.8	53.9	53.4	52.2	51.0	50.7	50.6	51.0	51.0	51.0	51.0	50.5	50.8
	11	52.1	54.1	54.0	52.8	51.4	51.5	51.2	51.0	51.2	51.1	51.0	51.0	51.0
	12	53.0	55.8	55.4	53.9	52.0	51.5	51.2	51.5	51.9	51.0	51.6	51.4	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	45.8
	14	48.5	49.3	48.9	47.0	45.4	47.4	47.0	46.8	47.2	47.2	47.6	50.0	50.0
	15	50.4	50.3	50.0	48.6	48.0	48.0	48.0	48.3	48.7	48.0	48.4	49.0	49.0
	16	48.2	49.5	49.0	49.0	49.0	49.0	49.0	49.0	49.2	49.1	49.5	49.0	49.4
	17	49.1	50.2	51.0	50.0	49.1	49.2	49.8	50.0	49.7	49.4	50.0	50.1	50.2
	18	50.0	51.4	51.5	51.4	50.2	50.6	50.1	50.0	50.0	48.2	48.0	49.5	49.2
	19	51.7	53.0	52.5	51.4	50.5	50.1	48.4	50.0	49.3	49.7	49.0	48.9	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	49.0
	21	46.1	48.9	49.2	50.0	50.0	49.8	49.2	49.6	49.7	48.7	50.0	49.9	51.0
	22	50.2	52.2	51.5	50.6	49.8	49.6	49.3	49.9	49.8	49.7	49.9	50.4	50.7
	23	50.9	51.6	50.8	50.2	49.8	49.1	49.4	49.8	50.2	50.0	50.1	50.0	50.3
	24	52.9	53.5	53.3	51.0	50.0	49.0	49.0	47.9	49.2	49.7	50.0	50.2	50.3
	25	52.8	52.0	51.1	50.2	49.8	49.1	48.5	49.2	49.4	49.3	49.9	50.0	50.6
	26	51.6	51.1	51.3	51.5	51.0	49.9	50.6	50.3	50.0	50.0	49.6	50.3	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	44.9
	28	48.1	47.8	47.4	47.4	47.0	48.5	48.5	47.0	48.0	48.6	49.3	49.3	48.8
	29	48.9	50.0	50.2	50.2	50.1	50.2	50.8	50.9	50.8	50.4	50.2	50.1	50.0
	30	48.7	50.4	51.2	51.2	51.2	50.9	51.0	51.5	51.0	51.3	51.0	50.0	49.0
Hourly Means	50.87	52.21	51.99	51.04	50.22	50.17	49.95	50.06	50.10	49.99	50.12	50.22	49.88	

^a Good Friday.

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'.6 West.

Mean Göttingen Time.	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.	
MARCH.	1	—	—	—	—	—	—	—	—	—	—	50.57	
	2	51.1	51.6	51.2	51.3	51.4	51.0	48.5	44.1	44.0	48.4	50.2	
	3	51.0	50.2	50.1	50.1	50.0	49.0	45.6	40.9	42.4	47.5	50.3	49.99
	4	50.0	50.0	49.8	49.6	49.3	49.7	47.2	44.8	42.2	45.4	48.1	49.73
	5	49.6	49.9	50.1	50.2	50.1	49.4	45.7	42.1	40.5	42.0	46.2	48.63
	6	50.5	50.1	50.0	49.9	49.5	49.0	45.9	42.0	42.6	45.9	50.2	49.48
	7	50.7	50.4	—	—	50.2	49.9	48.3	44.5	40.9	42.1	47.2	49.73
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	50.0	49.3	49.1	50.1	49.7	48.5	45.9	43.8	41.5	43.0	45.9	49.53
	10	49.9	50.0	49.7	50.0	50.0	49.2	47.1	43.3	42.9	44.8	48.2	48.76
	11	50.0	50.3	50.0	50.0	49.5	48.6	46.1	42.6	40.7	42.8	46.0	49.02
	12	51.0	50.5	50.8	50.5	50.4	50.0	48.2	45.0	42.8	44.0	46.8	50.43
	13	51.0	51.0	50.3	49.8	48.2	47.9	45.1	43.0	43.0	47.8	49.2	49.95
	14	49.5	50.0	51.1	51.3	50.1	49.7	48.8	45.3	41.8	42.1	46.5	49.17
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	47.7	50.1	49.4	49.4	51.4	51.0	48.3	47.0	44.0	45.0	47.3	49.52
	17	49.7	49.6	49.8	49.8	49.6	48.9	46.2	44.1	42.7	45.9	48.3	48.83
	18	50.0	50.1	50.6	51.0	50.5	49.2	46.9	44.3	43.8	46.7	49.9	49.59
	19	49.4	49.0	52.0	50.7	50.0	50.3	48.1	47.1	47.2	49.4	50.8	49.98
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	50.0	50.9	50.0	51.0	50.9	50.0	49.2	46.0	48.4	47.3	50.7	50.42
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	49.2	52.6	50.8	50.0	50.7	50.0	47.9	45.7	44.8	47.0	50.3	49.98
	24	50.0	49.0	51.0	53.6	51.2	48.0	44.8	43.4	41.4	42.6	47.0	48.39
	25	51.1	50.8	50.8	50.5	49.6	48.5	47.0	45.0	43.2	44.0	45.9	48.97
	26	50.0	51.4	51.4	51.4	50.0	49.8	45.9	43.0	41.0	42.0	44.5	48.60
	27	50.2	51.2	51.0	51.1	50.0	49.6	47.2	44.1	42.2	44.2	47.7	48.40
	28	50.0	50.4	50.2	50.7	50.9	51.0	48.2	44.2	41.8	44.0	47.6	49.13
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	50.7	50.6	50.8	51.0	51.0	50.7	49.1	46.2	44.0	45.3	48.9	49.80
	31	51.0	51.0	51.2	50.9	50.7	50.1	48.9	45.3	42.9	44.0	47.0	50.16
Hourly Means	50.13	50.40	50.47	50.58	50.20	49.56	47.20	44.27	42.91	44.93	48.03	49.86	
APRIL.	1	50.4	50.8	50.7	52.2	51.5	51.2	50.0	47.5	45.7	46.2	49.1	50.30
	2	50.9	51.0	51.0	51.0	51.0	51.0	48.6	46.0	44.0	45.6	49.6	50.37
	3	50.1	50.3	50.0	49.2	49.5	49.8	48.6	47.0	46.5	48.2	50.5	50.40
	4	50.0	50.2	50.0	50.0	49.5	49.2	47.4	45.2	45.3	48.4	52.0	50.20
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	50.9	51.0	50.5	50.4	51.0	50.0	48.2	44.3	43.2	45.8	49.6	50.30
	7	51.0	52.0	51.0	50.8	50.2	48.1	44.0	42.0	43.9	47.2	50.6	50.51
	8	51.3	51.3	51.0	51.0	50.5	49.5	46.3	42.3	41.0	43.1	47.8	50.20
	9	51.3	51.2	51.0	50.7	50.0	49.1	46.2	43.9	43.1	44.0	47.0	49.78
	10	50.7	50.6	50.4	50.2	50.2	49.6	47.4	43.3	42.5	44.7	48.2	49.86
	11	51.0	50.9	50.8	50.7	50.5	50.0	48.7	46.0	44.9	43.8	47.8	50.35
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	45.0	49.1	47.3	45.5	51.0	46.8	44.9	47.2	42.8	43.1	46.8	49.40
	14	50.2	50.0	50.0	50.5	50.7	50.6	50.8	48.4	47.5	47.6	49.1	48.65
	15	49.5	50.1	50.0	50.8	50.3	50.0	49.1	46.7	44.8	45.0	46.2	48.63
	16	49.7	50.5	50.0	49.5	49.2	48.9	47.7	45.0	44.0	45.0	47.1	48.52
	17	50.2	50.1	50.0	50.0	50.0	50.0	49.0	46.9	45.1	45.0	47.8	49.25
	18	49.4	50.7	50.0	52.2	51.4	50.5	49.4	48.1	48.0	48.9	49.1	49.91
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	53.2	50.0	49.0	48.9	49.0	50.1	48.3	45.2	44.0	44.0	44.3	49.15
	21	51.2	51.3	50.1	50.9	51.4	50.6	49.0	45.2	42.0	43.7	46.6	48.92
	22	50.3	50.3	50.2	50.3	51.0	50.1	48.1	44.2	41.8	43.6	47.6	49.21
	23	50.0	49.9	50.0	50.0	49.6	49.7	50.0	45.8	45.2	46.1	49.5	49.50
	24	50.3	50.4	50.4	50.0	50.3	50.9	52.1	50.0	45.9	45.9	49.2	50.06
	25	50.0	50.2	51.1	50.5	50.5	50.8	51.0	48.8	47.3	47.5	48.3	49.88
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	48.5	49.4	48.4	49.0	48.8	51.0	51.0	49.8	47.0	45.8	45.9	49.45
	28	49.5	50.0	50.0	50.7	51.0	51.7	51.5	48.1	46.4	45.4	46.1	48.59
	29	50.1	50.3	50.6	50.6	50.8	51.6	52.8	49.9	46.7	45.5	46.0	49.90
	30	49.5	44.7	46.6	46.5	47.4	48.9	49.1	46.2	46.7	45.8	47.8	49.07
Hourly Means	50.16	50.24	50.00	50.08	50.24	49.99	48.82	46.27	44.82	45.57	48.06	49.76	

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
MAY.	1	51.0	52.2	51.5	50.1	51.0	51.0	51.0	50.8	50.7	50.1	50.0	50.0	50.0
	2	47.0	48.5	50.0	51.1	52.0	51.0	51.0	51.1	51.1	51.0	51.0	51.0	50.9
	3	49.8	50.0	49.6	50.4	51.0	50.5	50.2	50.8	50.9	50.9	50.8	50.7	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	50.8
	5	49.4	51.2	51.8	51.6	51.0	50.0	50.2	50.9	51.0	51.0	51.0	50.9	50.9
	6	50.1	51.7	52.2	52.0	51.7	51.1	51.3	51.3	51.7	51.7	51.3	51.5	51.3
	7	48.9	50.9	52.3	53.0	53.0	51.5	51.8	51.1	51.8	51.4	51.2	51.6	51.5
	8	48.0	49.0	50.9	52.0	51.2	50.8	51.0	51.0	51.0	51.0	51.0	50.7	51.0
	9	48.7	50.8	52.0	52.0	51.0	50.7	50.7	50.8	51.0	51.0	51.2	51.3	51.7
	10	49.8	50.8	51.2	52.0	51.4	50.7	50.9	51.0	51.0	51.0	51.1	51.5	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	52.1
	12	50.4	51.1	51.1	51.3	51.0	51.0	51.0	51.1	51.0	51.0	51.0	51.2	51.7
	13	49.1	50.2	51.0	51.6	51.5	51.0	51.0	51.7	51.9	51.6	50.8	50.1	49.4
	14	50.0	51.0	51.2	52.0	51.0	50.0	50.0	50.2	51.0	51.1	51.3	51.2	51.3
	15	51.7	52.3	52.0	52.2	51.0	49.4	49.6	49.5	50.0	51.0	51.7	50.9	51.0
	16	51.1	52.9	53.9	52.2	51.8	50.3	49.2	51.0	51.0	51.0	51.0	51.0	51.2
	17	50.0	51.7	53.0	53.0	52.7	51.4	51.5	51.8	51.2	51.5	51.9	50.9	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	49.8
	19	51.8	51.4	51.1	50.7	50.4	50.4	50.5	50.9	51.0	51.0	51.0	51.0	50.9
	20	48.6	52.0	52.9	53.1	52.1	51.8	52.0	52.0	52.6	52.6	52.7	52.0	51.6
	21	49.0	50.1	52.0	53.0	52.3	51.9	51.7	51.9	52.0	52.1	52.6	52.4	51.2
	22	49.1	51.0	52.2	52.9	52.6	51.2	51.2	50.4	50.2	50.7	51.0	51.2	52.0
	23	48.8	49.5	52.3	53.1	52.6	52.0	52.0	52.0	52.0	52.0	52.0	51.8	52.0
	24	48.5	50.0	51.9	52.5	52.0	51.4	51.7	52.0	51.5	51.7	52.0	52.0	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	52.7
	26	49.5	52.1	53.2	53.5	53.0	52.2	52.3	52.4	52.5	52.9	52.7	52.8	53.0
	27	51.5	53.0	53.8	54.0	53.2	53.0	53.0	53.1	53.1	53.0	53.1	53.0	53.0
	28	51.0	53.4	54.0	54.0	53.2	52.8	52.9	53.0	53.1	53.0	53.0	53.0	52.9
	29	50.0	50.9	52.2	53.0	52.5	52.1	52.0	52.4	52.5	52.6	52.4	52.3	52.3
	30	48.8	49.9	51.3	52.2	51.5	50.4	50.8	51.1	51.4	50.2	50.0	49.0	48.0
Hourly Means	49.68	51.06	51.95	52.26	51.83	51.14	51.17	51.36	51.47	51.47	51.49	51.35	51.32	
JUNE.	May 31	50.0	49.0	50.5	49.9	47.5	48.0	48.2	49.1	49.2	49.7	49.5	49.2	—
	1	—	—	—	—	—	—	—	—	—	—	—	—	51.1
	2	48.7	49.5	50.8	51.2	50.4	50.0	50.4	50.7	51.0	51.0	51.0	51.1	50.9
	3	47.0	48.0	50.1	50.7	50.0	50.0	50.0	50.3	51.8	51.0	51.0	51.0	51.1
	4	50.1	51.8	51.5	51.0	50.0	49.5	49.2	49.0	50.6	49.7	50.2	49.7	49.8
	5	50.2	50.9	50.9	50.8	50.0	49.4	49.7	50.0	50.4	51.0	51.8	51.2	51.0
	6	50.5	50.0	51.0	51.0	50.3	50.0	50.4	50.3	50.9	50.5	51.4	51.7	52.2
	7	51.3	51.7	53.0	52.8	51.8	50.7	50.7	50.9	51.1	51.7	51.9	51.6	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	9	49.3	49.5	50.1	51.0	50.6	50.0	50.2	50.3	50.0	50.3	51.0	51.1	51.8
	10	51.1	50.7	52.0	53.5	51.9	51.1	51.3	51.3	51.0	51.0	51.2	51.0	51.7
	11	50.0	51.7	52.3	52.0	51.2	50.9	50.5	50.9	50.9	51.5	51.9	51.3	51.2
	12	51.0	51.2	52.0	52.5	51.2	50.3	50.9	51.0	51.0	51.5	51.5	51.4	51.7
	13	50.0	51.0	52.0	52.0	51.6	51.3	51.4	51.2	51.9	51.9	52.0	51.9	52.0
	14	49.4	51.0	53.6	53.4	53.0	52.2	52.0	52.0	52.0	52.0	51.4	51.0	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	51.9
	16	50.9	52.0	52.9	53.0	52.0	51.4	52.0	52.0	52.0	52.1	52.6	52.5	52.0
	17	51.3	51.3	52.0	52.3	52.0	51.6	51.5	51.7	52.2	52.3	52.2	52.3	52.2
	18	50.6	52.0	52.8	52.9	52.2	51.9	52.0	52.1	52.1	52.9	53.0	52.9	53.0
	19	51.9	53.1	54.0	53.5	52.6	52.3	52.4	52.7	53.0	53.0	53.1	53.3	53.4
	20	50.3	51.2	51.9	52.4	52.0	51.6	51.9	52.2	52.1	52.0	52.0	51.9	52.8
	21	50.5	50.4	51.1	51.6	51.5	50.8	51.0	51.0	51.8	51.9	52.1	52.2	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	52.5
	23	51.8	52.4	52.6	52.6	52.5	51.7	51.2	51.9	52.0	52.0	52.1	52.0	51.9
	24	50.0	51.1	51.1	52.1	51.9	51.9	51.9	51.8	51.8	51.9	51.9	51.8	52.0
	25	52.0	51.3	52.4	52.7	52.3	52.0	52.1	52.0	52.3	52.3	52.2	52.0	51.7
	26	51.6	52.1	51.9	52.0	52.0	51.5	51.3	51.9	52.0	52.5	53.0	52.8	52.8
	27	51.0	50.0	51.3	52.5	52.5	51.7	51.8	52.1	52.3	52.4	52.4	52.2	52.0
	28	52.0	51.1	52.6	52.9	52.0	51.0	50.6	50.8	50.5	50.9	51.1	51.4	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	50.2
	30	50.7	51.0	51.1	51.3	51.3	51.0	51.1	51.0	51.2	51.3	51.3	50.0	50.0
Hourly Means	50.51	50.96	51.83	52.07	51.40	50.92	50.99	51.16	51.43	51.55	51.72	51.56	51.69	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
MAY.	1	50·0	50·0	50·1	50·2	50·9	51·0	49·2	45·6	43·6	43·0	44·9	49·50
	2	50·9	51·0	51·0	51·3	51·1	52·5	52·0	49·2	47·2	46·9	47·9	50·32
	3	—	—	—	—	—	—	—	—	—	—	—	50·01
	4	50·5	50·7	50·6	50·2	50·0	50·9	50·7	48·9	46·8	47·0	47·5	50·28
	5	50·8	50·8	50·6	50·8	50·9	51·0	51·0	48·9	46·4	46·4	48·2	50·53
	6	51·2	51·2	51·0	51·0	51·1	52·0	51·1	48·1	45·7	44·5	46·8	50·79
	7	51·5	51·3	51·1	51·3	52·0	53·0	52·2	49·0	46·1	45·0	46·4	50·43
	8	51·5	51·4	51·3	51·7	52·0	52·7	52·0	48·2	46·4	47·0	47·4	50·68
	9	51·8	51·9	52·0	52·0	51·9	52·0	51·7	49·0	47·0	46·1	47·9	50·80
	10	—	—	—	—	—	—	—	—	—	—	—	50·87
	11	51·0	51·7	52·0	52·0	51·9	52·5	52·1	49·9	46·9	46·4	48·2	50·79
	12	51·6	51·6	51·6	51·5	51·4	52·0	52·7	50·9	48·2	47·4	48·0	51·07
	13	51·0	51·0	52·9	52·0	51·0	52·4	52·8	50·8	48·0	47·7	48·5	50·70
	14	52·7	52·0	51·9	51·5	51·7	52·2	53·9	51·9	49·1	47·9	49·6	51·01
	15	50·9	51·0	51·0	51·0	51·2	51·9	52·0	50·9	48·7	47·1	48·9	50·94
	16	51·8	51·3	51·4	51·4	51·5	52·2	52·8	50·3	48·8	47·5	47·7	50·54
	17	—	—	—	—	—	—	—	—	—	—	—	51·50
	18	48·8	50·2	49·8	50·7	51·2	51·5	51·2	50·0	49·4	49·1	50·2	51·64
	19	50·5	50·8	51·0	51·7	51·8	52·3	52·7	50·0	47·0	46·0	47·0	51·18
	20	51·4	51·1	50·9	51·0	52·2	54·0	54·3	51·9	48·3	47·0	47·8	51·36
	21	52·0	51·3	53·0	52·2	52·9	54·0	54·1	51·7	50·0	48·0	48·0	51·20
	22	52·0	51·8	51·4	51·9	52·0	52·5	54·2	52·2	49·1	47·6	48·0	52·10
	23	52·2	52·2	52·2	52·0	53·4	53·0	53·6	50·2	48·8	46·4	46·6	52·50
	24	—	—	—	—	—	—	—	—	—	—	—	52·60
	25	52·7	52·9	53·0	53·0	52·9	53·0	52·7	49·9	47·0	45·5	46·4	51·64
	26	52·9	52·9	52·9	52·8	52·7	53·0	53·3	51·1	48·2	48·7	49·8	51·20
	27	53·0	53·0	53·0	53·0	53·2	53·7	53·9	51·5	49·0	48·0	49·0	50·18
	28	53·0	53·0	52·9	52·8	52·9	53·4	54·4	52·5	50·0	49·3	49·0	51·36
	29	53·1	52·2	52·3	52·2	52·3	53·0	54·0	51·9	48·0	46·1	47·0	51·20
	30	48·1	49·0	49·0	49·0	52·2	51·5	52·7	51·3	50·3	48·0	48·6	50·18
Hourly Means	51·42	51·43	51·53	51·55	51·86	52·43	52·59	50·22	47·85	46·91	47·90		
JUNE.	May 31	—	—	—	—	—	—	—	—	—	—	—	49·70
	1	51·1	51·0	50·8	50·9	51·0	51·1	53·0	50·9	48·3	46·8	47·0	50·12
	2	50·7	51·0	50·9	50·9	51·0	51·5	52·1	50·0	47·0	45·2	45·9	50·16
	3	51·0	51·0	51·0	50·9	51·5	51·4	52·0	50·8	48·0	46·3	48·0	50·50
	4	49·8	50·0	50·2	51·4	51·3	52·0	54·0	52·9	49·8	49·4	49·2	50·68
	5	51·1	51·0	51·8	51·8	51·0	51·0	52·4	51·0	49·0	48·9	50·0	51·42
	6	52·5	52·5	52·5	52·4	52·4	53·0	54·0	53·1	51·0	50·1	50·4	51·77
	7	—	—	—	—	—	—	—	—	—	—	—	51·09
	8	53·3	50·9	51·6	51·3	51·3	52·4	54·7	54·5	52·5	50·0	49·7	50·4
	9	52·0	52·1	51·9	51·8	52·0	52·9	53·8	53·0	51·2	49·8	50·4	51·42
	10	51·9	52·0	52·0	52·0	52·0	52·6	53·1	52·0	49·3	49·0	49·3	51·40
	11	51·3	51·2	52·0	51·9	52·1	52·6	54·0	52·5	50·0	50·0	49·6	51·42
	12	51·9	53·0	52·0	52·2	52·0	52·4	53·4	52·5	49·9	48·5	49·0	51·68
	13	52·0	52·0	52·0	52·2	52·3	53·0	54·2	53·7	51·1	48·9	48·7	51·72
	14	—	—	—	—	—	—	—	—	—	—	—	51·15
	15	51·9	52·0	52·3	52·0	52·6	53·3	53·6	52·2	49·7	48·3	48·5	52·15
	16	51·9	51·5	52·3	52·4	53·0	53·0	54·0	53·1	51·6	50·5	50·9	51·96
	17	52·3	52·3	52·5	53·0	53·1	53·8	54·3	52·7	50·2	48·9	49·0	52·34
	18	53·0	53·0	53·0	53·0	53·0	53·4	54·2	53·0	51·0	49·2	50·0	52·90
	19	53·5	53·0	53·0	52·8	53·2	53·4	54·5	55·0	52·5	50·3	50·0	52·35
	20	53·0	52·6	52·8	52·9	53·0	54·5	55·6	55·0	52·5	50·2	50·0	51·92
	21	—	—	—	—	—	—	—	—	—	—	—	51·95
	22	53·0	52·8	52·6	52·5	52·8	53·3	54·2	53·1	51·2	50·9	51·2	52·01
	23	52·0	52·0	52·0	51·9	52·2	52·9	54·6	53·6	51·0	49·2	48·6	52·04
	24	52·0	52·1	52·3	52·2	52·2	53·0	54·2	53·9	52·9	51·0	51·3	52·82
	25	51·8	51·9	52·2	52·0	52·3	53·0	54·0	53·0	51·5	50·0	49·9	52·43
	26	53·0	53·0	53·1	53·0	53·0	53·7	55·2	55·8	55·0	53·5	52·0	51·73
	27	52·7	53·0	53·0	53·4	53·4	53·9	56·0	55·3	52·4	50·9	50·2	50·94
	28	—	—	—	—	—	—	—	—	—	—	—	
	29	50·3	50·9	51·2	51·9	51·9	52·5	54·7	54·0	53·7	52·1	51·3	
	30	48·6	49·8	49·7	50·0	50·9	50·9	52·9	52·9	51·5	51·2	51·8	
Hourly Means	51·83	51·83	51·95	52·03	52·17	52·71	53·95	53·06	50·92	49·58	49·69		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
JULY.	1	52.7	52.3	52.8	52.0	51.2	50.8	51.2	51.2	51.1	51.5	51.4	51.9	
	2	51.2	51.6	52.0	52.3	51.0	50.1	50.0	50.4	50.8	51.4	52.0	52.0	
	3	50.3	51.9	53.4	53.6	52.1	51.0	51.0	51.0	51.0	51.0	51.6	52.0	
	4	50.0	51.5	53.1	52.9	51.7	51.1	51.4	51.2	51.0	51.4	51.6	51.8	51.2
	5	53.3	54.0	54.0	53.5	51.9	51.2	51.9	52.0	52.0	52.1	52.3	52.3	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	51.6
	7	51.3	52.0	53.2	52.9	50.8	50.2	50.0	50.0	50.6	50.8	51.4	51.9	51.4
	8	50.9	51.2	53.0	52.4	51.5	50.3	50.6	51.1	50.9	51.9	52.0	51.9	52.0
	9	50.3	50.8	52.0	52.1	51.0	50.4	50.9	51.0	51.0	51.0	51.6	51.4	51.8
	10	52.8	52.9	51.9	51.3	50.8	50.0	50.0	50.3	50.3	50.8	51.2	51.6	51.5
	11	49.7	50.5	51.0	51.9	51.2	50.9	50.4	51.0	50.1	50.1	50.5	50.7	51.2
	12	47.6	47.6	50.7	51.9	51.7	50.5	50.6	50.5	50.1	50.6	50.0	50.2	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	14	50.1	51.5	52.9	52.5	51.9	50.6	50.4	50.5	50.8	51.0	51.2	51.8	51.7
	15	48.0	49.9	51.3	51.2	50.2	49.5	49.8	50.0	50.0	50.0	50.0	50.4	50.4
	16	49.0	51.0	53.0	52.9	51.1	50.0	50.0	50.3	50.8	51.1	51.2	51.6	51.6
	17	50.7	50.9	52.0	52.4	51.0	50.8	51.2	51.7	51.1	51.8	51.6	52.0	52.1
	18	48.0	50.0	52.0	52.8	51.7	51.0	51.0	51.3	52.0	51.6	52.0	52.3	52.3
	19	50.8	51.9	52.6	52.7	51.0	50.0	50.4	50.9	51.0	51.0	50.8	51.9	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	21	49.0	50.0	51.5	51.6	51.5	50.5	50.3	51.0	51.0	51.5	51.5	51.7	52.0
	22	48.9	51.1	53.2	53.1	52.1	51.0	51.3	51.2	51.4	51.7	51.9	52.0	52.0
	23	49.0	49.1	52.0	52.8	52.8	51.4	50.9	51.0	50.9	51.0	50.9	51.0	51.4
	24	47.0	48.2	52.3	52.6	51.5	50.5	50.2	50.2	50.5	50.7	50.2	50.8	50.6
	25	49.8	49.0	50.4	51.0	49.5	49.0	49.0	48.4	48.7	49.1	49.9	49.8	50.0
	26	48.8	49.3	51.4	52.5	51.3	50.2	50.0	49.9	50.0	50.1	50.7	50.0	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	28	47.9	48.2	51.2	53.0	51.9	50.9	50.7	50.9	50.5	50.5	51.2	51.0	51.1
	29	48.5	49.7	51.2	51.8	51.0	50.9	51.2	51.2	51.1	51.2	51.3	51.2	51.5
	30	48.2	49.2	53.0	53.5	52.5	51.2	51.2	50.5	51.5	51.2	51.3	51.7	52.3
	31	49.1	50.7	52.2	53.0	52.1	51.0	51.0	51.2	51.9	52.2	52.3	52.6	52.9
Hourly Means	49.74	50.59	52.20	52.45	51.41	50.56	50.61	50.74	50.82	51.05	51.24	51.46	51.57	
AUGUST.	1	49.9	50.7	51.9	55.0	52.2	50.5	50.6	51.2	51.0	51.2	50.0	48.0	
	2	51.1	51.0	50.7	51.7	51.0	50.6	50.8	50.8	51.3	51.0	50.8	51.1	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	50.0	51.2	50.7	51.2	50.9	50.2	50.0	50.5	50.1	50.7	50.5	50.5	
	5	49.7	50.9	51.5	53.5	52.0	50.2	50.8	50.6	51.0	51.0	50.7	50.4	
	6	50.5	51.7	51.9	52.5	52.0	50.8	51.2	51.0	51.2	51.3	51.5	51.0	
	7	49.2	49.5	51.1	52.6	53.0	50.9	51.2	51.8	51.9	52.2	51.8	51.8	
	8	50.0	50.7	50.6	53.8	53.9	52.1	51.8	52.0	52.0	52.0	52.0	52.0	
	9	47.0	46.5	48.9	52.2	52.8	52.5	51.0	51.7	51.4	51.9	51.7	51.3	
	10	—	—	—	—	—	—	—	—	—	—	—	—	
	11	49.0	50.1	51.5	53.7	53.3	51.8	51.5	52.0	52.0	51.9	52.0	51.9	
	12	48.0	50.2	51.8	53.2	52.9	51.8	51.8	52.0	52.0	52.2	52.2	52.2	
	13	47.4	49.8	52.5	53.7	53.5	52.4	52.1	52.5	52.7	52.8	52.8	52.7	
	14	48.1	50.2	52.9	53.5	53.5	52.0	52.0	52.2	52.7	52.9	53.0	53.3	
	15	50.5	50.7	53.8	53.7	53.0	50.2	50.2	52.1	51.9	51.9	52.2	52.2	
	16	50.1	51.5	52.5	52.3	52.7	51.3	52.0	52.1	52.0	51.9	52.0	52.0	
	17	—	—	—	—	—	—	—	—	—	—	—	—	
	18	47.8	47.9	50.4	53.0	52.7	50.4	51.1	51.4	51.9	52.0	52.2	52.2	
	19	50.7	50.8	51.6	53.2	53.2	52.2	52.1	52.3	52.6	52.7	53.0	53.0	
	20	50.5	51.8	52.3	54.2	54.2	52.4	52.4	52.8	53.0	53.0	53.0	53.1	
	21	48.5	49.5	51.2	52.2	52.6	51.4	51.1	51.8	52.1	52.6	52.7	53.0	
	22	49.0	48.8	49.8	51.2	52.3	51.6	51.1	51.5	52.1	52.0	52.0	52.0	
	23	51.5	51.8	52.6	52.6	52.5	52.5	52.1	52.1	52.0	52.0	51.3	51.1	
	24	—	—	—	—	—	—	—	—	—	—	—	—	
	25	49.8	51.2	52.1	53.2	52.9	51.5	51.2	51.5	51.9	52.0	52.0	52.6	
	26	51.0	51.8	42.2	52.2	51.3	50.9	49.1	49.1	50.4	51.1	51.1	51.5	
	27	48.3	49.1	51.2	53.2	51.9	51.0	51.1	51.8	52.0	52.0	52.0	52.0	
	28	51.5	52.3	52.5	53.3	53.0	52.0	52.0	52.5	52.9	52.3	52.0	52.0	
	29	49.1	49.6	54.2	54.4	53.6	51.9	51.2	48.8	50.9	49.2	41.5	48.6	
	30	46.3	45.2	47.6	49.3	49.6	49.5	49.9	48.0	49.7	49.2	49.9	50.7	
	31	—	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	49.40	50.17	51.54	52.87	52.56	51.33	51.21	51.39	51.72	51.73	51.38	51.62	51.69	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
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	51·4	51·9	51·2	52·0	52·0	52·2	52·3	51·9	50·0	49·0	49·4	51·46
	2	52·0	52·1	52·1	52·0	51·6	52·4	54·0	52·0	50·0	48·8	49·4	51·38
	3	52·1	52·0	51·5	52·2	53·0	53·7	54·1	52·5	50·3	48·8	49·0	51·72
	4	52·0	52·5	52·5	52·0	52·9	53·0	54·0	53·8	51·9	52·1	52·1	52·03
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	51·5	50·5	50·0	52·3	51·5	53·0	54·0	53·9	53·1	53·0	52·9	52·41
	7	54·0	51·9	51·9	52·1	52·0	52·8	54·0	55·0	52·7	50·7	50·0	51·82
	8	52·0	52·0	52·0	51·2	52·9	53·4	55·1	55·2	52·8	51·0	50·0	51·97
	9	52·0	51·6	51·0	52·1	52·0	52·5	53·7	53·5	52·5	51·0	50·7	51·58
	10	51·8	51·4	51·1	51·5	52·0	52·4	54·2	53·5	52·0	50·2	49·5	51·46
	11	51·2	51·1	51·7	52·0	51·9	53·3	54·8	54·5	52·5	49·4	48·2	51·24
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	52·0	52·1	52·8	53·0	53·5	54·0	54·0	53·0	50·9	49·6	49·0	51·16
	14	51·8	52·0	52·1	52·4	52·5	53·0	53·8	52·0	49·6	47·8	47·7	51·32
	15	50·2	50·4	50·5	50·8	51·0	51·9	53·0	51·6	49·7	48·8	48·3	50·29
	16	51·8	51·6	51·6	51·9	52·0	52·0	53·0	50·7	48·0	46·3	48·4	50·87
	17	52·0	52·0	52·0	52·0	52·0	52·9	53·9	51·6	48·5	46·4	46·0	51·19
	18	52·3	52·0	52·0	51·9	52·0	52·1	52·7	51·0	50·0	48·1	48·2	51·26
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	51·5	51·0	50·5	50·6	51·5	52·0	54·7	54·4	51·6	50·0	49·0	51·37
	21	52·0	52·0	52·3	52·3	52·3	53·0	55·0	54·5	52·4	49·9	48·4	51·55
	22	52·2	52·0	52·0	52·0	52·4	53·0	57·4	57·0	54·1	51·0	50·9	52·29
	23	51·6	51·7	51·2	51·2	51·0	51·5	55·8	54·8	52·1	49·5	47·9	51·35
	24	49·6	49·7	50·0	48·9	53·0	54·8	57·5	60·0	59·2	55·3	51·5	51·87
	25	50·2	50·2	50·9	50·7	51·5	51·1	52·0	51·0	49·1	47·5	47·5	49·80
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	50·8	51·2	51·2	50·9	50·8	51·1	52·9	51·5	49·8	48·2	47·2	50·45
	28	51·1	51·2	51·2	51·2	51·5	52·1	53·2	52·0	50·4	48·9	48·0	50·83
	29	51·7	51·6	51·4	51·4	51·5	52·1	53·7	52·9	51·1	49·9	48·5	51·15
	30	52·8	52·4	52·4	53·3	52·8	53·1	53·5	52·1	49·8	47·9	47·9	51·47
31	52·8	52·7	52·6	53·0	53·5	54·6	55·6	54·2	51·4	49·0	49·2	52·12	
Hourly Means	51·72	51·59	51·54	51·74	52·10	52·70	54·14	53·34	51·31	49·56	49·07		
AUGUST.	1	49·7	50·0	51·7	50·5	50·9	52·0	54·3	54·2	52·0	51·1	50·8	51·20
	2	—	—	—	—	—	—	—	—	—	—	—	50·90
	3	50·2	50·1	53·8	51·5	52·1	52·9	52·2	51·1	50·3	48·0	47·1	51·02
	4	51·2	51·0	51·0	54·2	53·0	53·0	54·0	52·7	50·1	48·7	48·0	51·33
	5	51·5	51·4	51·9	52·8	52·8	53·3	54·8	52·5	49·5	48·9	49·1	51·54
	6	51·9	51·2	51·7	52·4	52·3	52·3	53·8	54·2	51·2	48·8	48·8	51·79
	7	52·0	51·1	54·2	52·6	51·9	53·2	54·9	52·2	53·0	49·8	49·2	52·32
	8	53·6	52·8	52·8	55·1	53·7	54·5	56·0	55·2	51·7	48·3	47·0	51·19
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	51·5	51·5	51·8	52·0	52·2	52·7	53·6	53·0	52·0	49·8	48·2	51·81
	11	52·0	52·3	52·7	52·8	53·0	54·0	55·2	53·4	50·3	48·0	47·0	51·79
	12	52·2	52·5	52·5	52·5	52·6	53·5	55·8	53·5	50·6	48·0	46·7	52·16
	13	52·1	52·4	52·6	52·7	53·2	54·7	56·3	54·2	51·1	48·7	46·5	52·56
	14	53·2	53·2	53·2	53·2	53·4	55·6	57·0	54·6	51·2	48·4	48·6	52·07
	15	52·0	52·0	52·1	52·5	52·9	54·5	56·0	54·1	51·0	49·0	48·9	51·52
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	49·0	49·4	51·3	51·0	52·7	55·9	55·2	53·5	50·4	48·6	48·0	51·28
	18	52·0	52·0	52·0	51·9	52·0	53·7	54·2	52·2	49·6	47·8	48·4	52·56
	19	53·0	53·0	52·4	52·8	52·6	54·0	55·2	54·1	52·7	51·2	50·0	52·88
	20	53·1	53·2	53·7	53·7	54·1	55·7	57·0	55·0	51·5	48·0	48·3	52·47
	21	53·1	53·7	53·5	54·0	54·4	55·5	56·8	55·3	52·1	50·1	49·1	51·93
	22	51·6	51·5	51·8	52·8	54·0	56·1	56·4	54·8	52·1	49·8	50·1	52·10
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	52·3	52·1	51·7	53·0	52·1	53·0	54·6	53·9	52·2	50·5	49·7	52·11
	25	52·0	52·3	52·4	52·8	53·3	54·0	54·4	52·9	50·9	50·4	50·3	51·27
	26	51·5	51·8	52·9	52·8	52·8	53·0	53·0	52·4	50·0	49·0	48·4	51·59
	27	52·7	52·7	53·0	53·0	52·9	53·5	53·0	51·1	49·0	49·0	50·3	51·81
	28	51·5	51·9	52·2	52·3	52·8	53·9	53·4	50·1	49·2	48·0	47·9	50·05
	29	50·1	49·0	49·4	51·5	52·0	51·0	50·9	50·8	49·5	47·2	46·8	50·08
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	50·8	51·7	54·0	52·9	52·0	53·3	53·7	50·9	49·0	48·8	49·1	
Hourly Means	51·76	51·76	52·40	52·67	52·76	53·80	54·68	53·15	50·85	49·00	48·55		

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0.751. 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 .	12 ^h .	
SEPTEMBER.	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.	
	1	51.6	52.4	51.9	52.6	51.5	49.7	50.9	51.2	50.0	50.1	51.2	51.2	50.8
	2	49.8	50.4	51.4	50.9	51.1	49.2	50.8	50.1	50.0	50.1	51.5	50.4	51.9
	3	49.7	49.3	48.9	50.2	51.1	50.8	50.7	51.0	51.0	50.2	49.7	51.0	51.1
	4	49.3	50.0	51.0	52.0	50.7	51.4	51.8	51.2	51.4	51.6	51.3	50.9	51.3
	5	47.2	49.0	50.0	51.8	52.5	50.8	51.5	52.0	52.1	52.5	52.0	52.0	51.7
	6	48.1	49.9	51.7	51.7	51.7	51.6	51.5	50.9	51.0	51.9	52.0	52.0	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	51.2
	8	48.7	49.9	50.0	51.3	52.2	52.0	51.8	51.5	51.9	52.0	51.9	52.0	52.1
	9	50.1	51.9	53.3	54.0	53.3	52.2	52.1	52.1	51.7	52.0	52.0	52.2	52.0
	10	51.0	52.2	52.9	53.3	52.8	52.5	52.1	52.3	52.5	52.7	52.8	52.6	52.7
	11	52.2	53.3	53.0	53.0	53.0	52.6	51.9	52.0	52.2	51.2	51.8	51.7	51.4
	12	50.2	50.2	52.0	52.0	51.4	51.0	51.3	51.2	51.1	52.0	51.5	52.0	51.8
	13	49.2	50.9	52.0	51.0	50.4	51.0	51.0	51.2	51.0	50.1	51.5	52.0	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	15	47.3	50.5	51.7	52.2	52.6	52.1	52.2	52.5	52.6	52.5	52.6	52.8	52.8
	16	50.7	53.0	53.7	52.6	52.1	52.0	52.0	52.7	52.8	53.0	52.0	52.2	52.5
	17	51.4	53.1	54.2	53.8	53.1	52.2	52.9	53.0	53.1	53.1	53.5	52.0	48.2
	18	47.2	50.9	52.0	52.7	51.8	50.6	50.4	51.6	52.0	52.1	52.0	51.9	51.5
	19	49.8	51.3	53.7	53.1	52.1	51.3	51.2	51.9	51.3	51.2	50.0	50.3	51.0
	20	50.0	51.1	51.7	52.2	52.3	51.6	51.8	52.2	52.3	52.0	51.7	51.0	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	22	48.5	51.2	52.5	53.6	53.7	52.7	52.4	52.8	52.9	53.0	53.0	53.0	52.9
	23	49.4	51.5	53.5	54.2	54.0	53.0	52.8	53.0	53.0	53.1	53.0	53.0	53.8
	24	49.8	50.5	51.8	52.0	52.8	53.0	53.4	53.5	54.7	54.7	54.1	53.0	52.2
	25	51.9	53.4	55.2	52.2	51.6	51.9	48.8	50.2	50.7	50.3	48.3	50.5	51.5
	26	51.9	51.5	51.4	50.4	52.0	51.6	51.1	51.4	51.7	51.2	51.5	51.3	51.0
	27	52.3	54.7	54.7	54.4	52.7	50.5	50.5	46.3	48.0	46.2	48.3	52.0	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	29	51.8	52.2	53.0	52.1	51.1	50.6	50.5	51.1	50.9	50.4	50.7	51.0	51.0
30	55.1	57.2	57.0	54.9	52.9	51.8	51.8	52.0	52.2	52.5	52.5	52.6	52.4	
Hourly Means	50.16	51.60	52.47	52.47	52.17	51.53	51.51	51.57	51.70	51.60	51.63	51.79	51.69	
OCTOBER.	1	55.7	57.0	56.1	54.0	52.1	51.6	51.3	52.0	52.3	52.7	52.3	51.9	51.5
	2	56.8	56.0	54.8	53.2	52.2	51.8	52.0	52.3	52.5	52.6	52.6	52.5	52.3
	3	54.2	56.3	57.0	55.0	53.5	52.0	52.2	52.2	52.1	52.5	52.8	51.9	51.2
	4	54.8	55.2	55.2	53.9	51.9	51.3	52.1	52.5	52.7	53.0	53.0	52.8	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	52.8
	6	53.8	56.1	56.8	55.5	53.2	51.3	52.4	52.8	52.8	53.0	53.2	53.0	52.8
	7	53.7	57.2	57.8	57.0	54.9	52.9	52.2	52.2	52.2	52.7	52.4	52.7	52.0
	8	52.2	55.2	56.5	56.1	54.3	52.7	53.0	53.0	53.0	53.0	52.8	52.4	52.3
	9	50.9	53.7	55.4	55.4	54.0	52.7	52.4	52.7	52.3	52.3	50.1	46.8	47.2
	10	51.8	55.3	54.8	53.5	51.7	50.7	50.9	51.2	50.8	50.2	50.6	51.3	51.1
	11	54.7	55.7	55.2	54.2	52.1	51.0	51.5	51.5	52.0	52.1	51.9	52.2	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	52.0
	13	50.3	52.5	53.2	52.8	51.4	50.8	51.5	52.0	52.1	52.2	52.0	52.0	52.3
	14	53.9	54.8	53.5	52.3	51.4	51.0	52.0	52.5	52.6	52.5	52.5	52.0	51.5
	15	54.9	54.7	54.5	52.9	51.7	51.9	52.7	52.7	52.9	52.3	52.1	52.0	52.1
	16	55.5	55.8	55.2	53.9	51.9	51.0	51.7	51.8	51.7	52.0	52.5	52.6	52.4
	17	53.1	53.1	53.0	53.0	52.9	51.5	52.0	52.3	52.0	52.0	51.9	52.0	50.8
	18	52.3	54.0	55.1	54.5	52.8	51.8	51.9	52.4	52.1	52.7	52.0	52.0	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	53.0
	20	55.2	56.9	57.0	55.0	52.0	50.4	51.6	52.0	52.1	52.0	51.8	51.5	50.3
	21	56.0	56.8	56.1	53.9	51.9	51.0	51.3	51.2	51.5	51.0	46.9	49.0	49.1
	22	51.1	52.7	53.7	52.6	50.3	49.1	49.2	51.0	51.0	51.0	51.0	49.8	49.0
	23	50.2	52.1	52.9	52.2	51.5	50.2	49.8	50.0	50.3	50.2	50.0	50.5	51.0
	24	51.0	53.0	54.9	53.2	52.6	51.0	51.1	50.3	50.8	50.6	50.0	50.0	50.1
	25	52.6	52.6	53.6	52.3	51.0	50.3	50.3	50.1	50.2	50.9	50.2	49.7	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	27	49.2	51.8	53.0	52.5	50.8	49.7	50.4	50.9	51.0	51.0	51.0	50.8	51.0
	28	50.7	53.5	54.1	53.3	52.2	51.2	51.5	51.5	52.3	52.3	52.0	51.5	51.0
	29	51.2	52.2	52.6	51.7	50.5	50.7	51.7	52.0	52.4	52.5	52.1	52.0	51.7
	30	54.3	56.0	55.5	54.1	51.8	50.9	51.8	52.2	52.3	52.5	52.6	52.3	52.1
	31	53.2	53.8	53.7	51.9	50.2	49.5	50.9	52.0	52.0	51.7	51.9	49.8	49.9
Hourly Means	53.09	54.59	54.86	53.70	52.10	51.11	51.53	51.83	51.93	51.98	51.64	51.37	51.20	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
SEPTEMBER.	1	51·1	50·8	52·1	52·1	52·2	56·4	56·4	52·6	49·4	47·5	48·0	51·40
	2	51·5	50·7	51·0	51·1	51·2	53·6	55·0	55·2	52·0	49·6	49·8	51·18
	3	50·7	51·1	51·2	51·7	52·1	55·5	57·3	55·0	51·6	48·8	48·8	51·19
	4	52·2	51·9	51·2	52·5	52·0	53·9	54·9	52·9	50·2	47·4	46·2	51·22
	5	52·0	52·2	52·2	52·6	53·0	55·1	55·7	53·7	51·0	47·8	47·1	51·56
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	54·0	53·1	53·9	53·0	52·0	55·0	54·8	51·4	49·3	47·5	47·2	51·52
	8	51·7	52·9	52·3	52·0	52·1	54·5	55·1	52·2	49·9	48·3	48·9	51·55
	9	53·0	53·0	52·3	52·7	52·2	54·0	54·0	51·8	50·1	48·7	50·2	52·12
	10	52·6	52·8	52·3	52·6	53·1	55·3	55·8	54·0	52·2	50·1	50·9	52·67
	11	51·6	51·5	51·4	52·5	53·4	55·9	57·8	55·1	52·1	50·1	49·8	52·52
	12	51·9	52·1	52·0	52·1	52·2	53·8	54·3	51·2	50·3	47·0	47·0	51·32
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	52·5	52·7	52·8	52·8	53·0	54·9	53·2	50·2	47·6	45·5	45·3	50·99
	15	52·9	52·6	52·8	52·2	52·8	54·9	54·0	50·3	46·9	45·0	47·3	51·50
	16	52·1	52·9	52·5	52·9	53·2	55·4	54·8	50·9	48·0	46·6	48·1	52·03
	17	49·0	48·4	49·9	50·5	51·2	51·9	51·9	51·1	50·8	49·2	47·3	51·45
	18	51·5	51·6	52·8	52·1	53·0	55·3	54·5	52·8	50·4	47·6	47·6	51·50
	19	51·4	51·8	52·4	52·9	52·2	53·6	53·0	51·1	49·7	47·3	48·2	51·33
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	52·0	51·9	52·0	52·0	52·0	54·0	53·2	51·3	49·3	48·5	47·7	51·50
	22	52·9	52·8	52·7	52·5	52·6	55·0	55·0	51·8	49·2	48·2	48·7	52·23
	23	53·4	53·2	52·9	54·0	56·0	57·5	55·7	52·1	48·8	47·3	47·3	52·73
	24	51·2	51·0	50·0	51·9	52·9	54·0	55·3	50·3	51·2	51·9	52·0	52·38
	25	51·5	51·7	51·4	53·5	52·7	51·5	50·2	48·5	47·2	47·2	49·3	50·88
	26	51·8	52·0	51·9	51·7	51·8	50·0	47·9	46·2	45·9	48·0	50·8	50·67
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	51·7	51·3	51·5	51·5	52·1	51·3	49·0	46·4	45·8	47·1	50·0	50·39
	29	51·0	51·4	51·3	51·0	50·4	49·0	46·0	44·5	44·1	46·5	51·1	50·11
	30	52·6	52·0	51·5	52·0	51·1	50·3	48·5	47·2	46·5	48·7	53·7	52·04
Hourly Means	51·92	51·90	51·93	52·25	52·40	53·91	53·59	51·15	49·21	47·98	48·78	51·43	
OCTOBER.	1	51·3	51·2	51·0	51·0	50·3	49·5	46·0	45·2	45·8	50·4	53·2	51·48
	2	52·0	51·7	51·8	51·6	51·2	50·5	47·2	44·9	43·8	47·5	50·7	51·44
	3	51·9	52·8	52·7	52·7	51·0	49·8	47·2	44·5	43·8	47·7	52·2	51·63
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	52·2	52·0	52·0	52·0	52·0	51·6	49·5	47·3	45·0	44·9	50·0	51·65
	6	51·8	52·2	52·2	51·8	52·2	52·2	50·0	47·4	46·5	46·6	49·5	52·05
	7	53·1	52·3	52·2	52·7	53·3	53·6	51·3	49·2	46·5	46·0	47·8	52·41
	8	52·0	52·4	52·8	52·9	53·2	52·7	50·0	49·4	46·4	46·3	47·5	52·17
	9	47·1	48·1	48·0	48·1	48·2	46·1	47·2	45·0	43·4	45·9	48·6	49·65
	10	52·0	51·4	52·0	51·3	50·8	50·3	48·4	46·6	47·3	50·0	52·8	51·12
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	52·2	52·0	51·7	51·2	51·3	50·3	46·2	42·3	42·1	46·2	48·2	50·83
	13	52·2	52·0	51·9	51·5	51·4	50·7	47·8	44·3	43·2	46·8	50·8	50·74
	14	51·4	51·3	51·8	51·8	51·9	50·5	47·3	44·1	44·7	48·8	52·7	51·20
	15	51·9	51·9	51·4	50·9	50·6	48·8	46·1	45·2	48·8	52·0	54·8	51·66
	16	52·0	51·4	50·5	50·0	50·8	47·5	45·9	44·8	46·1	48·2	50·8	51·08
	17	51·0	51·0	50·7	51·0	50·0	48·8	46·3	44·0	48·5	47·3	50·4	50·78
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	53·0	51·1	51·2	51·0	50·8	50·7	48·2	45·2	45·0	48·0	52·2	51·38
	20	51·0	50·7	50·6	51·0	50·6	51·2	49·5	48·2	45·9	47·8	52·2	51·52
	21	50·9	49·1	50·1	50·5	49·6	48·0	46·1	44·8	44·5	45·3	48·5	50·13
	22	48·8	49·0	48·9	49·4	48·9	47·8	44·7	43·5	45·4	46·7	48·6	49·30
	23	51·0	51·2	51·2	51·0	50·9	49·1	46·0	44·7	46·2	47·7	49·1	49·96
	24	50·0	50·0	49·7	49·5	50·0	50·9	49·1	47·8	47·9	49·2	51·4	50·59
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	49·8	49·9	50·2	50·5	50·0	47·7	44·7	42·1	41·5	42·8	45·2	49·09
	27	50·7	50·2	50·0	50·0	49·1	47·2	45·2	42·1	41·2	42·8	46·0	49·07
	28	50·7	50·2	50·1	49·9	49·9	48·7	44·1	40·7	40·0	42·9	49·0	49·72
	29	51·9	50·8	50·9	50·9	50·7	49·0	45·5	42·8	41·8	46·5	51·1	50·22
	30	51·7	51·0	50·4	49·5	49·0	46·8	44·1	41·9	42·5	46·6	50·2	50·50
	31	49·0	48·6	49·3	48·2	47·6	45·5	42·0	40·2	42·1	46·1	50·5	49·15
Hourly Means	51·21	50·94	50·94	50·81	50·57	49·46	46·87	44·75	44·66	46·93	50·15	49·65	

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	Sc. Div.	
	1	50.2	51.3	50.4	49.6	48.8	47.4	49.2	50.1	50.5	49.6	49.8	49.7	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	51.2
	3	51.3	52.8	53.2	52.3	50.7	50.0	50.0	50.2	50.9	50.9	51.0	52.1	51.7
	4	50.7	53.0	53.6	52.6	51.5	50.2	50.3	51.0	51.0	50.3	51.2	50.2	50.3
	5	49.4	50.5	50.3	51.1	51.1	48.4	49.2	49.0	48.0	50.4	51.0	51.7	51.6
	6	49.8	51.2	51.8	51.7	51.8	51.2	51.0	51.0	51.2	51.1	51.3	50.8	50.3
	7	50.0	51.5	52.8	52.8	52.4	51.5	51.0	51.0	51.1	51.0	50.9	50.5	50.0
	8	49.9	51.9	51.6	51.1	51.0	51.0	51.2	51.2	51.3	51.2	51.0	50.6	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	10	49.8	50.2	50.3	51.2	51.2	51.4	52.0	51.8	52.0	51.9	51.5	50.8	51.0
	11	49.0	49.6	49.2	49.0	48.9	48.7	49.2	50.2	51.0	51.1	51.4	51.5	51.1
	12	49.0	49.3	48.9	48.3	48.8	49.0	50.0	51.0	51.0	51.0	50.5	51.4	51.0
	13	48.1	49.3	49.3	49.2	49.2	49.2	50.8	52.0	52.1	52.0	52.0	52.0	51.9
	14	51.3	52.7	53.0	53.1	52.0	51.0	51.0	51.8	51.8	51.9	52.0	51.6	51.3
	15	51.2	51.9	51.5	51.0	50.6	50.1	51.0	51.8	52.0	52.2	52.1	52.1	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	17	53.3	54.5	54.8	51.8	48.8	49.1	48.8	47.0	47.7	47.0	49.1	49.4	51.0
	18	49.1	51.2	52.3	50.1	49.0	47.5	47.3	49.5	50.0	50.0	49.4	47.9	49.9
	19	49.9	51.9	52.2	51.3	49.9	47.4	48.2	49.1	49.5	49.7	50.0	49.5	50.0
	20	49.0	50.2	51.0	51.0	50.2	49.2	49.0	50.0	50.0	50.0	50.2	50.3	50.2
	21	47.8	50.1	51.4	51.7	51.2	50.4	50.3	50.9	50.8	51.0	51.2	51.1	50.9
	22	53.5	54.3	53.3	53.0	52.1	50.9	50.1	50.2	50.0	50.7	50.6	50.9	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	50.2
	24	51.4	51.1	49.8	49.8	49.7	48.8	49.7	50.7	51.0	50.0	50.0	50.0	49.7
	25	50.4	51.2	51.0	50.3	50.0	50.1	50.9	51.0	51.7	50.9	50.7	50.0	49.8
	26	48.5	49.5	50.1	49.5	48.9	49.0	50.0	50.9	51.0	51.1	50.8	50.0	50.0
	27	49.8	50.0	49.8	49.3	48.8	48.8	49.8	50.8	50.8	51.0	50.5	49.0	50.0
	28	49.6	49.0	49.9	49.5	49.1	48.2	48.8	49.9	50.3	50.9	50.5	49.9	49.4
	29	47.1	48.0	49.1	48.5	47.3	45.9	48.1	48.6	49.7	49.8	50.1	50.0	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	50.7
Hourly Means	49.96	51.05	51.22	50.75	50.12	49.38	49.88	50.43	50.66	50.67	50.75	50.52	50.57	
DECEMBER.	1	49.7	50.7	51.4	50.4	49.2	48.2	48.1	49.0	49.4	49.8	49.9	49.3	49.3
	2	48.2	50.2	50.1	49.2	48.2	48.0	48.3	49.0	48.5	48.7	48.7	49.0	48.8
	3	46.7	47.0	49.1	51.9	51.2	46.1	43.0	39.9	38.4	37.0	34.7	36.2	40.2
	4	44.1	46.0	48.2	48.8	47.2	46.1	46.0	47.7	48.0	48.2	48.8	48.3	48.0
	5	44.7	45.9	48.0	48.6	49.0	47.9	46.1	47.0	47.4	47.4	47.3	47.3	47.0
	6	47.9	50.3	52.9	52.6	51.0	49.3	48.2	49.2	49.8	49.4	49.0	48.1	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	49.1
	8	50.2	53.2	53.5	51.4	49.6	49.0	48.9	48.9	49.6	49.7	49.8	49.8	49.4
	9	49.5	50.9	51.5	50.9	49.6	50.0	50.3	50.5	51.0	51.0	51.0	50.1	50.0
	10	50.8	52.0	50.2	49.7	50.4	50.4	51.9	51.0	51.3	51.7	51.1	50.8	50.6
	11	49.9	51.6	51.7	50.9	48.8	48.6	49.1	50.4	50.6	50.5	50.1	49.7	49.0
	12	49.3	50.2	50.1	48.5	48.1	48.7	48.5	48.8	49.0	50.0	50.2	50.1	50.0
	13	50.8	51.9	51.7	50.0	49.9	47.5	45.4	45.0	47.9	47.9	47.0	49.1	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	49.4
	15	48.8	50.0	48.8	48.9	47.9	47.4	47.2	45.7	48.1	45.1	48.8	49.4	49.3
	16	50.8	50.6	50.6	47.7	47.1	47.1	47.2	47.8	48.2	48.5	49.0	48.5	49.5
	17	47.3	46.6	46.5	47.2	46.0	45.8	46.6	47.5	47.4	48.0	48.5	48.4	48.2
	18	48.4	50.9	52.0	50.4	49.0	46.8	45.3	47.1	46.8	48.0	48.2	48.5	48.4
	19	49.3	49.3	48.9	47.9	46.8	46.8	47.0	48.0	48.6	49.0	48.8	48.9	48.9
	20	45.2	46.5	49.1	50.0	49.6	49.4	49.4	49.2	49.2	48.1	47.9	47.9	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	49.2
	22	46.5	46.5	46.9	46.9	47.3	48.5	48.9	49.3	49.0	49.2	49.3	48.7	48.1
	23	47.0	49.8	50.9	49.8	49.5	49.2	48.9	48.4	50.0	50.2	50.0	49.3	49.0
	24	50.2	51.2	50.7	51.0	50.8	50.9	50.5	50.0	49.7	49.8	49.8	49.1	49.0
	25	49.2	50.0	50.2	49.6	49.1	49.3	48.9	49.1	49.3	49.1	49.0	49.2	49.6
	26	50.2	50.7	50.0	49.0	49.0	49.0	49.3	50.0	50.3	50.3	50.1	49.8	49.0
	27	51.3	51.7	51.2	51.0	49.0	48.9	48.6	49.5	50.0	50.0	50.0	49.8	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	48.5
	29	49.9	51.2	50.9	49.2	46.5	47.1	48.0	49.1	49.2	49.0	48.7	48.4	47.8
	30	51.2	52.5	52.2	49.1	47.7	46.1	45.3	45.8	45.7	47.5	47.0	47.7	47.2
	31	50.0	51.0	50.2	48.3	46.6	46.1	46.1	47.5	47.3	47.3	48.0	48.0	47.8
Hourly Means	48.78	49.94	50.28	49.59	48.67	48.08	47.81	48.16	48.53	48.53	48.54	48.50	48.53	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	49·27	
	2	51·6	51·0	52·5	50·5	49·6	47·3	45·2	43·8	45·6	48·3	49·2	49·27
	3	50·3	51·0	50·2	49·6	48·9	47·1	44·2	41·7	42·2	46·1	48·7	49·46
	4	50·1	49·2	49·0	48·9	48·9	47·3	44·0	42·6	43·6	47·4	49·3	49·43
	5	50·7	50·0	49·5	48·9	48·0	46·9	45·9	45·6	46·2	47·1	48·3	49·12
	6	49·8	49·2	49·0	48·7	49·2	47·2	44·3	44·0	45·0	46·7	48·9	49·43
	7	50·1	50·0	50·0	50·3	49·0	49·3	46·8	46·0	46·0	46·9	48·1	49·96
	8	—	—	—	—	—	—	—	—	—	—	—	49·33
	9	50·0	49·3	49·2	48·9	48·3	45·8	43·8	43·1	45·3	48·3	48·9	49·33
	10	50·2	50·0	49·3	47·9	47·9	46·5	45·1	45·4	46·6	47·8	48·5	49·60
	11	50·7	50·1	49·7	49·4	48·9	46·2	42·5	41·2	42·5	45·5	47·5	48·50
	12	50·7	50·0	49·9	49·8	48·0	45·0	41·8	40·2	40·5	44·5	46·6	48·18
	13	51·2	50·9	50·3	49·7	48·4	45·7	42·0	40·4	42·0	45·0	47·8	48·77
	14	51·0	51·0	50·1	49·5	49·2	46·6	43·0	41·0	41·2	45·4	49·9	49·68
	15	—	—	—	—	—	—	—	—	—	—	—	49·07
	16	51·0	50·9	48·9	48·3	46·9	45·0	42·5	40·0	40·6	44·6	50·4	49·07
	17	50·2	49·0	48·0	47·0	46·0	43·8	41·9	42·5	44·9	46·4	47·5	48·31
	18	50·2	48·7	49·2	48·1	46·3	44·1	41·5	40·7	42·1	45·7	47·5	47·80
	19	50·3	49·8	49·7	48·7	48·0	44·8	42·8	41·7	43·0	45·6	47·4	48·35
	20	50·2	50·1	50·0	49·6	48·3	45·9	42·9	40·9	40·9	42·2	45·0	48·18
	21	50·5	50·1	49·6	49·2	48·6	45·6	44·5	44·3	45·9	48·2	51·3	49·44
	22	—	—	—	—	—	—	—	—	—	—	—	49·55
	23	49·8	49·2	48·2	47·8	46·8	45·2	44·8	43·1	45·0	48·8	50·7	49·55
	24	49·0	48·2	48·4	47·9	48·0	46·8	46·5	46·8	47·3	48·5	49·7	49·12
	25	49·8	49·1	48·8	48·3	46·5	43·5	42·8	43·0	44·3	46·0	47·3	48·64
	26	49·7	49·5	48·5	47·1	45·4	43·2	41·0	40·3	41·5	44·6	48·2	47·85
	27	49·8	48·8	47·8	46·0	43·2	38·5	39·2	38·6	40·8	45·6	48·7	47·31
	28	49·0	49·0	48·5	46·2	44·2	40·3	39·2	38·1	39·8	42·7	45·6	46·98
	29	—	—	—	—	—	—	—	—	—	—	—	47·36
	30	49·5	49·2	49·0	48·5	47·2	45·2	42·3	40·5	40·3	44·0	48·0	47·36
Hourly Means	50·22	49·73	49·33	48·59	47·59	45·31	43·22	42·22	43·32	46·08	48·36		
DECEMBER.	1	49·1	48·2	48·0	46·7	45·0	43·2	40·6	39·1	41·3	44·6	45·2	47·31
	2	48·8	48·0	47·6	46·9	44·7	43·3	40·0	39·5	40·7	42·0	45·9	46·78
	3	41·2	40·8	45·4	45·8	42·3	39·2	37·5	37·5	39·0	40·7	42·7	42·23
	4	47·7	47·1	46·8	46·8	46·7	45·2	42·9	40·3	38·3	40·8	43·7	45·90
	5	47·0	46·9	46·8	46·8	46·2	44·0	41·0	37·7	37·0	41·5	45·2	45·57
	6	—	—	—	—	—	—	—	—	—	—	—	47·48
	7	48·9	48·3	48·3	48·0	47·9	45·4	41·1	37·6	38·1	42·2	46·9	47·48
	8	49·4	49·4	49·2	48·4	46·7	43·5	41·2	40·2	42·5	46·6	48·2	48·26
	9	49·7	49·3	49·1	48·7	47·8	45·8	43·3	42·5	44·9	49·3	52·2	49·12
	10	49·6	49·0	48·1	47·7	46·6	45·0	44·7	43·8	43·5	45·1	47·7	48·86
	11	49·0	48·8	47·5	47·0	46·5	44·7	41·7	40·7	40·4	43·8	47·2	47·84
	12	50·0	49·4	49·0	48·1	47·0	44·9	42·1	40·5	41·5	44·9	49·0	47·83
	13	—	—	—	—	—	—	—	—	—	—	—	47·05
	14	49·2	49·0	48·6	48·3	47·2	44·9	41·9	39·2	39·0	42·1	46·3	47·05
	15	50·0	48·8	47·9	46·1	45·3	42·8	42·0	42·2	42·8	47·0	50·3	47·11
	16	48·9	48·2	47·3	47·6	46·3	43·9	40·9	40·9	42·1	44·3	47·5	47·10
	17	48·5	48·2	47·9	47·5	46·5	45·0	41·5	40·0	40·0	42·3	45·7	46·13
	18	48·7	48·7	48·3	48·0	46·2	43·3	40·1	38·0	39·1	42·6	47·2	46·67
	19	48·8	49·0	48·8	47·3	46·2	45·1	43·4	41·7	39·8	41·1	43·8	46·80
	20	—	—	—	—	—	—	—	—	—	—	—	47·08
	21	49·1	48·5	49·0	47·1	44·9	43·7	41·0	40·7	43·3	45·2	46·7	47·08
	22	48·1	48·0	47·0	47·0	46·5	45·1	43·9	42·3	42·8	43·6	45·8	46·88
	23	48·9	47·9	47·1	47·3	46·7	45·0	43·8	42·5	44·1	46·9	48·7	47·95
	24	49·0	49·0	48·7	47·6	46·0	44·2	43·7	45·0	47·2	48·5	48·6	48·76
	25	49·4	49·3	49·0	48·5	47·1	44·9	42·0	42·2	43·6	45·7	48·0	47·97
	26	49·0	48·2	47·8	46·8	44·1	41·0	41·8	43·1	45·8	49·0	50·5	48·08
	27	—	—	—	—	—	—	—	—	—	—	—	47·57
	28	48·4	48·1	48·2	47·2	45·2	43·0	39·6	39·2	41·2	44·3	47·8	47·8
	29	47·8	47·9	47·7	47·8	46·0	43·3	39·6	38·0	40·5	45·8	48·8	47·01
	30	47·5	47·0	46·3	46·0	45·7	44·0	44·6	44·0	42·5	45·0	48·5	46·92
	31	47·2	47·3	47·2	46·6	45·8	43·9	41·9	41·1	39·9	40·4	42·8	46·18
Hourly Means	48·48	48·09	47·87	47·32	46·04	43·97	41·77	40·72	41·51	44·27	47·07		

48·98

48·07

47·03

47·23

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
JANUARY.	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.	
	1	45.0	48.2	49.0	48.3	47.9	47.2	47.4	49.0	49.7	49.2	48.2	48.0	48.0
	2	45.8	47.3	49.2	48.9	48.2	47.5	47.8	48.0	48.8	48.2	48.0	47.5	47.2
	3	44.0	47.5	50.0	49.7	49.0	48.3	48.0	48.0	48.6	48.0	49.2	48.3	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	48.1
	5	50.6	52.1	51.6	51.0	49.8	49.5	49.8	49.6	49.9	50.1	49.3	48.8	50.0
	6	46.2	48.7	50.5	51.1	49.9	49.0	50.0	49.8	50.0	50.0	49.8	49.8	48.2
	7	50.8	51.9	50.9	49.4	47.3	47.0	46.0	48.2	49.9	50.0	50.0	49.4	49.2
	8	47.7	49.0	48.2	47.8	47.2	46.6	47.4	48.1	49.5	49.5	49.5	49.8	50.0
	9	48.7	47.4	47.4	47.2	47.2	48.0	49.0	48.9	49.0	49.2	49.2	49.0	49.0
	10	50.9	50.5	50.3	50.3	51.0	52.0	51.3	51.0	50.6	50.3	50.0	49.8	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	49.1
	12	50.7	52.2	54.2	50.8	49.1	48.8	48.4	49.0	49.3	49.7	49.4	49.0	49.0
	13	55.4	53.0	51.3	50.0	48.4	47.2	47.8	48.9	49.2	50.0	49.0	49.3	47.2
	14	52.4	54.0	52.8	50.5	49.2	47.8	47.9	49.1	48.8	48.1	49.0	48.8	48.8
	15	52.3	53.0	53.3	52.4	50.2	49.9	50.0	51.0	51.5	51.0	50.4	50.3	50.5
	16	51.2	53.7	52.8	50.9	51.0	49.8	50.1	51.3	51.0	49.2	50.0	50.0	50.5
	17	50.2	52.5	52.6	52.3	50.6	50.2	48.4	48.1	49.0	46.1	48.9	50.2	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	49.4
	19	48.0	49.2	50.8	52.4	52.7	51.0	49.0	48.8	50.0	49.8	49.7	49.3	49.8
	20	50.6	52.4	53.2	53.1	52.4	51.0	49.9	50.0	50.7	50.0	49.2	49.0	49.0
	21	48.0	52.8	56.7	57.0	55.9	52.9	50.0	50.2	50.8	51.0	50.3	49.9	50.1
	22	52.8	53.7	53.8	55.6	54.5	51.9	51.0	51.2	51.8	52.4	52.9	53.0	52.7
	23	45.9	48.8	51.8	53.9	53.9	51.1	50.0	51.9	52.0	52.5	54.0	50.4	48.5
	24	46.9	48.3	49.0	49.7	48.0	47.0	48.8	46.0	48.2	48.8	48.0	49.0	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	26	48.0	48.5	47.3	46.8	47.7	49.1	49.5	50.2	50.8	50.7	50.6	50.0	50.0
	27	56.9	56.5	53.0	48.8	49.0	49.8	49.0	50.7	50.9	51.0	50.4	50.1	50.0
	28	54.3	55.7	53.2	52.8	50.1	50.2	49.7	50.5	50.9	51.3	51.1	51.2	51.1
	29	51.6	52.6	51.5	50.0	49.0	49.1	49.9	50.8	52.1	52.1	52.0	51.4	50.8
	30	51.2	51.2	52.0	52.0	51.3	50.8	50.6	51.0	51.4	49.3	49.5	50.5	50.8
Hourly Means	49.85	51.18	51.40	50.87	50.02	49.33	49.10	49.59	50.17	49.90	49.91	49.68	49.50	
FEBRUARY.	Jan. 31	49.1	52.8	53.8	52.3	52.7	51.2	50.2	50.6	50.6	50.4	50.2	50.0	—
	1	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	2	48.2	52.0	54.3	54.0	53.5	51.4	50.0	50.4	50.9	50.8	50.1	50.3	49.7
	3	49.2	50.3	50.7	52.1	51.3	50.6	50.1	50.0	50.1	50.0	49.5	49.4	49.7
	4	48.3	49.2	50.3	51.2	52.8	51.9	50.1	49.6	50.5	50.6	50.7	50.2	50.2
	5	51.7	53.3	53.7	53.4	52.2	51.2	50.2	50.1	50.8	50.4	50.1	50.0	49.6
	6	50.4	52.0	51.8	50.2	50.1	49.8	49.8	50.1	50.1	50.4	50.4	50.1	49.4
	7	50.9	50.9	50.2	50.7	49.5	48.5	49.4	50.4	50.7	50.6	50.6	50.0	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	50.6
	9	57.0	58.9	60.0	57.5	51.2	49.2	49.0	50.0	50.4	50.0	49.9	50.0	50.0
	10	52.4	54.8	58.7	56.8	52.9	51.0	49.8	51.0	51.0	51.1	50.8	50.0	50.0
	11	50.2	55.9	57.0	55.0	51.5	50.8	50.3	51.0	50.7	51.0	51.2	51.1	50.6
	12	45.7	50.5	53.8	53.6	52.6	50.7	50.0	50.8	51.0	50.2	50.2	50.3	50.0
	13	51.6	57.2	58.8	57.6	55.0	51.8	50.7	51.3	51.9	51.0	51.4	50.9	50.0
	14	47.3	52.5	53.9	54.8	54.1	52.0	51.2	51.9	53.2	53.0	51.9	49.5	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	16	47.3	52.0	54.8	55.3	54.7	51.6	51.0	48.0	50.1	51.0	48.0	48.7	47.7
	17	44.2	48.2	51.5	52.3	52.3	51.2	50.4	50.7	50.0	50.0	50.0	49.0	50.0
	18	45.4	49.0	51.0	52.2	52.3	51.2	48.9	49.3	49.2	49.1	49.3	49.0	49.0
	19	44.3	49.3	50.7	53.2	52.9	51.2	49.7	49.5	49.7	49.5	49.5	49.5	49.5
	20	45.4	48.1	49.7	51.0	51.3	51.0	50.0	50.6	51.0	50.7	49.8	49.2	48.9
	21	47.2	51.5	54.2	55.2	53.9	51.2	49.8	49.0	50.0	50.2	49.8	49.4	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	50.2
	23	47.8	51.8	53.6	54.0	53.2	51.2	50.4	50.9	51.0	50.9	50.4	49.8	50.0
	24	47.0	51.7	53.6	53.8	52.9	51.8	51.0	51.0	50.9	50.8	50.5	50.0	50.3
	25	45.9	51.0	55.0	55.4	53.9	51.5	50.4	50.4	49.4	47.6	45.1	44.0	43.5
	26	43.2	48.7	51.4	51.3	51.0	49.8	48.4	50.2	48.9	49.8	48.8	47.0	48.1
	27	42.0	46.0	49.4	51.5	51.3	50.0	49.0	49.8	49.0	49.4	49.2	48.7	48.2
Hourly Means	47.99	51.57	53.41	53.51	52.46	50.91	49.99	50.28	50.46	50.35	49.89	49.42	49.38	

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.	
JANUARY.	1	47·2	46·8	46·1	45·8	44·9	42·5	41·8	40·0	40·5	42·2	44·0	46·12
	2	47·0	47·0	46·7	48·0	46·0	43·8	42·2	40·2	39·2	40·3	41·1	46·00
	3	—	—	—	—	—	—	—	—	—	—	—	47·41
	4	48·8	48·5	47·9	47·5	46·9	45·3	43·0	42·9	44·3	46·9	49·2	48·41
	5	49·0	48·5	49·0	47·0	45·5	44·0	43·6	42·9	44·4	47·7	48·2	47·93
	6	48·1	47·3	46·5	46·2	45·6	45·5	44·0	43·9	44·9	46·2	49·2	47·31
	7	48·4	48·0	45·8	47·2	43·9	41·3	41·2	41·8	44·8	46·3	46·8	47·01
	8	48·0	47·7	47·0	47·0	46·0	43·3	42·7	42·8	42·7	43·7	47·0	47·31
	9	48·7	48·0	47·7	47·8	46·8	44·2	43·0	40·0	41·0	47·9	51·2	49·00
	10	—	—	—	—	—	—	—	—	—	—	—	48·55
	11	49·5	49·3	48·7	48·1	47·5	45·2	43·9	44·0	45·2	46·8	50·8	47·06
	12	48·4	48·0	47·4	46·8	45·8	43·1	41·0	41·9	45·2	51·1	57·0	48·60
	13	46·7	46·8	44·8	44·0	44·3	45·4	40·5	36·4	38·3	44·5	51·0	49·68
	14	50·4	49·4	48·4	47·6	46·7	45·7	44·3	44·9	45·3	47·4	49·2	48·93
	15	50·8	50·2	50·6	50·0	47·3	47·3	45·8	43·5	44·0	47·2	49·9	46·0
	16	50·0	49·0	48·9	48·7	47·1	46·9	45·2	43·0	43·8	44·3	46·0	49·12
	17	—	—	—	—	—	—	—	—	—	—	—	48·91
	18	49·1	49·0	50·6	49·5	49·2	48·0	48·0	47·5	46·0	46·1	47·3	49·78
	19	50·0	49·6	49·7	49·8	48·5	47·0	44·8	44·2	45·0	46·2	48·5	50·44
	20	48·6	50·0	49·9	50·2	50·0	50·0	49·0	48·0	46·6	46·0	45·8	50·68
	21	50·3	50·0	50·0	51·0	50·0	48·0	46·5	46·0	45·9	47·1	50·2	48·44
	22	51·9	51·1	50·5	50·0	51·0	49·2	46·2	45·5	44·9	44·3	44·5	47·23
	23	48·2	49·2	46·8	45·8	45·8	43·1	38·5	41·1	44·7	47·3	47·3	49·07
	24	—	—	—	—	—	—	—	—	—	—	—	48·45
	25	49·2	48·8	48·0	47·9	46·7	44·7	42·2	42·0	43·8	45·3	47·2	49·32
	26	50·3	50·5	50·0	49·8	48·9	46·0	43·0	44·2	48·2	51·8	55·8	48·53
	27	49·6	49·2	48·4	48·2	47·9	44·5	40·5	37·5	38·1	43·0	49·7	48·54
	28	49·2	48·1	47·5	46·9	45·6	45·7	45·4	43·2	44·0	45·9	50·0	—
	29	49·7	49·7	50·5	47·8	47·6	45·4	41·7	39·2	39·9	43·2	47·2	—
	30	50·1	50·0	49·3	49·0	47·8	45·0	43·6	41·7	41·5	42·1	43·2	—
Hourly Means	49·12	48·83	48·33	47·98	47·05	45·39	43·52	42·63	43·55	45·80	48·36	—	—
FEBRUARY.	Jan. 31	—	—	—	—	—	—	—	—	—	—	—	49·34
	1	50·0	49·8	50·0	49·8	49·0	49·0	46·3	43·8	44·0	44·3	44·2	50·10
	2	49·7	49·5	49·2	50·0	50·2	50·9	49·7	47·7	45·1	45·9	48·8	48·81
	3	49·5	49·8	49·3	48·9	49·0	49·1	47·2	43·2	41·7	43·9	46·8	49·69
	4	49·5	49·2	49·9	49·2	49·2	49·0	46·9	45·3	47·0	50·2	51·6	49·38
	5	49·3	49·2	49·0	49·0	49·3	48·5	45·5	42·8	42·7	44·8	48·3	49·44
	6	49·0	49·1	49·8	49·0	49·8	50·0	46·7	44·1	45·8	48·5	50·2	48·96
	7	—	—	—	—	—	—	—	—	—	—	—	50·78
	8	50·8	50·7	50·0	48·3	47·8	46·6	43·1	42·0	43·9	47·0	51·8	49·40
	9	50·9	50·0	51·0	50·5	50·7	50·0	48·6	46·5	44·8	45·0	47·6	49·26
	10	48·0	47·8	48·0	47·8	48·4	48·9	45·9	43·1	41·4	42·1	44·0	48·73
	11	50·2	50·0	50·0	49·5	49·2	49·6	46·7	43·0	39·7	38·0	40·0	50·12
	12	50·0	49·6	50·0	50·0	49·8	49·8	47·2	42·2	38·0	39·3	44·3	48·99
	13	49·9	49·3	51·9	51·1	50·0	49·6	47·7	43·2	39·8	39·5	41·7	48·73
	14	—	—	—	—	—	—	—	—	—	—	—	48·74
	15	50·1	50·6	52·1	51·7	54·0	53·0	50·5	47·7	42·5	41·0	42·6	47·72
	16	48·5	50·2	50·3	50·5	50·8	50·0	48·3	44·6	41·1	39·8	40·9	48·97
	17	50·5	50·0	50·0	50·1	50·4	50·3	48·7	46·0	43·5	42·5	43·5	48·97
	18	49·5	49·3	50·0	49·2	49·3	49·9	47·6	43·2	39·8	38·7	41·0	48·02
	19	49·3	50·0	50·0	49·8	49·7	49·1	47·1	43·7	40·4	41·0	42·5	48·38
	20	48·0	47·5	47·6	48·8	49·0	49·0	46·6	42·5	38·4	38·5	42·7	47·72
	21	—	—	—	—	—	—	—	—	—	—	—	48·99
	22	49·8	49·7	49·5	49·6	50·2	50·5	48·0	43·3	39·8	40·2	43·4	48·73
	23	49·6	49·8	49·9	50·0	50·0	49·5	46·3	41·5	37·8	38·0	42·0	49·10
	24	49·4	49·5	50·8	50·8	50·9	50·8	47·9	43·7	39·3	38·2	41·9	46·74
	25	44·7	46·0	46·2	47·0	47·6	48·0	48·0	42·0	36·5	35·1	37·5	47·26
	26	48·3	48·0	48·0	48·0	48·4	48·8	47·0	44·5	39·7	38·0	39·0	47·48
	27	48·4	49·2	49·8	49·4	49·5	50·5	48·0	44·0	39·8	37·8	39·6	—
Hourly Means	49·29	49·33	49·68	49·50	49·68	49·60	47·31	43·90	41·35	41·55	44·00	—	—

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^h .	
Feb. 28 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	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.	
	44.5	49.2	52.1	53.8	53.5	51.1	49.5	49.4	49.5	49.2	49.1	49.0	—	
	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0
	45.2	49.9	54.0	54.2	53.0	49.7	49.2	49.5	49.6	49.8	49.8	49.8	49.5	49.1
	42.1	46.3	49.6	51.9	52.2	50.8	49.0	49.8	49.8	49.8	49.8	49.7	48.4	48.9
	40.9	46.3	51.6	52.0	52.2	50.8	50.0	50.2	50.0	48.3	48.3	48.4	48.9	48.8
	43.7	49.0	53.8	53.1	52.9	51.9	51.0	51.0	50.5	50.5	50.5	50.4	50.2	50.0
	47.8	50.8	52.5	53.0	52.5	51.5	51.1	51.2	51.2	50.3	50.3	50.5	50.0	50.0
	49.0	53.0	55.0	55.0	53.5	52.4	52.0	51.9	51.8	51.0	50.6	50.5	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	51.0
	50.9	54.1	55.3	55.2	53.1	50.8	50.4	50.5	50.8	51.0	51.0	51.0	51.0	50.8
	50.8	52.6	53.0	52.1	51.3	50.4	50.2	50.3	50.7	50.5	50.2	50.1	50.0	50.0
	48.5	52.3	53.2	52.2	51.0	49.2	49.0	49.1	49.1	47.8	49.2	50.0	49.9	50.0
	48.0	51.2	52.7	52.5	51.7	50.5	50.0	49.6	49.2	49.4	50.0	49.9	49.0	49.0
	48.0	51.0	55.2	52.5	50.0	48.3	46.6	47.9	46.1	47.1	47.0	45.0	45.8	45.8
	47.2	48.4	49.9	50.7	47.9	46.2	46.4	45.0	46.1	47.1	49.7	50.3	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	48.6
	50.0	54.1	56.0	54.0	50.7	49.0	49.0	48.8	46.0	45.0	47.0	46.0	48.0	48.0
	48.2	50.3	51.2	49.7	48.6	46.2	47.6	48.6	48.4	48.0	49.7	48.7	48.8	48.8
	49.0	52.0	53.0	52.0	50.0	48.4	47.7	49.8	49.0	48.0	48.0	48.2	48.2	48.2
	46.2	50.5	53.1	51.4	50.0	48.8	48.6	48.8	48.8	48.8	48.8	48.6	49.0	49.3
	46.4	50.0	52.1	51.8	50.0	48.8	48.5	48.7	48.5	49.0	48.4	48.0	48.0	48.1
	43.1	46.0	48.0	48.2	48.0	47.9	48.1	48.5	48.0	48.1	48.0	48.2	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0
	49.0	50.6	52.3	51.5	50.0	49.0	49.0	49.1	49.2	49.1	49.4	49.1	49.1	49.1
	47.0	49.0	50.8	50.2	48.5	48.0	48.0	48.0	48.0	48.6	48.2	48.8	48.8	48.4
	48.0	50.2	51.0	50.1	49.1	48.6	49.0	49.0	49.0	49.2	49.0	48.9	48.8	48.8
	47.3	51.1	52.5	49.3	47.6	47.5	48.2	48.4	48.5	48.3	49.0	48.0	48.0	48.0
	47.0	48.9	49.5	49.4	47.9	47.2	47.9	46.6	48.1	48.0	47.8	47.0	47.0	47.1
	47.1	51.0	52.0	51.0	49.0	47.9	47.7	47.9	48.1	48.0	48.0	48.2	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	48.2
50.0	53.0	53.1	50.8	48.9	47.9	48.0	48.2	48.3	47.8	48.1	48.1	48.1	48.1	
49.2	51.3	52.4	51.8	49.9	49.1	49.0	49.0	48.9	48.9	48.7	48.0	47.9	47.9	
Hourly Means	47.19	50.45	52.40	51.83	50.48	49.18	48.91	49.07	48.97	48.80	49.02	48.78	48.81	
APRIL. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	46.8	51.2	51.2	50.3	49.6	49.0	48.8	48.0	48.3	48.2	48.0	47.6	47.8	
	45.0	49.0	50.0	49.4	48.9	48.4	48.7	48.5	48.6	48.7	48.6	48.3	48.0	
	48.0	50.0	50.0	50.0	49.6	48.5	48.0	48.6	48.8	48.2	48.4	48.4	48.4	
	47.0	50.5	52.0	51.5	50.2	50.0	49.2	48.9	49.2	49.2	48.3	48.7	—	
	—	—	—	—	—	—	—	—	—	—	—	—	—	49.0
	47.2	49.5	51.0	47.0	47.0	46.0	44.3	45.0	40.1	40.9	43.7	45.0	46.6	
	46.1	47.1	45.9	45.2	45.2	46.2	45.3	43.7	45.7	45.3	44.3	45.6	45.5	
	48.0	48.4	47.1	46.0	45.0	45.0	45.6	45.0	45.7	45.8	46.1	46.4	46.2	
	43.7	44.0	45.3	45.9	46.0	45.2	46.0	47.0	47.4	48.0	48.0	48.1	—	
	—	—	—	—	—	—	—	—	—	—	—	—	—	45.2
	45.0	46.5	47.9	46.4	46.5	46.3	45.5	44.4	46.1	45.9	46.8	47.1	—	
	—	—	—	—	—	—	—	—	—	—	—	—	—	47.0
	46.7	48.8	49.0	48.0	46.4	45.0	44.6	45.0	44.0	44.2	47.1	44.0	44.7	
	47.9	48.5	47.8	45.8	44.9	45.0	45.9	46.0	44.1	42.5	43.7	42.8	43.8	
	47.0	47.3	46.0	45.8	45.4	46.0	46.2	46.2	44.0	46.0	45.5	44.7	44.7	
	47.6	48.2	47.2	45.9	45.9	41.7	44.0	42.8	42.2	42.6	44.4	44.7	45.8	
	46.0	46.3	45.4	44.0	44.8	45.2	45.9	44.8	46.4	45.3	46.0	45.5	46.0	
	46.0	48.0	48.6	48.6	48.1	47.4	47.0	47.0	47.4	47.0	47.0	46.8	—	
	—	—	—	—	—	—	—	—	—	—	—	—	—	47.0
	44.5	48.0	48.7	48.5	48.0	48.0	48.2	48.0	47.2	47.0	47.1	46.3	47.3	
	48.1	50.5	50.5	50.4	49.6	48.7	49.0	48.8	48.7	48.6	48.3	48.1	48.1	
	50.5	50.6	50.0	50.4	50.0	50.0	51.0	50.0	49.0	48.3	48.8	48.5	47.3	
	50.0	51.2	50.1	49.8	49.9	50.0	50.0	49.9	49.7	50.0	50.0	50.0	50.0	
	50.9	52.1	51.2	50.3	50.0	49.7	49.0	48.5	49.8	50.0	50.0	49.0	49.0	
	47.9	50.8	51.2	51.0	49.0	48.7	48.9	49.2	48.8	47.0	49.0	46.0	—	
	—	—	—	—	—	—	—	—	—	—	—	—	—	47.8
	48.4	50.8	52.5	51.0	50.5	49.4	50.0	49.2	49.0	49.0	49.0	49.0	49.0	
	47.0	49.3	50.9	51.0	50.0	49.1	49.0	49.0	49.0	49.3	49.0	49.5	49.5	
	49.9	50.0	50.6	50.9	51.0	50.0	48.9	49.2	49.2	49.5	49.8	50.0	49.3	
	48.4	50.0	50.9	49.6	49.4	49.7	49.4	49.2	49.4	49.4	49.3	49.4	50.0	
Hourly Means	47.34	49.06	49.24	48.51	48.04	47.53	47.54	47.28	47.11	47.04	47.45	47.18	47.32	

a Good Friday.

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.
Feb. 28	—	—	—	—	—	—	—	—	—	—	—	48·15
1	49·2	49·0	49·0	49·1	49·7	49·6	46·5	43·0	41·0	39·6	41·1	48·38
2	49·0	49·0	49·0	49·2	49·4	49·9	48·3	45·0	41·0	39·8	40·1	
3	48·7	48·4	48·0	48·5	49·5	49·5	48·0	43·0	40·5	38·9	37·9	
4	48·7	48·5	48·3	49·0	49·1	49·2	47·1	41·8	37·6	36·7	40·3	
5	50·0	49·7	49·5	49·4	49·4	50·1	48·0	44·2	41·1	41·2	43·2	
6	49·7	49·5	49·9	50·0	49·9	49·7	47·0	42·0	38·5	40·0	44·3	
7	—	—	—	—	—	—	—	—	—	—	—	
8	50·7	50·5	50·5	50·8	51·0	50·8	47·5	42·1	38·5	41·2	47·0	
9	50·6	50·4	50·4	50·6	50·2	49·8	47·1	42·9	40·0	41·2	47·0	
10	50·0	50·0	49·5	49·5	49·0	49·2	47·0	42·5	38·8	39·3	44·0	
11	49·6	49·2	47·4	47·5	47·9	48·5	47·0	44·0	40·7	41·0	44·0	
12	49·5	49·7	50·1	50·2	49·9	49·2	46·5	44·6	40·5	40·0	43·7	
13	47·9	47·7	50·0	50·2	48·0	46·6	44·6	46·2	41·7	41·8	44·2	
14	—	—	—	—	—	—	—	—	—	—	—	
15	48·5	48·7	49·7	49·0	49·5	49·0	46·5	43·0	40·7	41·0	44·8	
16	49·5	48·0	48·0	49·0	49·4	49·0	47·0	43·2	40·0	42·5	45·8	
17	50·8	51·7	51·0	51·3	50·2	49·8	46·0	41·2	40·0	40·2	44·0	
18	50·3	48·0	48·3	48·2	48·1	48·0	45·4	41·1	39·0	39·6	42·0	
19	49·5	49·3	49·4	49·3	49·3	48·2	46·0	42·2	39·6	39·8	42·2	
20	48·8	50·0	50·0	49·3	49·4	48·5	45·2	41·3	39·5	39·1	40·5	
21	—	—	—	—	—	—	—	—	—	—	—	
22	49·1	49·1	49·5	49·4	49·3	48·9	46·2	42·2	40·0	42·2	44·7	
23	49·4	49·7	49·4	49·2	49·2	49·1	46·5	42·1	39·0	40·4	43·7	
24	48·8	48·2	48·0	48·0	48·0	48·0	44·4	39·8	37·0	39·5	43·7	
25	48·3	48·0	47·5	47·0	47·0	46·3	43·2	41·2	38·9	41·9	45·4	
26	47·3	47·5	47·5	47·7	48·0	46·0	42·5	41·3	41·7	43·7	45·1	
27	47·0	47·6	47·8	47·0	46·7	45·0	42·7	38·0	33·7	36·0	41·0	
28	—	—	—	—	—	—	—	—	—	—	—	
29	48·0	48·0	48·5	47·7	47·3	46·0	42·5	39·5	37·4	38·7	44·0	
30	48·1	48·3	48·3	48·0	48·0	47·5	44·0	40·0	39·5	42·2	46·2	
31	48·3	48·0	48·7	48·2	48·0	47·0	43·8	39·0	37·1	39·8	43·8	
Hourly Means	49·09	48·95	49·01	48·97	48·90	48·46	45·80	42·09	39·37	40·27	43·47	
												46·71
APRIL.												
1	48·2	48·0	48·1	48·0	48·2	48·5	47·0	42·5	40·0	40·7	41·4	47·31
2	48·1	48·3	48·4	48·5	47·9	48·0	46·0	39·0	39·8	38·9	43·4	46·93
3	48·3	48·2	48·0	47·8	48·0	47·2	45·0	40·9	37·8	38·5	42·2	46·95
4	—	—	—	—	—	—	—	—	—	—	—	
5	48·7	50·0	51·0	50·8	50·0	49·8	49·0	42·5	40·7	42·7	45·5	
6	46·0	45·5	47·2	48·0	48·0	47·0	45·2	43·5	44·0	45·1	44·1	
7	47·0	47·4	46·9	47·0	49·0	49·0	45·7	43·1	42·1	43·0	45·4	
8	46·6	47·0	47·2	47·0	46·3	45·6	44·2	39·6	36·8	38·5	41·0	
9	—	—	—	—	—	—	—	—	—	—	—	
10	45·2	45·1	45·0	44·5	48·3	50·0	48·5	44·1	41·5	39·5	43·5	
11	—	—	—	—	—	—	—	—	—	—	—	
12	50·0	48·0	48·0	47·0	47·0	45·0	44·2	40·4	39·2	39·5	43·3	
13	44·0	45·0	48·7	47·1	46·0	44·8	42·2	39·8	38·9	42·0	45·2	
14	45·4	45·6	45·7	46·0	46·1	46·0	46·5	45·5	41·9	43·6	44·7	
15	51·0	46·0	46·1	48·0	48·0	50·0	53·8	46·4	43·0	45·0	44·8	
16	49·0	46·0	45·4	49·0	45·3	44·7	45·0	46·0	45·5	44·3	44·5	
17	47·0	46·8	46·8	47·0	48·0	47·9	46·6	42·8	39·9	41·0	43·5	
18	—	—	—	—	—	—	—	—	—	—	—	
19	47·5	48·8	48·7	48·0	49·2	50·0	47·1	43·1	39·8	38·4	40·7	
20	47·0	47·9	48·2	48·2	48·3	48·7	47·4	43·5	40·6	40·3	43·1	
21	48·1	48·1	48·0	48·5	49·0	49·0	48·8	44·4	40·8	41·5	45·0	
22	47·5	48·0	48·1	48·7	48·9	49·0	47·5	43·8	42·2	44·2	46·7	
23	50·0	48·8	48·1	48·0	48·1	47·0	45·2	42·0	42·0	44·8	48·2	
24	49·0	48·9	48·8	49·4	50·0	50·0	48·1	44·1	42·2	42·0	44·8	
25	—	—	—	—	—	—	—	—	—	—	—	
26	47·8	49·6	50·8	49·2	49·4	48·9	48·0	45·0	41·3	40·9	43·7	
27	49·1	49·2	49·5	50·8	51·0	51·0	49·2	45·3	41·8	40·3	42·8	
28	49·3	49·7	50·7	49·3	49·2	49·0	48·0	45·8	42·9	42·9	46·7	
29	49·0	49·0	48·9	49·3	49·0	48·7	48·8	45·7	43·0	42·6	45·0	
30	49·9	49·8	49·9	49·8	50·0	50·0	49·5	46·8	43·8	40·7	41·9	
Hourly Means	47·95	47·79	48·09	48·20	48·33	48·19	47·06	43·42	41·26	41·64	44·04	
												48·12

DECLINATION.														
Angular Value of one Scale Division of the Declinometer = 0'.751. 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 .	12 ^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.	
MAY.	1	45.9	48.7	49.9	50.2	49.5	49.2	49.1	49.2	49.3	49.1	49.1	49.2	49.3
	2	48.5	50.7	50.2	51.0	51.2	50.2	50.0	50.2	49.2	49.7	49.0	48.9	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	46.1
	4	50.1	48.0	48.7	48.8	46.5	44.5	46.0	46.0	42.0	41.8	45.0	42.8	44.8
	5	47.8	47.2	46.2	46.5	46.8	46.5	46.3	46.1	46.0	46.1	45.1	44.5	45.0
	6	46.6	47.2	47.3	48.0	47.0	47.0	47.0	47.2	47.2	48.0	48.4	48.0	48.3
	7	48.5	49.9	50.2	49.3	49.0	48.5	46.2	47.3	46.5	46.5	47.5	47.1	47.4
	8	47.9	49.0	49.5	50.0	49.0	48.0	48.0	46.7	48.0	46.0	46.0	46.0	46.1
	9	47.0	48.1	48.2	47.2	47.9	48.0	48.0	48.0	48.0	46.0	44.2	45.2	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	48.8
	11	47.8	50.2	50.9	50.1	49.0	48.0	48.0	47.7	48.0	48.0	47.0	47.0	48.0
	12	46.7	48.0	46.5	45.9	44.0	44.3	44.3	46.0	41.8	43.2	43.1	40.0	44.5
	13	48.3	48.6	49.0	49.0	47.9	46.9	46.1	47.1	45.0	45.0	47.0	47.3	48.7
	14	47.8	48.2	48.2	48.2	47.2	47.0	47.2	47.8	47.1	48.0	48.0	47.3	48.3
	15	46.7	48.2	48.8	49.4	49.0	49.0	48.5	48.2	48.0	48.4	49.7	49.5	49.0
	16	47.7	49.1	49.2	50.3	50.2	49.5	49.2	49.2	49.4	48.8	48.9	48.8	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	49.8
	18	49.5	50.7	51.3	51.7	51.0	49.8	49.0	49.3	49.7	49.6	50.0	50.0	50.9
	19	48.2	49.8	50.9	50.4	50.5	49.6	50.1	50.2	49.6	50.4	49.6	49.3	49.2
	20	46.9	48.5	50.0	50.0	50.0	49.9	49.8	50.2	50.1	50.1	50.0	49.0	49.0
	21	49.0	48.7	50.5	49.7	49.7	50.0	50.1	49.0	50.1	50.0	49.5	49.3	49.6
	22	46.4	48.1	45.9	48.2	49.1	49.3	49.7	49.7	49.2	49.0	49.8	50.0	49.5
	23	48.2	48.0	48.8	48.3	49.5	47.0	48.9	49.0	49.0	50.0	50.0	50.1	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	48.3
	25	47.9	48.4	47.0	48.7	48.3	49.0	48.9	47.9	48.7	48.0	48.4	49.2	50.2
	26	48.8	48.5	49.4	50.0	50.0	49.3	49.7	49.2	50.0	50.3	50.0	50.0	50.1
	27	49.4	49.2	49.1	49.9	49.8	49.1	50.0	50.0	50.1	50.0	50.0	50.1	50.4
	28	48.9	50.0	50.7	51.3	50.9	50.2	50.0	50.2	50.4	50.2	50.6	50.3	50.5
	29	48.6	48.0	49.0	50.4	50.4	50.0	50.1	50.1	50.0	50.0	50.5	50.4	49.6
	30	48.5	51.0	50.7	50.0	50.4	49.5	49.4	49.0	49.1	49.3	48.4	50.6	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	48.4
Hourly Means	47.98	48.85	49.08	49.33	48.99	48.43	48.45	48.48	48.13	48.13	48.26	48.07	48.45	
JUNE.	1	49.0	47.4	48.2	49.0	47.5	48.4	48.1	48.7	48.0	48.2	48.2	48.8	49.0
	2	49.0	48.9	49.0	49.0	48.8	48.1	48.0	48.0	46.8	47.1	48.3	49.0	50.2
	3	46.7	47.3	48.7	49.0	48.0	48.0	48.3	47.5	49.0	48.7	48.2	49.9	48.0
	4	48.0	48.6	48.6	49.0	48.0	48.0	48.0	48.1	49.3	49.5	50.0	50.0	50.0
	5	48.0	47.1	48.8	50.7	49.3	48.5	48.4	48.0	48.7	49.1	49.1	50.4	50.0
	6	49.0	48.9	49.6	49.6	49.0	48.3	47.8	48.2	48.5	46.0	48.6	47.1	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	49.7
	8	50.0	50.0	50.0	50.1	50.1	49.4	49.5	50.0	50.1	50.5	50.8	50.8	51.0
	9	50.0	49.9	50.0	49.2	48.0	47.3	44.4	48.7	48.5	47.7	48.9	49.0	49.0
	10	48.0	48.7	49.9	49.3	47.0	47.5	48.0	47.8	48.8	49.0	49.0	49.1	50.2
	11	49.5	49.9	50.9	50.6	49.9	49.4	49.5	49.5	50.0	50.0	50.4	50.8	51.2
	12	49.5	50.0	50.6	51.5	50.2	49.8	50.0	50.0	50.0	50.0	50.2	50.6	51.0
	13	52.0	52.0	54.9	53.3	51.5	51.1	55.4	50.5	49.7	50.0	49.8	49.8	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	49.8
	15	52.5	51.6	52.0	50.9	50.0	50.9	51.0	49.8	47.2	49.8	48.0	49.2	49.1
	16	50.5	52.0	51.3	51.7	49.8	49.0	48.8	49.0	48.5	47.2	49.6	49.0	52.0
	17	49.8	48.8	51.3	50.7	50.5	49.6	49.6	48.4	50.5	50.2	49.8	50.2	50.8
	18	51.3	51.1	50.7	49.6	50.5	50.3	50.2	50.2	51.0	50.4	51.3	51.3	50.0
	19	48.5	50.9	50.5	50.9	50.2	50.0	50.0	50.7	50.5	50.9	50.9	50.8	50.9
	20	48.0	48.2	49.8	50.8	50.9	50.0	50.4	50.6	50.6	50.7	50.4	50.9	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	22	49.3	50.0	52.0	49.5	50.8	49.4	49.8	50.0	50.0	50.2	49.1	50.0	50.3
	23	50.7	50.4	50.6	49.2	49.5	48.5	50.2	49.8	49.2	49.8	47.4	50.4	50.5
	24	48.4	48.3	50.2	51.4	49.9	49.2	50.2	49.9	50.0	50.0	49.3	49.0	50.0
	25	50.2	51.0	51.2	51.0	50.0	49.1	49.4	49.6	50.0	50.0	50.0	50.6	50.6
	26	50.2	51.2	52.0	52.0	51.0	50.1	50.3	50.4	50.8	51.1	50.4	51.0	52.0
	27	49.0	50.3	51.3	51.5	50.9	50.0	49.7	49.6	50.0	49.1	49.0	49.5	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	50.9
	29	49.5	50.5	50.6	51.2	50.3	50.2	50.1	50.0	49.9	47.9	48.5	49.8	50.4
	30	51.2	50.8	51.8	50.8	50.0	49.2	49.0	49.0	49.7	50.0	50.0	50.0	50.2
	Hourly Means	49.53	49.76	50.56	50.44	49.68	49.20	49.39	49.31	49.43	49.35	49.43	49.88	50.26

DECLINATION.

Zero Scale Division = 50, corresponding to 29° 07'·6 West.

Mean Göttingen Time.	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.													
MAY.	1	49·3	49·3	50·0	50·0	50·0	50·0	49·6	45·9	42·5	41·9	44·1	48·35
	2	—	—	—	—	—	—	—	—	—	—	—	48·84
	3	46·0	46·3	46·0	46·0	48·0	52·2	51·5	48·8	47·8	46·7	48·0	
	4	48·0	46·1	50·9	53·1	49·1	51·0	47·1	46·1	45·8	45·0	47·0	46·84
	5	44·8	47·9	47·9	48·5	48·6	50·8	48·3	47·4	45·0	43·7	45·5	46·60
	6	49·4	48·3	48·6	48·7	49·8	50·0	49·0	46·6	44·1	43·2	44·9	47·49
	7	46·1	46·6	47·5	48·2	50·4	49·9	50·7	48·2	45·7	44·5	45·5	47·80
	8	47·1	47·9	47·9	47·5	47·3	49·5	48·2	44·8	42·0	41·6	44·0	47·00
	9	—	—	—	—	—	—	—	—	—	—	—	47·25
	10	48·7	48·6	49·1	50·0	49·3	49·7	48·6	45·5	42·5	42·8	44·5	
	11	47·2	48·0	46·0	51·9	53·9	56·0	52·7	49·2	46·6	48·1	46·1	48·98
	12	45·0	45·9	47·9	49·4	49·5	51·0	51·0	47·4	45·3	44·5	46·0	45·88
	13	50·2	50·0	50·3	52·2	50·6	50·0	48·0	46·0	44·8	44·5	46·0	47·85
	14	49·0	50·9	51·0	50·4	50·0	50·4	48·7	45·5	44·2	44·2	45·0	47·90
	15	49·0	49·0	49·2	48·9	49·3	49·9	48·2	44·7	41·8	41·7	44·7	47·87
	16	—	—	—	—	—	—	—	—	—	—	—	49·33
	17	50·0	50·2	50·9	51·0	50·9	51·2	51·5	49·0	46·3	45·3	47·5	
	18	50·7	50·0	50·4	50·6	49·2	47·5	50·3	48·0	46·8	45·0	45·9	49·45
	19	49·1	49·6	49·0	49·0	50·2	54·4	59·5	52·0	48·0	46·0	45·2	49·99
	20	50·0	49·1	49·9	50·0	51·2	52·4	53·6	51·9	49·2	46·5	48·8	49·84
	21	49·2	49·0	49·4	50·3	50·8	51·5	53·0	52·1	48·0	46·0	45·7	49·59
	22	49·6	50·0	50·0	50·2	50·0	51·9	53·0	51·4	48·6	48·1	48·0	49·36
	23	—	—	—	—	—	—	—	—	—	—	—	49·11
	24	51·0	49·5	48·3	50·7	51·0	52·0	51·9	49·3	47·1	46·3	46·5	
	25	49·9	49·5	50·2	50·0	50·9	51·0	52·0	50·0	48·0	46·1	46·8	48·96
	26	50·0	50·9	51·5	51·3	50·5	51·0	51·1	49·8	46·6	46·0	47·0	49·63
	27	50·4	50·3	50·0	50·6	50·5	51·0	52·0	50·1	48·0	47·2	47·8	49·79
	28	50·7	50·8	50·7	50·3	50·8	51·1	51·8	50·1	47·8	47·1	48·0	50·14
	29	51·2	50·7	51·2	53·5	52·7	53·0	53·5	51·8	49·8	48·3	47·8	50·44
	30	—	—	—	—	—	—	—	—	—	—	—	49·48
	31	47·8	48·4	48·4	49·5	50·2	53·0	52·8	50·0	48·4	47·1	47·6	
Hourly Means	48·82	48·95	49·32	50·07	50·18	51·21	51·06	48·52	46·18	45·28	46·30		
Sc. Div.													
JUNE.	1	50·0	51·0	—	—	—	53·6	54·0	53·1	49·2	48·0	47·5	49·28
	2	51·5	49·0	52·5	52·6	51·2	52·0	50·9	50·2	48·1	45·2	45·8	49·13
	3	49·0	49·2	49·7	50·0	51·1	50·9	51·0	49·8	48·8	48·1	47·2	48·84
	4	50·0	50·0	50·7	51·0	51·2	51·9	53·3	53·0	50·7	50·0	49·2	49·84
	5	49·7	50·0	50·5	51·0	52·8	50·1	50·4	48·7	46·4	45·8	47·4	49·12
	6	—	—	—	—	—	—	—	—	—	—	—	49·37
	7	51·8	50·1	50·9	50·0	51·0	52·0	52·2	51·0	48·7	47·8	49·0	
	8	51·0	51·8	50·0	52·5	54·0	52·4	55·7	53·1	51·9	51·0	49·0	51·03
	9	51·0	48·8	50·0	49·6	50·0	50·0	51·0	50·8	49·7	47·3	47·2	49·00
	10	50·5	51·2	52·0	51·3	51·0	51·3	52·0	50·2	48·5	47·9	49·0	49·47
	11	50·7	50·1	51·2	51·0	51·0	51·8	52·1	51·0	48·4	47·5	48·5	50·20
	12	51·0	51·1	51·3	51·5	51·6	52·4	54·2	53·0	51·1	49·0	49·9	50·81
	13	—	—	—	—	—	—	—	—	—	—	—	51·48
	14	49·8	49·4	50·0	56·4	50·7	50·7	51·7	51·6	50·5	52·2	52·6	
	15	51·7	50·8	51·0	50·0	50·9	50·2	52·0	53·0	50·8	49·4	50·2	50·50
	16	57·0	51·1	49·6	50·5	50·0	50·0	52·0	52·0	50·3	48·0	49·0	50·33
	17	50·7	50·1	50·0	50·6	50·2	50·9	52·0	51·1	51·0	51·1	50·0	50·33
	18	50·9	49·3	51·7	50·5	51·0	51·2	56·2	54·2	51·3	49·8	49·5	50·98
	19	50·9	50·9	51·2	51·2	51·5	52·2	53·1	52·0	50·0	48·2	47·9	50·62
	20	—	—	—	—	—	—	—	—	—	—	—	50·47
	21	48·2	50·4	50·0	51·2	51·0	51·5	52·3	54·1	50·5	51·1	49·6	
	22	52·0	50·0	50·4	51·5	50·9	51·1	52·0	51·9	50·0	49·9	50·0	50·42
	23	50·6	50·5	51·5	51·0	51·0	52·5	52·8	51·1	48·1	49·0	49·2	50·15
	24	50·0	50·7	50·9	51·0	51·0	51·0	52·0	51·0	49·5	48·5	48·5	50·00
	25	53·0	52·3	52·1	52·1	51·2	51·4	52·0	51·0	50·0	49·1	49·2	50·67
	26	52·0	52·0	53·2	52·5	52·2	53·0	54·5	52·0	50·5	50·5	49·0	51·41
	27	—	—	—	—	—	—	—	—	—	—	—	50·21
	28	50·5	52·3	53·0	52·2	51·2	51·0	51·2	49·8	47·5	47·7	47·8	
	29	50·9	50·9	55·0	51·8	51·9	52·0	52·6	51·5	50·0	49·0	50·0	50·60
	30	51·0	51·1	51·0	52·0	53·1	52·0	53·1	52·8	51·6	49·4	49·3	50·75
Hourly Means	50·98	50·54	51·18	51·40	51·31	51·50	52·55	51·65	49·73	48·87	48·90		

48·26

49·48

50·12

50·57

HORIZONTAL FORCE, 1841-1846.

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00027.														
Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^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.	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	54.8	51.5	53.3	52.2	52.0	50.7	—	—	—	—	—	—	53.64
	6	—	—	—	—	—	—	52.4	55.0	53.1	55.2	57.5	56.0	
	7	53.0	52.0	53.0	50.0	49.0	48.0	50.9	55.4	56.3	57.2	61.7	60.3	53.90
	8	56.0	55.6	59.1	58.9	58.0	55.0	58.2	57.2	58.4	61.7	65.4	67.4	59.24
	9	62.5	59.6	—	54.8	54.8	55.2	60.1	58.3	58.9	60.2	63.1	60.7	58.93
	10	59.5	57.5	59.6	59.0	58.1	57.8	57.4	57.1	58.3	60.2	63.9	62.4	59.23
	11	61.2	60.3	62.5	61.5	61.2	61.0	61.1	60.9	63.4	63.5	63.5	68.1	62.35
	12	66.0	61.8	63.9	64.5	63.2	62.4	—	—	—	—	—	—	66.06
	13	—	—	—	—	—	—	64.0	66.3	67.4	69.2	71.8	72.2	
	14	68.8	66.4	68.2	67.3	68.5	69.1	70.5	70.9	70.4	73.1	75.0	76.0	70.35
	15	72.8	71.8	65.8	64.7	61.7	59.1	67.1	65.0	68.3	66.5	70.6	75.4	67.40
	16	73.2	69.5	68.0	64.4	64.0	66.6	67.9	68.1	68.3	70.1	72.5	72.0	68.72
	17	71.4	71.5	68.4	63.6	63.2	66.2	64.9	69.0	67.5	70.9	67.8	69.1	67.79
	18	65.1	64.1	53.8	52.8	58.5	58.9	66.1	63.7	63.4	66.9	69.2	69.4	62.66
	19	68.6	64.6	63.2	62.2	62.1	62.0	—	—	—	—	—	—	64.36
	20	—	—	—	—	—	—	61.6	63.5	63.2	64.7	67.7	68.9	
	21	67.9	67.3	68.2	67.4	65.4	64.9	67.8	69.5	69.1	70.1	74.9	76.7	69.10
	22	71.5	70.5	71.6	69.6	66.5	65.5	68.1	69.2	71.5	70.5	75.7	78.2	70.70
	23	80.3	75.3	70.9	68.4	66.2	65.0	67.9	67.7	68.8	69.5	69.8	71.1	70.08
	24	69.6	69.3	69.0	67.5	66.4	66.7	66.6	69.0	68.6	69.3	73.4	77.9	69.44
	25	80.2	72.8	71.4	68.9	64.5	70.0	68.3	69.1	74.6	73.2	72.9	72.5	71.53
	26	67.9	67.0	68.1	66.9	66.8	66.9	—	—	—	—	—	—	69.51
	27	—	—	—	—	—	—	68.9	68.6	70.3	72.4	75.3	75.0	
	28	71.9	69.7	69.7	68.2	67.0	68.0	67.6	71.1	70.1	71.0	75.4	74.7	70.37
	29	69.4	68.7	70.4	69.6	66.2	64.8	69.3	70.9	69.5	69.1	74.2	71.6	69.48
	30 ^a	70.0	69.9	68.0	66.9	65.9	67.0	—	—	—	—	—	—	—
	Hourly Means	67.22	65.09	64.91	62.97	62.06	62.09	64.11	65.02	65.69	66.88	69.59	70.27	65.49
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	58.7	59.5	60.4	60.7	60.5	60.4	—	—	—	—	—	—	60.59
	6	—	—	—	—	—	—	61.5	61.2	61.2	61.2	60.9	60.9	
	7	61.2	61.6	61.7	61.7	61.7	61.5	61.0	60.9	60.7	60.5	60.5	60.4	61.12
	8	60.8	60.7	60.8	60.7	60.7	60.7	60.6	60.4	60.4	60.2	60.0	60.0	60.50
	9	59.9	60.1	—	60.3	60.5	60.0	60.1	59.8	59.7	59.5	59.7	59.7	59.94
	10	59.7	60.0	60.5	60.7	60.6	60.6	60.3	60.2	60.0	59.9	59.7	59.9	60.18
	11	60.0	60.4	60.7	60.6	60.1	59.7	59.7	59.5	59.0	58.8	58.6	58.0	59.59
	12	58.0	58.5	58.2	57.9	57.5	57.2	—	—	—	—	—	—	55.68
	13	—	—	—	—	—	—	53.7	53.8	53.8	52.7	52.6	54.2	
	14	53.7	53.9	54.0	54.0	53.9	53.7	53.7	52.4	52.1	53.1	53.2	53.2	53.41
	15	53.6	52.9	54.7	55.0	55.1	54.6	54.6	54.2	54.0	53.7	53.0	52.9	54.03
	16	53.4	54.5	55.7	55.7	55.2	54.7	54.7	53.9	53.7	53.8	53.7	53.8	54.40
	17	54.2	56.7	57.2	56.8	56.7	56.7	56.2	56.0	55.9	55.5	55.5	55.3	56.06
	18	55.7	57.6	57.6	58.2	58.0	57.8	57.1	56.8	56.7	56.7	56.6	56.3	57.09
	19	56.7	57.7	58.7	58.6	58.7	58.8	—	—	—	—	—	—	58.03
	20	—	—	—	—	—	—	57.7	58.0	58.0	57.9	57.9	57.7	
	21	57.7	57.7	57.7	57.5	57.2	56.7	56.3	55.9	55.5	54.9	54.7	54.7	56.38
	22	55.5	56.0	56.9	57.7	56.6	55.8	55.5	54.8	54.4	53.7	53.5	53.7	55.34
	23	53.9	54.7	55.5	55.5	55.5	55.5	56.1	56.2	56.5	56.5	55.5	55.0	55.53
	24	55.5	55.7	56.0	57.1	57.3	57.0	56.7	56.1	55.8	55.7	55.5	55.6	56.17
	25	55.9	56.8	57.1	57.2	57.3	56.9	56.8	56.5	56.1	55.7	55.4	55.4	56.43
	26	56.0	56.7	57.3	57.6	57.5	57.2	—	—	—	—	—	—	56.67
	27	—	—	—	—	—	—	56.8	56.7	56.3	56.0	55.9	56.0	
	28	56.7	57.1	57.7	57.9	57.9	57.7	57.3	56.8	56.7	56.7	56.7	56.9	57.18
	29	57.2	57.6	57.7	57.8	57.9	58.0	57.9	57.7	57.3	56.7	56.7	56.7	57.43
	30 ^a	56.7	57.6	57.7	58.4	58.5	58.4	—	—	—	—	—	—	—
	Hourly Means	56.86	57.45	57.80	58.06	57.92	57.68	57.45	57.04	56.85	56.64	56.47	56.49	57.22

^a Omitted in the means.

HORIZONTAL FORCE.													
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00027.													
Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^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.
JULY. 1	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	—
5 ^a	63.5	66.3	66.0	64.2	62.0	61.4	62.1	64.7	63.7	66.4	66.8	62.5	64.13
6	62.3	63.0	62.1	62.9	62.0	62.0	63.9	61.3	61.6	66.1	64.8	62.5	62.88
7	58.0	60.2	62.9	60.6	60.6	60.0	61.2	61.8	61.9	62.4	66.0	64.7	61.69
8	63.0	63.5	63.8	62.9	62.2	62.7	62.6	63.8	64.0	63.9	65.2	66.0	63.63
9	64.8	64.2	65.1	65.0	63.5	63.8	64.7	64.9	65.1	65.6	69.0	68.8	65.38
10	66.3	68.0	68.0	68.2	67.6	68.0	—	—	—	—	—	—	—
11	—	—	—	—	—	—	65.8	68.0	66.1	65.5	67.0	69.0	67.29
12	62.9	62.0	63.0	63.2	63.6	63.7	63.8	64.9	65.5	65.8	67.9	69.7	64.66
13	65.8	63.0	62.8	61.2	61.4	60.0	62.0	66.7	65.4	68.5	71.5	72.0	65.03
14	67.7	67.8	68.7	62.4	67.1	67.8	71.6	71.3	73.0	73.3	73.0	69.2	69.41
15	66.7	63.2	61.8	61.0	62.5	64.8	66.9	69.7	69.5	70.5	72.2	72.7	66.79
16	70.2	68.9	67.7	66.0	66.0	67.0	69.7	69.7	70.7	70.0	71.5	69.8	68.93
17	66.7	66.0	67.3	67.5	68.2	67.8	—	—	—	—	—	—	—
18	—	—	—	—	—	—	69.1	71.7	68.9	65.2	72.9	73.1	68.70
19	70.4	68.9	72.1	67.3	68.5	68.5	71.1	66.7	74.4	67.5	68.6	68.6	69.38
20	61.0	61.3	62.0	59.3	59.9	61.1	62.4	62.0	64.9	68.3	70.3	69.2	63.48
21	65.7	64.8	64.5	63.5	66.4	66.7	69.6	69.1	69.5	70.9	72.0	70.9	67.80
22	70.8	68.5	68.6	66.9	66.0	66.5	67.1	65.5	69.6	69.6	70.6	75.0	68.73
23	72.7	65.8	67.0	67.3	67.4	65.0	64.8	65.5	70.8	69.9	73.7	68.9	68.23
24	58.7	59.6	58.9	58.1	55.0	60.0	—	—	—	—	—	—	—
25	—	—	—	—	—	—	68.9	71.0	69.3	71.5	71.8	71.0	64.48
26	67.9	64.0	61.8	63.8	64.5	65.3	69.8	66.7	67.8	69.0	70.0	71.0	66.80
27	69.2	65.5	66.4	66.0	64.7	67.5	68.6	70.9	70.9	72.7	75.3	74.7	69.37
28	74.2	69.9	70.6	69.2	69.9	72.3	70.4	72.0	72.8	75.0	78.5	77.9	72.73
29	75.9	73.3	73.2	72.4	69.2	68.2	70.1	71.2	73.1	73.9	77.9	77.6	73.00
30	75.2	70.9	70.9	70.5	70.7	70.8	70.5	72.0	72.7	73.6	76.9	76.6	72.61
31 ^b	74.9	70.6	71.2	71.9	71.0	71.0	—	—	—	—	—	—	—
Hourly Means	66.94	65.59	65.88	64.76	64.73	65.26	66.81	67.44	68.31	68.91	71.02	70.50	67.18

TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	°
JULY. 1	—	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	—
5 ^a	57.8	58.7	58.9	59.0	58.9	58.7	58.5	58.0	57.8	57.7	57.5	57.5	58.25
6	57.9	59.3	59.9	60.3	60.0	59.9	59.4	59.1	58.7	58.7	58.7	58.7	59.22
7	58.9	59.1	59.0	59.5	59.5	59.2	59.4	59.5	59.4	58.9	58.9	58.8	59.18
8	58.8	59.1	59.2	59.5	59.6	59.5	59.5	59.6	59.6	59.6	59.4	59.3	59.39
9	59.4	59.4	59.5	59.7	59.6	59.6	59.4	59.2	58.9	58.7	58.7	58.8	59.24
10	58.8	58.3	59.8	60.1	59.9	59.7	—	—	—	—	—	—	—
11	—	—	—	—	—	—	59.3	59.2	59.0	58.8	58.7	58.7	59.19
12	59.2	59.7	59.9	60.0	59.9	59.6	59.4	59.1	58.9	58.7	58.7	58.3	59.28
13	58.7	59.1	59.6	59.6	59.3	58.9	58.9	58.7	57.9	57.3	57.2	56.9	58.51
14	56.7	56.9	57.0	56.8	56.5	56.2	56.1	55.8	55.5	55.1	55.0	55.1	56.06
15	56.2	58.2	58.4	57.9	57.7	57.4	56.5	55.9	55.6	55.2	54.7	54.9	56.55
16	55.7	57.2	58.5	58.5	58.2	57.8	57.9	57.3	57.3	57.2	57.2	57.2	57.50
17	57.9	58.8	59.9	60.3	60.0	59.7	—	—	—	—	—	—	—
18	—	—	—	—	—	—	59.8	59.8	59.8	59.7	59.7	59.6	59.58
19	59.7	59.7	59.7	59.7	59.6	59.7	59.7	59.5	59.6	59.6	59.5	59.6	59.63
20	59.5	59.7	59.7	59.5	59.4	59.0	58.9	58.7	58.7	58.1	57.9	57.7	58.90
21	57.8	58.0	58.1	57.9	57.5	56.8	56.7	56.7	56.4	56.5	55.9	55.7	57.00
22	56.0	56.7	57.1	58.2	58.3	57.9	56.7	56.4	56.0	55.7	55.2	55.2	56.62
23	55.9	57.7	58.7	59.1	59.1	59.0	58.7	58.5	58.3	57.9	57.7	57.7	58.19
24	58.2	58.7	59.0	59.2	59.2	59.2	—	—	—	—	—	—	—
25	—	—	—	—	—	—	59.2	59.1	59.1	58.8	58.9	58.8	58.95
26	59.2	58.7	60.1	60.3	60.3	60.2	59.9	59.9	59.8	59.7	59.6	59.5	59.77
27	59.4	59.5	59.7	59.5	59.3	58.7	58.2	57.5	56.8	56.7	55.9	55.9	58.09
28	56.2	56.7	57.2	57.3	57.2	56.7	56.7	56.4	56.2	55.8	55.7	55.7	56.48
29	55.9	56.7	56.8	57.1	56.9	56.5	56.3	56.0	55.7	55.2	54.8	54.9	56.07
30	55.7	57.7	58.6	58.7	58.5	58.2	57.8	57.5	56.8	56.7	56.2	56.5	57.41
31 ^b	57.0	57.8	58.6	58.7	58.7	58.5	—	—	—	—	—	—	—
Hourly Means	57.80	58.42	58.88	59.03	58.89	58.61	58.39	58.15	57.90	57.67	57.47	57.43	58.22

^a New adjustment.

^b Omitted in the means.

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00027.														
Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^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.	
AUGUST.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4 ^a	51.5	47.5	47.4	46.0	45.9	47.8	47.2	48.4	49.5	51.6	54.8	54.6	49.35
	5	52.5	52.3	48.2	47.0	44.6	46.0	48.2	48.0	51.0	51.2	53.8	53.0	49.65
	6	54.0	40.1	47.5	35.2	32.0	40.1	43.6	48.9	41.3	44.0	48.9	49.4	43.75
	7	47.6	46.1	43.5	43.7	44.5	44.8	—	—	—	—	—	—	49.66
	8	—	—	—	—	—	—	52.2	53.3	53.5	53.5	57.1	56.1	
	9	57.0	53.9	52.0	53.5	52.8	52.5	52.5	52.9	53.3	54.5	59.9	60.5	54.61
	10	56.9	54.0	52.6	53.5	52.2	53.5	54.0	55.5	57.1	58.2	60.5	60.0	55.67
	11	56.5	54.4	53.7	55.0	54.5	53.0	52.9	55.8	61.0	58.5	62.5	58.1	56.33
	12	56.0	54.5	51.6	54.1	53.0	53.7	54.1	54.4	53.8	56.0	59.0	60.0	55.02
	13	57.0	52.7	51.1	50.0	50.0	50.3	51.0	53.2	53.7	56.2	61.0	60.5	53.89
	14	60.0	58.1	56.0	57.0	58.7	57.0	—	—	—	—	—	—	56.76
	15	—	—	—	—	—	—	50.7	51.8	54.2	55.9	60.6	61.1	
	16	58.1	55.9	53.5	50.3	51.6	51.9	54.0	56.4	58.1	59.0	57.9	60.0	55.56
	17	58.6	55.0	52.2	53.5	50.0	52.8	52.9	56.0	58.0	58.0	61.0	60.6	55.72
	18	56.5	52.1	52.8	53.8	52.9	53.7	55.0	55.9	56.7	58.2	62.4	62.0	56.00
	19	60.1	57.9	57.4	57.0	56.0	56.9	56.9	57.4	59.0	58.7	60.9	59.4	58.13
	20	57.0	57.8	58.0	57.8	56.9	56.8	57.2	59.4	60.0	59.0	60.1	59.7	58.31
	21	57.8	58.0	58.0	57.5	55.5	53.5	—	—	—	—	—	—	59.19
	22	—	—	—	—	—	—	61.9	63.5	63.4	59.6	57.9	63.7	
	23	61.1	57.0	56.5	54.9	52.1	50.1	55.0	60.0	57.5	56.0	55.7	63.2	56.59
	24	57.0	53.2	55.0	57.5	57.0	59.0	59.3	61.8	61.8	63.6	68.6	70.0	60.32
	25	64.9	60.6	58.2	59.0	58.8	58.2	60.8	63.1	62.6	62.9	68.2	68.8	62.18
	26	61.8	57.0	55.6	49.0	46.3	44.1	48.2	51.8	58.1	58.0	58.0	57.0	53.74
	27	59.0	48.1	53.8	54.2	53.4	51.0	52.1	61.2	58.4	54.0	61.2	62.9	55.77
	28	54.6	55.1	54.5	51.6	51.5	51.0	—	—	—	—	—	—	56.64
	29	—	—	—	—	—	—	59.4	59.0	59.3	59.5	62.0	62.2	
	30	60.0	55.7	56.0	56.0	56.6	57.0	59.3	59.2	60.7	61.9	63.3	64.2	59.16
	31 ^b	63.8	61.3	58.1	59.0	59.2	59.4	—	—	—	—	—	—	—
Hourly Means	57.20	53.78	53.27	52.48	51.60	51.94	53.84	55.95	56.61	56.86	59.80	60.30	55.30	

TEMPERATURE OF THE MAGNET.														
	0	0	0	0	0 ¹	0	0	0	0	0	0	0	0	
AUGUST.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4 ^a	59.4	59.7	59.7	60.2	60.2	59.9	59.9	59.7	59.5	59.1	58.8	58.7	59.57
	5	58.8	59.5	59.5	59.5	59.5	59.5	59.4	59.3	59.4	59.4	59.3	59.3	59.37
	6	59.5	59.5	59.6	59.6	60.0	60.0	59.7	59.6	59.5	59.5	59.4	59.4	59.61
	7	59.6	59.7	60.2	60.4	60.2	60.0	—	—	—	—	—	—	58.49
	8	—	—	—	—	—	—	57.5	57.2	56.9	56.8	56.7	56.7	
	9	56.9	57.2	57.7	57.8	57.8	57.7	57.4	57.2	57.4	57.3	57.8	56.8	57.42
	10	57.2	57.7	58.1	58.3	58.1	57.7	57.4	56.8	56.5	55.9	55.9	56.0	57.13
	11	56.5	56.8	57.6	57.6	57.7	57.6	57.7	56.9	56.5	56.5	56.1	56.5	57.00
	12	57.0	58.6	59.5	59.7	59.6	59.5	59.4	59.7	60.0	59.8	59.7	59.9	59.37
	13	60.5	60.9	61.6	61.7	61.6	61.2	60.8	60.4	60.5	60.0	59.7	59.6	60.71
	14	59.9	60.4	60.5	60.4	60.3	60.1	—	—	—	—	—	—	59.16
	15	—	—	—	—	—	—	58.7	58.4	58.1	57.8	57.6	57.7	
	16	57.7	57.7	57.9	57.9	57.6	57.1	57.1	56.5	56.1	55.7	55.7	55.9	56.91
	17	56.6	56.7	57.5	57.6	57.5	57.2	57.0	56.7	56.7	56.5	56.4	56.5	56.91
	18	57.5	58.2	58.7	58.7	58.5	57.7	57.2	56.8	57.0	56.6	56.0	56.1	57.42
	19	56.7	57.6	58.1	58.2	58.1	57.7	57.6	57.2	57.1	56.9	57.2	57.6	57.50
	20	57.7	58.0	58.2	58.0	58.0	58.0	58.0	57.9	57.8	57.7	57.7	57.9	57.91
	21	58.5	58.7	59.0	58.8	58.7	58.3	—	—	—	—	—	—	57.61
	22	—	—	—	—	—	—	57.2	56.7	56.7	56.6	56.2	55.9	
	23	56.5	57.0	57.5	57.6	57.5	57.5	56.5	57.5	57.3	57.2	56.9	56.8	57.15
	24	56.7	56.4	56.3	56.0	55.7	55.2	54.7	54.7	54.3	53.7	53.5	54.2	55.12
	25	54.9	55.7	56.5	56.7	56.5	55.6	55.0	54.6	54.3	54.6	54.4	54.5	55.28
	26	55.1	56.2	57.0	57.1	56.8	56.7	56.1	55.7	55.5	55.7	55.9	56.5	56.19
	27	57.1	57.7	58.4	58.7	58.5	58.7	59.3	59.5	59.4	59.1	58.5	57.7	58.55
	28	57.5	57.7	57.7	58.2	58.2	57.8	—	—	—	—	—	—	56.27
	29	—	—	—	—	—	—	55.3	55.2	54.7	54.4	54.2	54.3	
	30	54.9	55.7	56.5	56.7	56.7	56.2	55.7	55.6	54.7	54.1	54.3	54.7	55.48
	31 ^b	55.7	56.5	57.2	57.5	57.5	56.9	—	—	—	—	—	—	—
Hourly Means	57.51	57.97	58.40	58.50	58.40	58.13	57.59	57.38	57.21	57.00	56.87	56.91	57.66	

^a New adjustment.

^b Omitted in the means.

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00027.														
Mean Göttingen Time.	0 ^h .	2 ^h .	4 ^h .	6 ^h .	8 ^h .	10 ^h .	12 ^h .	14 ^h .	16 ^h .	18 ^h .	20 ^h .	22 ^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.	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	—	
	8	—	—	—	—	—	—	—	—	—	—	—	—	
	9	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	
	11	—	—	—	—	—	—	—	—	—	—	—	—	
	12	—	—	—	—	—	—	—	—	—	—	—	—	
	13 ^a	36.0	35.0	28.9	32.3	36.4	37.1	39.6	38.5	40.1	40.5	42.0	35.0	36.78
	14	33.0	30.8	33.7	32.9	35.1	36.3	38.6	39.8	39.4	40.9	44.2	44.9	37.47
	15	42.0	39.0	38.7	39.0	37.5	39.2	39.0	40.4	40.7	41.3	46.0	—	40.25
	16	43.4	41.9	40.7	40.5	36.1	38.1	38.7	41.2	43.9	44.2	46.6	45.6	41.74
	17	43.8	42.0	43.1	40.6	42.6	39.7	46.1	45.7	49.5	51.4	55.5	53.9	46.16
	18	52.1	49.0	47.8	45.5	44.8	45.2	—	—	—	—	—	—	46.43
	19	—	—	—	—	—	—	41.2	43.0	44.2	45.0	48.5	50.8	—
	20	47.5	45.7	43.5	41.9	43.1	41.4	44.0	46.2	43.9	44.0	47.8	49.7	44.89
	21	48.0	43.3	42.3	41.4	42.5	42.5	44.0	45.2	46.0	46.8	49.7	49.8	45.13
	22	50.0	45.8	42.7	45.0	44.8	48.8	46.4	47.8	47.9	48.5	53.9	56.4	48.17
	23	53.9	52.0	48.8	47.0	46.1	47.1	49.0	50.8	52.9	56.8	59.7	58.2	51.86
	24	60.0	55.0	45.0	40.0	31.2	33.2	39.6	41.9	44.4	44.2	46.7	41.8	43.58
	25 ^b	27.9	15.3	-6.3	-12.9	-24.4	11.6	—	—	—	—	—	—	20.82
	26	—	—	—	—	—	—	37.6	40.3	38.7	42.6	45.8	33.6	—
	27	37.0	30.9	30.6	31.4	39.1	35.0	41.0	43.5	43.4	42.9	50.0	50.0	39.57
	28	35.1	41.5	38.9	39.0	38.0	39.1	42.2	45.0	44.2	44.6	47.6	41.8	41.42
	29	41.5	41.9	31.5	37.1	36.8	39.0	43.0	43.8	49.5	46.0	45.6	42.3	41.50
	30	41.3	41.8	41.2	39.6	41.7	42.9	47.2	47.9	45.0	45.0	46.2	45.7	43.79
Hourly Means	43.28	40.68	36.94	36.27	35.71	38.51	42.33	43.81	44.61	45.29	48.49	46.63	41.86	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	—	
	8	—	—	—	—	—	—	—	—	—	—	—	—	
	9	—	—	—	—	—	—	—	—	—	—	—	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	
	11	—	—	—	—	—	—	—	—	—	—	—	—	
	12	—	—	—	—	—	—	—	—	—	—	—	—	
	13 ^a	55.6	56.3	57.6	58.5	58.2	57.6	57.0	56.5	56.1	56.1	56.0	56.7	56.85
	14	57.5	58.1	58.7	58.7	58.5	58.0	57.7	57.6	57.9	56.7	56.5	56.9	57.73
	15	57.7	58.5	58.9	59.1	59.1	58.7	58.3	58.1	57.8	57.7	57.7	—	58.33
	16	58.3	58.9	59.7	59.6	59.9	59.5	59.3	58.7	58.6	58.2	58.0	57.9	58.88
	17	57.9	57.7	57.5	57.1	56.7	56.3	56.0	55.6	55.1	54.7	54.5	54.7	56.15
	18	55.0	55.7	56.5	56.7	56.7	56.2	—	—	—	—	—	—	56.53
	19	—	—	—	—	—	—	57.7	57.4	56.9	56.6	56.2	56.7	—
	20	57.7	58.7	59.6	59.7	59.5	59.2	58.7	58.7	58.4	58.1	58.5	58.2	58.75
	21	58.7	59.1	59.5	59.5	59.2	58.9	58.8	58.4	58.4	57.9	57.7	57.8	58.66
	22	57.7	58.2	58.3	58.2	57.9	57.7	58.0	57.8	57.8	57.6	57.3	57.3	57.82
	23	57.8	57.9	58.1	58.7	58.9	58.6	57.5	56.7	55.9	55.7	55.5	55.7	57.25
	24	56.5	56.7	57.3	57.9	58.6	58.6	57.9	57.6	57.2	56.7	56.1	56.2	57.28
	25	56.7	57.5	57.8	58.5	58.8	58.7	—	—	—	—	—	—	—
	26	—	—	—	—	—	—	55.9	55.9	55.9	55.3	55.0	54.8	56.73
	27	55.5	56.0	56.7	56.8	56.6	56.2	56.2	55.7	55.7	54.7	55.7	54.9	55.89
	28	55.8	56.7	57.5	57.8	58.1	57.8	57.6	57.4	57.3	57.1	57.0	57.2	57.28
	29	57.7	57.8	57.8	57.7	57.7	57.5	57.3	57.2	57.2	56.8	56.7	56.7	57.34
	30	56.9	57.4	57.7	57.8	57.8	57.7	57.7	57.6	57.9	57.7	57.7	58.2	57.68
Hourly Means	57.06	57.58	58.08	58.27	58.26	57.95	57.60	57.31	57.13	56.72	56.63	56.66	57.44	

^a New adjustment.

^b The minus sign is correctly placed before the observations 25^d, 4^h, 6^h, and 8^h.

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00028.														
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 .	12 ^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.	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4 ^a	76.0	73.8	71.0	69.2	70.1	68.3	67.6	63.0	65.2	67.2	68.5	69.8	71.0
	5	79.6	76.0	73.9	72.0	71.9	71.6	70.6	69.7	70.0	71.6	72.0	72.8	76.0
	6	68.1	64.2	63.9	62.0	61.0	62.3	65.3	62.7	63.8	63.8	69.6	68.4	67.9
	7	69.0	70.8	70.6	68.8	66.4	65.0	65.2	65.6	66.0	66.6	64.8	65.7	68.3
	8	67.0	65.7	65.9	67.0	65.4	60.9	53.7	52.0	52.0	54.0	52.3	60.0	63.0
	9	67.2	67.0	66.7	66.3	65.2	63.5	63.6	66.4	66.0	65.5	69.0	65.3	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	69.9
	11	66.9	67.1	68.2	68.8	69.6	69.0	68.4	68.4	68.8	70.3	70.6	70.8	70.7
	12	72.9	72.3	72.0	71.4	71.0	69.0	68.8	69.0	69.4	69.9	70.8	71.4	72.0
	13	77.8	77.0	76.6	76.5	75.2	72.8	72.2	72.0	72.0	71.6	73.8	73.4	74.0
	14	76.1	75.9	75.2	74.2	73.3	73.4	73.9	72.9	72.1	73.0	73.0	73.0	74.0
	15	75.0	73.6	72.0	71.5	72.1	72.5	67.7	68.5	69.3	70.0	71.6	72.1	74.1
	16	72.0	72.1	73.7	74.2	72.7	69.0	63.0	66.8	68.5	72.8	71.0	70.7	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	71.8
	18	69.0	67.8	67.0	67.2	68.0	64.8	58.9	63.6	65.6	64.9	67.8	67.0	68.5
	19	71.5	70.9	71.0	70.0	68.1	65.3	62.1	64.7	65.2	65.4	65.8	64.9	67.0
	20	67.3	64.0	67.1	68.4	67.8	60.8	62.6	63.6	64.6	66.0	67.2	67.5	71.9
	21	62.4	62.5	56.5	58.8	55.3	62.4	59.2	61.4	61.8	61.0	63.2	64.3	64.7
	22	72.2	71.8	71.1	70.0	69.5	68.5	68.1	68.1	68.0	68.8	69.2	69.8	70.0
	23	69.9	70.0	70.8	69.1	67.2	66.7	67.0	66.9	67.0	67.2	68.1	68.8	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	74.0
	25	61.8	56.6	48.2	47.9	57.3	44.3	50.8	46.6	51.5	55.0	54.1	57.1	60.2
	26	51.7	57.4	57.3	53.0	55.3	47.1	55.7	58.0	58.6	65.8	65.0	63.5	64.8
	27	61.0	61.9	63.1	63.0	63.5	62.8	62.9	67.4	67.5	67.5	67.0	68.7	71.2
	28	65.9	63.2	65.0	69.0	68.0	65.9	64.0	64.2	64.9	67.3	71.2	71.3	73.8
	29	73.7	74.6	75.2	76.4	75.5	74.0	70.8	66.8	69.8	70.7	73.2	73.1	74.2
	30	74.7	76.0	77.0	76.7	75.2	73.8	73.1	72.5	72.3	72.9	73.7	74.3	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	74.6
Hourly Means	69.53	68.84	68.29	67.98	67.69	65.57	64.80	65.03	65.83	67.03	68.04	68.49	70.32	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4 ^a	57.5	58.0	58.0	58.3	58.4	58.3	58.3	58.5	58.3	58.1	57.8	57.9	57.7
	5	57.8	58.2	58.7	58.9	59.1	59.5	59.6	59.5	59.5	59.7	59.3	59.2	59.0
	6	59.7	59.8	60.0	60.5	60.6	60.5	60.6	60.5	60.4	59.9	59.9	59.7	59.7
	7	60.5	61.1	61.8	62.7	62.9	63.5	63.7	63.7	63.5	63.0	62.8	62.5	62.1
	8	61.7	61.9	62.0	62.7	62.7	62.8	62.8	62.9	62.7	62.6	62.2	62.2	62.1
	9	61.2	61.2	61.2	61.2	60.9	61.1	61.1	60.9	60.9	60.7	60.6	60.5	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	58.7
	11	58.0	58.2	58.5	58.7	58.9	59.1	59.1	59.3	59.0	58.9	58.7	58.6	58.2
	12	57.7	58.2	58.5	58.7	58.9	59.2	59.2	59.3	59.2	58.8	58.7	58.7	58.5
	13	56.9	57.1	57.3	57.5	57.7	57.7	57.7	57.7	57.5	57.4	57.1	57.1	56.9
	14	56.5	56.4	56.6	56.7	57.0	57.4	57.4	57.4	57.4	57.2	57.1	57.1	57.1
	15	57.7	57.8	58.4	58.7	58.7	58.8	58.9	58.9	58.7	58.5	58.2	57.9	57.7
	16	58.7	59.5	59.9	60.2	60.7	60.7	60.7	60.7	60.6	60.1	60.1	60.0	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	61.5
	18	62.5	63.2	63.5	64.1	64.2	64.3	64.5	64.4	64.3	63.9	63.7	63.7	63.2
	19	64.0	64.2	64.7	64.6	65.2	65.2	65.3	65.1	64.9	64.9	64.5	64.5	64.5
	20	63.9	63.9	64.0	63.9	64.0	63.9	63.9	63.7	63.6	63.3	63.0	62.9	63.0
	21	62.9	63.1	62.5	63.4	63.7	63.7	63.9	64.2	64.2	63.9	63.6	63.1	62.6
	22	61.8	62.5	62.9	63.3	63.7	63.7	63.7	63.6	63.2	62.7	62.5	62.4	61.9
	23	62.2	62.5	62.9	63.4	63.7	64.0	64.0	63.7	63.9	63.7	63.6	63.5	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	63.7
	25	62.6	62.5	62.5	62.5	62.7	62.4	62.4	62.4	62.4	62.3	62.2	62.3	62.2
	26	62.8	63.3	63.5	63.8	64.1	64.0	64.0	63.9	63.9	63.7	63.6	63.4	63.2
	27	62.6	62.6	62.6	62.6	62.7	62.6	62.5	62.5	62.5	62.5	62.3	62.1	61.9
	28	60.7	60.7	60.8	61.0	61.1	61.2	61.0	60.9	60.7	60.7	60.7	60.5	60.4
	29	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.5	59.7	59.2	59.1	59.0
	30	59.0	59.3	59.6	58.7	59.9	60.2	60.2	60.3	60.2	60.0	59.7	59.7	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	60.5
Hourly Means	60.36	60.62	60.84	61.08	61.30	61.40	61.42	61.40	61.29	61.09	60.88	60.77	60.64	

* New adjustment.

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah° = .00028.

Mean Göttingen Time.	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. ^a	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4 ^a	71.1	71.9	72.5	72.4	73.8	76.5	77.7	78.6	78.8	78.4	78.8	72.13
	5	72.3	74.2	79.0	76.5	77.6	76.9	75.2	75.0	70.8	66.6	67.9	73.32
	6	70.0	69.2	69.2	70.0	71.0	72.0	73.5	75.0	74.4	72.0	70.2	67.90
	7	66.6	67.1	67.2	67.6	67.2	68.5	70.7	71.6	70.0	66.5	65.8	67.57
	8	62.2	61.9	61.0	61.2	63.5	65.9	66.8	66.3	66.0	68.0	66.4	62.00
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	67.9	68.7	69.9	69.2	71.4	71.8	72.8	70.8	67.6	65.7	66.2	67.65
	11	70.8	71.7	71.6	71.0	71.7	73.6	75.1	76.0	76.5	76.0	73.8	71.06
	12	72.3	72.9	73.0	73.4	73.9	75.0	77.0	79.3	79.9	79.9	79.4	73.16
	13	75.8	78.6	76.6	75.8	75.2	78.9	80.8	79.0	75.1	75.0	74.8	75.44
	14	74.9	77.5	77.0	79.5	78.0	77.7	78.0	80.7	78.7	77.5	75.0	75.60
	15	74.8	75.4	76.8	76.0	76.0	76.1	76.5	77.5	76.0	74.0	72.0	73.38
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	70.8	72.1	72.0	72.5	73.7	74.6	74.1	71.3	71.0	71.1	71.0	71.35
	18	69.0	70.3	71.0	71.1	70.3	71.0	73.0	74.5	73.5	73.6	72.0	68.73
	19	68.2	70.2	69.7	68.6	69.0	70.8	71.0	69.4	68.8	68.0	68.5	68.09
	20	71.8	69.7	75.5	79.9	80.0	73.7	77.9	78.1	75.8	67.8	66.7	69.82
	21	66.8	66.8	66.4	67.3	70.3	72.1	73.2	73.2	62.1	72.5	71.8	64.83
	22	71.8	70.7	70.2	70.4	71.4	72.8	73.2	71.3	69.0	69.9	69.7	70.23
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	74.0	76.0	76.0	78.0	76.9	75.0	71.0	74.4	69.6	65.3	64.7	70.57
	25	66.1	65.4	64.7	64.7	64.2	68.0	71.0	67.2	65.1	62.6	59.2	58.75
	26	65.6	67.6	66.8	65.9	66.2	67.0	65.4	65.7	64.2	63.1	61.0	61.32
	27	75.2	73.1	74.4	73.5	73.1	75.8	75.8	74.0	74.6	71.8	68.5	69.05
	28	74.4	76.4	77.9	77.0	78.7	79.3	78.7	76.6	75.0	74.2	73.3	71.47
	29	77.5	76.1	76.5	76.6	75.9	76.6	77.5	78.0	78.1	78.0	76.6	74.81
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	75.5	75.2	75.3	76.2	76.5	77.9	78.2	76.9	74.2	72.6	72.8	74.92
Hourly Means	71.06	71.61	72.09	72.26	72.73	73.65	74.34	74.18	72.28	71.25	70.25	69.71	

TEMPERATURE OF THE MAGNET.

	1	2	3	4 ^a	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Hourly Means	
OCTOBER.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	4 ^a	57.6	57.2	57.1	56.7	56.7	56.7	56.7	56.5	56.5	56.7	56.9	57.5	57.55																			
	5	59.1	58.8	59.0	59.0	58.7	58.7	58.7	58.6	58.7	58.7	58.9	59.1	58.96																			
	6	59.7	59.5	59.6	59.5	59.1	58.9	58.7	58.7	59.0	59.5	59.8	59.74																				
	7	61.8	61.7	61.9	61.7	61.7	61.7	61.5	61.4	61.4	61.3	61.6	62.15																				
	8	62.0	61.9	61.9	61.8	61.7	61.7	61.6	61.3	61.2	61.2	61.2	62.03																				
	9	—	—	—	—	—	—	—	—	—	—	—	—																				
	10	58.7	58.6	58.7	58.6	58.4	58.2	58.0	57.7	57.9	57.8	58.0	59.62																				
	11	58.0	57.7	57.8	57.7	57.6	57.1	57.0	57.1	57.3	57.5	57.7	58.15																				
	12	58.1	58.2	58.3	58.0	57.5	57.3	56.9	56.8	56.7	56.7	56.7	58.12																				
	13	56.8	56.8	57.1	56.9	56.8	56.7	56.5	56.5	56.5	56.5	56.5	57.05																				
	14	56.9	56.9	56.9	57.0	56.7	56.7	56.7	56.7	56.7	56.8	57.5	56.95																				
	15	57.7	57.7	57.7	57.7	57.5	57.2	57.2	57.2	57.5	57.8	58.3	58.02																				
	16	—	—	—	—	—	—	—	—	—	—	—	—																				
	17	61.2	60.8	61.2	60.8	60.7	60.5	60.3	60.2	60.6	61.0	61.7	60.52																				
	18	63.2	63.0	63.0	63.0	62.9	62.7	62.7	62.7	62.9	63.1	62.9	63.40																				
	19	64.2	64.1	64.2	64.2	63.7	63.7	63.7	63.6	63.6	63.7	63.8	64.34																				
	20	62.7	62.7	62.7	62.7	62.3	62.1	61.7	61.8	62.9	62.2	62.6	63.06																				
	21	62.1	61.9	61.9	61.6	61.1	60.8	60.7	60.7	60.8	61.1	61.5	62.46																				
	22	61.7	61.7	61.9	61.6	61.3	60.9	61.0	61.0	61.2	61.6	61.7	62.23																				
	23	—	—	—	—	—	—	—	—	—	—	—	—																				
	24	63.6	63.5	63.6	63.4	63.2	63.0	62.7	62.7	62.7	62.7	62.6	63.27																				
	25	62.2	62.0	62.5	62.5	62.3	62.1	62.0	62.1	62.0	62.3	62.6	62.33																				
	26	63.2	63.1	63.4	63.3	63.1	62.9	62.8	62.7	62.7	62.6	62.6	63.32																				
	27	61.7	61.6	61.6	61.3	61.1	60.9	60.7	60.7	60.7	60.7	60.7	61.82																				
	28	60.2	60.0	60.3	60.2	59.9	59.7	59.7	59.7	59.7	59.7	59.7	60.38																				
	29	58.8	58.9	58.8	58.8	58.7	58.7	58.6	58.5	58.5	58.6	58.8	59.16																				
	30	—	—	—	—	—	—	—	—	—	—	—	—																				
	31	60.4	60.2	59.1	59.9	59.7	59.3	59.3	59.6	59.8	60.2	60.7	59.81																				
Hourly Means	60.48	60.35	60.42	60.33	60.10	59.92	59.80	59.77	59.90	60.01	60.24	60.60																					

^a New adjustment.

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah° = .00028.														
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 .	12 ^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.	Sc. Div.	
	1	72.3	72.6	73.5	74.2	74.0	73.0	72.1	71.6	71.1	71.0	72.2	72.7	72.6
	2	71.6	72.3	72.5	72.9	72.6	71.0	71.3	68.3	67.3	70.0	70.0	71.7	70.9
	3	75.0	74.8	74.0	73.8	73.8	73.8	71.6	70.7	70.0	71.6	72.7	73.7	73.8
	4	61.6	59.0	59.0	60.2	58.8	62.5	63.9	64.4	67.3	70.0	70.0	70.8	71.9
	5	67.8	67.2	64.6	67.0	62.7	67.9	68.0	67.4	69.6	68.0	65.8	68.0	68.6
	6	63.9	59.8	62.0	67.6	68.2	67.5	68.8	69.0	67.1	67.8	68.0	73.6	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	72.4
	8	67.0	69.6	70.4	70.4	69.6	69.9	70.6	73.1	71.9	72.7	74.1	74.6	75.6
	9	73.1	74.6	73.8	70.0	69.8	69.4	69.6	70.0	67.2	70.2	69.9	73.0	74.0
	10	70.7	69.1	72.3	72.0	70.6	68.3	66.2	68.0	68.5	70.2	71.8	71.9	72.7
	11	73.7	72.4	69.6	66.0	68.2	64.8	60.2	74.2	65.1	65.9	69.8	69.5	70.0
	12	68.8	66.3	66.9	68.2	66.0	67.7	67.4	69.0	66.5	66.9	68.0	70.0	70.2
	13	71.1	67.9	68.8	70.3	70.7	68.7	68.7	68.7	68.9	68.2	69.0	69.2	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	70.2
	15	72.1	71.8	71.9	72.0	72.3	72.1	71.9	71.6	72.0	72.8	72.9	73.5	74.1
	16	71.3	72.0	72.8	73.8	74.2	74.8	74.0	73.8	74.1	74.9	75.5	75.8	76.0
	17	70.4	72.8	69.6	72.2	74.7	74.0	73.6	73.2	74.7	75.0	75.8	77.2	78.0
	18	75.9	76.0	74.0	73.2	71.5	70.0	67.1	62.8	62.9	62.4	56.3	54.4	62.7
	19	52.2	53.8	56.8	57.0	58.0	60.3	61.7	63.0	66.5	69.5	68.5	66.4	68.0
	20	61.1	67.8	58.5	57.1	57.2	61.2	60.4	63.5	63.1	64.6	68.0	71.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	70.6
	22	67.8	68.0	67.2	60.7	59.8	62.2	59.3	61.5	62.3	62.3	62.8	65.6	66.7
	23	67.0	65.2	64.6	64.2	63.8	62.8	62.0	64.2	64.9	64.9	65.5	67.3	68.2
	24	68.5	68.5	62.0	64.0	64.0	64.2	65.1	65.0	66.0	66.2	66.0	67.0	68.2
	25	72.1	70.0	70.0	69.0	67.7	66.8	65.2	64.2	64.8	66.0	67.2	69.6	70.0
	26	76.2	73.8	72.0	68.1	67.0	67.5	68.0	69.4	68.1	69.1	70.0	71.7	71.8
	27	75.1	73.2	72.2	71.2	71.6	70.0	70.7	71.6	72.2	72.6	73.2	72.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	73.1
	29	72.6	72.6	72.7	72.2	71.8	71.1	70.8	69.9	69.4	69.9	70.7	72.0	72.8
30	74.0	73.2	73.2	73.8	73.5	74.2	73.4	73.0	73.2	73.8	74.4	75.0	75.9	
Hourly Means	69.73	69.40	68.65	68.50	68.16	68.30	67.75	68.50	68.26	69.10	69.50	70.71	71.50	
TEMPERATURE OF THE MAGNET.														
NOVEMBER.	°	°	°	°	°	°	°	°	°	°	°	°	°	
	1	61.3	61.6	62.1	62.6	62.9	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7
	2	63.5	63.6	63.7	63.9	64.1	64.2	64.1	64.1	63.9	63.8	63.7	63.7	63.5
	3	63.1	63.2	63.5	63.7	63.8	64.1	64.2	64.2	64.1	63.8	62.7	63.3	62.9
	4	61.9	61.9	62.4	62.5	62.6	62.9	62.8	62.8	62.7	62.6	62.2	61.9	61.7
	5	61.4	61.7	61.9	62.1	62.4	62.5	62.5	62.5	62.4	62.2	62.0	61.9	61.9
	6	61.7	62.1	62.4	62.6	62.7	62.6	62.7	62.7	62.6	62.5	62.5	62.6	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	61.2
	8	60.7	61.2	61.5	61.5	61.7	61.6	61.5	61.2	61.1	60.9	60.7	60.7	60.5
	9	61.5	61.8	62.2	62.6	62.9	62.9	63.0	62.8	62.7	63.7	62.6	62.5	62.2
	10	63.5	63.9	64.2	64.8	65.1	65.5	65.7	65.6	65.5	65.2	64.8	64.7	64.3
	11	64.7	65.1	65.7	66.1	66.7	66.9	67.0	66.9	66.5	66.5	66.4	66.2	65.8
	12	65.9	66.2	66.5	66.9	67.3	67.5	67.7	67.7	67.7	67.5	67.2	66.9	66.7
	13	65.8	66.3	66.6	66.9	67.1	67.0	67.0	66.7	66.6	66.0	65.7	65.7	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	64.1
	15	64.0	64.1	64.2	64.3	64.4	64.2	64.2	64.1	63.8	63.7	63.6	63.3	63.0
	16	63.0	63.1	63.1	63.2	63.2	63.4	63.3	63.3	63.1	63.2	62.8	62.8	62.7
	17	62.7	62.9	63.1	63.2	63.3	63.5	63.4	63.4	63.0	62.7	62.7	62.6	62.4
	18	62.9	63.3	63.7	64.1	64.4	64.7	64.7	64.7	64.6	64.5	64.2	64.0	64.0
	19	62.9	63.3	63.7	63.7	63.9	63.7	63.7	63.7	63.5	63.3	63.1	62.9	62.7
	20	63.7	64.2	64.7	65.0	65.4	65.6	65.5	65.5	65.2	64.7	64.3	64.7	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	64.9
	22	66.7	67.1	67.7	67.8	68.1	68.1	68.2	67.7	67.5	67.4	67.2	66.9	66.7
	23	67.5	67.7	68.2	68.6	68.7	68.9	68.9	68.7	68.3	67.9	67.7	67.5	67.2
	24	67.7	68.1	68.4	68.6	68.7	68.7	68.7	68.7	68.6	68.5	68.3	67.7	67.6
	25	67.8	68.5	69.1	69.5	69.9	70.0	70.0	69.9	69.7	69.5	69.0	68.9	68.7
	26	67.2	67.3	67.5	67.7	67.7	67.6	67.4	67.2	66.9	66.7	66.6	66.6	66.6
	27	65.3	65.5	65.5	65.5	65.5	65.4	65.4	65.3	65.4	65.2	65.0	64.7	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	65.7
	29	66.9	67.5	68.0	68.4	68.7	68.9	68.9	68.8	68.5	68.4	68.0	67.8	67.7
30	66.1	66.0	66.1	66.1	66.6	66.6	66.7	66.5	66.1	66.0	65.8	65.5	64.9	
Hourly Means	64.21	64.51	64.84	65.07	65.30	65.40	65.42	65.32	65.14	65.00	64.71	64.60	64.36	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00028.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
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	75.0	75.0	74.0	75.0	75.7	76.9	77.9	77.7	76.0	72.2	71.1	73.73
	2	71.7	72.3	72.1	72.5	73.2	75.0	75.0	73.4	73.1	73.5	74.7	72.04
	3	74.8	80.2	73.8	85.3	82.7	73.1	80.6	87.1	87.2	82.5	69.8	76.10
	4	72.7	73.0	73.1	75.1	75.3	76.3	76.9	75.1	72.0	68.4	70.3	68.65
	5	69.9	70.2	70.3	70.5	71.0	71.0	71.1	73.3	72.6	71.8	70.9	68.97
	6	—	—	—	—	—	—	—	—	—	—	—	70.13
	7	72.0	71.6	71.7	72.7	73.6	74.7	75.7	76.1	75.7	74.5	69.0	
	8	75.3	76.4	75.5	74.4	75.3	76.5	77.0	80.0	77.7	74.1	71.0	73.45
	9	76.1	77.6	76.6	76.1	75.9	78.0	79.4	79.0	75.0	73.1	72.6	73.50
	10	71.6	73.5	74.1	73.9	75.2	76.1	76.0	74.5	72.1	71.5	73.0	71.82
	11	70.5	71.1	72.6	72.6	74.0	74.8	72.1	73.1	71.7	69.1	68.3	69.97
	12	69.4	70.5	70.3	71.3	72.6	74.8	77.0	75.7	72.9	72.5	72.0	70.04
	13	—	—	—	—	—	—	—	—	—	—	—	71.63
	14	72.1	72.5	72.5	72.9	75.0	78.0	78.9	77.0	74.9	73.0	72.0	
	15	76.2	75.5	74.8	75.2	76.6	77.7	79.5	77.1	74.8	71.8	70.7	73.79
	16	77.1	77.3	78.0	78.0	80.2	83.4	85.0	85.0	83.2	80.0	78.0	77.01
	17	79.1	80.8	80.6	83.2	83.0	83.2	86.4	84.0	80.8	77.9	77.5	77.40
	18	62.0	66.2	67.4	68.0	71.8	67.0	63.0	59.9	59.3	58.7	57.0	65.40
	19	78.2	74.4	73.8	72.7	73.2	73.4	74.3	74.5	69.0	64.9	60.8	66.29
	20	—	—	—	—	—	—	—	—	—	—	—	67.40
	21	72.0	71.8	71.5	71.2	72.0	73.5	75.6	73.3	73.0	71.1	68.1	
	22	67.0	68.0	68.6	69.0	70.2	71.9	72.1	70.8	68.6	68.0	66.1	66.10
	23	69.5	70.6	70.0	71.7	73.1	74.0	73.5	71.8	70.8	68.0	68.6	67.76
	24	68.5	71.0	71.3	72.3	75.3	77.0	74.6	73.7	74.0	74.4	74.9	69.24
	25	70.5	70.0	70.8	71.2	73.1	75.0	74.7	72.1	73.1	74.7	75.8	70.15
	26	73.0	74.0	74.9	75.3	75.7	77.0	78.2	78.2	78.9	79.1	77.4	73.10
	27	—	—	—	—	—	—	—	—	—	—	—	73.18
	28	73.6	73.1	73.9	74.0	75.6	76.9	76.2	75.3	74.3	72.0	71.8	
	29	73.5	74.1	74.9	74.9	76.3	78.2	78.8	78.2	77.6	76.0	75.0	73.58
30	77.2	77.0	77.7	79.0	79.6	81.6	82.2	83.0	83.0	83.2	82.6	76.95	
Hourly Means	72.63	73.40	73.26	74.15	75.20	75.96	76.60	76.11	74.67	72.92	71.50	71.44	

TEMPERATURE OF THE MAGNET.

	°	c	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	63.5	63.3	63.6	63.6	63.3	63.0	62.9	62.9	62.9	63.2	63.2	63.14
	2	63.5	62.2	63.5	63.3	63.2	62.8	62.7	62.7	62.8	62.7	62.9	63.40
	3	62.7	62.5	63.7	62.2	62.2	61.9	61.7	61.7	61.7	61.7	61.8	62.93
	4	61.6	61.2	61.2	60.9	60.7	60.5	60.5	60.5	60.7	60.8	61.2	61.70
	5	61.8	61.7	61.9	61.7	61.7	61.5	61.5	61.4	61.4	61.5	61.5	61.88
	6	—	—	—	—	—	—	—	—	—	—	—	61.72
	7	61.2	61.2	61.5	61.3	61.0	60.9	60.7	60.7	60.6	60.6	60.6	
	8	60.5	60.5	60.5	60.0	60.2	60.0	59.9	60.1	60.1	60.6	61.0	60.76
	9	62.2	62.2	62.3	62.3	62.1	61.9	61.8	62.0	62.2	62.7	63.0	62.42
	10	64.0	63.7	63.7	63.7	63.1	63.0	62.9	63.2	63.5	63.8	64.3	64.24
	11	65.7	65.4	66.5	65.1	64.8	64.7	64.6	64.7	65.0	65.3	65.7	65.75
	12	66.5	66.1	66.0	65.5	65.0	64.7	64.7	64.7	64.9	65.3	65.7	66.28
	13	—	—	—	—	—	—	—	—	—	—	—	65.08
	14	64.1	64.0	64.2	63.1	63.8	63.6	63.5	63.5	63.4	63.6	63.7	
	15	62.7	62.7	62.9	62.7	62.4	62.2	62.2	62.3	62.4	62.6	62.8	63.28
	16	62.4	62.2	62.4	62.0	62.0	61.8	61.7	61.8	61.9	62.2	62.6	62.63
	17	62.3	62.1	62.5	62.1	62.0	62.0	61.9	62.0	62.1	62.3	62.6	62.62
	18	63.7	63.6	63.8	63.5	62.9	62.7	62.6	62.6	62.6	62.7	62.7	63.63
	19	62.7	62.5	62.6	62.5	62.4	62.3	62.3	62.5	62.4	62.9	63.3	63.02
	20	—	—	—	—	—	—	—	—	—	—	—	65.02
	21	64.8	64.9	65.3	65.3	65.0	64.8	64.9	65.1	65.2	65.7	66.1	
	22	66.5	66.2	66.5	66.0	65.9	65.8	65.8	66.0	66.0	66.5	66.8	66.88
	23	66.8	66.7	66.8	66.7	66.4	66.3	66.3	66.4	66.6	66.8	67.3	67.45
	24	67.5	67.4	67.4	67.1	66.7	66.6	66.6	66.7	66.7	66.9	67.6	67.73
	25	68.3	67.9	67.9	67.7	67.4	67.1	66.9	67.0	66.9	66.9	67.0	68.40
	26	66.5	66.2	66.1	66.0	65.7	65.4	65.1	64.9	65.0	65.0	65.1	66.42
	27	—	—	—	—	—	—	—	—	—	—	—	65.48
	28	65.6	65.4	65.5	65.5	65.1	65.1	65.7	65.3	66.5	66.0	66.5	
	29	67.4	66.9	67.0	66.7	66.5	66.2	66.2	66.0	66.0	66.1	66.0	67.40
	30	64.7	64.6	64.7	64.5	63.9	63.9	63.1	63.7	63.7	63.9	64.3	65.17
Hourly Means	64.20	63.97	64.23	63.88	63.67	63.49	63.41	63.48	63.58	63.78	64.05	64.40	

HORIZONTAL FORCE.														
One Scale Division = 00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00028.														
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 .	12 ^h .	
DECEMBER.	1	79.9	79.4	79.0	79.7	81.2	80.9	80.0	78.7	75.0	73.6	74.1	77.2	76.9
	2	72.3	72.6	72.0	72.1	70.0	71.0	69.6	68.9	70.5	72.0	73.1	73.8	75.1
	3	69.4	69.0	61.0	49.0	56.6	54.1	53.1	61.2	59.8	60.8	64.0	68.2	69.0
	4	64.2	60.8	65.1	67.0	63.8	60.2	63.2	64.8	66.8	66.5	67.8	72.0	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	70.5
	6	73.0	74.0	72.0	72.0	69.8	70.0	72.8	73.1	73.5	73.7	72.8	73.4	73.2
	7	71.0	73.1	75.8	75.4	73.0	73.8	74.4	74.5	75.7	75.6	78.0	80.8	80.8
	8	74.7	74.8	68.2	61.2	57.8	54.1	53.0	55.8	57.7	62.0	66.0	70.2	73.0
	9	77.6	75.9	73.2	71.3	70.0	68.5	65.7	66.8	67.2	67.3	69.5	71.7	72.0
	10	71.3	70.0	61.2	65.3	70.0	69.6	69.5	69.4	67.4	67.2	67.2	69.0	70.3
	11	73.1	75.0	74.8	73.9	73.2	72.8	71.1	70.7	70.5	71.2	71.7	72.4	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	76.0
	13	74.1	76.4	75.7	74.7	74.8	74.0	71.5	70.2	70.1	71.1	73.2	74.7	75.8
	14	78.1	79.2	76.0	76.0	75.7	72.1	70.3	66.7	62.4	59.6	68.6	68.8	80.0
	15	67.4	67.0	68.2	68.8	70.0	68.7	67.0	66.9	67.2	67.6	67.6	69.8	69.6
	16	65.6	66.3	69.0	68.3	67.6	68.2	68.0	67.2	66.8	66.8	73.8	69.1	70.8
	17	74.3	71.1	65.3	70.0	74.5	72.0	72.8	74.8	72.8	72.2	73.3	78.6	81.8
	18	77.2	77.1	76.4	75.2	74.4	73.0	72.1	72.2	72.2	71.8	72.0	71.9	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	68.8
	20	70.3	69.4	68.9	69.4	69.5	69.8	69.3	68.5	67.7	69.7	69.7	72.2	71.2
	21	74.5	74.0	72.2	70.0	69.5	69.4	69.5	69.0	69.8	70.6	71.1	72.0	72.7
	22	79.4	77.9	74.1	71.7	71.0	77.0	69.5	68.2	72.2	71.0	71.9	70.6	73.8
	23	75.6	72.8	72.7	72.3	72.0	72.9	72.2	71.8	72.2	73.6	73.0	72.8	73.0
	24	80.1	77.5	74.7	74.5	73.2	69.0	69.8	71.2	73.7	74.2	74.6	74.4	78.8
	25	82.1	80.5	79.6	77.9	76.0	74.4	72.7	71.0	71.0	75.0	74.4	74.2	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	74.8
	27	78.8	76.0	74.0	73.1	72.4	71.0	70.0	68.2	67.6	68.1	69.8	70.0	71.2
	28	73.3	69.7	67.9	68.9	69.8	68.7	66.8	67.0	67.1	67.8	68.2	68.8	69.7
	29	76.2	74.7	73.0	73.3	73.2	73.1	72.9	73.0	73.0	73.6	74.2	75.2	75.8
	30	84.9	81.5	72.3	69.2	73.0	66.5	51.5	55.0	52.0	63.1	63.6	66.2	68.1
	31	75.2	72.1	71.3	71.2	71.0	68.8	65.5	66.0	67.4	69.2	73.0	72.7	71.8
Hourly Means	74.58	73.62	71.61	70.79	70.85	69.76	68.29	68.55	68.49	69.44	70.97	72.25	73.50	
TEMPERATURE OF THE MAGNET.														
DECEMBER.	1	64.6	64.9	65.4	65.7	65.7	65.7	65.7	64.9	65.3	64.9	64.7	64.7	64.5
	2	66.0	66.7	67.4	67.8	68.3	68.7	68.9	68.7	68.6	68.2	67.7	67.5	67.0
	3	67.7	68.5	69.0	69.1	69.1	69.0	68.9	68.7	68.5	68.1	67.7	67.7	67.1
	4	67.7	68.0	68.3	68.5	68.5	68.7	68.7	68.0	67.8	67.1	66.8	66.6	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	67.3
	6	65.9	65.7	65.7	65.8	65.7	65.6	65.5	65.2	65.0	64.9	64.8	64.5	64.3
	7	64.1	64.6	64.7	64.9	64.9	64.7	64.7	64.5	64.3	64.0	63.9	64.0	63.7
	8	64.3	64.8	65.0	65.5	65.7	65.9	65.8	65.7	65.6	65.0	64.7	64.5	63.9
	9	64.3	64.7	65.4	65.7	65.9	66.5	66.7	66.7	66.4	65.8	65.7	65.2	64.9
	10	65.7	66.1	66.7	66.9	67.1	67.9	67.7	67.8	67.6	67.5	67.2	66.9	66.6
	11	66.5	66.7	67.1	67.3	67.6	67.6	67.7	67.6	67.1	66.8	66.7	66.2	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	64.8
	13	65.6	65.9	66.2	66.6	66.8	66.8	66.9	66.8	66.7	66.7	66.4	66.3	66.1
	14	65.3	65.7	65.9	66.4	66.5	66.7	66.6	66.5	66.2	65.8	65.6	65.0	65.0
	15	66.7	67.5	68.2	68.8	69.6	69.7	70.0	69.8	69.2	69.0	68.8	68.7	68.1
	16	67.2	67.4	67.5	67.5	67.3	67.5	67.2	66.9	66.5	66.0	65.8	65.7	65.1
	17	64.5	64.7	64.8	65.2	65.2	65.2	64.9	64.7	64.4	64.3	64.1	63.7	63.7
	18	64.4	64.9	65.7	66.3	65.7	66.7	67.0	66.7	66.7	66.4	66.2	66.0	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	67.9
	20	68.2	68.5	68.7	68.8	68.8	69.2	69.2	68.9	68.7	68.3	68.0	67.7	67.5
	21	68.3	68.7	68.9	69.3	69.6	69.5	69.5	69.1	68.7	68.6	68.3	68.0	67.7
	22	68.6	69.1	69.3	69.7	69.7	70.0	70.0	69.7	69.5	69.2	68.8	68.7	69.0
	23	67.2	67.2	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.5	67.0
	24	65.6	65.6	65.9	66.0	66.0	66.0	66.0	66.0	65.9	65.7	65.5	65.3	65.0
	25	65.1	65.5	65.7	66.1	66.5	66.7	66.7	66.7	66.6	66.2	65.9	65.7	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	66.9
	27	67.9	68.6	69.3	70.0	70.5	70.9	71.5	71.5	71.4	71.1	69.7	69.5	69.4
	28	70.6	71.2	71.7	72.1	72.5	72.7	72.7	72.7	71.8	71.7	71.5	71.4	71.0
	29	68.9	69.0	69.1	69.2	69.4	69.1	69.4	69.0	68.7	68.7	68.4	67.9	67.7
	30	68.2	68.4	68.7	68.8	68.9	69.2	69.2	68.9	68.7	68.5	68.1	67.9	67.8
	31	67.5	67.7	68.1	68.5	69.0	69.5	69.7	69.7	69.7	69.0	68.7	68.2	67.7
Hourly Means	66.54	66.90	67.26	67.56	67.71	67.90	67.94	67.74	67.53	67.23	66.94	66.70	66.54	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
DECEMBER.	1	74.8	76.2	77.5	78.9	79.3	79.2	78.7	78.9	77.0	75.6	72.8	77.69
	2	79.8	75.5	75.2	75.6	78.5	79.0	80.0	83.1	78.9	73.0	65.9	74.06
	3	68.8	66.9	68.5	68.9	71.5	72.9	73.4	72.3	71.2	68.7	66.5	65.20
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	70.7	70.7	71.6	72.0	73.0	74.9	77.0	76.8	74.6	72.8	72.8	69.15
	6	76.8	76.3	76.5	76.6	78.3	79.4	81.1	60.8	79.0	75.8	73.8	74.07
	7	78.5	78.3	78.6	78.0	80.3	81.0	82.8	85.8	85.5	82.5	80.7	78.08
	8	74.7	75.6	78.3	78.5	78.4	78.2	77.6	76.7	77.7	77.6	77.6	69.98
	9	73.0	73.9	74.5	74.2	76.4	78.6	76.5	77.0	73.7	70.5	69.5	72.27
	10	71.1	70.4	71.0	72.0	74.5	76.7	76.6	76.2	76.0	73.4	73.1	70.77
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	75.2	76.7	77.3	78.4	81.4	83.5	86.0	84.7	82.0	78.6	75.9	76.09
	13	76.9	76.5	78.2	79.8	80.7	82.4	84.2	84.8	83.4	81.0	77.8	76.75
	14	70.9	72.0	72.2	74.1	74.9	76.7	77.5	76.5	75.5	70.7	69.0	72.65
	15	68.7	69.5	70.8	71.0	72.5	75.6	77.5	76.7	73.9	70.4	67.7	70.00
	16	71.4	71.0	73.6	73.9	76.4	78.7	80.5	78.5	75.9	76.2	75.8	71.64
	17	77.2	77.3	77.2	77.8	78.5	80.3	82.0	83.0	81.0	78.3	76.1	75.93
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	73.8	70.2	72.7	73.0	74.0	74.0	74.7	74.0	73.0	72.7	72.4	73.28
	20	71.0	71.9	74.8	73.4	74.6	76.0	76.6	76.5	75.3	77.7	74.9	72.01
	21	73.0	73.3	74.2	75.2	76.6	77.9	79.2	79.0	79.7	78.9	79.6	73.79
	22	73.8	72.7	74.2	75.2	76.4	76.8	77.9	80.0	82.7	79.0	77.1	74.75
	23	78.5	80.8	80.0	82.6	81.0	85.2	85.5	83.8	78.8	78.0	81.0	76.75
	24	77.6	78.5	78.5	78.1	80.8	80.9	80.7	80.5	80.0	77.3	80.9	76.65
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	75.6	77.5	76.7	76.9	78.0	79.5	82.0	81.1	81.2	80.0	78.8	77.12
	27	71.5	72.1	72.1	73.0	75.2	76.6	77.6	78.4	78.3	77.0	75.8	73.24
	28	—	71.3	71.7	73.0	75.1	76.8	77.6	79.1	78.0	76.5	74.7	71.63
	29	76.6	77.0	78.6	78.4	81.1	85.5	88.0	89.5	84.8	82.2	82.6	77.73
	30	68.5	66.3	67.1	69.0	70.0	70.2	72.1	72.7	74.0	72.9	73.4	68.46
	31	71.8	71.8	72.8	74.9	76.2	79.3	79.3	80.8	79.9	74.2	70.3	72.77
Hourly Means	73.85	73.71	74.61	75.27	76.80	78.36	79.36	78.79	78.19	75.98	74.69	73.43	

TEMPERATURE OF THE MAGNET.

DECEMBER.	1	64.4	64.1	64.3	64.2	63.7	63.7	63.7	63.9	64.3	64.8	65.5	64.72
	2	66.7	66.5	66.5	66.2	65.8	65.7	65.8	66.0	66.2	66.7	67.2	67.12
	3	67.0	66.7	66.7	66.5	66.1	66.0	66.0	66.2	66.2	66.7	67.2	67.52
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	66.9	66.7	66.9	66.7	66.6	66.2	66.0	65.8	65.9	65.9	65.9	67.15
	6	64.7	64.0	64.0	63.8	63.7	63.5	63.5	63.3	63.6	63.7	63.9	64.60
	7	63.7	63.7	63.7	63.7	63.5	63.2	63.2	63.2	63.3	63.5	63.7	63.98
	8	63.8	63.8	63.8	63.7	63.0	62.9	62.8	62.9	63.0	63.5	63.7	64.30
	9	64.7	64.6	64.5	64.0	64.0	63.9	63.9	64.1	64.4	64.7	65.2	65.08
	10	66.2	65.7	65.9	65.7	65.5	65.3	65.1	65.0	65.4	65.7	66.1	66.39
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	64.7	64.7	64.9	64.5	64.3	64.1	64.1	64.3	64.7	64.9	65.3	65.84
	13	65.8	65.4	65.5	65.1	64.6	64.4	64.3	64.4	64.5	64.7	64.9	65.73
	14	64.7	64.6	64.7	64.2	63.9	63.8	63.9	64.2	64.6	65.1	65.7	65.28
	15	67.9	67.7	67.6	67.0	66.7	66.5	66.4	66.4	66.3	66.6	67.0	67.93
	16	64.9	64.7	64.7	64.5	63.8	63.7	63.7	63.7	63.1	63.9	64.1	65.52
	17	63.5	63.2	63.3	63.0	62.7	62.5	62.6	62.7	62.8	63.3	63.7	63.86
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	67.7	67.5	67.5	67.3	67.0	66.8	67.0	67.1	67.1	67.6	67.9	66.71
	20	67.5	67.4	67.5	67.3	66.9	66.8	66.9	67.0	67.1	67.5	67.9	67.93
	21	67.5	67.5	67.5	67.1	67.4	66.9	66.9	67.1	67.2	67.6	68.0	68.12
	22	68.8	68.7	68.6	68.3	68.1	67.8	67.5	67.5	67.1	66.9	66.9	68.65
	23	66.7	66.7	66.7	66.4	66.0	65.6	65.4	65.2	65.1	65.4	65.5	66.78
	24	64.8	64.8	64.7	64.6	64.5	64.3	64.2	64.2	64.2	64.4	64.7	65.16
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	66.5	66.5	66.5	65.2	66.2	66.0	66.0	66.2	66.7	66.9	67.5	66.27
	27	69.3	68.9	69.0	68.8	68.7	68.5	68.5	68.6	68.8	69.4	69.9	69.57
	28	—	70.0	70.0	69.7	68.9	68.8	68.7	68.6	68.7	68.7	68.7	70.63
	29	67.5	67.3	67.4	67.0	66.8	66.7	66.7	66.8	67.0	67.5	67.8	68.04
	30	67.7	67.6	67.6	67.5	67.5	67.1	67.0	66.9	66.9	66.9	67.1	67.98
	31	67.4	66.9	67.1	66.7	66.4	66.2	66.2	66.2	66.5	66.5	66.7	67.73
Hourly Means	66.19	66.14	66.19	65.88	65.64	65.44	65.41	65.46	65.58	65.89	66.21	66.61	

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00029.														
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 .	12 ^h .	
JANUARY.	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.	
	1	68·9	61·0	63·9	68·0	63·8	59·8	66·0	64·0	61·3	68·0	72·1	71·0	
	2	—	—	—	—	—	—	—	—	—	—	—	—	72·6
	3	69·0	69·0	69·2	68·8	71·5	72·0	71·6	72·8	74·0	71·8	69·6	71·1	73·3
	4	80·0	77·3	74·5	76·0	76·2	75·0	72·9	71·4	72·1	73·2	74·7	74·1	75·2
	5	79·6	78·8	78·4	76·0	73·7	72·8	72·1	71·4	71·1	70·2	69·8	69·0	72·1
	6	76·2	73·4	73·0	72·8	70·9	69·3	69·0	68·6	70·0	72·8	72·8	73·1	73·3
	7	76·0	73·0	70·0	68·6	69·0	69·4	67·5	68·2	68·8	69·0	70·0	73·0	71·5
	8	74·8	73·4	73·0	72·0	71·1	70·2	70·0	69·1	70·0	71·5	72·8	73·1	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	75·3
	10	73·3	72·8	73·0	72·3	70·9	70·0	69·7	71·7	72·3	73·0	74·5	74·1	74·2
	11	73·4	72·5	72·7	68·5	68·0	67·2	68·0	69·1	69·3	69·0	70·0	69·0	69·0
	12	66·0	64·8	64·6	64·9	65·9	65·7	65·5	64·9	64·0	64·9	64·9	65·8	67·0
	13	65·0	65·2	66·1	67·7	66·7	65·0	65·5	65·2	65·2	66·0	66·8	67·9	69·4
	14	68·9	67·6	68·0	68·0	68·0	68·7	68·5	67·8	68·0	68·2	69·6	69·2	70·2
	15	68·9	71·9	71·0	68·8	68·3	69·1	65·0	70·9	72·2	72·0	72·5	74·8	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	70·6
	17	66·9	67·7	68·9	68·8	67·8	67·1	66·0	65·5	65·2	66·6	66·4	67·7	68·2
	18	73·9	68·5	72·0	71·0	66·1	64·0	59·5	59·5	61·0	62·4	64·0	65·6	71·9
	19	65·4	66·1	67·2	67·6	68·2	66·9	66·8	67·0	66·8	67·8	67·3	66·8	69·8
	20	70·5	69·6	70·6	72·7	73·5	73·2	72·9	72·0	71·8	71·9	71·8	73·1	74·1
	21	78·0	76·1	74·2	75·9	75·8	73·5	73·7	73·5	74·0	75·2	78·0	81·1	77·0
	22	80·5	77·9	76·2	76·0	75·2	74·0	73·0	73·1	73·0	73·6	74·6	73·8	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	71·4
	24	82·0	82·8	80·8	79·0	76·3	74·1	76·5	77·0	76·9	75·2	70·3	69·6	76·7
	25	76·0	72·1	72·9	71·5	70·2	71·3	72·3	72·0	74·2	75·0	75·2	74·0	75·0
	26	80·0	79·0	78·9	79·1	78·8	76·9	74·6	74·0	73·0	73·2	74·0	74·7	75·8
	27	74·9	74·9	75·0	75·7	75·9	74·9	73·0	73·1	72·3	70·8	72·4	71·8	73·0
	28	78·0	77·4	76·8	77·1	77·8	78·0	76·0	74·1	73·2	73·7	73·7	73·3	72·2
	29	73·5	72·8	72·0	72·0	72·7	71·5	69·7	70·2	71·0	71·8	71·3	72·3	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	74·0
31	70·4	71·1	71·7	73·0	73·8	73·8	71·8	71·6	72·3	72·0	73·5	73·5	75·0	
Hourly Means	73·47	72·18	72·10	71·99	71·39	70·52	69·89	69·91	70·12	70·72	71·25	71·63	72·61	
TEMPERATURE OF THE MAGNET.														
JANUARY.	1	67·0	67·5	67·5	67·7	67·8	67·7	67·9	67·6	67·2	67·1	66·8	66·7	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	68·4
	3	68·4	68·7	68·9	69·2	69·5	69·5	69·5	68·8	68·7	68·2	67·8	67·6	67·1
	4	66·7	67·2	67·6	68·1	68·2	68·4	68·6	68·4	67·8	67·5	67·4	67·3	67·4
	5	68·9	69·5	70·0	70·5	70·9	70·7	70·7	70·7	70·6	70·5	69·9	69·7	69·2
	6	69·1	69·5	69·7	70·0	70·1	70·2	70·0	69·8	69·5	68·9	68·7	68·2	67·8
	7	68·7	69·2	69·6	69·9	70·4	70·7	70·8	70·8	70·7	70·7	70·3	69·9	69·7
	8	70·4	70·7	71·1	71·5	71·7	71·8	71·7	70·7	69·7	69·5	69·1	68·8	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	68·3
	10	69·8	70·4	70·7	71·4	71·6	71·7	71·7	71·5	71·1	70·7	70·4	70·1	70·1
	11	70·7	71·3	71·7	71·9	72·2	72·0	72·0	72·2	71·9	71·9	71·7	71·7	71·7
	12	73·2	73·7	75·5	74·8	75·5	75·9	76·2	76·5	76·4	76·5	75·7	75·0	74·2
	13	73·7	73·7	73·8	73·9	73·9	74·2	74·0	73·7	73·4	73·1	72·7	72·6	72·1
	14	72·7	73·0	73·8	74·2	74·4	74·4	74·4	74·1	73·7	73·5	73·2	72·8	72·8
	15	73·4	73·7	73·9	74·3	74·3	73·9	73·6	72·9	72·6	71·9	71·7	71·2	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	70·8
	17	72·5	73·1	73·7	74·0	74·7	74·9	74·4	74·9	74·3	74·7	74·2	74·7	73·7
	18	73·5	73·8	74·4	74·5	74·7	74·7	74·7	74·6	74·5	73·8	73·6	73·0	72·9
	19	72·2	72·5	72·7	72·8	72·9	72·9	72·9	72·9	72·7	72·5	72·2	71·8	71·7
	20	70·2	70·5	70·7	70·8	70·9	71·0	70·9	70·9	70·7	70·2	70·2	69·7	68·9
	21	68·0	68·3	68·3	68·7	68·8	68·9	69·1	69·0	68·7	68·5	68·1	67·7	67·6
	22	68·0	68·6	69·2	69·7	70·3	70·7	70·9	71·0	70·7	70·7	70·2	69·9	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	70·7
	24	69·2	69·2	68·9	68·9	68·8	68·8	68·7	68·6	68·4	68·2	68·2	67·9	67·8
	25	68·2	68·5	68·8	68·9	69·1	69·3	69·5	69·5	69·3	68·7	68·6	68·0	68·0
	26	68·9	69·7	69·9	70·6	70·7	71·0	71·0	71·0	70·8	70·7	70·3	69·8	69·8
	27	70·4	70·7	70·9	71·0	71·2	71·0	71·2	70·9	70·7	70·5	70·3	70·1	69·8
	28	71·6	72·2	72·7	72·8	73·0	73·4	73·4	73·0	72·7	72·6	72·3	72·0	71·7
	29	72·5	72·9	73·5	73·8	74·1	74·1	74·0	73·8	73·4	73·0	72·7	72·5	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	71·2
	31	72·6	73·0	73·5	73·8	73·9	74·1	74·0	73·7	73·1	72·7	72·4	71·9	71·7
Hourly Means	70·40	70·81	71·19	71·45	71·68	71·77	71·76	71·60	71·28	71·03	70·72	70·41	70·20	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00029.

Mean Göttingen Time.	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.																				
JANUARY.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Hourly Means
	—	72.7	74.0	76.7	73.6	76.6	72.5	—	76.0	76.1	69.0	67.2	70.0	70.8	—	71.1	70.2	69.2	71.2	74.7	74.8	—	71.9	78.2	76.2	76.2	74.9	72.5	—	74.8	75.2	73.32
	—	73.1	74.4	76.0	75.2	76.0	72.8	—	76.7	76.1	72.2	67.3	71.2	72.3	—	71.3	71.9	72.9	71.0	75.4	76.2	—	73.0	78.0	77.8	77.0	75.1	75.2	—	75.0	75.1	74.16
	—	73.9	75.4	77.2	75.1	77.1	72.8	—	76.0	76.4	72.0	68.3	72.1	72.0	—	72.2	71.8	72.5	71.0	75.8	76.6	—	72.5	79.3	77.4	78.0	75.2	76.2	—	75.6	79.7	74.70
	—	74.2	75.3	77.5	75.0	78.3	72.5	—	76.0	76.0	72.0	68.9	72.1	72.2	—	73.0	73.1	72.0	71.2	77.2	77.8	—	73.8	79.2	77.4	78.0	76.2	75.9	—	75.8	80.7	75.02
	—	76.0	76.3	77.2	76.1	79.4	73.7	—	77.3	78.0	72.8	70.0	73.2	72.6	—	74.0	75.4	72.7	72.9	78.5	80.5	—	75.0	79.6	77.4	78.0	78.2	77.8	—	77.2	82.8	76.28
	—	77.5	77.7	79.6	77.0	78.3	74.8	—	78.2	79.1	73.5	70.2	74.5	75.0	—	75.7	76.4	74.4	74.5	81.2	82.2	—	75.0	79.6	79.4	79.4	79.3	79.3	—	79.6	80.8	77.41
	—	78.8	79.5	82.5	78.0	78.5	75.0	—	78.8	78.8	74.3	70.6	74.5	76.2	—	74.8	77.6	74.2	74.5	82.7	82.7	—	77.5	80.8	79.3	78.5	77.9	79.2	—	80.2	82.2	78.03
	—	77.8	80.7	83.1	79.0	79.8	76.0	—	79.8	78.8	75.0	71.4	73.6	75.8	—	73.8	81.2	73.4	76.4	83.0	83.3	—	78.9	79.1	80.6	78.0	78.8	78.0	—	78.7	79.4	78.21
	—	75.3	80.0	81.2	79.0	78.0	76.3	—	80.1	77.8	74.0	70.7	73.6	75.1	—	73.7	76.5	73.4	75.4	81.5	82.1	—	77.0	76.8	81.3	75.8	78.7	75.9	—	76.8	75.9	76.77
	—	72.8	80.6	81.9	77.5	78.0	75.8	—	77.0	73.8	69.6	66.0	71.2	71.6	—	70.7	74.1	68.9	75.4	80.6	81.5	—	68.7	76.0	82.2	73.2	78.6	73.7	—	73.0	70.6	74.92
	—	70.0	79.8	82.1	77.0	77.1	75.4	—	74.0	73.1	68.8	65.0	69.9	68.2	—	67.5	74.5	65.8	75.0	78.4	81.3	—	80.0	76.8	81.1	72.8	80.0	73.8	—	70.4	70.1	74.11
	—	74.0	76.98	74.90	74.68	72.15	74.43	—	74.40	70.79	66.85	69.01	70.52	71.41	—	70.65	68.40	70.06	75.28	77.71	—	—	75.17	77.56	75.93	76.52	75.44	75.77	—	73.83	74.83	73.36

TEMPERATURE OF THE MAGNET.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Hourly Means
JANUARY.	—	68.2	67.0	67.2	69.0	67.7	69.5	—	68.2	69.9	71.7	74.0	71.7	72.5	—	70.8	73.2	72.9	71.6	68.7	67.2	—	70.7	67.8	67.8	69.3	69.7	71.5	—	71.2	71.5	70.02
	—	67.7	66.5	67.2	68.7	67.4	69.0	—	68.2	69.7	71.5	73.9	71.7	72.4	—	70.8	73.0	72.9	71.5	67.4	69.0	—	70.8	67.6	67.6	69.0	69.7	71.2	—	71.2	71.4	69.84
	—	67.7	66.5	67.5	68.7	67.5	69.5	—	68.3	69.9	71.6	74.7	71.7	72.5	—	70.9	72.9	73.0	71.6	67.5	69.5	—	70.9	67.4	67.4	69.5	69.7	71.6	—	71.4	71.3	69.97
	—	67.7	66.1	67.5	68.7	67.2	69.2	—	68.2	69.7	71.7	73.2	71.4	71.9	—	70.8	72.7	72.8	71.3	67.8	69.1	—	70.8	67.5	67.5	70.3	69.7	71.0	—	71.1	71.1	69.76
	—	67.4	65.7	66.9	68.6	66.8	68.9	—	67.0	69.5	71.7	72.7	70.9	71.8	—	70.7	72.1	72.5	70.9	67.8	69.4	—	70.7	67.4	67.4	69.1	69.7	70.7	—	70.8	70.7	69.38
	—	67.3	65.5	66.8	68.4	66.7	68.7	—	67.6	69.3	71.4	72.7	70.7	71.7	—	70.0	71.9	71.8	70.7	67.6	69.2	—	70.0	67.2	66.9	68.9	69.2	70.7	—	70.8	70.7	69.20
	—	67.1	65.4	66.7	68.4	66.8	68.7	—	67.7	69.3	71.2	72.7	70.8	71.6	—	70.0	71.9	71.6	70.7	67.6	69.2	—	70.0	67.0	66.9	68.9	69.3	70.7	—	70.8	70.3	69.12
	—	67.3	65.5	66.8	68.4	66.8	68.7	—	68.0	69.5	71.5	72.8	70.8	71.6	—	70.1	71.9	71.6	70.2	67.5	69.3	—	70.1	67.0	66.9	69.0	69.3	70.8	—	70.9	70.1	69.19
	—	67.5	65.7	67.7	68.5	66.9	68.8	—	68.4	69.7	71.6	73.2	70.9	71.9	—	70.7	72.1	71.6	70.0	67.6	69.3	—	70.7	67.4	67.4	69.3	69.7	71.0	—	71.3	70.1	69.43
	—	67.7	65.9	67.7	68.7	67.3	69.2	—	68.7	69.7	71.6	73.0	71.7	72.6	—	71.4	72.6	71.7	70.0	67.7	69.7	—	71.4	67.5	67.7	69.6	70.1	71.7	—	71.7	70.1	69.74
	—	68.1	66.4	68.5	68.8	68.3	70.0	—	69.5	70.4	71.9	73.5	71.9	73.0	—	71.8	72.9	71.9	70.0	67.9	67.6	—	69.2	67.7	68.5	70.0	70.7	71.9	—	72.0	70.1	70.12
	—	67.52	67.42	67.55	69.45	68.41	69.69	—	69.37	70.34	71.72	74.40	72.47	72.94	—	71.93	73.38	73.21	71.69	69.29	67.62	—	69.99	68.04	68.19	69.88	70.22	71.93	—	72.28	71.99	70.82

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.														
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 .	12 ^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.	
FEBRUARY.	1	74.0	71.8	68.0	65.7	66.0	68.4	68.5	73.6	73.1	73.2	76.1	76.8	79.5
	2	78.0	64.3	68.5	71.5	70.1	68.7	71.0	71.1	71.0	71.7	73.2	74.4	75.0
	3	75.1	74.1	72.0	71.2	72.0	73.5	73.5	73.6	73.8	73.8	74.7	74.5	77.0
	4	74.1	72.1	70.7	68.1	69.3	70.8	71.4	72.5	72.7	72.4	72.8	71.2	74.5
	5	79.7	77.8	75.4	75.0	74.2	74.1	74.2	73.8	73.1	73.5	74.2	75.0	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	83.5
	7	77.5	76.3	69.7	65.0	62.1	67.0	67.8	67.2	69.2	73.9	75.1	77.8	74.1
	8	78.2	76.1	73.4	71.2	69.2	70.0	69.3	68.2	71.0	71.4	71.0	74.2	74.0
	9	74.8	74.0	72.3	71.0	69.2	68.2	67.7	67.2	67.8	68.4	69.6	69.4	70.0
	10	71.1	71.1	72.3	70.8	71.8	71.7	69.2	69.2	69.4	69.6	70.2	70.7	71.5
	11	75.0	72.8	71.1	71.0	73.2	73.8	72.0	70.1	69.4	70.8	66.5	71.0	73.1
	12	71.1	70.2	72.0	73.0	72.0	71.6	70.5	70.8	71.7	71.8	73.5	75.4	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	78.0
	14	75.0	74.6	73.5	75.1	75.4	75.7	75.7	72.7	68.5	69.2	70.1	71.8	72.2
	15	73.1	73.0	74.6	75.9	77.0	76.1	74.0	75.8	76.8	77.7	78.3	78.5	78.2
	16	81.0	79.9	79.9	79.7	78.2	76.8	75.8	72.2	73.9	74.7	73.0	75.7	78.9
	17	69.3	66.2	67.2	68.0	67.0	64.2	56.8	61.6	65.2	66.1	68.3	68.3	70.9
	18	70.2	71.0	68.6	66.0	64.9	60.5	57.6	62.2	62.0	60.6	61.1	61.0	66.0
	19	67.7	63.4	60.8	58.2	60.4	60.2	63.3	61.3	68.9	66.0	67.4	70.6	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	77.5
	21	73.0	71.3	71.7	71.6	71.5	69.5	71.5	72.5	72.9	72.1	73.7	73.9	75.1
	22	73.9	73.9	74.4	75.0	75.8	76.2	76.2	76.0	75.8	76.0	76.1	76.1	75.8
	23	79.1	79.7	79.3	78.8	78.0	77.0	76.7	76.5	77.0	76.5	77.0	78.1	74.9
	24	80.2	80.2	82.0	79.5	73.7	71.6	62.2	56.0	50.1	45.7	52.5	52.9	62.2
	25	72.9	72.5	75.1	75.8	75.0	74.4	75.2	71.1	71.1	72.5	76.1	76.1	77.8
	26	72.0	72.8	73.0	73.0	72.9	72.2	71.8	71.8	71.0	71.7	71.5	71.6	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	75.8
	28	71.3	70.4	71.6	73.8	75.0	74.1	74.7	74.0	74.5	75.5	75.7	77.2	79.0
Hourly Means	74.47	72.90	72.38	71.83	71.41	71.10	70.27	70.04	70.41	70.62	71.57	72.59	74.77	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
FEBRUARY.	1	70.1	70.1	70.3	70.5	70.6	70.5	70.5	70.2	69.9	69.7	69.3	69.0	69.2
	2	69.4 ^a	69.8	69.9	70.0	70.1	70.0	70.0	70.4	70.4	70.3	70.0	69.7	69.3
	3	68.7	69.2	69.5	69.8	70.1	69.9	69.8	69.7	69.5	69.4	69.4	69.2	69.1
	4	70.4	70.8	71.2	71.6	71.6	71.7	71.6	71.3	70.9	70.7	70.5	70.1	69.7
	5	69.8	69.9	70.5	70.5	70.8	71.0	70.9	70.7	70.4	69.9	69.8	69.6	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	69.1
	7	69.9	70.4	70.4	71.5	71.7	71.8	72.0	71.3	71.5	71.2	70.9	70.8	70.7
	8	71.7	72.0	72.6	72.9	73.2	73.4	73.5	73.4	72.9	72.7	72.2	72.2	72.2
	9	72.4	72.9	73.6	73.7	73.9	74.2	74.2	74.4	74.4	74.5	74.5	74.2	73.9
	10	73.4	73.8	74.3	74.7	75.1	75.4	75.5	75.7	75.5	75.4	75.2	74.8	74.5
	11	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.1	70.7	70.3	69.7	69.6	69.4
	12	68.5	68.7	68.8	69.1	69.5	69.5	69.5	69.2	69.1	68.8	68.7	68.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	70.6
	14	71.7	72.3	72.7	72.9	73.0	73.2	73.2	73.2	72.9	72.8	72.0	71.7	71.6
	15	69.2	69.3	69.5	69.6	69.6	69.4	69.0	68.8	68.6	68.2	67.7	67.4	67.2
	16	67.7	68.4	69.1	69.9	70.7	70.9	71.1	71.7	71.7	71.7	71.4	70.7	70.3
	17	71.1	71.9	72.7	73.4	74.0	74.5	74.7	74.7	74.5	73.9	73.7	73.4	73.2
	18	72.6	73.2	73.8	74.7	75.2	75.9	76.2	75.9	75.7	75.5	74.6	74.4	73.9
	19	74.4	74.9	75.6	75.8	76.3	76.1	76.0	75.8	75.5	75.1	74.7	74.7	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	71.0
	21	71.2	71.6	71.8	72.2	72.5	72.5	71.9	71.7	71.4	71.2	70.7	70.7	70.2
	22	69.7	69.9	70.2	70.5	70.6	70.8	70.8	70.8	70.7	70.5	70.4	70.4	70.5
	23	69.5	69.8	70.1	70.5	70.5	70.4	70.2	70.2	70.2	69.9	69.5	68.9	68.4
	24	66.8	67.2	67.7	68.0	68.2	68.1	68.2	67.9	68.1	67.8	67.7	67.5	67.1
	25	67.1	68.0	68.7	68.9	69.7	70.0	70.1	70.0	69.8	69.7	69.4	69.4	69.4
	26	69.5	70.1	70.7	71.3	71.7	72.1	72.3	72.6	72.7	72.7	72.5	72.1	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	71.5
	28	72.2	72.9	73.5	73.7	73.8	73.7	73.5	73.1	72.7	72.6	72.4	72.2	72.0
Hourly Means	70.35	70.77	71.20	71.55	71.83	71.94	71.92	71.82	71.65	71.44	71.12	70.89	70.58	

^a Assumed ; temperature not recorded.

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.

Mean Göttingen Time.	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.	
FEBRUARY.	1	77.1	80.3	77.0	80.5	80.7	78.9	78.6	78.7	75.7	72.8	72.0	74.46
	2	74.2	75.8	75.8	76.2	77.4	79.3	82.1	83.0	82.0	78.2	76.2	74.53
	3	77.0	77.0	76.8	77.5	77.7	78.6	79.9	80.5	80.0	71.3	75.0	75.42
	4	74.6	74.9	75.6	76.5	77.0	78.1	80.0	81.0	81.8	80.8	80.8	74.74
	5	—	—	—	—	—	—	—	—	—	—	—	
	6	83.9	81.0	77.2	79.8	79.7	81.7	79.5	78.5	76.5	74.9	76.1	77.18
	7	78.0	74.0	73.8	73.2	74.6	76.1	76.1	75.7	76.0	79.0	79.6	73.28
	8	71.3	72.4	72.8	73.3	74.1	75.9	76.2	76.5	74.1	71.7	72.1	72.82
	9	70.8	71.3	71.9	72.1	73.4	74.8	75.0	75.0	73.3	72.7	71.7	71.32
	10	72.1	72.9	72.4	73.1	73.6	76.1	75.8	75.7	75.6	74.8	75.9	72.36
	11	72.7	75.8	76.6	78.6	80.9	81.1	81.3	77.0	76.1	73.1	71.0	73.92
	12	—	—	—	—	—	—	—	—	—	—	—	
	13	78.0	78.9	78.8	79.2	80.1	81.1	80.7	79.4	77.3	77.1	75.7	75.33
	14	73.9	74.1	76.3	75.8	75.9	77.9	78.5	77.1	75.1	73.5	73.2	74.20
	15	79.5	80.0	81.5	81.0	81.7	83.8	85.6	88.0	89.0	87.7	83.0	79.58
	16	78.1	81.0	73.9	75.2	77.6	81.0	82.3	81.1	80.6	77.8	72.2	77.52
	17	76.2	72.2	73.5	73.0	75.6	77.7	78.6	79.9	78.5	75.9	68.9	70.38
	18	68.3	69.1	70.2	69.0	70.3	72.5	73.2	72.0	70.0	67.5	67.0	66.70
	19	—	—	—	—	—	—	—	—	—	—	—	
	20	74.9	77.7	74.3	74.6	73.6	74.7	76.6	75.6	75.6	75.4	73.5	69.68
	21	76.4	76.2	76.1	76.8	76.8	77.3	78.3	78.0	76.5	74.8	74.0	74.23
	22	75.5	76.1	76.9	76.8	76.8	77.9	78.9	79.7	78.0	77.0	77.7	76.35
	23	75.0	79.8	80.6	82.9	82.4	83.8	84.0	84.1	83.6	84.5	84.0	79.72
	24	72.6	72.0	73.4	72.2	74.7	74.8	74.4	72.7	70.7	69.2	70.9	68.60
	25	78.2	78.1	80.0	77.9	77.0	77.7	78.6	76.5	74.5	70.1	70.3	75.19
	26	—	—	—	—	—	—	—	—	—	—	—	
	27	76.9	79.1	82.0	83.1	82.9	82.8	81.0	81.0	77.2	73.8	71.6	75.52
	28	76.9	80.2	76.4	76.6	75.9	77.8	78.1	77.9	75.5	73.7	70.3	75.25
Hourly Means	75.50	76.25	75.99	76.45	77.10	78.39	78.89	78.53	77.22	75.30	74.28	74.09	

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°	
FEBRUARY.	1	68.9	68.8 ^a	68.7	68.7	68.6	68.2	68.0	68.0	68.4	68.7	69.0	69.33
	2	69.0	68.7	68.7	68.3	67.9	67.8	67.7	67.7	67.8	68.1	68.3	69.14
	3	69.1	68.8	69.1	68.8	68.7	68.7	68.6	68.7	68.8	69.1	69.8	69.23
	4	69.6	69.3	69.5	69.3	68.8	68.7	68.6	68.7	68.7	69.0	69.4	70.07
	5	—	—	—	—	—	—	—	—	—	—	—	
	6	69.0	68.9	69.0	69.0	68.7	68.5	68.4	68.5	68.7	68.9	69.5	69.58
	7	70.7	70.5	70.7	70.7	70.6	70.3	70.3	70.3	70.5	70.7	71.3	70.86
	8	71.9	71.8	71.7	71.5	71.4	71.1	71.0	71.1	71.2	71.7	72.0	72.14
	9	73.7	73.5	73.7	73.3	72.9	72.5	72.5	72.5	72.5	72.7	73.0	73.48
	10	74.0	73.7	73.7	73.2	72.7	72.6	71.8	71.7	71.4	71.4	71.5	73.79
	11	69.0	68.7	68.7	68.4	68.0	67.7	67.7	67.7	67.8	68.0	68.2	69.63
	12	—	—	—	—	—	—	—	—	—	—	—	
	13	70.2	69.9	70.3	70.1	69.9	69.7	69.6	69.7	70.1	70.7	71.1	69.58
	14	71.2	70.8	70.9	70.8	70.6	70.5	70.0	69.7	69.4	69.2	69.2	71.48
	15	66.9	66.7	66.7	66.6	66.2	65.9	65.9	66.0	66.4	66.7	67.1	67.69
	16	69.9	69.7	69.7	69.5	68.9	68.9	68.8	68.8	69.4	69.8	70.6	69.97
	17	72.9	72.6	72.7	72.3	71.7	71.5	71.1	71.0	71.2	71.6	72.0	72.76
	18	73.7	73.6	73.7	73.5	73.2	72.9	72.7	72.7	73.0	73.4	73.7	74.07
	19	—	—	—	—	—	—	—	—	—	—	—	
	20	70.9	70.9	71.2	71.0	71.0	70.9	70.7	70.7	70.7	70.8	71.0	73.15
	21	70.0	69.9	70.2	69.9	69.7	69.3	69.1	68.9	69.1	69.4	69.5	70.61
	22	70.6	70.5	70.5	70.4	70.4	69.9	69.9	69.7	69.4	69.4	69.5	70.25
	23	67.8	67.7	67.6	67.1	66.7	66.2	65.9	65.7	65.7	66.0	66.2	68.36
	24	66.8	66.7	66.7	66.6	66.4	66.2	66.0	66.0	65.8	66.0	66.5	67.09
	25	69.4	69.1	69.0	68.9	68.9	68.7	68.4	68.3	68.4	68.7	68.9	69.04
	26	—	—	—	—	—	—	—	—	—	—	—	
	27	71.4	71.2	71.0	70.8	70.6	70.5	70.2	70.5	70.7	71.0	71.6	71.30
	28	72.0	72.0	72.0	71.7	71.7	71.6	71.5	71.5	71.7	72.0	72.5	72.44
Hourly Means	70.36	70.17	70.24	70.02	69.76	69.53	69.35	69.34	69.45	69.71	70.06	70.63	

^a Assumed ; temperature not recorded.

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00029.														
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 .	12 ^h .	
MARCH.	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.	
	1	69.4	70.9	69.3	65.2	67.5	71.0	71.0	70.8	71.3	70.5	71.0	74.0	71.4
	2	72.8	69.0	68.2	71.0	70.0	71.1	69.9	70.7	70.4	69.4	70.2	70.6	71.0
	3	77.0	76.0	75.1	73.7	74.2	74.0	73.8	73.2	72.9	72.8	72.2	73.1	73.8
	4	77.8	77.5	76.2	75.7	75.2	74.1	73.4	72.0	74.0	75.0	74.8	74.3	74.1
	5	73.0	71.4	71.1	71.3	71.3	68.3	66.0	69.5	71.5	69.0	69.2	72.5	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	79.2
	7	77.5	78.2	79.6	79.2	77.9	76.2	75.0	73.1	73.3	72.6	73.2	74.5	75.9
	8	77.8	78.4	76.9	76.5	74.5	73.0	73.4	75.0	76.4	76.9	77.1	78.0	75.6
	9	80.8	80.1	79.0	78.1	76.5	74.4	74.7	74.6	74.1	73.9	76.7	76.8	78.8
	10	81.3	80.1	78.8	77.8	77.3	77.0	76.3	76.5	77.1	77.8	77.9	78.1	78.9
	11	82.6	82.0	81.1	80.9	79.7	75.6	74.9	74.3	74.2	75.2	76.1	77.0	78.5
	12	81.0	80.6	79.6	78.1	77.9	77.3	75.9	74.7	75.0	76.3	77.4	78.8	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	79.9
	14	80.9	81.0	82.7	84.0	83.1	82.8	81.9	81.6	81.7	82.7	83.5	84.4	84.4
	15	86.4	86.9	88.2	88.0	87.0	85.9	83.9	83.1	81.7	75.1	73.2	74.1	77.0
	16	88.1	89.3	90.4	89.8	85.0	79.8	78.8	70.8	69.2	69.3	68.0	73.8	76.1
	17	74.2	75.6	77.2	78.5	77.8	76.0	74.6	75.0	76.9	77.8	77.4	76.8	76.6
	18	80.5	80.6	80.9	81.0	81.1	80.8	79.9	79.9	79.8	80.0	81.0	81.0	80.8
	19	79.9	78.1	75.1	76.0	75.0	71.4	71.0	70.6	70.7	71.2	72.0	75.0	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	80.7
	21	84.0	84.2	84.1	84.4	83.8	82.2	82.1	82.8	81.8	82.1	85.6	83.7	83.1
	22	88.5	88.1	87.5	87.8	86.7	84.1	83.6	83.5	83.7	85.6	84.6	85.0	87.3
	23	85.0	87.4	89.0	87.3	88.6	88.5	86.7	86.8	85.2	83.1	77.7	80.3	82.2
	24	81.4	83.8	83.3	82.7	83.1	80.9	80.9	79.0	77.8	86.0	83.2	82.7	83.1
	25	87.6	89.2	88.6	86.7	82.0	83.8	83.3	82.3	83.7	86.9	84.2	85.3	85.6
	26	88.6	90.1	91.1	90.9	88.9	87.3	85.5	84.6	85.0	85.3	85.9	85.2	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	85.1
	28	83.5	83.8	82.8	80.4	80.1	83.0	81.9	82.0	82.1	83.3	82.5	84.1	85.4
	29	84.9	84.0	86.7	86.3	85.2	83.8	81.2	81.3	79.2	82.2	84.2	84.8	85.6
	30	86.0	84.0	81.3	84.0	85.7	83.2	81.0	83.1	80.3	81.2	84.2	86.4	85.9
31	90.3	90.8	90.2	88.8	88.0	86.6	86.0	86.4	84.4	84.0	83.0	83.9	85.0	
Hourly Means	81.51	81.52	81.26	80.89	80.11	78.97	78.02	77.67	77.53	77.97	78.00	79.04	80.04	
TEMPERATURE OF THE MAGNET.														
MARCH.	1	73.0	73.6	73.9	74.5	74.8	74.9	74.9	74.6	74.3	73.8	73.9	73.9	
	2	73.5	73.8	74.5	74.9	75.2	75.4	75.3	75.2	75.0	74.8	74.6	74.1	
	3	71.5	72.2	72.7	73.5	73.9	74.0	74.1	74.2	74.1	74.1	74.0	73.6	
	4	71.7	71.9	72.1	72.5	72.8	73.0	73.5	73.2	73.1	72.7	72.6	71.9	
	5	71.2	71.6	71.8	72.1	72.4	72.5	72.5	72.5	72.4	71.9	71.7	71.6	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	69.4	70.0	70.6	70.9	71.5	71.7	72.0	72.0	71.9	71.7	71.5	71.1	
	8	70.6	71.0	71.3	71.5	71.6	71.5	71.1	70.8	70.7	70.4	70.2	69.8	
	9	69.8	70.4	70.7	71.0	71.2	71.2	70.9	70.9	71.1	70.9	70.7	70.4	
	10	69.2	69.7	70.1	70.3	71.2	71.5	71.6	71.7	71.6	71.1	70.9	70.7	
	11	70.5	71.1	71.6	72.2	72.7	73.3	73.5	73.4	72.9	72.6	72.0	71.7	
	12	70.5	71.0	71.7	72.4	72.7	72.9	72.9	72.7	72.5	72.2	71.8	71.3	
	13	—	—	—	—	—	—	—	—	—	—	—	—	
	14	69.5	69.7	69.8	69.7	69.7	69.5	69.2	68.8	68.7	68.3	67.9	67.7	
	15	67.6	67.9	68.1	68.5	68.4	68.2	67.8	67.7	67.4	67.1	67.0	67.0	
	16	66.9	67.4	67.7	68.2	68.5	68.7	68.7	69.0	68.9	68.9	68.8	68.7	
	17	68.6	69.0	69.4	69.9	70.3	70.5	70.4	70.2	69.9	69.7	69.5	69.0	
	18	67.1	67.4	67.4	67.6	67.8	68.0	67.3	68.3	68.0	68.0	67.8	67.7	
	19	67.6	67.8	68.4	68.7	68.8	68.8	68.7	68.5	68.4	68.2	67.8	67.7	
	20	—	—	—	—	—	—	—	—	—	—	—	—	
	21	66.1	66.5	66.5	66.7	66.9	66.7	66.7	66.7	66.6	66.5	66.4	66.1	
	22	64.1	64.4	64.7	64.7	64.9	65.3	65.2	65.0	64.8	64.7	64.8	65.1	
	23	65.3	65.6	65.9	66.0	66.2	66.5	66.8	66.9	66.8	66.8	66.9	67.0	
	24	66.8	66.9	67.1	67.0	67.0	66.7	66.7	66.6	66.4	66.3	66.0	65.5	
	25	64.5	64.6	64.8	64.9	64.9	65.3	65.2	65.1	64.8	64.7	64.7	64.3	
	26	63.8	64.5	64.8	65.4	65.7	65.7	66.1	66.2	66.1	66.0	65.9	65.9	
	27	—	—	—	—	—	—	—	—	—	—	—	—	
	28	65.5	65.5	65.5	65.5	65.4	65.1	64.8	64.8	64.7	64.7	64.3	64.3	
	29	64.5	64.8	64.9	65.4	65.6	65.7	65.5	65.4	64.8	64.7	64.5	64.5	
	30	63.9	64.4	64.7	65.0	65.2	65.3	65.5	65.6	65.6	65.5	65.4	65.0	
	31	63.9	64.2	64.8	65.1	65.6	65.7	65.7	65.6	65.5	65.5	65.1	65.1	
Hourly Means	68.02	68.40	68.72	69.04	69.29	69.39	69.36	69.33	69.16	68.97	68.76	68.54		

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MARCH.	1	71.0	72.1	72.0	72.6	74.1	74.6	77.7	79.2	79.8	78.6	75.5	72.52
	2	72.0	72.8	73.6	74.5	75.4	77.9	79.1	80.6	79.5	78.2	77.1	73.13
	3	74.3	75.0	74.8	75.2	75.1	75.8	77.0	79.3	79.7	79.2	77.9	75.30
	4	76.3	79.0	79.9	79.1	77.2	81.4	82.0	81.2	79.1	76.1	74.8	76.68
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	80.3	82.3	80.3	80.6	81.5	82.0	82.7	82.2	81.6	80.7	78.5	75.67
	7	76.7	77.9	78.0	78.5	78.1	78.7	80.2	79.5	78.6	76.5	77.0	76.91
	8	79.0	77.8	79.0	79.1	80.2	81.3	81.7	83.0	82.0	80.7	80.8	78.09
	9	79.5	79.9	80.6	81.3	82.2	84.0	84.7	84.9	84.0	83.2	81.9	79.36
	10	79.1	79.8	80.4	80.9	80.6	82.2	83.4	84.9	85.4	84.5	83.0	79.96
	11	79.1	80.9	80.5	81.2	82.1	83.3	83.8	84.5	83.9	83.2	81.8	79.85
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	79.2	81.2	80.1	81.2	81.5	82.7	83.6	83.5	82.9	83.2	81.4	79.71
	14	85.3	85.2	86.4	86.9	87.9	89.5	90.6	91.4	90.4	88.6	88.1	85.21
	15	79.5	81.6	82.8	84.2	85.1	86.5	88.2	89.0	88.5	87.4	87.2	83.77
	16	75.1	78.3	80.5	80.9	78.9	80.0	83.2	83.9	79.8	77.4	75.8	79.26
	17	78.1	78.0	78.1	79.2	79.7	81.0	81.9	82.3	81.3	79.5	79.8	78.05
	18	81.1	81.5	82.1	83.0	83.1	84.1	85.7	84.8	83.5	83.2	81.8	81.72
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	84.5	82.6	82.4	82.9	85.6	86.6	88.1	89.1	87.9	86.8	84.4	79.48
	21	86.1	86.7	86.2	86.7	87.4	89.2	90.8	91.8	90.6	89.0	89.1	85.73
	22	86.1	86.9	87.5	87.0	90.2	92.8	95.4	94.9	91.6	89.7	86.9	87.71
	23	85.1	84.0	82.8	82.0	82.5	84.0	85.7	85.0	83.9	80.7	77.8	84.22
	24	84.9	85.3	86.3	86.5	87.2	88.1	89.3	89.1	86.7	83.0	84.5	84.12
	25	86.0	87.6	87.3	87.4	88.2	89.1	89.7	89.3	88.3	87.4	86.9	86.43
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	90.0	84.7	83.7	86.8	87.8	88.5	91.0	91.4	89.4	88.2	85.0	87.50
	28	87.6	88.2	88.1	90.0	87.4	89.7	92.0	92.3	90.2	87.6	87.0	85.63
	29	86.2	88.4	88.2	89.3	89.0	89.7	89.7	89.8	88.0	88.0	87.0	85.95
	30	87.1	86.1	87.6	89.4	84.2	88.1	89.3	90.7	90.0	88.9	89.4	85.71
	31	85.9	86.0	87.2	87.0	87.8	91.2	91.8	89.9	86.5	84.8	81.6	86.96
Hourly Means	81.30	81.84	82.09	82.72	82.96	84.52	85.86	86.20	84.93	83.49	82.30	81.28	

TEMPERATURE OF THE MAGNET.

MARCH.	1	73.7	73.7	73.6	73.6	73.4	73.4	72.8	72.7	72.8	73.1	73.79	
	2	73.6	73.1	72.7	72.6	71.7	71.5	71.1	70.8	70.8	70.9	71.1	73.33
	3	73.2	72.9	72.7	72.5	72.0	72.3	71.8	71.6	71.4	71.4	71.5	72.86
	4	71.9	71.7	71.7	71.6	71.4	71.1	71.0	70.9	70.9	70.9	70.9	71.96
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	67.7	67.7	67.8	67.7	67.7	67.7	67.7	67.6	67.7	68.1	68.7	69.93
	7	70.6	70.5	70.2	69.9	69.9	70.0	69.8	69.7	69.7	69.9	70.2	70.65
	8	70.0	69.9	69.7	69.7	69.6	69.1	68.9	68.8	68.9	69.2	69.6	70.17
	9	69.7	69.3	68.9	68.7	68.4	68.5	68.5	68.3	68.3	68.5	68.7	69.79
	10	70.5	70.3	70.0	69.7	69.2	69.2	68.8	68.7	69.0	69.5	70.0	70.21
	11	71.0	70.9	70.6	70.2	69.7	69.9	69.5	69.3	69.3	69.5	69.9	71.20
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	70.5	70.4	70.0	69.7	69.6	69.6	69.4	69.0	69.0	69.1	69.3	70.87
	14	67.2	66.8	66.8	66.7	66.7	66.7	66.7	66.7	66.7	66.8	67.2	67.96
	15	67.0	66.9	66.9	66.8	66.7	66.7	66.3	66.0	66.0	66.3	66.6	67.16
	16	68.3	68.0	67.9	67.7	67.7	67.7	67.5	67.4	67.5	67.7	68.1	68.10
	17	68.7	68.6	68.4	68.2	67.8	68.1	67.7	67.5	67.4	67.2	67.3	68.84
	18	67.6	67.5	67.1	67.0	67.2	67.5	67.4	67.2	67.0	67.0	67.3	67.49
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	66.9	66.7	66.5	66.2	65.9	65.9	65.8	66.7	65.7	65.8	65.9	67.28
	21	65.5	65.3	64.9	64.7	64.2	64.2	63.8	63.7	63.7	63.9	64.0	65.50
	22	65.1	65.0	65.0	65.0	65.1	65.0	64.8	64.7	64.6	64.7	64.9	64.86
	23	67.0	67.0	67.2	67.2	67.2	67.2	67.0	66.7	66.7	66.7	66.7	66.68
	24	64.7	64.7	64.3	63.9	63.9	64.0	63.9	63.7	63.8	63.8	64.1	65.37
	25	63.9	63.7	63.7	63.6	63.1	63.4	62.9	62.7	62.8	63.1	63.5	64.10
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	64.9	64.9	64.8	64.8	64.7	64.8	64.8	64.8	64.9	65.0	65.4	65.20
	28	64.3	64.2	63.9	63.8	63.7	63.9	63.9	63.9	63.8	63.9	64.2	64.50
	29	64.1	64.0	64.0	64.0	64.2	64.2	64.1	63.7	63.7	63.7	63.8	64.50
	30	64.2	63.7	63.7	63.4	63.4	63.6	63.4	63.2	63.1	63.2	63.6	64.34
	31	64.7	64.6	64.5	64.5	64.1	64.3	64.5	64.4	64.5	64.7	65.0	64.85
Hourly Means	68.02	67.89	67.65	67.53	67.34	67.39	67.18	67.05	67.03	67.17	67.43	68.20	

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.														
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 .	12 ^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.	
APRIL.	1	86.5	87.9	84.8	83.3	81.3	83.3	81.9	81.2	81.0	80.7	79.1	81.2	82.0
	2	83.0	83.0	82.6	82.0	81.6	81.2	80.9	80.2	79.4	78.4	77.8	77.0	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	76.9
	4	81.0	81.3	84.3	86.0	83.9	80.3	79.1	80.9	81.5	81.7	81.1	82.4	83.9
	5	85.9	87.0	87.0	85.8	86.0	86.3	86.0	86.4	84.1	81.3	82.7	83.3	84.2
	6	88.1	85.8	85.9	85.1	85.0	84.4	84.8	84.4	84.5	84.7	84.3	85.4	88.9
	7	89.0	89.2	89.2	89.1	88.7	87.9	87.0	86.3	85.2	84.8	85.8	85.2	88.3
	8	88.7	88.3	88.6	89.1	88.4	87.1	85.1	84.0	82.3	81.0	80.6	81.1	82.1
	9	85.0	87.0	87.4	87.3	86.8	85.8	84.8	84.6	85.0	85.5	85.8	85.7	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	86.0
	11	80.8	82.8	79.2	76.8	75.1	74.0	72.1	73.0	76.6	77.3	78.2	80.0	83.8
	12	78.5	70.0	70.8	76.2	75.8	73.0	72.1	72.6	73.9	69.9	72.3	79.0	80.0
	13	67.6	64.2	62.6	58.2	66.8	72.3	70.5	64.0	75.2	71.0	72.1	77.5	75.7
	14	79.8	79.6	80.4	80.1	80.5	80.3	79.0	79.8	79.2	78.8	79.2	80.0	80.3
	15	65.0	67.2	67.0	65.7	58.0	60.8	61.3	59.1	61.3	68.8	68.9	69.1	70.2
	16	70.5	68.5	69.6	70.5	71.3	70.9	70.2	70.2	70.0	71.2	71.0	74.6	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	76.7
	18	76.9	75.5	75.0	74.3	73.7	73.2	74.8	75.1	75.5	77.5	77.8	77.1	78.0
	19	75.8	74.9	72.1	71.4	72.5	68.7	70.1	72.0	72.3	72.9	74.7	75.0	74.7
	20	79.3	77.6	75.6	76.8	75.9	73.7	73.0	75.0	75.0	75.0	75.5	76.1	78.0
	21	75.8	76.8	78.9	75.0	70.8	71.1	73.1	69.9	72.8	75.2	74.0	76.2	76.5
	22	79.2	79.9	80.5	80.5	78.9	77.0	77.7	78.2	79.8	80.3	80.7	80.2	80.9
	23	82.8	81.7	83.0	83.0	81.6	81.2	82.0	82.6	82.7	82.5	82.8	83.9	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	88.9
	25	91.3	90.9	89.0	87.8	87.2	87.0	86.8	86.0	86.0	86.3	86.6	87.0	88.5
	26	91.5	89.9	88.5	87.3	86.7	86.0	84.7	84.6	84.7	85.0	84.0	84.1	84.5
	27	87.8	85.6	85.0	85.0	85.8	83.1	81.3	79.7	77.8	77.0	79.5	80.0	81.5
	28	85.0	84.8	84.8	83.9	83.3	82.6	80.5	80.3	80.6	80.4	80.8	81.3	81.8
	29	85.0	84.0	83.8	85.0	85.0	83.0	81.9	78.5	77.9	76.2	75.1	78.8	81.0
Hourly Means	81.59	80.94	80.62	80.20	79.62	78.97	78.43	77.94	78.57	78.54	78.82	80.05	81.33	
TEMPERATURE OF THE MAGNET.														
APRIL.	1	65.5	65.9	66.7	67.4	67.7	68.0	68.1	68.2	68.1	67.8	67.7	67.5	67.3
	2	67.4	67.8	68.4	69.0	69.6	69.8	70.0	70.0	70.0	69.7	69.8	69.7	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	68.8
	4	67.4	67.4	67.4	67.5	67.4	67.0	66.8	66.7	66.5	66.3	66.0	65.8	65.7
	5	65.2	65.3	65.5	65.7	65.7	65.8	65.8	65.7	65.5	65.1	65.1	65.1	65.1
	6	63.9	64.2	64.6	64.7	64.9	64.9	65.0	65.1	65.0	64.9	64.9	64.6	64.2
	7	64.0	64.7	65.2	65.7	66.3	66.4	66.6	66.5	66.5	66.5	66.4	66.0	65.8
	8	66.0	66.7	67.3	67.7	68.2	68.6	68.6	68.6	68.5	67.9	67.7	67.6	67.4
	9	66.2	66.5	66.7	66.7	66.7	66.7	66.6	66.4	66.0	65.8	65.6	65.1	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	64.3
	11	65.3	65.8	66.6	67.1	67.8	68.2	68.7	68.9	68.9	68.7	68.5	68.2	67.8
	12	67.4	67.8	68.5	68.7	68.9	69.2	69.6	69.7	69.7	69.8	69.7	69.8	69.7
	13	69.3	69.3	69.4	69.5	69.5	69.7	69.7	69.7	69.7	69.9	70.0	69.8	69.4
	14	67.0	67.0	67.0	67.2	67.2	67.2	67.1	67.1	67.0	66.7	66.7	66.7	66.7
	15	67.9	68.2	67.9	68.7	68.9	68.9	69.3	69.4	69.1	68.9	69.0	69.0	68.9
	16	68.2	68.5	68.8	69.4	69.7	69.8	69.7	69.7	69.6	69.6	69.4	69.2	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	68.7
	18	68.9	69.7	70.4	70.8	71.3	71.3	70.9	70.9	70.8	70.9	70.8	70.8	70.9
	19	71.6	72.1	72.4	72.6	72.7	72.8	71.9	71.7	71.1	71.0	70.9	71.0	71.2
	20	69.6	69.7	69.9	70.0	70.0	70.1	70.5	70.5	70.6	70.5	70.4	70.4	70.2
	21	69.6	69.9	70.0	70.4	70.5	70.5	70.6	70.5	70.4	69.8	69.7	69.4	69.2
	22	68.4	68.4	68.6	68.9	68.9	68.9	68.8	68.7	68.7	68.5	68.2	68.2	68.3
	23	67.3	67.4	67.5	67.5	67.5	67.2	66.9	66.7	66.5	66.2	66.0	65.8	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	63.8
	25	63.7	64.4	65.1	65.7	66.3	66.4	66.3	66.2	66.0	65.8	65.7	65.4	65.1
	26	65.5	66.0	66.5	67.3	67.7	68.1	68.2	68.3	68.0	67.7	67.6	67.7	67.8
	27	66.9	67.6	67.9	68.7	69.0	69.7	69.9	69.9	69.7	69.6	69.4	68.9	68.6
	28	68.3	68.7	69.2	69.7	70.0	70.0	70.0	69.9	69.8	69.7	69.5	69.4	69.2
	29	68.6	68.7	68.7	68.7	68.7	68.6	68.5	68.2	68.2	67.9	67.9	67.8	67.7
Hourly Means	67.16	67.51	67.85	68.21	68.44	68.55	68.56	68.53	68.40	68.21	68.10	67.96	67.67	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.

Mean Göttingen Time.	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.	
APRIL.	1	83.0	83.3	84.8	84.2	84.7	84.9	85.9	85.0	85.6	83.9	83.1	83.44
	2	—	—	—	—	—	—	—	—	—	—	—	81.02
	3	77.9	78.2	78.3	79.1	80.6	80.5	84.2	86.9	86.9	85.0	82.9	
	4	82.6	84.0	89.1	86.2	86.6	87.8	89.0	88.8	87.3	85.5	84.0	84.10
	5	89.5	86.9	86.4	86.2	86.1	89.1	90.0	91.2	91.4	90.3	89.2	86.76
	6	88.0	87.2	87.8	87.8	88.6	89.7	92.6	93.4	91.8	90.1	88.0	87.35
	7	87.9	88.0	88.6	88.5	89.0	90.0	91.6	91.2	90.2	89.8	89.1	88.32
	8	83.5	83.0	84.8	85.8	86.0	86.5	86.8	85.0	84.0	84.5	83.6	85.00
	9	—	—	—	—	—	—	—	—	—	—	—	86.58
	10	86.0	92.1	90.9	90.9	88.1	88.9	91.0	88.3	84.8	80.6	79.5	
	11	82.8	80.8	82.8	84.8	84.1	83.2	85.0	86.1	86.6	86.0	82.0	80.58
	12	80.3	82.2	80.0	79.4	78.9	80.5	82.8	79.7	71.9	70.1	68.5	75.77
	13	73.8	75.0	76.2	77.0	77.7	79.2	81.7	84.0	83.5	84.5	82.8	73.88
	14	86.1	86.0	91.4	87.1	85.2	84.5	71.4	73.7	77.6	69.9	59.9	79.58
	15	73.1	75.2	76.2	75.1	74.8	73.4	69.5	76.0	74.8	74.0	72.0	69.02
	16	—	—	—	—	—	—	—	—	—	—	—	75.99
	17	78.8	79.7	78.7	79.8	81.1	80.2	83.6	85.5	85.0	84.3	81.8	
	18	78.2	78.3	79.2	78.8	80.0	77.2	78.2	82.1	84.8	82.9	77.9	77.58
	19	75.0	74.5	74.8	76.0	75.8	77.6	80.1	81.9	81.8	80.2	79.4	75.18
	20	77.8	82.1	83.0	75.4	79.3	79.7	81.9	81.0	80.7	81.1	80.7	77.88
	21	77.4	77.8	77.7	78.7	79.8	80.8	82.5	83.2	81.7	80.7	80.1	76.94
	22	81.1	81.6	81.5	81.3	82.0	81.4	83.1	85.3	85.8	85.7	85.1	81.15
	23	—	—	—	—	—	—	—	—	—	—	—	86.85
	24	89.9	90.4	90.3	90.2	90.8	91.6	92.3	92.9	93.7	92.8	90.9	
	25	89.6	89.5	90.3	89.6	89.9	89.7	90.7	90.0	91.9	92.7	91.4	88.99
	26	85.6	86.8	86.6	87.1	87.2	88.5	90.8	90.5	91.2	93.2	91.1	87.50
	27	82.0	83.2	84.5	85.0	85.1	85.8	86.9	87.3	86.7	86.6	86.5	83.70
	28	82.0	82.5	83.5	84.0	84.1	84.9	86.6	87.8	88.2	87.6	86.3	83.65
	29	81.9	83.1	83.7	84.5	84.4	86.2	88.1	88.1	89.4	87.7	85.4	83.24
Hourly Means	82.15	82.86	83.64	83.30	83.60	84.07	85.05	85.80	85.49	84.39	82.45	81.60	

TEMPERATURE OF THE MAGNET.

APRIL.	1	67.0	66.9	66.7	66.7	66.6	66.6	66.7	66.6	66.6	66.8	67.0	67.09
	2	—	—	—	—	—	—	—	—	—	—	—	68.72
	3	68.8	68.7	68.6	68.4	68.2	68.2	68.2	67.7	67.6	67.4	67.4	
	4	65.6	65.5	65.5	65.4	65.1	65.3	65.2	65.0	65.0	65.0	65.0	66.06
	5	65.1	65.0	64.7	64.7	64.6	64.4	64.2	63.9	63.8	63.9	63.8	64.95
	6	63.8	63.8	63.6	63.5	63.3	63.5	63.2	62.9	63.1	64.4	63.7	64.15
	7	65.7	65.5	65.2	65.0	64.9	64.9	64.8	64.9	64.9	65.4	65.7	65.56
	8	67.0	66.8	66.7	66.2	66.1	66.1	66.1	65.9	65.9	65.8	66.0	67.06
	9	—	—	—	—	—	—	—	—	—	—	—	65.15
	10	64.2	64.3	64.1	63.9	63.7	64.0	63.8	63.7	63.7	64.2	64.7	
	11	67.6	66.8	66.7	66.6	66.5	66.8	66.7	66.6	66.5	66.5	66.7	67.27
	12	69.6	69.7	69.6	69.6	69.5	69.4	69.1	69.0	68.8	68.9	69.1	69.20
	13	69.0	68.7	68.3	68.0	67.7	67.7	67.6	67.2	66.9	66.9	66.8	68.74
	14	66.7	66.7	66.6	66.6	66.5	66.7	66.9	66.8	67.0	67.3	67.6	66.92
	15	68.6	68.5	68.4	68.3	68.2	68.2	67.8	67.6	67.5	67.5	67.9	68.44
	16	—	—	—	—	—	—	—	—	—	—	—	68.58
	17	68.6	68.1	67.8	67.7	67.6	67.7	67.5	67.4	67.4	67.7	68.2	
	18	70.8	70.7	70.7	70.7	70.7	70.9	70.9	70.8	70.8	70.9	71.2	70.73
	19	71.2	71.2	70.9	70.8	70.7	70.7	69.8	69.4	69.4	69.5	69.4	71.08
	20	69.8	69.7	69.8	69.8	69.7	69.7	69.2	69.2	69.2	69.2	69.4	69.88
	21	68.8	68.8	68.6	68.5	68.4	68.1	67.9	67.7	67.6	67.7	68.0	69.19
	22	68.4	68.4	68.2	67.9	67.7	67.6	67.5	67.4	67.2	67.2	67.1	68.17
	23	—	—	—	—	—	—	—	—	—	—	—	64.93
	24	63.6	63.6	63.4	63.0	62.7	62.7	62.5	62.3	62.5	62.7	63.0	
	25	64.8	64.7	64.5	64.6	64.7	64.7	64.5	64.1	64.4	64.6	64.9	65.11
	26	67.7	67.7	67.7	67.5	67.4	67.1	66.9	66.5	66.2	66.3	66.5	67.25
	27	68.2	68.0	67.7	67.7	67.7	67.6	67.5	67.4	67.4	67.5	67.9	68.35
	28	69.1	68.9	68.7	68.7	68.6	68.5	68.4	68.3	68.3	68.2	68.4	69.06
	29	67.5	67.3	67.0	66.7	66.7	66.7	66.4	66.1	66.1	66.1	66.1	67.54
Hourly Means	67.48	67.36	67.19	67.06	66.94	66.95	66.77	66.58	66.55	66.70	66.86	67.57	

HORIZONTAL FORCE.													
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.													
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 .	12 ^h .
April 30	83.2	82.5	83.0	83.9	84.2	84.2	83.9	84.1	85.0	85.7	86.3	86.9	—
1	—	—	—	—	—	—	—	—	—	—	—	—	89.0
2	89.0	88.7	89.2	89.3	90.4	89.2	88.7	87.8	86.6	86.2	86.7	87.4	87.8
3	90.5	88.0	86.3	86.1	85.6	86.3	86.0	86.2	86.0	87.0	87.5	87.5	88.3
4	90.8	89.8	88.4	88.5	89.9	89.8	89.1	87.8	87.4	87.1	87.4	88.4	88.0
5	92.5	90.6	90.4	90.2	89.9	89.8	89.2	88.5	89.3	90.5	90.9	91.1	91.6
6	97.2	94.8	95.4	95.4	90.0	82.2	80.9	81.1	78.7	81.0	80.0	82.6	84.6
7	93.0	89.2	85.4	85.9	85.6	84.1	82.3	83.4	84.8	83.7	89.9	89.3	—
8	—	—	—	—	—	—	—	—	—	—	—	—	85.2
9	85.9	84.9	84.0	84.1	84.0	82.9	82.0	82.2	82.8	82.8	83.5	83.3	86.9
10	86.2	83.5	84.1	84.5	82.2	82.7	83.7	83.4	82.3	82.4	82.7	84.2	84.0
11	87.5	86.1	84.7	84.1	84.1	85.7	84.8	85.0	85.0	85.3	85.6	86.2	87.0
12	89.8	88.3	87.4	88.2	89.0	88.8	88.1	88.0	88.3	87.6	88.2	89.0	89.4
13	91.7	90.4	90.2	90.0	89.7	89.1	87.0	86.3	85.9	86.5	87.7	88.9	89.1
14	90.0	90.0	90.0	90.2	89.8	89.8	89.1	88.2	88.7	89.0	89.7	89.7	—
15	—	—	—	—	—	—	—	—	—	—	—	—	87.6
MAY. 16	84.0	74.6	72.0	74.0	78.9	74.5	78.0	79.6	79.1	81.0	81.6	82.2	83.6
17	84.1	85.1	82.3	84.6	83.0	77.8	81.9	84.0	84.7	84.4	84.5	84.0	86.0
18	85.8	85.0	83.1	85.1	87.0	86.2	86.1	85.7	84.9	84.1	84.2	85.0	87.1
19	87.0	85.1	85.4	84.0	85.9	85.6	85.0	86.1	86.8	87.2	87.7	88.0	87.8
20	92.0	90.5	90.1	89.2	89.9	89.3	88.2	89.4	89.8	89.5	89.5	89.6	89.9
21	93.1	91.6	90.4	89.9	89.9	89.7	89.3	89.7	89.9	90.2	90.6	91.1	—
22	—	—	—	—	—	—	—	—	—	—	—	—	92.8
23	96.4	94.7	93.7	93.2	93.9	93.8	93.8	93.0	91.8	92.0	92.0	91.7	92.0
24	94.8	94.0	93.7	93.5	93.9	92.7	92.5	91.9	91.7	91.8	91.3	92.0	92.0
25	95.9	95.4	94.2	95.0	94.6	94.8	93.0	92.1	92.2	92.0	92.1	92.0	93.3
26	98.5	97.7	96.2	96.1	95.0	93.7	94.6	94.4	94.4	93.8	93.8	96.2	96.1
27	97.1	96.4	96.0	97.0	97.4	96.5	95.8	94.9	94.9	94.9	94.9	95.0	94.0
28	96.0	95.5	96.2	97.1	97.5	96.8	95.0	94.0	93.8	93.4	93.1	94.0	—
29	—	—	—	—	—	—	—	—	—	—	—	—	93.4
30	95.8	94.2	94.0	94.9	96.7	96.2	96.4	96.1	96.2	96.1	95.8	96.1	96.7
31	99.9	98.6	98.0	97.5	97.8	98.1	97.4	97.1	96.8	96.5	96.8	96.5	96.2
Hourly Means	91.40	89.82	89.03	89.30	89.47	88.53	88.21	88.15	88.07	88.21	88.67	89.18	89.61

TEMPERATURE OF THE MAGNET.													
April 30	66.1	66.3	66.2	66.4	66.4	66.3	66.3	66.2	66.0	65.9	65.7	65.7	—
1	—	—	—	—	—	—	—	—	—	—	—	—	64.7
2	64.5	64.7	64.9	65.5	65.7	65.8	65.9	66.0	65.8	65.7	65.4	64.9	64.7
3	64.0	64.3	64.7	65.2	65.5	65.6	65.7	65.4	65.0	64.9	65.0	65.0	65.1
4	65.5	65.6	65.7	65.9	66.0	66.0	66.2	66.2	66.0	65.9	65.7	65.4	65.0
5	62.9	63.0	63.2	63.5	63.6	63.7	63.6	63.5	63.4	63.2	63.1	62.9	62.6
6	62.0	62.6	63.0	63.4	63.7	64.3	64.6	64.6	64.6	64.5	64.5	64.3	64.1
7	63.4	63.6	63.7	64.0	64.1	64.0	63.9	63.5	63.3	63.0	62.8	62.7	—
8	—	—	—	—	—	—	—	—	—	—	—	—	65.5
9	66.3	66.7	66.9	67.2	67.3	67.4	67.0	66.9	66.9	66.7	66.7	66.8	66.6
10	65.9	66.1	66.2	66.5	66.7	66.8	66.9	66.8	66.7	66.6	66.2	66.3	66.3
11	64.8	64.9	65.3	65.5	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.3	64.7
12	63.0	63.3	63.7	63.8	64.0	64.1	64.5	64.5	64.3	64.1	63.9	63.7	63.6
13	63.8	64.0	64.6	64.9	65.1	65.3	65.2	65.0	64.8	64.6	64.3	64.0	63.7
14	63.4	63.6	63.7	64.3	64.5	64.6	64.7	64.7	64.4	64.0	64.0	63.9	—
15	—	—	—	—	—	—	—	—	—	—	—	—	63.4
16	62.9	62.9	62.7	62.7	62.8	63.2	63.4	63.5	63.6	63.5	63.7	63.6	63.2
17	62.5	62.9	63.2	63.6	63.7	63.7	63.7	63.6	63.4	63.2	63.3	63.5	63.6
18	63.6	63.7	64.1	64.4	64.5	64.7	65.0	65.0	65.1	65.0	64.9	64.7	64.2
19	63.0	63.3	63.6	63.8	64.1	64.3	64.4	64.1	63.9	63.8	63.7	63.6	63.3
20	62.7	63.0	63.5	63.7	64.0	64.2	64.0	63.9	63.8	63.7	63.8	63.6	63.5
21	62.8	63.1	63.5	64.1	64.5	64.5	64.6	64.4	64.1	63.7	63.5	62.9	—
22	—	—	—	—	—	—	—	—	—	—	—	—	62.4
23	61.6	62.0	62.4	62.7	63.2	63.4	63.3	63.4	63.5	63.5	63.5	63.5	63.5
24	62.7	62.7	62.9	63.2	63.3	63.3	63.2	63.2	63.0	62.7	62.7	62.8	63.0
25	62.0	62.0	62.4	62.7	62.8	62.9	63.5	63.7	63.7	63.4	63.2	62.7	62.4
26	61.5	61.4	61.4	61.3	61.2	61.0	60.9	60.7	60.7	60.5	60.4	60.1	59.9
27	59.6	59.8	59.8	60.0	60.3	60.5	60.4	60.3	60.2	60.2	60.4	60.7	60.8
28	60.6	60.7	60.7	60.8	61.0	61.3	61.7	61.8	61.9	62.0	62.0	61.7	—
29	—	—	—	—	—	—	—	—	—	—	—	—	60.2
30	59.5	59.6	59.5	59.6	59.6	59.7	59.7	59.6	59.5	59.4	59.1	59.0	58.9
31	58.9	59.0	59.3	59.7	59.7	59.8	59.7	59.5	59.4	59.4	59.4	59.6	59.7
Hourly Means	62.94	63.14	63.36	63.64	63.81	63.93	63.99	63.91	63.80	63.66	63.58	63.44	63.28

HORIZONTAL FORCE.												
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00028.												
Mean Göttingen Time.	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.
April 30	—	—	—	—	—	—	—	—	—	—	—	88.05
1	89.4	90.3	90.3	90.9	90.9	91.2	92.8	94.5	94.5	94.7	91.9	89.75
2	88.6	89.3	90.0	90.4	90.9	91.3	93.2	94.0	93.9	93.4	92.1	88.68
3	88.5	88.8	88.9	89.3	89.4	89.9	91.2	92.5	93.1	93.2	92.1	90.45
4	88.0	88.4	89.9	91.0	91.8	92.6	94.0	96.2	96.4	95.8	94.2	92.98
5	91.9	92.0	93.3	93.8	94.3	95.4	97.2	100.3	100.4	99.1	99.3	88.83
6	86.8	87.6	88.8	89.6	90.3	91.9	94.0	93.9	95.0	95.8	94.2	86.97
7	—	—	—	—	—	—	—	—	—	—	—	84.97
8	85.5	86.6	86.5	86.7	86.9	87.3	87.9	90.2	90.4	89.1	88.4	85.06
9	84.7	85.0	84.5	85.0	85.0	85.7	87.0	87.8	88.9	88.9	87.4	87.87
10	84.9	85.0	85.2	88.0	86.9	85.9	88.0	88.8	88.8	87.2	86.9	90.28
11	90.2	89.1	88.8	89.1	89.7	90.6	91.3	93.2	93.3	91.1	91.3	89.96
12	89.9	90.4	90.1	90.2	91.0	91.3	93.9	95.9	96.3	94.7	93.0	91.08
13	89.5	89.0	89.2	90.1	90.4	90.9	93.0	94.1	94.1	93.6	92.6	83.03
14	—	—	—	—	—	—	—	—	—	—	—	85.15
15	89.2	88.9	91.0	93.5	93.8	93.6	95.2	94.3	94.8	96.5	93.3	87.55
16	84.3	85.6	88.8	89.7	87.0	89.1	90.2	92.6	89.5	83.5	89.4	88.44
17	86.8	87.0	85.0	85.5	85.4	86.9	88.5	90.2	89.9	88.1	83.9	91.07
18	86.8	87.1	87.8	89.1	90.0	90.9	91.6	92.5	92.5	92.5	91.0	92.66
19	88.3	88.8	88.9	88.5	89.6	90.3	91.7	92.9	94.2	94.2	93.5	93.51
20	90.4	90.5	90.4	90.7	91.2	92.1	92.9	95.1	96.5	94.9	94.0	93.80
21	—	—	—	—	—	—	—	—	—	—	—	94.08
22	93.0	93.1	93.5	93.7	94.1	94.9	95.7	96.9	97.0	96.8	96.9	96.55
23	92.2	92.4	92.2	92.6	92.7	93.3	94.8	95.2	94.8	95.8	96.2	95.96
24	93.0	93.2	93.9	94.0	93.8	94.4	95.9	97.0	96.6	96.6	96.9	97.15
25	94.4	94.5	94.2	93.6	93.9	94.3	95.5	96.5	96.2	96.7	91.6	97.47
26	96.5	95.8	96.8	97.0	96.5	97.3	98.6	100.5	100.1	99.8	97.6	90.62
27	95.8	95.0	94.7	95.7	95.6	96.0	96.1	97.1	97.3	97.0	97.9	95.42
28	—	—	—	—	—	—	—	—	—	—	—	97.15
29	93.7	94.5	95.0	95.6	96.4	97.0	98.1	93.8	93.8	98.7	97.7	97.15
30	97.0	96.8	97.1	97.2	97.2	98.1	99.9	101.0	101.1	101.0	100.0	97.47
31	96.0	96.1	96.1	96.3	96.8	97.5	98.3	99.2	99.2	98.5	98.0	90.62
Hourly Means	90.20	90.40	90.77	91.36	91.54	92.21	93.57	94.67	94.76	94.34	93.38	90.62

TEMPERATURE OF THE MAGNET.												
	°	°	°	°	°	°	°	°	°	°	°	°
April 30	—	—	—	—	—	—	—	—	—	—	—	65.22
1	64.6	64.5	64.3	64.4	64.5	64.5	64.4	64.0	63.9	63.9	64.1	64.64
2	64.7	64.3	64.2	64.0	63.8	63.7	63.6	62.9	63.4	63.5	63.7	65.00
3	64.1	65.0	66.0	65.0	64.9	65.0	65.0	64.8	64.8	64.9	65.0	64.73
4	64.8	64.6	63.9	63.7	63.5	63.5	63.1	62.8	62.8	62.8	62.8	62.58
5	62.5	62.4	62.1	61.7	61.5	61.7	61.5	61.5	61.5	61.7	61.7	63.66
6	64.1	63.8	63.6	63.5	63.4	63.4	63.3	63.3	63.2	62.9	63.1	64.59
7	—	—	—	—	—	—	—	—	—	—	—	66.46
8	65.5	65.5	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.9	66.0	65.98
9	66.5	66.4	66.4	66.1	66.1	65.7	65.7	65.7	65.7	65.7	65.7	64.35
10	66.2	66.1	65.8	65.7	65.7	65.8	65.2	64.8	64.7	64.7	64.7	63.66
11	64.3	63.9	63.5	63.2	63.1	63.1	62.9	62.5	62.5	62.6	62.7	63.92
12	63.5	63.4	63.6	63.5	63.5	63.4	63.3	63.2	63.2	63.2	63.5	63.62
13	63.7	63.5	63.5	63.3	63.2	63.3	63.1	62.8	62.8	62.7	63.0	62.84
14	—	—	—	—	—	—	—	—	—	—	—	63.43
15	63.3	63.3	63.2	63.3	63.3	63.0	62.9	62.8	62.7	62.9	62.9	63.85
16	62.8	62.7	62.6	62.5	62.2	62.4	62.4	62.3	62.3	62.1	62.2	63.22
17	63.6	63.6	63.7	63.7	63.6	63.7	63.6	63.4	63.1	63.1	63.4	63.14
18	63.8	63.7	63.5	63.4	63.0	62.8	62.7	62.6	62.5	62.6	62.8	62.67
19	63.0	62.9	63.0	62.8	62.7	62.7	62.4	62.2	62.2	62.1	62.4	62.70
20	63.4	63.2	63.0	62.9	62.7	62.4	62.0	61.9	61.9	62.1	62.5	62.28
21	—	—	—	—	—	—	—	—	—	—	—	60.20
22	62.0	62.5	62.1	61.7	61.0	61.3	61.1	60.8	60.9	61.1	61.4	60.54
23	63.5	63.4	63.2	63.2	63.1	62.9	62.9	62.9	62.9	62.7	62.7	60.56
24	62.8	62.7	62.7	62.7	62.6	62.5	62.4	62.2	62.0	61.8	61.8	59.17
25	61.9	61.7	61.7	61.6	61.6	61.7	61.7	61.4	61.3	61.5	61.3	59.45
26	59.7	59.6	59.6	59.5	59.4	59.6	59.3	59.2	59.1	59.3	59.5	60.20
27	60.9	61.2	61.2	61.0	60.9	61.1	61.0	60.8	60.7	60.5	60.6	60.54
28	—	—	—	—	—	—	—	—	—	—	—	60.56
29	60.0	60.0	59.7	59.8	59.7	59.7	59.7	59.7	59.6	59.6	59.5	59.17
30	58.7	58.7	58.6	58.8	59.2	59.2	59.0	58.9	58.8	58.7	58.7	59.45
31	59.7	59.7	59.7	59.6	59.6	59.6	59.6	59.2	58.9	59.0	59.0	63.17
Hourly Means	63.10	63.05	62.96	62.83	62.72	62.72	62.57	62.38	62.34	62.36	62.47	63.17

HORIZONTAL FORCE.														
One Scale Division = .00018 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 .	12 ^h .	
JUNE.	1	97.7	98.0	98.0	98.7	98.8	97.9	95.6	93.4	90.9	89.9	91.3	93.0	93.4
	2	96.4	95.2	94.9	91.6	96.9	97.4	97.0	96.4	96.4	96.0	96.3	95.8	97.0
	3	98.7	97.4	95.7	96.6	96.7	96.2	95.0	95.0	97.1	96.7	97.9	99.4	99.4
	4	102.0	101.6	102.0	103.0	110.7	108.6	106.0	90.2	84.0	86.0	89.2	83.6	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	92.9
	6	97.0	95.0	94.7	94.2	94.0	93.8	94.0	93.6	93.2	92.4	92.9	93.0	93.2
	7	93.8	93.7	92.5	92.9	93.8	93.6	92.9	93.0	93.0	92.8	93.0	93.4	92.5
	8	94.3	94.0	94.0	94.0	95.9	95.1	93.8	92.0	89.8	90.5	90.2	91.7	94.8
	9	100.5	97.1	94.0	95.7	96.6	96.5	96.0	93.0	92.2	93.1	92.2	94.8	96.1
	10	101.6	106.7	108.9	106.4	106.1	102.9	99.0	96.4	95.0	94.9	95.8	96.3	96.9
	11	98.0	97.3	96.9	97.2	98.3	98.0	97.1	96.7	96.3	96.2	95.6	95.8	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	96.9
	13	101.6	101.2	96.0	93.5	98.0	97.8	97.2	96.2	96.0	93.6	94.0	93.9	101.0
	14	94.0	89.9	92.8	94.1	93.3	88.4	91.3	91.7	89.5	89.3	92.9	92.3	91.0
	15	92.6	93.0	93.3	94.5	94.8	94.7	93.4	92.9	92.4	93.1	93.4	94.0	94.4
	16	100.0	97.8	96.9	96.6	97.3	96.5	96.8	96.9	97.2	97.6	97.5	97.8	97.6
	17	98.8	98.0	98.4	98.4	98.5	98.0	98.0	97.9	97.9	98.0	98.1	98.7	99.0
	18	101.1	99.9	98.9	99.8	101.0	100.2	99.0	98.9	98.3	98.4	97.6	97.3	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	84.0
	20	91.5	90.7	91.1	89.9	90.9	91.0	91.0	91.0	90.7	90.6	90.7	90.7	90.1
	21	93.1	92.8	92.3	91.9	92.8	93.0	92.4	91.8	91.4	91.8	91.9	91.8	92.3
	22	93.6	92.2	93.0	93.7	94.7	95.7	95.2	94.2	93.2	93.2	94.0	93.2	94.5
	23	94.1	90.6	91.4	92.1	92.8	92.7	91.5	88.8	90.7	88.9	88.9	101.0	93.1
	24	87.9	89.3	89.7	92.7	93.6	93.3	93.0	91.5	90.8	92.2	92.0	91.8	92.4
	25	95.2	93.9	93.8	93.8	95.2	95.1	94.0	92.7	92.9	91.7	93.8	94.0	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	92.2
	27	97.1	96.4	95.9	95.9	96.6	95.4	94.9	93.3	93.6	93.3	93.1	93.7	94.0
	28	96.4	96.0	95.9	95.1	95.4	95.2	94.8	94.3	94.0	94.0	93.9	93.6	93.7
	29	96.9	96.2	96.0	96.5	96.9	96.7	95.1	94.0	93.1	93.0	93.0	94.2	94.8
	30	98.4	97.4	97.9	98.0	98.7	98.3	97.6	98.4	98.5	97.8	97.8	99.3	99.1
Hourly Means	96.63	95.82	95.57	95.65	96.86	96.23	95.45	94.01	93.39	93.27	93.73	94.39	94.47	
TEMPERATURE OF THE MAGNET.														
JUNE.	1	59.3	59.7	59.9	60.2	60.4	60.7	60.9	61.2	61.2	61.3	61.3	61.2	60.9
	2	58.9	58.8	58.7	58.7	58.6	58.4	58.2	58.0	57.7	57.7	57.6	57.7	57.6
	3	56.2	56.3	56.4	56.6	56.7	56.9	56.7	56.6	56.6	56.3	56.1	56.0	55.8
	4	54.9	55.0	55.4	55.6	55.8	55.9	55.8	55.8	56.2	56.6	56.8	56.9	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	55.9
	6	55.9	56.3	56.9	57.2	57.6	57.8	57.9	57.8	57.7	57.7	57.6	57.5	57.5
	7	57.5	57.7	57.8	58.2	58.5	58.2	58.5	58.5	58.3	58.2	57.9	58.1	58.4
	8	57.1	57.1	57.4	57.5	57.4	57.7	58.0	58.2	58.1	58.0	58.2	57.7	57.7
	9	56.3	56.6	57.4	57.7	58.1	58.1	57.9	57.7	57.7	57.5	57.5	57.1	56.9
	10	55.7	55.7	55.8	56.1	56.6	56.7	57.0	56.8	56.6	56.5	56.4	56.3	56.1
	11	55.7	56.4	57.0	57.7	58.0	58.4	58.3	58.3	58.3	58.2	57.8	57.8	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	56.7
	13	55.4	56.0	56.7	57.1	57.5	57.8	58.1	58.0	57.8	57.7	57.3	57.1	56.9
	14	56.7	57.3	57.5	57.7	58.2	58.5	58.5	58.7	58.7	58.8	58.7	59.3	59.6
	15	58.8	58.8	58.7	58.8	58.7	58.7	59.1	59.1	59.0	58.8	58.7	58.3	57.8
	16	56.2	56.7	57.2	57.6	57.8	57.8	57.7	57.6	57.3	56.9	57.0	56.8	56.7
	17	56.7	57.0	57.8	58.3	58.5	58.5	58.3	58.1	57.8	57.4	57.1	56.9	56.7
	18	56.1	56.9	57.7	58.4	58.7	58.9	59.2	59.2	59.1	58.9	58.4	58.2	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	60.7
	20	60.1	60.5	60.8	61.3	61.5	61.6	61.7	61.7	61.6	61.5	61.3	61.2	61.0
	21	60.4	60.6	60.7	61.0	61.1	61.2	61.2	61.2	61.3	61.2	61.5	61.6	61.8
	22	61.7	61.7	61.9	62.1	62.3	62.7	63.0	63.2	63.2	63.2	62.9	62.7	62.7
	23	60.9	60.9	61.0	61.1	61.0	61.3	61.5	61.5	61.5	61.5	61.5	61.4	61.2
	24	59.7	59.8	59.7	59.8	59.7	59.8	60.0	60.0	59.9	59.9	59.9	59.7	59.7
	25	59.5	59.7	60.0	60.2	60.6	60.7	60.7	60.7	60.6	60.5	60.4	60.2	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	60.2
	27	59.5	59.6	59.8	60.1	60.4	60.4	60.4	60.4	60.1	60.0	60.2	60.2	60.1
	28	59.8	60.0	60.2	60.4	60.6	60.5	60.4	60.3	60.2	60.1	60.0	60.3	60.4
	29	60.7	60.7	60.8	60.9	61.0	61.3	61.6	61.7	61.6	61.5	61.0	60.7	60.3
	30	58.0	57.9	57.9	57.9	57.9	57.8	57.6	57.1	56.9	56.7	56.6	56.4	56.2
Hourly Means	57.99	58.22	58.50	58.78	58.97	59.09	59.16	59.13	59.03	58.94	58.83	58.73	58.67	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

Mean Göttingen Time.	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.
JUNE. 1	94.8	95.3	96.0	94.8	95.0	95.8	97.0	99.9	99.9	98.9	99.1	96.38
2	97.4	97.9	99.5	99.5	99.2	99.4	100.0	100.2	100.7	100.2	99.9	97.55
3	99.5	100.2	101.4	101.3	102.0	103.7	103.4	104.3	104.2	102.0	101.2	99.38
4	—	—	—	—	—	—	—	—	—	—	—	96.28
5	93.3	93.7	93.5	94.4	94.7	95.0	96.3	97.3	98.0	97.5	97.2	94.81
6	93.2	95.5	95.5	94.1	94.5	95.3	96.9	99.3	97.5	97.9	94.7	94.20
7	92.8	93.2	93.8	93.9	94.5	95.0	97.0	98.0	98.3	97.2	96.2	95.86
8	93.9	94.5	95.6	95.4	98.1	98.7	100.5	104.1	105.2	102.8	101.8	96.84
9	97.2	96.4	98.8	97.3	98.5	99.1	99.9	100.8	100.2	100.1	98.0	100.30
10	97.5	97.8	97.5	98.0	98.8	103.4	101.2	102.2	102.9	101.4	99.5	99.15
11	—	—	—	—	—	—	—	—	—	—	—	97.18
12	97.1	98.5	100.2	101.9	101.2	102.2	101.7	103.3	105.1	105.0	103.2	93.18
13	98.8	95.0	96.6	95.6	95.7	96.9	96.3	99.6	100.9	100.8	96.1	95.77
14	92.2	93.1	95.7	95.3	94.6	94.0	96.8	98.0	96.1	95.4	94.7	98.43
15	95.5	95.8	96.1	96.0	98.1	98.5	99.4	100.5	100.8	100.4	100.9	99.74
16	97.9	98.0	97.9	98.0	98.4	99.4	101.1	102.8	101.9	100.9	99.6	94.18
17	99.1	99.5	100.3	100.3	100.8	100.6	101.7	103.5	104.5	103.3	102.5	91.61
18	—	—	—	—	—	—	—	—	—	—	—	93.03
19	85.5	86.5	87.2	87.3	87.8	89.3	90.1	92.2	93.8	94.0	92.3	93.79
20	90.5	90.3	90.8	91.1	91.1	91.7	93.2	95.0	95.9	95.1	94.0	92.73
21	92.5	92.2	92.0	92.0	92.3	93.7	94.5	96.0	96.5	96.0	95.8	93.23
22	95.9	93.8	92.3	93.4	92.1	92.8	93.4	94.1	93.9	94.1	94.8	94.83
23	91.9	92.2	92.7	94.1	94.2	94.0	97.7	96.3	96.9	96.7	92.1	95.53
24	92.8	93.6	93.6	94.5	95.0	94.2	96.2	98.1	98.1	96.9	94.2	94.96
25	—	—	—	—	—	—	—	—	—	—	—	97.13
26	93.2	93.1	93.6	95.0	95.5	95.3	96.6	98.2	99.1	99.0	98.9	100.22
27	94.7	94.9	95.5	94.8	94.9	95.4	96.8	98.5	98.7	98.3	97.0	
28	93.9	93.9	94.1	94.2	94.3	94.2	95.0	96.0	96.9	97.2	97.0	
29	95.3	95.7	99.1	99.0	100.4	100.3	100.5	100.7	101.7	101.7	100.4	
30	99.9	100.6	101.3	106.7	102.1	101.1	101.5	103.1	104.6	104.2	103.0	
Hourly Means	94.86	95.05	95.79	96.07	96.30	96.88	97.87	99.31	99.70	99.12	97.85	96.01

TEMPERATURE OF THE MAGNET.

JUNE. 1	60.8	60.7	60.6	60.7	60.7	60.6	60.4	60.1	59.8	59.6	59.2	60.48
2	57.7	57.6	56.9	56.7	56.7	57.0	57.0	56.8	56.6	56.5	56.3	57.60
3	55.4	55.2	54.9	54.7	54.5	54.4	54.6	54.7	54.7	54.9	54.9	55.63
4	—	—	—	—	—	—	—	—	—	—	—	55.73
5	55.7	55.7	55.6	55.7	55.7	55.6	55.5	55.4	55.3	55.3	55.5	57.15
6	57.1	57.0	57.1	57.0	57.0	56.9	56.9	56.8	56.7	56.8	57.0	58.00
7	58.3	58.3	58.3	58.2	58.1	57.8	57.7	57.6	57.5	57.3	57.1	57.03
8	57.5	56.9	56.7	56.5	56.2	56.0	55.8	55.6	55.6	55.7	56.0	56.79
9	56.7	56.6	56.3	56.2	56.0	55.7	55.9	55.9	55.7	55.7	55.7	55.94
10	56.0	56.0	55.8	55.7	55.7	55.5	55.2	55.1	55.0	55.0	55.3	56.62
11	—	—	—	—	—	—	—	—	—	—	—	56.66
12	56.5	56.0	56.1	55.8	55.6	55.5	55.3	54.9	54.8	54.8	54.9	58.80
13	56.7	56.5	56.3	56.1	55.9	55.9	55.8	55.7	55.6	55.7	56.2	57.58
14	59.7	59.6	59.6	59.6	59.5	59.6	59.6	59.3	58.9	58.8	58.7	56.88
15	57.6	57.4	56.8	56.5	56.0	56.3	55.9	55.6	55.4	55.5	55.7	56.64
16	56.7	56.7	56.6	56.6	56.5	56.5	56.4	56.3	56.4	56.4	56.6	59.24
17	56.5	56.0	55.9	55.7	55.5	55.3	55.2	54.9	54.8	55.0	55.5	60.84
18	—	—	—	—	—	—	—	—	—	—	—	61.48
19	60.6	60.5	60.5	60.4	60.2	59.9	59.9	59.8	59.7	59.9	60.0	62.26
20	60.8	60.7	60.7	60.5	60.4	60.3	60.2	60.1	60.3	60.2	60.2	60.80
21	61.9	62.0	62.0	62.0	62.0	61.8	61.8	61.9	61.8	61.7	61.7	59.62
22	62.6	62.5	62.5	62.4	62.1	62.1	61.9	61.6	61.4	61.0	60.9	59.91
23	60.9	60.7	60.7	60.5	60.4	60.4	60.2	60.0	59.8	59.7	59.7	59.91
24	59.7	59.6	59.6	59.6	59.5	59.5	59.4	59.2	59.2	58.9	59.1	59.91
25	—	—	—	—	—	—	—	—	—	—	—	59.94
26	60.0	59.8	59.7	59.7	59.5	59.4	59.2	59.1	59.0	59.2	59.3	60.49
27	60.0	60.0	59.9	59.9	59.8	59.7	59.7	59.5	59.6	59.5	59.7	60.15
28	60.5	60.6	60.7	60.7	60.8	61.0	61.0	61.0	60.8	60.7	60.7	56.36
29	59.9	59.8	59.7	59.6	59.4	59.3	59.0	58.6	58.3	58.1	58.0	
30	55.9	55.7	55.5	55.3	55.4	55.4	55.2	54.9	54.7	54.8	54.9	
Hourly Means	58.53	58.39	58.27	58.17	58.04	57.98	57.87	57.71	57.59	57.57	57.65	59.40

HORIZONTAL FORCE.														
One Scale Division = .00018 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 .	12 ^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.	
JULY.	1	100.7	101.4	102.5	102.7	101.3	97.0	94.4	93.8	94.9	93.2	93.8	93.0	95.6
	2	87.0	79.7	89.3	91.2	88.7	87.9	73.9	86.5	75.9	74.2	73.0	79.3	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	86.0
	4	78.5	76.4	72.2	75.9	72.2	74.9	75.2	79.0	79.5	83.9	82.4	82.0	83.3
	5	88.3	89.0	87.8	87.4	88.0	87.9	87.7	87.2	86.7	86.7	86.9	87.2	88.1
	6	96.3	94.5	94.1	94.7	92.9	92.2	92.6	92.8	91.0	90.8	90.4	90.9	90.2
	7	94.7	94.2	93.0	93.1	91.9	91.1	90.2	90.2	89.3	89.0	89.2	89.3	90.2
	8	95.2	94.1	93.8	93.0	94.0	94.1	93.3	92.5	91.2	91.7	91.3	90.1	91.0
	9	95.9	89.6	90.7	91.1	92.8	88.3	88.4	88.2	87.7	89.7	90.3	96.9	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	93.8
	11	96.1	95.5	94.8	94.3	94.9	94.2	92.3	91.8	92.1	92.3	93.4	93.6	94.0
	12	96.9	96.7	96.2	95.4	96.0	95.5	94.5	93.4	91.2	92.0	93.0	93.2	93.2
	13	100.5	100.0	99.5	98.4	95.5	96.2	96.4	95.8	95.5	95.5	95.1	94.0	95.0
	14	97.0	95.9	95.2	95.4	95.4	95.0	94.8	95.0	95.3	95.1	95.3	95.9	96.2
	15	98.9	97.4	96.2	96.0	96.0	95.8	95.0	94.0	93.6	94.0	94.0	94.5	95.0
	16	96.0	93.9	92.5	90.7	92.0	93.2	93.0	92.5	92.2	91.9	93.8	92.5	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	94.0
	18	97.0	95.5	94.3	94.2	94.9	93.5	93.1	92.5	92.8	93.0	93.2	93.7	94.1
	19	95.9	95.6	93.8	94.0	95.0	93.9	93.0	91.3	91.6	91.1	91.3	93.1	93.2
	20	94.7	94.0	93.6	93.5	93.9	93.5	93.2	91.9	91.9	91.5	92.1	92.1	91.0
	21	94.8	93.4	91.8	90.9	91.6	91.2	90.3	90.2	89.8	89.5	89.9	90.1	90.7
	22	96.0	95.1	93.5	91.3	93.0	92.7	92.2	92.2	91.8	91.7	91.2	91.8	92.9
	23	95.2	91.5	90.9	91.6	92.0	91.1	91.0	92.0	89.6	94.2	91.2	89.5	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	93.9
	25	95.9	96.7	96.7	96.3	96.1	95.1	94.9	94.8	94.5	94.4	94.6	94.8	96.2
	26	100.6	100.3	100.8	98.3	96.3	95.3	94.9	94.1	92.9	91.9	92.3	91.9	92.5
	27	90.0	91.1	92.8	92.4	91.2	91.8	90.1	90.2	90.3	90.9	91.9	93.0	93.4
	28	98.7	97.9	99.0	99.2	98.4	97.7	97.6	98.6	98.3	96.6	95.1	95.2	95.3
	29	101.7	106.2	104.4	102.8	101.4	100.1	99.8	98.6	96.7	94.4	93.5	94.7	96.4
	30	99.3	99.8	98.7	97.8	97.3	98.2	98.0	97.4	96.1	96.5	96.8	95.8	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	97.3
Hourly Means	95.45	94.44	94.16	93.91	93.57	92.98	91.92	92.18	91.25	91.36	91.30	91.89	92.76	
TEMPERATURE OF THE MAGNET.														
JULY.	1	55.0	55.6	55.7	56.2	56.6	56.7	56.7	56.5	56.3	56.2	55.9	55.7	55.7
	2	55.1	55.5	55.7	55.8	55.9	56.4	56.7	56.7	56.7	56.7	56.9	56.9	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	56.6
	4	57.4	57.7	57.8	58.1	58.4	58.8	59.2	59.2	59.3	58.9	59.2	59.4	59.1
	5	57.4	57.7	58.0	58.4	58.8	59.0	59.3	59.3	59.2	59.0	58.7	58.5	58.1
	6	56.8	57.1	57.7	57.9	58.4	58.5	58.5	58.5	58.2	58.1	58.1	58.0	57.9
	7	57.9	58.3	58.7	59.0	59.5	59.6	59.7	59.7	59.5	59.5	59.5	59.5	59.3
	8	59.2	59.3	59.2	59.2	59.4	59.5	59.5	59.5	59.5	59.5	59.6	59.5	59.6
	9	58.5	58.5	58.4	58.4	58.4	58.3	58.3	58.0	57.7	57.6	57.1	56.9	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	55.8
	11	55.7	56.4	56.8	57.7	58.1	58.0	57.9	57.7	57.5	57.3	56.9	56.7	56.7
	12	56.5	56.9	57.5	57.8	58.0	57.9	57.7	57.7	57.7	57.7	57.6	57.5	57.4
	13	56.6	56.7	56.7	57.4	57.4	57.4	57.4	57.3	57.3	57.4	57.6	57.6	57.6
	14	57.5	57.7	57.7	58.0	58.0	57.9	57.7	57.6	57.4	56.9	56.9	56.8	56.6
	15	56.0	56.6	56.9	57.6	58.0	58.2	58.1	58.0	57.8	57.7	57.7	57.6	57.5
	16	57.8	58.2	58.7	59.2	59.6	59.7	59.8	59.8	59.7	59.7	59.5	59.5	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	59.6
	18	59.7	60.0	60.5	60.7	61.0	61.3	61.0	61.1	60.9	60.8	60.7	60.4	60.1
	19	58.4	58.6	58.8	59.0	59.2	59.2	59.4	59.4	59.3	59.1	58.8	58.8	58.7
	20	58.6	58.8	59.1	59.6	59.6	59.9	59.9	59.9	59.8	59.8	59.9	60.2	60.5
	21	60.6	60.6	60.7	60.7	60.8	61.0	61.4	61.5	61.7	61.7	61.8	61.5	61.3
	22	59.9	60.0	60.2	60.4	60.6	60.8	60.8	60.8	60.7	60.6	60.4	60.2	59.9
	23	59.0	59.1	59.4	59.5	59.6	59.6	59.7	59.6	59.5	59.1	58.8	58.8	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	57.3
	25	56.1	56.7	57.3	57.8	58.3	58.5	58.4	58.1	57.9	57.8	57.6	57.6	57.4
	26	56.7	57.3	57.7	58.7	59.1	59.4	59.7	59.7	59.7	59.7	59.8	59.7	59.5
	27	59.1	59.4	59.6	59.8	60.0	60.2	60.5	60.6	60.6	60.6	60.2	60.0	59.9
	28	58.2	58.3	58.3	58.3	58.2	57.8	57.7	57.4	57.3	56.9	56.7	56.5	56.0
	29	55.4	55.7	56.0	56.5	56.7	56.7	56.9	56.8	56.7	56.5	56.2	56.0	55.8
	30	56.3	56.5	56.5	56.6	56.7	56.6	56.6	56.6	56.4	56.1	55.8	55.8	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	54.8
Hourly Means	57.52	57.81	58.06	58.40	58.63	58.73	58.79	58.73	58.63	58.50	58.38	58.29	58.03	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°, = .00027.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JULY.	1	95.6	101.2	99.9	99.4	98.3	97.4	108.3	98.9	95.8	94.1	94.1	97.80
	2	—	—	—	—	—	—	—	—	—	—	—	86.57
	3	92.1	104.7	85.6	100.0	94.2	97.0	86.4	83.1	85.9	91.1	84.9	81.83
	4	83.5	84.7	84.9	85.4	85.9	87.1	88.2	88.8	88.3	86.2	85.5	90.35
	5	90.2	89.7	89.7	91.0	93.8	96.1	94.7	94.8	95.5	96.9	97.1	92.38
	6	90.9	89.0	89.5	89.8	90.0	91.9	91.8	94.0	94.5	95.6	96.8	91.79
	7	89.9	90.3	90.3	90.9	91.1	91.7	92.6	93.6	94.8	96.2	96.1	94.01
	8	90.3	94.7	96.9	93.3	94.8	96.2	94.2	98.1	98.3	96.0	98.2	93.94
	9	—	—	—	—	—	—	—	—	—	—	—	95.25
	10	95.1	95.4	95.9	96.6	96.4	96.8	98.6	98.2	99.8	100.5	97.9	95.46
	11	94.5	95.7	96.6	96.2	96.3	95.5	97.6	98.3	98.8	99.0	98.2	96.62
	12	94.6	94.0	94.7	95.7	95.0	95.7	96.9	98.9	99.7	99.6	99.0	97.03
	13	94.7	94.1	94.0	95.2	95.6	96.0	97.5	99.1	99.8	98.7	98.0	96.89
	14	96.5	97.0	96.7	96.9	97.6	97.2	99.8	101.0	100.4	102.5	101.6	94.20
	15	95.2	95.7	96.1	96.8	98.2	98.8	99.0	100.3	101.7	103.0	100.1	94.73
	16	—	—	—	—	—	—	—	—	—	—	—	94.46
	17	94.5	94.5	94.0	94.3	94.2	94.0	95.5	97.1	98.1	98.7	97.7	92.86
	18	94.9	94.3	95.3	95.2	95.4	95.2	96.0	98.3	97.0	94.9	95.3	92.36
	19	94.5	95.0	95.5	96.0	96.5	95.6	94.8	95.6	96.8	96.9	97.1	94.31
	20	93.7	92.9	92.0	90.9	91.2	91.3	92.7	93.7	94.1	95.0	94.3	94.25
	21	91.8	91.9	92.0	91.8	92.7	93.1	94.9	96.0	95.9	96.4	6.0	97.07
	22	94.2	95.1	94.1	94.6	95.9	95.0	96.8	98.3	97.8	97.5	98.7	95.26
	23	—	—	—	—	—	—	—	—	—	—	—	93.96
	24	94.8	95.6	96.6	96.3	99.3	97.6	97.2	98.5	98.5	98.1	95.7	98.88
	25	96.0	96.5	97.1	98.1	98.1	99.4	99.6	101.7	101.5	100.6	100.1	99.66
	26	93.0	93.8	94.8	95.6	95.8	96.0	97.2	96.6	94.8	93.5	93.0	99.74
	27	93.2	93.2	94.0	95.0	95.9	96.8	97.9	100.1	99.6	100.3	100.0	94.29
	28	95.8	98.6	97.9	98.7	99.0	99.4	100.9	103.4	103.9	105.0	102.9	97.73
	29	97.8	100.5	98.2	98.4	98.1	101.1	101.5	102.2	103.0	100.3	100.1	94.73
	30	—	—	—	—	—	—	—	—	—	—	—	94.46
	31	99.8	99.5	104.8	105.9	106.8	105.4	105.7	103.8	104.4	96.5	92.1	92.86
Hourly Means	93.73	94.91	94.50	95.31	95.62	96.05	96.78	97.40	97.64	97.41	96.56	94.29	

TEMPERATURE OF THE MAGNET.

JULY.	1	55.6	55.4	54.8	54.8	55.1	55.2	55.2	55.0	54.9	54.7	54.9	55.60
	2	—	—	—	—	—	—	—	—	—	—	—	56.62
	3	56.6	56.6	56.4	56.9	57.1	57.6	57.5	57.3	57.2	56.9	57.2	58.18
	4	58.9	58.6	58.3	57.9	57.7	57.6	57.4	56.9	56.8	56.7	57.0	57.92
	5	57.7	57.7	57.6	57.5	57.4	57.4	57.0	56.8	56.6	56.4	56.5	57.86
	6	57.8	57.8	57.7	57.7	57.7	57.7	57.7	57.6	57.6	57.7	57.9	59.12
	7	59.3	59.1	58.8	59.0	59.0	59.1	59.0	59.0	58.9	58.9	59.0	59.21
	8	59.5	59.5	59.2	59.1	59.0	59.0	58.9	58.8	58.7	58.5	58.4	56.73
	9	—	—	—	—	—	—	—	—	—	—	—	56.61
	10	55.7	55.7	55.6	55.7	55.7	55.6	55.2	54.9	55.0	55.1	55.4	57.28
	11	56.5	56.3	56.2	56.2	55.9	56.0	55.7	55.5	55.4	55.6	55.9	57.28
	12	57.3	57.3	57.2	57.1	56.9	57.1	56.9	56.9	56.8	56.7	56.7	56.63
	13	57.6	57.6	57.6	57.5	57.3	57.3	57.1	57.2	57.0	57.0	57.2	57.39
	14	56.4	56.2	55.8	55.7	55.5	55.7	55.5	55.4	55.1	55.4	55.7	59.40
	15	57.4	57.4	57.5	57.5	57.4	57.1	56.9	56.9	56.9	57.0	57.6	59.79
	16	—	—	—	—	—	—	—	—	—	—	—	58.66
	17	59.6	59.6	59.7	59.6	59.6	59.5	59.4	59.4	59.4	59.4	59.5	60.17
	18	59.8	59.5	59.2	58.9	58.7	58.9	58.7	58.5	58.3	58.0	58.2	60.86
	19	58.7	58.7	58.6	58.5	58.2	58.3	58.0	57.9	57.9	58.0	58.3	59.90
	20	60.6	60.7	60.8	60.8	60.9	60.9	60.9	60.9	60.7	60.7	60.6	57.77
	21	61.0	60.8	60.7	60.7	60.6	60.5	60.5	60.5	60.3	59.9	59.8	56.93
	22	59.7	59.7	59.7	59.6	59.5	59.3	59.1	59.0	58.9	58.9	58.9	58.92
	23	—	—	—	—	—	—	—	—	—	—	—	59.50
	24	57.3	56.9	56.7	56.5	56.2	55.9	55.8	55.6	55.2	55.6	55.8	56.51
	25	57.2	56.8	56.6	56.4	55.9	55.7	55.7	55.4	55.5	55.7	56.0	56.06
	26	59.4	59.2	58.9	58.9	58.8	58.7	58.7	58.6	58.7	58.7	58.8	55.25
	27	59.7	59.6	59.5	59.1	58.9	58.8	58.7	58.5	58.4	58.1	58.2	57.91
	28	55.8	55.7	55.8	55.6	55.4	55.4	55.3	54.9	54.9	54.8	55.0	58.92
	29	55.8	55.8	55.8	55.8	55.8	55.7	55.7	55.7	55.7	55.8	56.0	59.50
	30	—	—	—	—	—	—	—	—	—	—	—	56.51
	31	54.8	54.8	54.7	53.9	53.8	53.9	53.8	53.5	53.5	53.8	54.2	56.06
Hourly Means	57.91	57.81	57.67	57.57	57.46	57.46	57.32	57.18	57.09	57.08	57.26	57.93	

HORIZONTAL FORCE.														
One Scale Division = .00018 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 .	12 ^h .	
AUGUST.	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.	
	1	92.7	92.8	91.9	93.1	92.1	92.4	92.2	90.2	90.9	91.0	92.5	94.0	94.9
	2	99.6	98.8	97.5	96.2	96.1	96.8	96.6	95.8	94.8	94.2	94.2	94.5	94.7
	3	98.7	98.0	96.9	96.2	96.3	96.0	95.9	95.4	95.0	94.5	94.3	95.7	95.3
	4	96.6	95.8	94.7	94.1	95.3	98.5	98.1	97.9	97.4	98.2	98.0	98.9	101.1
	5	92.2	92.2	91.8	91.0	91.4	92.2	90.9	92.1	92.2	92.7	92.5	92.7	93.3
	6	95.3	95.2	93.8	93.8	94.0	86.4	91.0	92.9	91.2	92.5	91.7	90.9	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	95.8
	8	99.1	97.1	95.1	95.1	95.2	95.3	94.4	94.6	94.7	94.1	93.3	95.0	95.0
	9	95.0	94.3	93.9	93.2	93.8	95.0	94.3	94.1	94.1	94.0	94.3	94.0	94.1
	10	97.1	95.0	93.1	93.2	94.1	95.1	95.1	95.0	94.7	93.3	92.7	94.3	94.6
	11	95.9	93.2	91.1	92.5	94.6	94.4	93.7	93.0	93.0	93.1	93.4	94.2	94.3
	12	96.3	97.0	95.9	94.2	91.9	91.5	90.3	86.6	88.9	89.6	92.9	93.0	92.1
	13	95.1	93.8	91.4	90.2	91.1	91.1	92.0	91.3	91.7	91.9	93.0	91.2	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	90.0
	15	95.1	92.9	90.1	89.2	90.1	90.6	90.1	90.6	90.1	90.4	91.3	91.5	92.0
	16	95.9	93.7	91.9	91.7	92.6	94.0	93.3	92.9	92.2	91.8	92.7	93.0	93.6
	17	94.2	91.4	89.0	89.2	90.4	92.4	91.8	91.0	90.9	91.4	92.2	92.5	92.9
	18	93.7	91.2	89.7	87.0	88.7	87.7	85.7	86.2	89.5	91.5	91.1	94.8	94.1
	19	101.5	103.8	93.8	85.0	83.1	80.2	82.1	80.3	84.2	88.7	93.2	89.1	90.0
	20	100.2	96.9	94.0	93.0	92.9	92.5	93.4	93.8	94.3	94.4	99.0	95.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	93.4
	22	99.2	96.6	94.9	93.8	93.2	93.7	93.6	92.2	92.9	91.8	91.4	93.9	92.5
	23	99.3	97.7	98.2	98.2	96.0	95.2	93.6	92.2	90.9	91.6	92.0	92.9	93.5
	24	101.1	96.8	93.5	94.0	93.9	87.0	90.4	91.2	92.6	93.6	93.9	95.1	95.2
	25	97.8	96.3	96.1	93.9	91.9	93.0	92.8	91.8	93.0	92.1	91.4	93.7	92.9
	26	99.1	98.0	95.8	95.0	95.7	96.5	96.2	94.8	94.5	94.3	93.0	93.5	96.2
	27	93.1	92.5	91.9	93.3	94.3	94.1	93.7	93.4	92.2	91.8	92.3	91.7	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	96.0
	29	101.2	100.1	98.9	98.2	97.3	97.2	97.2	96.6	95.8	95.0	95.8	95.8	95.9
	30	98.2	95.4	93.6	93.0	92.8	93.7	94.2	93.1	93.4	92.9	93.3	93.7	94.0
31	97.5	96.4	95.2	94.7	95.2	96.1	95.6	95.3	95.3	95.6	95.6	95.9	95.9	
Hourly Means	97.06	95.66	93.85	93.04	93.11	92.91	92.90	92.37	92.61	92.81	93.37	93.74	94.20	
TEMPERATURE OF THE MAGNET.														
AUGUST.	1	54.7	55.4	56.0	56.6	56.9	57.0	56.8	56.8	56.7	56.7	56.9	56.8	56.7
	2	55.7	56.4	56.9	57.6	57.7	57.8	57.8	57.8	57.9	57.9	57.9	57.9	57.8
	3	57.7	57.9	58.2	58.0	58.6	58.7	58.7	58.7	58.7	58.6	58.6	58.4	58.2
	4	57.9	58.1	58.5	58.6	58.7	58.7	58.8	58.7	58.7	58.6	58.4	58.5	58.5
	5	57.8	57.8	58.0	58.0	58.2	58.4	58.4	58.5	58.6	58.7	58.7	58.7	58.7
	6	57.5	57.6	57.5	57.6	57.6	57.5	57.7	57.7	57.3	56.7	56.9	56.6	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	55.9
	8	55.7	55.8	56.4	56.7	56.9	57.0	57.0	56.8	56.8	56.8	56.8	56.8	56.9
	9	57.3	57.6	57.7	57.9	58.2	58.0	58.2	58.3	58.3	58.1	57.9	57.7	57.7
	10	58.0	58.1	58.2	58.4	58.5	58.6	58.7	58.7	58.7	58.7	58.4	58.4	58.4
	11	57.9	58.5	58.6	58.9	59.0	59.0	59.0	59.0	58.9	58.8	58.7	58.6	58.4
	12	58.2	58.8	59.4	60.0	60.3	60.5	60.4	60.0	60.2	59.9	59.9	59.7	59.6
	13	60.0	60.5	61.1	61.6	61.8	62.0	61.9	61.9	61.8	61.7	61.7	61.5	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	60.4
	15	59.9	60.4	60.7	61.0	61.3	61.4	61.4	61.4	61.2	61.0	60.8	60.7	60.7
	16	60.2	60.5	60.9	60.9	61.5	61.6	61.4	61.4	61.2	60.9	60.9	60.7	60.5
	17	60.3	60.4	60.7	60.9	61.2	61.3	61.5	61.5	61.5	61.5	61.4	61.3	61.0
	18	60.6	60.6	60.7	60.7	60.8	60.7	60.7	60.6	60.5	60.0	60.0	59.9	59.7
	19	58.7	58.9	58.9	58.9	59.0	59.1	59.6	59.7	59.6	59.4	58.8	58.8	58.9
	20	57.0	57.4	57.7	57.9	58.3	58.4	58.3	57.9	57.8	57.7	57.5	57.2	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	58.4
	22	59.0	59.4	59.9	60.5	60.7	60.9	60.7	60.7	60.6	60.1	59.9	59.7	59.5
	23	59.0	59.5	59.7	59.8	60.1	60.3	60.2	60.3	60.0	59.9	59.7	59.7	59.7
	24	58.4	58.6	58.6	58.7	58.8	58.7	59.4	59.6	59.2	58.9	58.7	58.6	58.5
	25	57.7	58.0	58.8	59.5	59.8	60.4	60.3	60.5	60.5	60.5	60.4	60.3	60.2
	26	59.0	59.0	59.2	59.4	59.5	59.4	59.5	59.4	59.4	59.4	59.3	59.7	59.8
	27	60.1	60.3	60.2	60.5	60.6	60.7	61.0	61.0	60.9	60.8	60.7	60.2	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	57.0
	29	57.5	57.7	57.8	58.1	58.2	58.4	58.5	58.6	58.7	58.7	58.6	58.6	58.6
	30	59.0	59.4	59.7	59.9	60.1	60.3	60.1	60.0	59.9	59.8	60.0	59.9	59.8
	31	59.2	59.6	59.8	60.0	60.1	60.2	60.0	59.9	59.9	59.8	59.7	59.6	59.5
Hourly Means	58.30	58.60	58.88	59.15	59.35	59.44	59.48	59.46	59.39	59.24	59.16	59.06	58.85	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00027.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
AUGUST.	1	96.9	97.9	99.1	97.5	99.0	100.2	100.8	102.6	103.4	102.5	100.9	95.48
	2	94.8	95.4	95.2	96.0	95.8	96.0	96.8	98.0	97.9	98.1	98.2	96.33
	3	95.3	95.6	95.5	96.0	95.8	95.4	96.6	97.5	97.5	97.0	97.1	96.15
	4	98.0	99.1	96.1	95.2	96.5	97.8	96.9	98.0	100.2	99.1	90.0	97.15
	5	96.1	93.2	93.6	95.2	97.3	99.9	94.6	95.2	96.8	97.0	93.6	93.74
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	97.1	98.0	99.5	101.8	98.4	97.8	98.8	100.0	100.4	100.7	101.3	95.76
	8	94.5	95.1	94.9	95.1	94.4	94.9	96.1	97.9	98.0	98.3	96.3	95.56
	9	94.9	95.5	95.9	96.2	96.9	96.5	97.0	98.5	100.1	100.8	99.4	95.66
	10	94.3	94.8	95.5	95.1	95.1	96.1	97.2	98.7	100.9	101.0	99.0	95.62
	11	94.8	96.0	96.7	96.6	97.2	97.7	99.3	102.6	104.6	96.3	97.1	95.64
	12	93.1	93.7	94.5	94.7	94.9	95.4	96.7	97.8	98.6	97.9	96.9	93.93
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	92.1	91.5	91.8	92.7	92.7	93.0	94.9	97.9	98.1	98.1	96.9	93.06
	15	92.0	92.8	92.6	92.9	93.3	93.7	95.0	96.8	98.7	97.7	96.7	92.76
	16	93.3	96.4	96.0	97.1	96.9	96.2	96.0	97.7	98.7	97.9	96.2	94.65
	17	93.8	93.6	95.0	93.7	96.0	96.3	96.8	95.8	97.5	99.0	96.2	93.46
	18	93.4	94.6	94.5	94.8	96.6	98.1	99.4	98.2	101.0	101.4	99.5	93.43
	19	91.2	94.5	95.1	94.2	93.3	94.4	96.2	97.2	99.8	101.0	101.3	92.22
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	94.6	94.4	94.6	94.1	94.6	95.5	97.8	101.0	102.8	102.9	101.5	96.13
	22	93.1	96.0	98.7	96.4	96.8	97.8	99.1	99.9	101.7	100.2	100.9	95.85
	23	94.2	94.2	94.5	95.2	95.7	96.1	98.3	100.6	101.0	101.8	102.9	96.08
	24	94.8	98.7	97.9	96.8	97.2	96.1	98.6	100.3	101.0	102.2	101.0	96.37
	25	93.8	94.2	93.7	94.3	93.5	94.8	96.2	98.8	101.0	101.2	101.2	94.98
	26	93.0	94.8	94.0	94.8	94.1	95.0	94.5	96.0	95.2	94.4	95.1	95.15
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	96.4	96.9	97.4	97.5	97.4	98.6	100.1	101.6	102.7	103.0	100.5	95.93
	29	96.2	97.0	97.2	97.0	97.7	98.1	99.3	101.0	100.8	100.5	100.0	97.91
	30	95.0	95.4	95.4	95.8	96.6	96.6	97.4	99.5	100.6	99.9	98.9	95.53
	31	96.1	96.4	96.8	96.9	97.1	97.2	98.1	99.5	100.8	102.0	101.0	96.93
Hourly Means	94.55	95.40	95.62	95.69	95.96	96.49	97.35	98.84	99.99	99.70	98.50	95.24	

TEMPERATURE OF THE MAGNET.

AUGUST.	1	56.6	56.5	55.9	55.7	55.4	54.8	54.7	54.5	54.5	54.8	55.2	55.94	
	2	57.8	57.8	57.7	57.7	57.6	57.7	57.7	57.6	57.6	57.5	57.7	57.56	
	3	58.0	57.9	58.2	58.1	58.1	57.9	57.8	57.8	57.8	57.7	57.8	58.19	
	4	58.4	58.3	58.2	58.2	58.1	58.2	58.1	58.1	58.1	57.8	57.8	58.33	
	5	58.7	58.6	58.1	57.8	57.7	57.5	57.3	57.1	57.3	57.2	57.3	58.05	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	55.7	55.6	55.0	54.8	54.7	54.7	54.7	54.7	54.7	54.7	55.0	55.4	56.21
	8	56.9	57.0	57.1	57.1	57.0	57.2	57.2	57.2	57.2	57.3	57.0	57.0	56.85
	9	57.7	57.7	57.7	57.7	57.7	57.6	57.7	57.5	57.7	57.5	57.7	57.8	57.80
	10	58.4	58.2	58.0	58.0	58.0	58.0	57.9	57.8	57.8	57.8	57.7	58.2	58.24
	11	58.2	57.8	57.7	57.7	57.5	57.1	56.8	56.5	56.5	57.0	57.6	57.6	58.07
	12	59.5	59.2	58.8	58.8	58.8	58.7	58.7	58.7	58.7	58.8	59.4	59.7	59.42
	13	—	—	—	—	—	—	—	—	—	—	—	—	—
	14	60.4	60.4	60.2	60.1	59.9	59.9	59.7	59.6	59.6	59.6	59.6	59.7	60.71
	15	60.6	60.2	60.3	60.0	60.0	59.9	59.7	59.7	59.7	59.7	59.7	59.9	60.48
	16	60.3	60.1	60.0	59.9	59.8	59.7	59.6	59.6	59.6	59.6	59.7	59.8	60.45
	17	60.9	60.8	60.7	60.7	60.7	60.7	60.5	60.4	60.3	60.5	60.5	60.5	60.88
	18	59.6	59.4	58.9	58.7	58.5	58.7	58.7	58.4	58.3	58.2	58.5	58.5	59.64
	19	58.6	58.1	57.8	57.7	57.6	57.4	57.1	56.9	56.8	56.7	56.9	56.9	58.33
	20	—	—	—	—	—	—	—	—	—	—	—	—	—
	21	57.9	57.9	58.0	57.9	57.9	57.8	57.9	57.8	57.8	57.8	58.1	58.6	57.88
	22	59.2	59.0	58.8	58.7	58.5	58.7	58.5	58.0	57.9	57.9	58.5	58.7	59.42
	23	59.7	59.7	59.2	58.8	58.7	58.3	58.0	57.9	57.9	57.9	58.0	58.1	59.26
	24	58.2	57.9	57.5	57.3	56.8	57.0	56.8	56.7	56.7	56.7	56.7	57.1	58.06
	25	60.0	59.9	59.8	59.8	59.7	59.7	59.6	59.4	59.4	59.4	58.9	58.9	59.67
	26	59.9	60.0	60.5	60.5	60.5	60.2	60.0	59.8	59.7	59.8	60.0	60.0	59.70
	27	—	—	—	—	—	—	—	—	—	—	—	—	—
	28	57.0	56.9	56.8	56.8	56.8	56.7	56.7	56.7	56.7	56.7	57.0	57.3	58.73
	29	58.5	58.4	58.4	58.3	58.3	58.5	58.6	58.6	58.6	58.7	58.7	58.9	58.41
	30	59.7	59.6	59.3	59.3	59.2	59.2	59.2	59.0	59.0	58.8	59.0	59.0	59.55
	31	59.5	59.4	59.4	59.2	58.9	58.7	58.7	58.7	58.7	58.7	58.8	59.1	59.43
Hourly Means	58.74	58.60	58.44	58.34	58.24	58.17	58.07	57.95	57.95	58.02	58.24	58.71		

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00028.														
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 .	12 ^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.	
SEPTEMBER.	1	98.1	96.7	94.7	94.0	94.7	95.9	96.8	97.0	96.5	95.2	94.2	93.9	94.7
	2	94.6	94.2	92.3	83.6	86.3	89.2	87.2	86.8	84.8	87.8	89.4	90.8	91.0
	3	92.1	91.0	90.6	90.8	92.4	92.2	92.3	91.1	91.4	92.7	93.6	94.6	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	93.4
	5	94.6	93.0	91.6	91.4	90.2	90.0	89.0	91.5	89.9	90.0	92.2	91.1	93.4
	6	96.0	95.0	92.3	89.7	91.6	93.4	93.2	93.4	93.3	94.2	94.1	94.6	94.7
	7	100.1	99.0	97.2	95.5	95.1	95.2	95.2	95.2	95.7	95.8	96.1	97.0	97.1
	8	101.3	97.9	97.6	97.4	97.2	97.2	96.0	95.6	95.6	94.9	95.5	96.3	95.2
	9	97.9	97.0	95.8	94.9	93.6	92.5	90.1	89.2	89.3	94.0	92.8	94.2	95.0
	10	96.0	96.5	95.8	95.6	97.9	97.8	96.5	96.3	94.8	93.4	93.1	97.1	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	96.1
	12	95.9	93.0	92.8	94.0	95.1	94.6	93.6	93.0	93.3	92.5	94.2	94.9	96.0
	13	95.2	92.8	89.7	89.0	89.0	90.5	91.3	93.2	93.2	93.2	92.7	93.1	93.5
	14	98.0	96.4	93.9	92.0	92.0	92.8	92.3	91.9	92.1	92.7	93.4	94.1	94.9
	15	97.0	95.6	93.6	92.0	91.2	90.6	89.7	88.8	89.1	89.2	90.5	91.2	92.9
	16	96.0	92.9	89.0	89.7	88.0	88.3	87.5	86.6	87.6	88.9	89.9	90.1	91.9
	17	97.3	94.3	91.2	89.7	88.4	87.5	85.0	85.8	86.2	88.5	89.6	89.6	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	94.5
	19	94.9	94.6	93.9	93.0	93.0	93.1	92.5	94.4	91.7	88.3	90.0	93.6	96.0
	20	95.9	94.4	94.9	94.9	90.2	92.0	92.6	92.5	97.2	95.5	92.5	93.0	96.0
	21	96.2	95.1	94.4	93.8	92.8	93.4	92.9	90.7	95.9	95.0	94.1	95.0	92.8
	22	92.0	90.8	90.3	92.1	90.7	90.2	89.4	83.2	84.0	84.3	88.0	88.9	90.5
	23	91.0	91.5	91.0	90.0	88.8	88.5	87.4	87.4	91.3	90.9	89.8	91.0	92.0
	24	93.8	91.9	91.1	90.7	88.7	88.3	87.9	87.6	88.8	92.3	90.0	90.9	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	92.8
	26	96.4	95.6	94.4	93.5	92.2	92.1	91.0	91.0	90.8	91.0	92.2	92.4	93.0
	27	96.6	94.2	93.7	93.0	92.1	91.7	91.3	90.6	90.8	91.1	91.4	92.0	92.6
	28	93.3	93.6	93.4	92.5	91.0	90.2	89.7	88.9	88.3	87.1	88.3	93.7	91.9
	29	82.8	83.4	83.3	82.4	78.8	81.7	83.9	83.5	84.0	84.9	85.3	85.7	86.9
	30	89.1	86.3	84.7	84.0	83.8	81.8	84.0	85.3	85.4	86.4	86.3	89.8	88.0
Hourly Means	95.08	93.72	92.43	91.51	90.95	91.18	90.70	90.40	90.81	91.15	91.51	92.64	93.34	
TEMPERATURE OF THE MAGNET.														
SEPTEMBER.	1	59.4	59.5	59.6	59.9	60.0	60.0	60.0	60.0	59.8	59.7	59.6	59.6	59.5
	2	57.9	58.0	58.2	58.4	58.6	58.6	58.4	58.5	58.2	58.5	58.5	58.2	57.7
	3	56.7	56.9	57.4	57.7	58.1	58.3	58.2	58.2	57.9	57.5	57.3	56.7	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	58.7
	5	58.6	58.8	58.9	59.3	59.5	59.6	59.7	59.7	59.6	59.5	59.5	59.4	59.4
	6	58.0	57.9	57.6	57.7	57.6	57.5	57.6	57.6	57.5	57.4	57.2	57.1	57.1
	7	56.9	57.7	58.1	58.5	58.6	58.5	58.3	58.0	57.8	57.7	57.5	57.2	56.8
	8	56.7	57.0	57.5	57.7	57.7	57.7	58.0	58.0	58.0	58.0	57.9	58.0	58.1
	9	57.5	57.6	57.8	57.9	57.9	58.0	58.2	58.1	58.1	58.0	57.8	57.7	57.7
	10	58.3	58.6	58.9	59.3	59.4	59.3	58.9	58.7	58.7	58.5	58.4	58.0	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	58.1
	12	57.8	58.4	58.7	59.0	59.2	59.3	59.0	59.0	58.8	58.5	58.2	58.0	57.6
	13	56.9	57.7	58.3	58.8	59.4	59.5	59.7	59.6	59.4	59.3	58.8	58.7	58.7
	14	58.7	59.4	59.8	60.0	60.4	60.5	60.6	60.5	60.2	59.9	59.4	59.3	59.0
	15	58.9	59.4	59.8	60.2	60.5	60.5	60.4	60.2	60.1	59.9	59.8	59.7	59.6
	16	60.0	60.6	60.7	61.2	61.5	61.5	61.5	61.2	60.8	60.7	60.5	60.4	60.1
	17	60.5	60.7	61.1	61.4	61.5	61.5	61.6	61.5	61.4	61.2	60.8	60.6	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	59.0
	19	58.4	58.7	59.0	59.4	59.1	59.5	59.3	59.2	59.0	58.6	58.7	58.6	58.5
	20	58.0	58.4	58.8	59.3	59.7	59.9	59.7	59.7	59.5	59.2	59.2	58.9	58.7
	21	58.1	58.3	58.3	58.3	58.4	58.4	58.6	58.7	58.7	58.7	58.8	59.3	59.6
	22	60.7	61.0	61.4	61.7	61.9	62.4	62.7	62.9	62.8	62.8	62.9	62.4	61.8
	23	60.8	61.0	61.2	61.4	61.7	61.9	62.0	62.0	61.9	61.8	61.7	61.5	61.4
	24	61.5	61.7	62.1	62.6	62.7	62.7	62.8	62.7	62.5	62.3	61.9	61.7	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	61.7
	26	61.5	62.1	62.7	63.2	63.5	63.7	63.4	63.3	62.8	62.7	62.4	62.1	61.9
	27	61.6	61.8	62.2	62.5	62.6	62.6	62.4	62.1	62.0	61.8	61.7	61.6	61.5
	28	62.6	63.0	63.7	64.4	64.9	65.2	65.1	65.2	64.9	64.7	64.8	64.6	64.4
	29	64.0	64.3	64.7	64.9	65.0	65.3	65.9	66.1	65.7	65.4	64.8	64.6	64.4
	30	63.9	64.7	65.7	66.1	66.3	66.4	66.0	65.8	65.5	65.4	64.9	64.8	64.7
Hourly Means	59.38	59.74	60.08	60.42	60.60	60.70	60.69	60.63	60.45	60.30	60.12	59.95	59.83	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
SEPTEMBER.	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	95.2	95.8	97.0	97.7	99.0	101.0	102.2	100.4	98.6	99.1	94.6	96.79
	2	98.6	95.8	95.2	94.0	93.6	93.5	95.6	96.0	96.4	97.4	94.1	92.01
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	93.9	94.6	95.3	95.4	95.6	94.6	96.2	96.1	97.4	98.3	97.4	93.88
	5	92.9	93.3	94.3	94.7	94.9	95.1	96.2	98.1	98.0	97.8	96.9	93.34
	6	95.9	96.3	95.7	97.8	97.8	97.1	98.9	100.7	101.4	101.0	100.1	95.76
	7	97.6	97.6	98.8	99.1	99.1	99.8	100.9	102.1	103.1	102.6	101.2	98.17
	8	96.7	97.9	97.6	97.9	97.6	97.7	99.1	100.8	101.7	100.9	99.4	97.71
	9	95.8	96.2	96.5	97.0	97.5	97.9	99.8	100.6	100.5	99.2	97.0	95.60
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	97.9	97.5	97.0	96.6	96.0	97.4	99.4	100.1	101.0	100.3	98.2	97.01
	12	96.2	96.2	99.9	100.2	101.5	96.5	98.5	101.9	101.6	99.7	95.2	96.26
	13	93.6	94.3	95.3	97.6	95.9	95.7	97.7	99.4	100.2	100.0	100.9	94.46
	14	95.4	95.4	95.2	95.6	96.1	96.1	97.9	98.5	100.2	100.8	99.4	95.30
	15	93.8	93.7	93.8	93.9	94.0	93.9	95.7	98.6	98.9	99.8	98.9	93.60
	16	92.3	92.1	91.9	93.4	93.9	94.8	98.1	100.0	100.5	100.1	99.8	92.64
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	94.4	94.6	94.8	95.7	95.3	95.6	96.1	97.7	96.8	97.0	95.9	92.56
	19	97.5	102.0	95.1	96.0	95.6	97.6	95.3	101.9	102.5	97.8	96.6	95.29
	20	102.4	97.3	93.6	94.5	95.5	96.7	96.2	94.8	102.0	102.0	98.8	95.64
	21	97.4	97.0	94.2	94.1	93.6	92.9	95.2	97.3	97.0	94.9	93.0	94.53
	22	92.0	92.8	93.9	93.4	92.8	91.0	92.0	95.7	94.8	88.9	91.7	90.56
	23	—	91.8	92.2	92.9	93.8	93.2	94.8	97.5	98.0	96.1	95.0	91.95
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	93.0	93.2	94.1	94.5	94.7	96.2	98.0	99.5	99.7	98.4	97.0	93.05
	26	93.2	93.6	94.2	93.9	93.9	95.3	97.4	98.9	99.2	99.0	98.1	94.26
	27	93.0	93.4	93.9	94.0	94.3	95.4	98.1	99.9	100.7	98.9	95.2	94.08
	28	91.0	91.9	92.0	91.9	91.8	93.9	96.0	97.0	98.1	93.1	85.3	91.83
	29	87.4	89.4	89.2	88.8	88.8	90.4	91.7	91.6	93.5	93.2	92.0	86.78
30	87.9	89.8	88.2	88.2	88.2	89.3	90.3	90.8	91.9	91.2	90.5	87.55	
Hourly Means	94.60	94.75	94.57	94.95	95.03	95.33	96.82	98.30	98.99	97.98	96.24	93.87	

TEMPERATURE OF THE MAGNET.

SEPTEMBER.	1	59.2	59.2	59.5	59.3	59.0	58.7	58.5	58.3	58.1	58.0	58.0	59.27
	2	57.5	57.7	57.5	57.1	56.9	57.4	57.1	56.8	56.8	56.6	56.7	57.74
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	58.6	58.6	58.2	58.1	58.0	58.2	58.1	58.1	58.0	58.1	58.4	57.92
	5	59.2	59.0	58.6	58.4	58.2	57.9	57.7	57.7	57.7	57.7	57.9	58.81
	6	56.9	56.8	56.8	56.7	56.6	56.4	56.3	56.2	56.2	56.6	56.7	57.08
	7	56.7	56.7	56.7	56.5	56.4	56.2	56.3	56.3	56.2	56.2	56.5	57.18
	8	58.0	57.9	57.8	57.7	57.6	57.6	57.5	57.4	57.4	57.2	57.4	57.66
	9	57.7	57.6	57.4	57.2	57.1	57.1	57.0	57.0	57.0	57.0	57.6	57.62
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	57.9	57.7	57.4	57.2	57.0	56.7	56.7	56.7	56.7	57.3	57.6	58.00
	12	57.5	57.2	56.9	56.7	56.6	56.5	56.3	56.1	56.1	56.0	56.6	57.67
	13	58.5	58.2	58.3	58.2	58.1	58.0	57.8	57.7	58.1	58.1	58.4	58.51
	14	58.8	58.8	58.7	58.6	58.6	58.7	58.6	58.5	58.6	58.6	58.7	59.29
	15	59.5	59.4	58.9	58.9	58.7	58.7	58.7	58.7	58.8	59.3	59.6	59.51
	16	59.9	59.8	59.7	59.5	59.4	59.1	59.0	59.0	59.0	59.5	59.9	60.19
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	58.8	58.7	58.5	58.0	57.8	57.7	57.6	57.5	57.6	57.7	57.9	59.61
	19	58.2	58.2	58.4	58.3	58.2	57.9	57.8	57.7	57.7	57.8	57.9	58.51
	20	58.5	58.4	58.4	58.1	58.0	57.9	57.8	57.8	57.7	57.9	57.9	58.64
	21	59.7	59.8	59.8	59.8	59.9	60.1	60.0	59.9	59.8	60.1	60.4	59.23
	22	61.5	61.2	60.7	60.5	60.4	60.3	60.0	60.0	60.0	60.5	60.6	61.38
	23	—	61.0	60.9	60.9	60.8	60.8	60.8	60.7	60.7	60.7	61.0	61.24
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	61.4	61.0	61.1	60.8	60.6	60.2	60.1	60.0	60.3	60.5	61.0	61.50
	26	61.7	61.5	61.4	61.2	61.1	60.8	60.7	60.7	60.7	61.0	61.4	61.98
	27	61.3	61.2	60.9	60.9	60.7	61.0	61.0	61.0	61.3	61.6	61.9	61.63
	28	64.2	64.0	63.7	63.5	63.3	62.9	62.8	62.8	62.9	63.2	63.5	63.93
	29	64.2	63.9	63.8	63.6	63.3	63.2	62.9	62.9	63.0	63.1	63.7	64.28
	30	64.5	64.2	64.4	64.2	64.0	63.7	63.5	63.4	63.3	63.2	63.3	64.66
Hourly Means	59.60	59.53	59.40	59.23	59.09	58.99	58.87	58.80	58.83	59.00	59.26	59.73	

HORIZONTAL FORCE.														
One Scale Division = 00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = 00028.														
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 .	12 ^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.	
OCTOBER.	1	90·8	90·2	90·1	89·5	89·7	88·8	88·2	87·2	86·5	87·0	86·3	87·8	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	94·5	94·9	94·5	94·3	95·1	95·1	95·3	95·7	96·7	96·8	97·2	98·4	99·2
	4	100·7	100·4	100·9	99·0	96·9	96·9	96·0	95·4	94·6	94·2	94·1	95·0	95·7
	5	96·6	96·7	96·9	96·1	93·1	90·7	89·0	89·7	90·3	90·9	91·1	91·7	92·1
	6	92·1	93·0	91·7	90·1	87·2	85·4	85·2	85·5	86·3	86·7	88·0	89·0	90·0
	7	91·2	90·0	88·6	86·8	86·4	85·5	85·0	85·0	83·1	85·0	86·7	88·5	89·5
	8	91·8	91·0	90·1	87·8	86·0	85·0	82·3	83·5	82·1	82·3	88·8	84·6	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	93·0
	10	96·6	95·2	94·7	93·2	92·0	91·7	91·0	90·6	90·6	91·8	91·0	92·9	92·8
	11	95·3	94·6	94·9	93·9	92·9	92·1	91·3	91·7	92·0	92·8	93·6	94·2	94·6
	12	96·6	94·0	93·2	93·5	93·0	92·2	91·5	91·9	92·2	92·6	92·9	93·4	94·0
	13	94·0	90·1	89·5	89·6	86·2	80·2	81·2	76·0	76·8	74·9	81·7	84·6	87·4
	14	90·5	89·0	88·2	85·2	77·5	74·2	74·1	80·0	81·0	82·1	83·0	84·4	85·2
	15	88·0	87·7	88·4	86·8	87·0	86·8	86·2	85·1	85·9	84·2	84·2	85·6	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	88·8
	17	87·6	89·1	89·4	89·3	88·4	89·8	88·1	82·2	85·3	87·7	87·5	87·9	89·8
	18	93·6	94·2	93·8	92·1	90·2	90·1	89·0	88·3	89·3	88·4	93·7	91·7	90·9
	19	93·3	92·1	92·6	93·2	90·5	89·0	86·7	87·8	88·5	87·9	89·7	91·0	89·6
	20	87·4	87·5	91·3	90·7	88·4	86·7	84·0	81·7	82·9	82·0	82·8	84·7	86·6
	21	87·8	89·9	90·7	89·4	88·0	82·0	84·8	84·3	83·8	83·2	83·3	83·9	85·0
	22	88·7	88·7	89·1	88·4	87·8	86·3	86·0	85·5	85·9	86·3	87·2	87·5	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	86·6
	24	83·9	83·6	84·2	85·5	84·5	83·8	85·1	85·7	86·3	86·2	86·9	87·8	87·9
	25	91·3	90·9	89·9	89·4	87·0	86·1	87·2	85·3	85·0	84·8	87·6	90·2	89·7
	26	88·5	86·5	88·0	89·0	89·6	89·0	88·9	89·5	87·8	88·6	86·7	86·0	87·8
	27	89·5	89·5	89·7	84·1	82·7	86·0	86·9	86·8	84·0	84·8	86·4	87·5	88·9
	28	89·4	89·9	89·1	88·0	87·2	86·2	87·2	87·9	86·4	88·7	90·6	90·9	92·0
	29	92·3	89·2	89·4	90·3	90·8	88·3	87·8	89·0	90·0	90·7	91·8	90·2	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	92·8
	31	89·5	89·0	90·0	89·7	87·5	86·8	87·0	87·2	88·0	88·9	89·3	89·7	90·2
Hourly Means	91·60	91·03	91·11	90·19	88·68	87·47	87·12	86·87	86·97	87·29	88·50	89·20	90·68	

TEMPERATURE OF THE MAGNET.														
	1	2	3	4	5	6	7	8	9	10	11	12	13	
OCTOBER.	1	63·3	63·3	63·6	63·7	63·9	63·9	63·7	63·5	63·4	63·0	63·0	62·8	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	58·7
	3	57·9	58·0	58·0	58·0	58·1	58·0	57·9	57·8	57·5	57·1	56·8	56·5	56·6
	4	56·5	57·2	58·1	58·8	59·5	59·7	59·8	59·9	59·9	59·7	59·8	59·7	59·6
	5	60·7	61·5	61·9	62·7	62·9	63·2	63·4	63·4	63·4	63·4	63·0	62·8	62·7
	6	63·7	64·5	65·0	65·9	66·5	66·7	67·2	67·0	66·9	66·5	65·8	65·7	65·3
	7	65·8	66·7	67·5	68·0	68·5	68·3	67·9	67·5	66·9	66·6	65·9	65·5	65·2
	8	65·2	65·7	66·0	66·7	67·4	67·7	67·8	67·7	67·5	67·2	66·8	66·5	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	61·4
	10	62·4	62·8	63·4	63·9	64·0	64·0	63·8	63·6	63·2	62·9	62·9	62·7	62·6
	11	62·5	62·6	62·8	63·0	63·0	62·9	62·6	62·4	62·1	61·8	61·7	61·5	61·3
	12	61·7	62·2	62·8	63·4	63·5	63·5	63·1	62·9	62·7	62·5	62·2	61·9	61·7
	13	62·5	63·1	63·7	64·3	64·7	65·2	65·8	66·0	65·9	65·7	65·4	64·9	64·5
	14	65·0	65·6	66·3	66·9	67·5	67·6	67·8	67·9	67·7	67·5	67·0	66·6	66·3
	15	64·7	64·8	64·9	65·2	65·6	65·7	65·7	65·7	65·5	65·4	65·3	65·0	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	63·3
	17	62·3	62·4	62·4	62·4	62·5	62·4	62·5	62·4	62·4	62·2	61·9	61·8	61·7
	18	61·4	61·7	61·7	62·0	62·4	62·4	62·2	61·9	61·7	61·5	61·2	60·8	60·7
	19	61·7	62·4	63·1	63·8	64·4	64·7	64·7	64·7	64·6	64·2	64·1	64·3	64·5
	20	65·5	65·9	66·7	67·4	67·9	68·4	68·7	69·0	69·1	69·0	68·8	68·6	68·0
	21	66·0	66·1	66·0	66·6	66·9	67·4	67·7	67·7	67·7	67·5	67·4	67·1	66·7
	22	65·6	65·7	66·0	66·4	66·6	66·7	66·7	66·7	66·2	65·9	65·8	65·4	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	64·6
	24	65·1	65·6	65·7	65·9	66·0	65·8	65·6	65·4	65·1	64·9	64·7	64·6	64·4
	25	63·6	63·8	63·9	64·1	64·0	64·2	64·4	64·0	63·8	63·6	63·4	63·2	63·0
	26	63·3	63·6	64·0	64·4	64·6	64·6	64·4	64·2	63·9	63·7	63·4	63·0	62·8
	27	62·0	62·3	62·4	62·7	63·2	63·4	63·7	63·9	63·7	63·7	63·6	63·4	63·0
	28	63·0	63·2	63·4	63·4	63·2	63·0	62·9	62·7	62·4	62·2	61·8	61·7	61·5
	29	61·2	61·6	61·7	62·0	62·1	62·4	62·4	62·3	62·3	62·0	61·7	61·7	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	61·8
	31	62·5	63·3	63·7	63·9	64·6	64·7	64·9	64·7	64·4	64·0	63·6	63·4	63·2
Hourly Means	62·89	63·28	63·64	64·06	64·37	64·48	64·51	64·42	64·23	63·99	63·73	63·50	62·89	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.

Mean Göttingen Time.	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.	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	91.76	
	2	94.8	94.9	95.8	96.4	95.9	96.3	95.6	95.4	93.2	93.0	93.8	
	3	98.6	99.6	100.7	100.4	101.1	102.5	104.4	106.0	105.9	103.0	99.4	98.72
	4	96.1	96.1	96.3	96.0	96.6	96.7	97.0	96.9	95.6	95.9	96.2	96.63
	5	92.9	93.3	94.0	94.0	94.4	95.8	97.2	97.2	96.3	95.0	93.0	93.67
	6	91.0	91.6	92.5	92.9	94.0	94.0	96.1	96.8	94.9	93.3	93.1	90.85
	7	89.9	90.3	92.2	90.7	91.2	92.8	94.9	94.8	94.6	92.1	93.7	89.52
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	94.0	93.5	93.7	95.1	95.5	96.3	98.1	98.9	98.1	96.7	96.9	91.05
	10	93.1	93.9	93.6	93.7	94.3	94.6	96.0	96.2	95.3	95.6	95.8	93.59
	11	95.2	95.4	95.7	95.3	95.6	96.3	97.3	98.5	98.0	97.9	97.8	94.87
	12	94.0	94.9	95.3	96.4	96.9	96.6	97.7	97.6	96.6	96.0	96.0	94.54
	13	90.0	90.1	89.1	91.8	93.3	93.2	95.7	95.6	95.1	92.3	90.8	87.88
	14	86.6	86.2	87.0	87.5	88.0	89.7	91.2	91.6	90.5	90.0	89.5	85.51
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	89.7	90.3	91.4	91.8	91.3	93.3	94.7	94.0	92.9	92.9	88.5	88.98
	17	90.2	90.5	94.2	92.5	93.1	93.8	92.0	91.2	91.0	89.1	85.2	89.37
	18	94.2	95.6	95.5	96.9	97.4	97.6	97.3	95.8	93.8	92.5	92.8	93.11
	19	90.0	91.0	90.0	90.9	90.3	91.0	90.5	89.1	87.9	87.1	86.9	89.86
	20	86.3	86.2	86.2	86.7	87.9	89.0	90.0	89.3	88.4	87.1	86.7	86.69
	21	85.0	85.0	85.7	86.2	87.5	90.1	93.8	95.6	95.9	94.4	91.8	87.80
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	90.1	90.3	89.2	88.6	89.2	90.3	91.8	89.9	87.0	86.8	86.3	88.06
	24	89.0	89.0	90.0	91.4	90.5	92.4	93.4	92.7	90.4	89.6	90.9	87.95
	25	90.4	90.3	90.7	91.3	92.5	93.2	93.6	94.1	92.2	88.7	88.5	89.58
	26	87.9	89.1	89.7	90.1	91.9	94.0	94.4	95.7	92.8	92.1	91.1	89.78
	27	93.1	90.8	90.5	90.7	91.4	94.0	94.7	92.0	91.8	90.9	89.6	89.01
	28	92.6	94.1	93.0	92.9	94.4	96.3	96.6	96.9	96.2	94.9	93.0	91.43
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	93.3	92.2	92.0	92.0	92.6	93.2	93.1	92.2	91.6	92.0	91.0	91.16
	31	90.5	90.8	91.5	91.8	93.2	94.0	95.0	94.5	93.8	91.8	90.2	90.41
Hourly Means	91.48	91.73	92.13	92.46	93.08	94.12	95.08	94.87	93.84	92.72	91.87	90.84	

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	58.5	58.2	58.1	57.8	57.7	57.7	57.7	57.5	57.6	57.7	57.7	
	3	56.6	56.6	55.9	55.7	55.3	55.6	55.5	55.4	55.5	55.4	55.9	56.73
	4	59.5	59.4	59.0	58.9	58.8	58.5	58.5	58.6	58.9	59.6	60.1	59.08
	5	62.7	62.6	62.5	62.2	61.8	61.6	61.4	61.4	61.7	62.4	62.9	62.63
	6	64.9	64.7	64.6	64.4	63.9	63.7	63.5	63.6	63.7	64.4	65.1	65.13
	7	64.9	64.7	64.5	64.2	63.9	63.8	63.7	63.7	63.8	64.3	64.7	65.69
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	61.3	61.0	60.7	60.7	60.7	60.8	60.7	60.8	61.0	61.4	61.8	63.94
	10	62.5	62.3	61.9	61.9	61.6	61.5	61.5	61.5	61.6	61.7	62.1	62.60
	11	61.0	60.8	60.7	60.6	60.5	60.2	60.2	60.2	60.4	60.7	61.2	61.53
	12	61.6	61.5	61.4	61.3	61.0	60.8	60.8	60.8	61.1	61.5	62.0	62.00
	13	64.3	63.9	63.7	63.5	63.2	63.1	63.0	63.3	63.6	63.9	64.4	64.23
	14	65.9	65.7	65.4	65.0	64.8	64.8	64.5	64.4	64.4	64.5	64.6	65.99
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	62.9	62.8	62.5	62.2	62.1	61.9	61.7	61.7	61.7	61.8	62.0	63.75
	17	61.6	61.5	61.4	61.1	60.9	60.9	60.8	60.8	60.9	60.9	61.2	61.72
	18	60.7	60.5	60.5	60.4	60.2	59.9	59.9	60.0	60.5	60.7	61.1	61.08
	19	64.6	64.6	64.5	64.5	64.4	63.7	63.5	63.5	63.7	64.2	64.7	64.05
	20	67.7	67.6	66.9	66.7	66.7	66.4	66.2	66.1	65.9	66.0	66.0	67.30
	21	66.6	66.4	66.1	65.9	65.9	65.7	65.7	65.5	65.5	65.4	65.5	66.46
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	64.5	64.4	64.3	64.0	63.8	63.8	63.8	63.9	64.1	64.3	64.7	65.16
	24	64.2	63.9	63.9	63.7	63.5	63.0	62.8	62.8	62.8	62.8	63.4	64.41
	25	62.7	62.7	62.7	62.5	62.2	61.8	61.9	61.9	62.2	62.5	62.8	63.12
	26	62.6	62.5	61.9	61.7	61.7	61.7	61.7	61.6	61.7	61.8	61.9	62.95
	27	62.9	62.8	62.7	62.5	62.3	62.2	61.9	61.9	62.1	62.5	62.8	62.82
	28	61.3	61.0	60.8	60.7	60.6	60.5	60.4	60.4	60.6	60.7	60.9	61.76
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	61.7	61.6	61.7	61.6	61.5	61.5	61.4	61.4	61.5	61.7	62.1	61.79
	31	63.1	62.8	62.8	62.7	62.5	62.0	61.9	62.0	62.2	62.6	62.9	63.27
Hourly Means	62.72	62.56	62.35	62.17	61.98	61.81	61.72	61.72	61.87	62.14	62.48	63.06	

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00028.														
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 .	12 ^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.	
NOVEMBER.	1	89.7	90.3	91.0	92.0	91.1	90.0	89.2	88.5	89.6	89.7	90.2	90.7	91.6
	2	86.0	86.0	86.4	86.0	83.8	83.5	84.2	84.9	85.9	84.2	81.0	80.3	83.1
	3	85.2	87.2	88.2	85.2	81.2	79.0	76.0	75.0	73.4	76.9	79.9	81.8	83.8
	4	88.1	87.4	87.0	86.1	85.0	83.5	83.1	83.0	83.2	84.9	85.3	86.3	87.0
	5	84.3	85.4	87.0	88.0	88.0	87.1	88.1	87.9	88.1	88.5	88.8	90.0	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	91.5
	7	92.1	91.2	91.0	89.4	89.2	89.1	87.6	87.7	87.0	87.1	87.5	88.1	88.7
	8	87.6	85.7	86.7	88.0	88.5	88.3	87.9	86.8	86.8	87.0	87.8	88.0	88.1
	9	90.8	90.4	90.8	90.5	90.5	89.7	89.9	89.1	88.9	88.2	87.3	88.5	91.1
	10	83.4	78.4	82.2	84.0	80.3	84.3	78.6	80.1	82.8	89.0	87.9	89.0	90.9
	11	91.7	87.1	85.9	84.7	84.0	85.9	86.2	88.0	88.4	88.8	88.0	90.6	88.9
	12	88.1	88.0	86.4	85.9	87.0	88.0	87.1	86.5	87.0	87.1	87.3	88.6	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	87.8
	14	85.2	87.8	88.9	87.2	86.9	86.9	86.4	86.1	86.0	86.4	87.0	87.3	87.9
	15	88.7	89.0	88.0	88.0	87.9	88.0	87.4	87.1	87.1	87.8	87.6	88.0	88.1
	16	85.8	85.0	84.4	84.2	85.4	85.2	83.6	81.3	81.4	81.5	83.7	85.5	87.0
	17	88.0	88.8	88.9	89.0	88.2	87.1	87.4	87.2	87.8	87.8	88.1	88.5	88.9
	18	88.7	89.9	90.0	90.8	90.6	90.0	89.2	89.1	89.7	90.1	91.7	91.1	91.8
	19	91.0	91.1	90.8	90.3	89.3	88.2	88.0	88.0	88.8	91.0	92.7	91.3	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	91.1
	21	88.0	88.1	89.1	89.0	87.9	85.1	85.7	85.7	84.5	84.8	83.6	83.8	86.8
	22	74.5	75.0	70.3	69.4	69.4	73.9	77.2	77.0	78.2	82.0	82.9	84.0	86.6
	23	80.2	82.5	81.9	80.7	79.2	79.1	79.4	79.1	83.0	82.0	83.2	83.7	84.7
	24	85.0	83.3	83.0	83.9	82.0	78.5	79.8	82.5	81.7	82.1	84.3	83.7	84.2
	25	79.8	81.2	83.0	84.2	84.2	83.4	83.1	82.9	82.9	83.0	84.1	84.4	84.7
	26	86.3	85.8	85.2	85.3	83.9	82.8	82.9	83.1	83.7	84.0	84.3	85.9	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	88.8
	28	87.0	86.1	86.0	86.4	87.0	86.8	86.8	87.1	86.9	86.9	87.8	88.5	89.0
	29	85.5	83.3	84.7	86.4	86.1	85.1	83.9	83.5	84.4	85.8	87.7	87.5	87.8
	30	87.9	85.2	80.8	78.5	76.5	75.1	75.4	77.0	79.5	80.0	81.1	81.3	83.8
Hourly Means	86.48	86.12	86.06	85.89	85.12	84.75	84.39	84.39	84.83	85.64	86.18	86.78	87.83	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	63.5	63.8	64.5	64.8	65.1	65.2	64.9	64.7	64.5	64.3	64.2	64.0	63.7
	2	64.9	65.6	66.0	66.6	67.0	67.3	67.0	66.9	66.7	66.7	66.6	66.4	66.2
	3	67.5	68.2	68.7	69.2	69.4	69.5	69.4	69.4	69.2	68.9	68.7	68.4	68.0
	4	66.7	66.8	67.1	67.5	67.7	67.7	67.7	67.4	67.3	67.0	66.7	66.4	66.1
	5	65.3	65.4	65.7	65.7	65.8	65.7	65.7	65.6	65.4	65.3	64.9	64.8	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	63.4
	7	63.8	64.2	65.4	65.9	66.0	66.7	66.7	66.6	66.4	66.1	65.7	65.6	65.3
	8	65.7	66.4	66.7	67.2	67.5	67.7	67.7	67.5	67.5	67.0	67.0	66.7	66.6
	9	65.0	65.4	65.6	65.9	66.1	66.2	66.4	66.2	65.7	65.4	64.9	64.7	64.4
	10	62.9	63.5	63.8	64.2	64.4	64.4	64.4	64.2	63.8	63.5	63.0	62.7	62.3
	11	62.0	62.2	62.7	62.8	62.9	62.7	62.7	62.7	62.5	62.3	62.4	62.3	62.1
	12	62.7	63.3	63.7	63.9	64.0	64.0	64.3	64.3	64.2	64.1	63.9	63.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	64.0
	14	64.1	64.6	64.8	65.5	65.8	66.2	66.2	66.2	66.0	65.7	65.7	65.5	65.2
	15	64.4	64.7	65.0	65.4	65.5	65.7	65.9	65.9	65.8	65.6	65.4	65.2	65.1
	16	64.2	64.6	64.8	65.3	65.7	65.9	66.1	66.1	65.8	65.5	64.9	64.8	64.5
	17	63.8	64.2	64.6	64.8	65.0	65.1	64.8	64.6	64.0	63.7	63.4	63.2	62.8
	18	63.0	63.4	63.7	63.8	63.9	63.9	63.8	63.7	63.5	63.3	63.1	62.7	62.6
	19	64.1	64.7	65.0	65.5	65.7	65.7	65.6	65.3	64.9	64.8	64.7	64.7	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	64.6
	21	64.4	64.7	65.0	65.4	65.6	65.7	65.5	65.4	65.1	64.8	64.5	64.2	63.9
	22	64.9	65.6	66.1	66.4	66.5	66.5	66.5	66.5	65.9	65.5	64.8	64.7	64.6
	23	65.4	65.6	65.7	65.7	65.8	65.9	66.3	66.1	65.7	65.5	65.0	64.7	64.5
	24	65.4	65.9	66.6	67.0	67.3	67.4	67.2	67.0	66.6	66.3	65.9	65.6	65.5
	25	65.7	66.0	66.3	66.7	66.9	67.3	67.1	66.9	66.8	66.7	66.7	66.7	66.7
	26	66.7	67.0	67.2	67.5	67.7	67.8	67.8	67.7	67.7	67.6	67.3	66.7	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	65.7
	28	66.5	67.0	67.3	67.6	67.7	67.7	67.7	67.7	67.5	67.0	66.7	66.7	66.2
	29	67.5	67.9	68.5	68.9	69.2	69.4	69.0	68.8	68.7	68.7	68.5	68.3	68.0
	30	68.2	68.7	69.3	69.8	70.3	70.5	70.7	70.5	70.4	70.1	69.7	69.6	69.3
Hourly Means	64.93	65.36	65.76	66.12	66.33	66.45	66.43	66.30	66.06	65.82	65.55	65.35	65.05	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
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	91.8	92.6	92.9	92.9	93.3	94.2	94.3	91.2	90.3	89.1	87.1	90.97
	2	84.0	85.1	86.0	86.1	87.9	89.7	91.1	92.3	91.0	87.7	84.4	85.86
	3	82.4	83.3	84.3	85.1	86.6	88.4	89.9	90.9	89.2	88.3	87.9	83.71
	4	87.4	88.2	87.8	87.8	87.8	87.9	87.6	85.1	84.3	84.2	83.2	85.88
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	92.1	92.4	93.0	92.3	93.8	95.9	97.4	98.8	97.0	94.9	93.5	90.99
	7	89.2	89.2	89.4	89.6	90.8	91.9	93.3	91.9	90.7	89.3	88.9	89.58
	8	88.9	94.0	94.5	94.4	94.7	96.4	99.0	99.0	97.3	95.0	91.4	90.91
	9	93.7	94.3	94.8	96.6	95.9	98.2	100.8	101.0	95.2	91.9	87.6	92.32
	10	89.7	92.6	91.4	90.7	92.3	93.0	93.4	91.3	90.5	90.5	92.3	87.44
	11	89.5	89.1	89.8	90.2	91.0	92.7	95.4	96.1	94.8	91.9	90.6	89.55
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	88.7	89.0	89.4	90.2	90.9	92.5	93.4	91.1	90.1	88.1	86.0	88.51
	14	88.6	88.7	89.3	89.8	90.9	92.5	93.0	93.1	91.5	89.5	88.6	88.56
	15	88.5	88.6	88.8	89.1	90.8	93.0	93.3	93.0	91.0	88.2	86.2	88.88
	16	87.8	87.7	88.5	88.8	90.3	93.0	94.7	93.4	91.6	89.0	88.2	86.96
	17	88.6	88.4	88.8	89.9	91.8	93.4	93.4	90.9	88.9	88.0	88.0	88.99
	18	92.0	92.0	92.5	94.4	96.1	98.7	99.1	96.3	93.9	91.1	91.0	92.08
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	91.2	92.7	91.0	92.1	92.3	93.6	93.2	95.0	93.0	89.6	89.4	91.03
	21	85.5	87.4	90.4	100.1	94.6	88.5	84.5	84.4	83.2	80.0	76.5	86.55
	22	86.3	87.9	88.7	88.7	89.9	90.6	94.8	91.4	90.0	86.0	77.8	82.19
	23	86.2	87.0	86.0	86.6	87.6	88.5	89.8	91.0	91.1	88.4	85.9	84.45
	24	86.3	86.0	86.2	86.6	89.3	91.0	91.0	89.7	87.1	83.0	80.5	84.61
	25	84.9	85.1	85.3	85.3	86.9	88.9	90.2	90.2	89.5	86.8	86.0	85.00
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	88.9	89.4	89.4	90.1	91.9	94.2	95.1	94.7	93.1	91.6	88.3	87.86
	28	90.0	91.1	91.2	91.1	92.0	93.0	92.6	93.4	93.5	88.3	90.0	89.10
	29	87.6	88.2	89.1	88.1	91.9	92.1	92.9	92.1	92.3	91.2	89.9	87.80
30	85.9	85.8	85.8	86.2	87.1	88.2	87.9	87.2	86.6	86.0	84.3	83.05	
Hourly Means	88.30	89.07	89.40	90.11	91.09	92.31	93.12	92.48	91.03	88.75	87.06	87.80	

TEMPERATURE OF THE MAGNET.

NOVEMBER.	1	63.6	63.5	62.9	62.9	62.7	62.7	62.8	62.9	63.3	63.8	64.4	63.86
	2	65.9	65.7	65.5	65.3	65.0	64.7	64.7	64.8	65.4	66.0	66.6	65.98
	3	67.7	67.4	67.2	66.8	66.7	66.5	66.3	66.2	66.3	66.4	66.5	67.85
	4	65.9	65.8	65.7	65.7	65.5	65.2	65.0	64.9	64.9	64.9	65.1	66.28
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	63.2	63.0	62.7	62.6	62.4	62.4	62.4	62.6	62.7	62.8	63.5	64.13
	7	64.9	64.7	64.5	64.2	63.9	63.9	63.9	64.0	64.2	64.7	65.3	65.11
	8	66.4	66.0	65.9	65.7	65.4	65.2	64.9	64.9	64.7	64.8	64.8	66.25
	9	64.0	63.7	63.6	63.3	62.7	62.7	62.5	62.5	62.5	62.7	62.8	64.37
	10	61.9	61.7	61.5	61.1	60.7	60.6	60.5	60.7	60.9	61.3	61.6	62.48
	11	62.0	61.7	61.7	61.7	61.5	61.5	61.4	61.4	61.6	61.7	62.4	62.12
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	63.7	63.5	62.8	62.7	62.5	62.3	62.3	62.5	62.8	63.5	63.7	63.43
	14	64.7	64.5	64.2	63.8	63.5	63.2	62.9	62.9	63.3	63.7	64.0	64.68
	15	65.0	64.9	64.8	64.7	64.6	64.6	64.5	64.5	64.5	64.1	64.4	65.01
	16	64.0	63.7	63.7	63.4	63.0	62.7	62.5	62.5	62.7	63.1	63.5	64.29
	17	62.6	62.4	62.3	62.0	61.7	61.7	61.7	61.7	62.0	62.3	62.5	63.20
	18	62.4	62.3	61.8	61.7	61.7	61.8	62.0	62.1	62.4	62.9	63.5	62.88
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	64.4	64.0	63.7	63.5	63.3	62.9	62.8	62.9	63.2	63.7	64.0	64.32
	21	63.7	63.6	63.5	63.1	62.9	62.9	63.0	63.2	63.5	63.7	64.5	64.24
	22	64.2	64.0	64.2	64.0	63.9	63.7	63.7	63.9	64.2	64.7	65.1	65.00
	23	64.2	64.0	63.8	63.7	63.5	63.0	63.2	63.6	63.7	64.4	64.8	64.74
	24	65.2	64.9	64.7	64.5	64.1	64.1	64.1	64.2	64.6	65.2	65.5	65.62
	25	66.8	66.8	66.8	66.7	66.6	66.4	66.1	66.0	66.0	66.3	66.5	66.56
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	65.6	65.3	65.3	64.9	64.8	64.7	64.7	64.8	65.0	65.7	66.0	66.30
	28	65.9	65.8	65.8	65.7	65.7	65.5	65.5	65.8	66.1	66.7	67.1	66.62
	29	67.8	67.7	67.7	67.4	67.3	67.2	67.2	67.3	67.5	67.6	67.9	68.08
	30	68.9	68.7	68.5	68.0	67.9	68.0	68.0	68.2	68.4	68.9	69.7	69.18
Hourly Means	64.79	64.59	64.42	64.20	63.98	63.85	63.79	63.88	64.09	64.45	64.83	65.10	

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.														
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 .	12 ^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.	
DECEMBER.	1	84.9	84.1	85.5	82.8	78.8	78.0	79.0	79.7	80.3	81.6	82.4	83.3	83.9
	2	84.1	84.1	84.0	83.9	83.3	83.0	83.0	82.0	82.1	84.1	84.5	84.5	86.1
	3	84.4	84.3	84.8	85.4	85.8	85.0	84.1	83.7	83.2	83.8	84.8	85.7	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	88.0
	5	86.4	86.2	84.2	83.9	82.9	81.9	80.8	79.2	78.9	81.8	82.6	83.3	85.0
	6	85.0	83.3	82.4	82.1	82.4	82.9	82.8	83.0	82.3	83.7	85.4	86.3	86.7
	7	88.9	87.4	85.0	82.0	80.9	78.9	79.0	79.9	80.7	83.8	83.0	82.1	89.1
	8	84.5	84.8	82.0	80.1	81.5	82.0	80.2	79.7	80.6	79.7	81.8	82.2	82.2
	9	85.8	85.0	83.5	81.4	77.0	74.3	74.8	66.4	67.5	69.7	72.5	81.0	76.7
	10	79.1	81.6	81.4	81.1	80.2	79.2	78.3	77.9	77.0	77.8	80.2	82.0	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	82.8
	12	86.0	85.7	84.1	83.2	83.6	83.5	83.0	83.2	83.2	83.3	84.2	84.8	86.3
	13	87.8	86.5	84.1	85.6	86.7	87.8	89.7	87.9	85.0	83.9	83.6	85.7	87.1
	14	89.0	87.5	85.5	84.2	83.7	83.2	82.4	82.1	82.7	82.9	83.6	84.3	84.9
	15	89.1	86.9	83.9	81.9	81.3	82.1	81.9	80.1	81.8	82.0	83.2	84.2	84.5
	16	84.9	81.1	80.8	81.3	82.1	81.4	81.0	79.2	78.9	79.3	80.5	81.5	82.1
	17	80.3	79.1	78.0	78.7	79.6	79.3	78.9	78.6	79.2	79.2	79.6	80.8	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	74.6
	19	75.1	74.0	74.0	75.2	74.9	74.6	73.2	72.9	73.8	74.0	76.0	75.1	76.9
	20	75.7	74.0	71.8	72.9	74.2	75.4	75.3	75.0	74.5	74.6	75.7	76.6	77.7
	21	81.8	79.1	77.0	76.6	76.5	76.8	77.1	78.1	77.8	78.2	79.9	80.3	80.3
	22	80.7	79.0	77.9	78.0	78.9	80.1	80.9	80.6	80.3	82.0	83.7	84.4	84.1
	23	85.8	82.1	79.7	78.1	79.0	79.7	79.7	79.8	79.6	81.1	81.0	81.3	81.5
	24	82.9	81.2	81.3	82.3	83.7	84.3	83.9	83.8	83.5	83.9	84.5	85.1	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	86.0
	26	87.2	86.0	85.0	83.8	83.6	84.7	83.7	82.7	83.0	83.9	84.7	85.7	85.9
	27	88.2	86.9	85.3	84.8	84.3	83.9	83.1	83.7	83.8	84.6	84.6	85.1	87.0
	28	87.3	85.8	85.1	84.0	82.8	82.3	82.8	82.0	80.1	80.3	82.7	83.1	83.6
	29	84.9	84.6	84.8	83.8	82.9	81.2	80.5	79.7	78.3	78.9	79.5	81.6	81.6
	30	86.3	83.2	78.7	80.3	80.8	78.0	81.0	80.6	80.2	81.2	82.7	82.8	83.2
Hourly Means	84.47	83.21	81.92	81.44	81.21	80.90	80.77	80.06	79.93	80.67	81.79	82.80	83.38	
TEMPERATURE OF THE MAGNET.														
DECEMBER.	1	69.8	70.4	70.7	71.0	71.5	71.5	71.6	71.4	71.0	70.7	70.4	70.0	69.7
	2	70.4	70.7	71.0	71.3	71.5	71.6	71.7	71.4	71.1	70.6	70.3	69.8	69.6
	3	68.7	68.9	69.4	69.5	69.7	69.7	69.7	69.4	69.2	68.8	68.5	68.0	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	67.7
	5	69.5	70.4	71.4	72.0	72.6	72.8	72.7	72.7	72.5	71.9	71.7	71.3	70.8
	6	69.5	69.4	69.3	69.3	69.2	69.1	68.8	68.5	68.0	67.7	67.6	67.2	66.8
	7	66.4	66.8	67.3	67.7	68.0	68.6	68.8	68.9	68.7	68.5	68.4	68.0	67.7
	8	68.0	68.5	68.9	69.6	70.0	70.5	70.7	70.7	70.6	70.4	69.9	69.9	69.7
	9	69.8	70.4	70.7	71.0	71.5	71.7	71.7	71.7	71.8	71.7	70.9	70.7	70.0
	10	69.7	70.0	70.5	70.7	71.0	71.2	70.9	70.9	70.7	70.4	70.2	69.9	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	68.3
	12	68.2	68.7	69.0	69.5	69.7	70.1	70.3	70.3	70.3	70.0	69.7	69.5	69.0
	13	69.2	69.4	69.7	69.7	69.7	69.7	69.5	69.0	68.7	68.2	67.7	67.4	67.2
	14	66.7	67.5	68.2	69.0	69.4	69.6	69.7	69.5	69.2	68.7	68.5	68.0	67.7
	15	68.7	69.3	69.7	70.0	70.2	70.2	70.3	69.8	69.6	69.3	68.7	68.4	67.9
	16	69.8	70.6	71.4	71.8	72.2	72.2	71.9	71.7	71.3	70.7	70.6	70.3	70.2
	17	72.6	73.0	73.4	73.6	73.6	73.6	73.7	73.3	72.9	72.7	72.6	72.5	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	74.6
	19	74.7	75.2	75.5	75.7	75.8	76.0	75.9	75.7	75.7	75.1	75.1	74.8	74.6
	20	76.5	76.8	77.4	77.7	77.6	77.6	77.5	77.3	76.8	76.0	75.5	75.0	74.7
	21	72.7	72.9	73.4	73.5	73.7	73.7	73.7	73.3	72.8	72.5	71.9	71.9	71.7
	22	72.0	72.4	72.7	72.8	72.9	72.9	73.3	73.2	73.1	72.8	72.5	72.1	71.7
	23	70.6	70.8	71.3	71.7	71.8	71.8	72.0	71.9	71.8	71.3	70.8	70.6	70.3
	24	68.9	69.2	69.3	69.5	69.6	69.6	69.5	69.1	68.7	68.7	68.4	68.2	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	69.2
	26	69.1	69.5	69.9	70.1	70.4	70.5	70.7	70.6	70.4	69.9	69.5	69.0	68.7
	27	68.0	68.7	69.4	69.8	70.2	70.5	70.6	70.5	70.2	69.9	69.7	69.5	68.9
	28	69.4	69.5	69.7	69.9	70.0	70.3	70.6	70.4	70.3	70.1	69.9	69.7	69.5
	29	69.7	70.2	70.6	70.8	71.0	71.0	71.2	70.9	70.5	70.0	69.6	69.3	68.8
	30	69.7	70.2	70.6	71.1	71.6	71.9	72.0	72.0	71.9	71.7	71.7	71.5	71.2
Hourly Means	69.93	70.36	70.78	71.09	71.32	71.46	71.50	71.31	71.07	70.70	70.40	70.10	69.85	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
DECEMBER.	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	85.3	86.8	87.2	86.6	87.1	88.9	88.8	89.3	87.8	87.1	84.8	84.33
	2	86.1	86.7	86.9	87.5	89.2	89.8	90.0	89.2	87.2	85.8	85.8	85.43
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	88.5	88.5	88.0	88.0	89.5	91.9	91.5	88.9	89.1	87.0	84.9	86.62
	5	87.7	88.8	88.2	88.5	86.0	86.3	86.8	88.5	88.0	86.3	87.2	84.98
	6	87.6	88.1	88.3	89.1	90.6	92.2	90.5	89.0	90.9	90.7	87.9	86.38
	7	86.6	87.0	87.9	88.6	88.8	89.1	89.3	90.1	89.9	87.0	85.9	85.45
	8	82.4	83.5	84.1	84.9	86.0	87.3	89.0	89.5	89.9	88.5	86.1	83.85
	9	76.2	76.0	77.1	79.1	79.3	81.4	80.4	80.2	79.5	79.1	78.4	77.60
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	83.5	83.9	84.0	84.6	84.6	85.5	85.0	83.1	84.1	86.3	86.7	82.08
	12	86.7	86.0	85.8	86.9	87.6	89.1	90.0	88.7	90.0	88.0	87.8	85.86
	13	87.5	88.1	89.3	89.5	90.1	90.0	92.0	92.5	91.0	92.0	88.6	88.00
	14	86.4	86.3	86.5	86.6	87.2	88.0	87.9	89.5	90.7	90.9	90.1	86.09
	15	86.0	85.1	85.9	86.2	87.0	88.0	90.0	90.2	89.8	90.4	87.6	85.38
	16	82.7	83.2	83.0	83.4	84.7	86.8	88.7	89.4	87.8	85.9	83.1	83.03
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	75.8	76.8	76.1	76.9	77.4	77.9	78.3	81.1	81.5	80.2	78.1	78.58
	19	77.1	77.0	77.3	77.6	77.8	79.0	80.8	82.4	82.9	79.9	78.1	76.65
	20	78.6	79.3	80.1	81.5	82.3	83.0	85.1	86.9	87.1	85.4	84.6	78.64
	21	81.6	82.2	82.2	82.4	83.5	85.2	86.5	85.2	85.1	84.3	83.0	80.86
	22	85.5	86.1	85.0	85.6	87.0	88.7	90.2	90.4	89.2	89.8	88.9	84.04
	23	82.6	83.0	83.3	83.9	85.2	87.4	88.8	89.3	88.4	87.2	85.2	83.03
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	86.8	87.8	88.7	89.1	90.2	90.7	91.4	93.0	93.1	92.4	90.8	86.68
	26	85.7	86.5	87.4	88.9	90.9	92.4	93.2	92.5	91.0	89.9	90.0	87.01
	27	86.7	86.8	86.7	87.2	89.1	90.2	91.5	92.8	92.2	90.2	89.7	87.02
	28	84.4	85.0	84.3	84.5	85.5	85.0	85.3	86.1	87.4	88.6	87.4	84.39
	29	83.0	83.9	84.9	85.6	87.7	89.7	91.5	90.5	87.3	86.3	87.2	84.16
30	83.1	86.0	86.7	87.0	87.3	88.2	88.3	87.8	85.9	84.8	84.9	83.70	
Hourly Means	84.00	84.55	84.80	85.37	86.22	87.37	88.11	88.31	87.95	87.08	85.88	83.84	

TEMPERATURE OF THE MAGNET.

DECEMBER.	1	69.5	69.3	68.8	68.7	68.4	68.4	68.6	68.6	68.7	69.4	69.7	69.91
	2	69.3	69.0	68.7	68.6	68.1	68.0	67.9	67.9	68.2	68.0	68.4	69.71
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	67.7	67.5	67.5	67.4	67.3	67.1	67.1	67.5	67.7	68.2	68.8	68.38
	5	70.4	70.2	69.9	69.9	69.7	69.5	69.2	69.3	69.3	69.5	69.5	70.78
	6	66.6	66.5	65.9	65.8	65.7	65.7	65.6	65.6	65.6	65.7	65.9	67.29
	7	67.5	67.2	66.8	66.7	66.4	66.3	66.2	66.5	66.7	67.0	67.5	67.36
	8	69.5	69.1	68.9	68.7	68.5	68.0	68.0	68.2	68.5	68.8	69.4	69.33
	9	69.4	69.1	69.0	68.7	68.6	68.3	68.4	68.5	68.7	68.9	69.4	70.03
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	67.9	67.7	67.7	67.5	67.5	67.4	67.2	67.3	67.4	67.5	67.8	69.05
	12	68.8	68.7	68.5	68.2	68.0	68.2	68.2	68.1	68.2	68.4	68.8	69.02
	13	66.7	66.5	66.1	65.7	65.5	65.0	64.9	65.0	65.4	65.7	66.2	67.41
	14	67.5	67.0	66.7	66.6	66.4	66.2	66.3	66.5	66.8	67.5	67.9	67.80
	15	67.7	67.5	67.4	67.3	67.4	67.2	67.4	67.6	68.0	68.3	69.0	68.62
	16	69.9	69.7	69.6	69.5	69.4	69.2	69.4	69.7	70.2	71.0	71.7	70.58
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	74.4	74.2	73.7	73.7	73.7	73.7	73.6	73.5	73.7	73.9	74.4	73.57
	19	74.5	74.4	74.2	74.0	73.9	73.7	73.7	73.9	74.4	74.9	75.6	74.88
	20	74.4	74.0	73.7	73.5	73.1	73.0	72.8	72.7	72.6	72.5	72.6	75.05
	21	71.7	71.6	71.5	71.4	71.1	70.7	70.7	70.8	71.1	71.2	71.6	72.13
	22	71.3	71.0	70.7	70.3	70.1	70.0	69.8	69.8	69.9	69.9	70.2	71.56
	23	69.8	69.6	69.1	68.8	68.7	68.4	68.3	68.3	68.3	68.6	68.7	70.14
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	68.9	68.7	68.4	68.1	67.8	67.6	67.5	67.7	67.9	68.4	68.7	68.65
	26	68.2	67.8	67.5	67.0	66.7	66.5	66.6	66.6	66.8	67.1	67.7	68.62
	27	68.7	68.7	68.6	68.5	68.4	68.1	68.1	68.3	68.5	68.8	69.1	69.15
	28	69.4	69.4	69.3	69.2	69.0	69.0	68.9	68.9	68.8	68.9	69.3	69.56
	29	68.6	68.2	67.7	67.7	67.5	67.5	67.5	67.7	68.0	68.7	69.2	69.25
	30	70.9	70.7	70.4	70.3	70.0	69.7	69.7	69.7	70.0	70.3	70.5	70.80
Hourly Means	69.58	69.36	69.09	68.92	68.73	68.55	68.52	68.62	68.82	69.12	69.52	69.95	

HORIZONTAL FORCE.													
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00029.													
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 .	12 ^h .
Dec. 31	84.2	82.7	81.1	80.2	80.7	81.0	81.2	81.2	81.5	82.1	82.8	85.0	—
1	—	—	—	—	—	—	—	—	—	—	—	—	86.0
2	86.0	87.8	83.8	79.0	74.1	75.0	77.6	76.1	76.9	77.8	79.3	79.8	84.0
3	78.0	78.0	76.3	76.0	76.7	75.5	74.2	74.4	74.0	73.9	74.4	74.4	75.0
4	79.7	78.9	78.2	78.3	79.0	79.1	77.5	76.6	77.0	77.0	77.3	78.8	80.1
5	81.2	78.0	76.8	77.2	77.0	76.7	77.2	77.4	77.3	77.7	77.7	78.1	79.0
6	81.8	79.2	78.5	79.9	79.6	77.3	77.2	76.5	77.3	77.7	78.0	78.6	79.3
7	85.1	84.3	81.2	80.9	78.9	78.1	78.4	78.6	78.1	78.5	79.7	80.2	—
8	—	—	—	—	—	—	—	—	—	—	—	—	78.0
9	80.4	81.0	79.0	77.1	76.8	76.6	75.7	73.8	73.8	75.0	75.3	76.7	77.5
10	83.2	80.6	78.1	77.6	77.6	77.1	77.8	77.1	78.0	77.2	78.9	79.7	80.2
11	85.0	85.7	86.0	84.4	83.5	80.8	77.7	73.8	70.0	73.2	75.1	75.3	76.7
12	80.2	81.0	80.7	80.7	80.4	79.0	79.0	78.6	78.1	78.5	79.3	80.0	80.9
13	85.9	87.0	85.1	83.6	82.2	81.6	81.1	81.8	83.0	83.2	84.6	85.3	85.8
14	83.4	83.8	83.7	83.5	82.9	82.7	81.0	80.1	80.4	81.1	80.7	81.6	—
15	—	—	—	—	—	—	—	—	—	—	—	—	81.3
16	85.3	84.7	84.0	82.8	82.4	83.2	83.6	82.3	84.2	83.2	84.8	84.0	87.8
17	86.3	84.9	84.5	84.9	84.1	81.6	80.4	80.1	80.8	81.3	81.9	82.1	83.1
18	85.8	84.8	85.3	83.4	82.6	81.1	80.3	80.0	78.9	79.8	79.6	79.6	81.1
19	82.3	80.3	79.9	82.2	82.2	81.9	80.5	79.1	79.0	79.1	79.0	79.8	81.0
20	84.2	82.0	81.2	82.3	83.0	82.9	82.2	81.8	81.1	81.6	81.9	82.5	82.9
21	84.6	85.7	86.8	87.0	87.9	88.3	87.7	87.2	87.2	87.8	87.9	88.3	—
22	—	—	—	—	—	—	—	—	—	—	—	—	87.1
23	90.3	87.8	87.0	86.7	85.8	85.3	85.0	84.9	85.1	86.1	86.1	86.1	90.8
24	90.3	88.8	87.7	86.1	86.2	85.1	84.4	83.5	82.6	83.2	84.3	85.9	83.3
25	85.1	82.8	81.1	80.0	79.3	79.3	79.7	80.9	81.1	81.7	82.0	82.7	83.6
26	86.4	86.6	85.0	83.8	83.2	82.5	81.3	81.1	81.0	81.2	81.5	82.2	82.1
27	88.0	88.6	89.8	88.8	88.2	87.2	86.8	86.8	86.5	86.0	86.8	88.4	90.1
28	90.0	91.6	91.8	92.5	90.9	82.8	78.0	78.0	80.9	80.2	84.0	85.6	—
29	—	—	—	—	—	—	—	—	—	—	—	—	90.1
30	88.9	87.7	87.0	87.0	86.9	86.4	85.0	84.1	84.0	84.1	84.5	84.9	85.6
31	80.1	81.7	82.5	84.3	85.9	85.0	82.9	84.0	83.9	84.5	85.0	85.8	86.5
Hourly Means	84.51	83.93	83.04	82.60	82.15	81.23	80.50	79.99	80.06	80.47	81.19	81.90	82.92
TEMPERATURE OF THE MAGNET.													
Dec. 31	70.7	71.1	71.5	71.8	72.2	72.4	72.2	71.9	71.5	71.1	70.7	70.5	—
1	—	—	—	—	—	—	—	—	—	—	—	—	68.8
2	68.9	69.6	70.3	70.7	71.6	71.9	72.1	72.0	71.9	71.7	71.2	70.9	70.7
3	73.5	74.3	74.9	75.7	76.4	76.9	77.0	77.3	76.9	76.7	76.4	76.0	75.7
4	73.7	73.8	74.1	74.3	74.7	74.8	75.0	75.0	74.8	74.5	74.3	73.7	73.4
5	73.0	73.4	73.8	74.5	74.8	75.3	75.5	75.5	75.1	74.8	74.5	74.0	73.7
6	73.1	73.6	74.0	74.5	74.8	75.0	75.2	75.2	74.9	74.6	74.0	73.7	73.3
7	73.6	73.8	74.5	74.7	75.0	75.2	74.9	74.7	74.4	73.8	73.5	73.1	—
8	—	—	—	—	—	—	—	—	—	—	—	—	74.6
9	74.1	74.6	75.0	75.5	75.8	76.3	76.1	76.0	75.9	75.7	75.5	75.0	74.4
10	74.0	74.7	75.1	75.7	75.8	76.0	76.1	75.8	75.4	74.8	74.3	73.7	73.4
11	73.4	73.7	73.7	74.0	74.4	74.3	74.5	74.3	73.8	73.8	74.0	73.5	73.2
12	72.5	72.7	73.0	73.4	73.7	73.9	73.9	73.6	73.4	72.7	72.5	72.2	71.8
13	70.6	70.7	71.0	71.2	71.2	71.1	71.0	70.6	70.3	70.0	69.5	69.0	68.9
14	70.9	71.6	72.3	72.8	73.4	73.7	73.7	73.5	73.0	72.7	72.3	72.0	—
15	—	—	—	—	—	—	—	—	—	—	—	—	71.9
16	70.7	71.1	71.6	72.0	72.7	72.7	73.2	73.0	72.7	72.5	72.1	71.7	71.5
17	70.6	71.0	71.5	71.8	72.1	72.4	72.2	71.9	71.7	71.6	71.4	70.9	70.7
18	71.3	71.9	72.6	73.2	73.4	73.5	73.7	73.5	73.3	72.7	72.4	72.3	72.3
19	72.7	73.3	73.8	74.3	74.5	74.6	74.6	74.6	74.6	74.4	73.9	73.5	72.7
20	72.2	72.4	72.7	72.9	73.0	72.9	73.2	72.9	72.7	72.6	72.2	71.9	71.7
21	69.6	69.6	69.4	69.7	69.9	69.9	69.6	69.4	69.1	68.8	68.6	68.1	—
22	—	—	—	—	—	—	—	—	—	—	—	—	67.3
23	67.5	68.2	68.7	69.2	69.7	69.8	69.8	69.8	69.6	68.8	68.7	68.5	68.3
24	68.7	69.3	69.8	70.5	70.8	71.2	71.1	71.0	70.5	70.2	69.8	69.5	69.3
25	70.6	70.9	71.8	72.4	72.6	72.7	72.6	72.2	71.8	71.3	70.8	70.5	70.0
26	70.5	71.0	71.5	71.8	72.0	72.2	72.5	72.3	71.8	71.6	71.2	70.9	70.7
27	69.5	69.7	69.9	70.1	70.4	70.5	70.4	70.4	70.2	70.0	69.7	69.4	68.8
28	67.0	67.5	67.6	67.7	67.9	67.9	67.7	67.4	66.9	66.7	66.5	66.2	—
29	—	—	—	—	—	—	—	—	—	—	—	—	66.5
30	66.7	67.1	67.7	68.2	68.7	69.1	69.4	69.4	69.4	69.3	69.0	68.8	68.7
31	68.8	69.5	69.9	70.4	70.8	71.3	71.2	70.9	70.7	70.2	69.7	69.5	69.0
Hourly Means	71.05	71.49	71.92	72.33	72.68	72.87	72.91	72.74	72.46	72.13	71.80	71.44	71.16

HORIZONTAL FORCE.												
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.												
Mean Göttingen Time.	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.
Dec. 31	—	—	—	—	—	—	—	—	—	—	—	—
1	87.7	89.0	88.6	89.0	90.5	91.1	91.1	90.0	85.8	88.0	89.3	85.40
2	80.8	80.1	81.3	82.2	82.3	82.2	84.1	84.3	81.9	81.1	82.6	80.84
3	75.4	75.8	76.0	76.4	77.1	78.9	80.7	80.1	78.8	77.9	79.0	76.54
4	80.0	81.8	82.2	82.6	82.9	83.0	82.1	82.9	82.6	83.7	82.5	80.16
5	79.2	80.0	80.3	80.5	81.8	83.7	84.7	85.6	83.0	82.0	83.1	79.78
6	81.4	84.3	84.0	86.7	85.9	87.0	89.0	90.3	87.5	84.9	85.4	81.97
7	—	—	—	—	—	—	—	—	—	—	—	—
8	79.0	79.0	80.5	80.8	81.9	82.8	83.5	84.3	84.8	84.1	80.5	80.88
9	78.2	78.2	79.1	79.7	79.8	80.2	82.3	83.8	85.1	85.6	84.6	78.97
10	79.4	82.2	83.5	84.5	87.2	89.0	90.5	90.9	88.2	85.0	85.1	82.03
11	78.1	78.9	79.9	81.1	82.7	84.5	84.1	83.0	81.5	80.0	79.3	80.01
12	81.2	81.2	82.3	83.1	83.7	84.5	84.6	84.3	83.3	83.0	84.3	81.33
13	85.9	85.9	85.9	86.7	82.9	89.0	88.1	85.0	83.5	82.8	82.0	84.50
14	—	—	—	—	—	—	—	—	—	—	—	—
15	82.8	84.5	86.7	86.6	87.6	88.1	86.8	84.0	82.1	82.0	82.8	83.34
16	88.4	88.6	88.3	93.7	92.4	91.5	90.8	92.6	91.5	89.3	88.1	86.98
17	85.1	85.2	85.5	86.0	87.6	88.2	88.5	87.9	88.0	86.8	85.2	84.58
18	81.6	82.2	82.8	83.3	84.3	86.5	86.9	86.1	84.5	81.4	82.2	82.67
19	81.0	81.8	82.4	83.8	85.2	88.3	89.4	89.5	87.5	87.3	86.8	82.89
20	83.6	84.5	85.1	85.0	85.9	86.9	88.0	87.6	85.2	82.5	83.1	83.63
21	—	—	—	—	—	—	—	—	—	—	—	—
22	89.0	89.2	89.4	89.3	89.7	90.6	91.7	92.6	93.2	92.9	93.1	88.93
23	87.7	87.9	87.5	89.0	90.6	91.2	92.0	91.3	91.3	90.9	90.5	88.20
24	84.0	83.2	86.9	85.4	86.5	88.1	89.5	88.4	88.4	86.2	86.7	86.03
25	83.9	84.1	85.1	85.5	86.0	86.6	86.4	87.0	88.8	86.8	86.7	83.59
26	83.9	84.9	85.7	85.5	86.2	87.3	86.8	86.8	86.7	87.2	88.0	84.45
27	91.3	90.2	90.4	91.6	91.5	92.7	92.1	92.8	92.4	92.3	90.6	89.58
28	—	—	—	—	—	—	—	—	—	—	—	—
29	90.0	91.4	92.0	92.8	93.2	94.2	92.7	91.4	90.5	89.8	88.9	88.47
30	86.1	86.1	86.9	87.2	88.7	89.4	87.6	86.0	83.9	83.4	81.7	85.96
31	86.3	87.7	87.1	87.6	88.9	89.4	90.0	89.6	88.9	87.5	85.9	85.88
Hourly Means	83.37	84.00	84.64	85.39	86.04	87.22	87.56	87.34	86.26	85.35	85.11	83.61

TEMPERATURE OF THE MAGNET.												
	°	°	°	°	°	°	°	°	°	°	°	°
Dec. 31	—	—	—	—	—	—	—	—	—	—	—	—
1	68.7	68.4	68.1	67.7	67.5	67.1	67.2	67.3	67.5	67.9	68.5	69.68
2	70.6	70.3	70.3	70.0	69.8	69.7	69.8	70.1	70.7	71.5	72.4	70.78
3	75.4	75.1	74.7	74.4	73.8	73.6	73.1	73.0	73.2	73.4	73.5	75.04
4	73.0	72.7	72.4	71.9	71.9	71.9	71.8	71.8	72.0	72.3	72.6	73.35
5	73.5	73.2	72.8	72.5	72.3	71.9	71.7	71.8	71.9	72.4	72.7	73.53
6	72.8	72.6	72.3	72.0	71.8	71.7	71.7	71.9	72.1	72.5	72.8	73.34
7	—	—	—	—	—	—	—	—	—	—	—	—
8	74.0	73.8	73.7	73.6	73.4	73.0	72.9	72.8	73.0	73.3	73.8	73.88
9	74.1	73.7	73.3	72.9	72.7	72.6	72.6	72.7	72.9	73.3	73.7	74.35
10	72.9	72.7	72.3	71.9	71.8	71.8	71.7	72.0	72.2	72.6	72.9	73.73
11	72.7	72.5	72.3	72.0	71.7	71.6	71.6	71.7	71.7	72.0	72.3	73.03
12	71.6	71.3	71.0	70.7	70.6	70.5	70.4	70.4	70.4	70.1	70.3	71.94
13	68.7	68.7	68.6	68.6	68.6	68.5	68.7	68.7	69.2	69.7	70.2	69.72
14	—	—	—	—	—	—	—	—	—	—	—	—
15	71.5	71.2	70.7	70.5	70.4	70.2	69.9	69.8	70.0	70.0	70.3	71.60
16	70.9	70.7	70.3	69.8	69.7	69.5	69.4	69.5	69.6	69.8	70.2	71.12
17	70.5	70.2	69.8	69.5	69.4	69.1	69.0	69.3	69.6	69.9	70.6	70.70
18	72.1	71.9	71.8	71.7	71.5	71.0	70.7	70.7	71.0	71.5	71.9	72.16
19	72.5	71.9	71.7	71.6	71.4	70.8	70.7	70.7	70.9	71.3	71.7	72.78
20	71.5	71.2	70.8	70.7	70.5	70.1	69.8	69.7	69.6	69.6	69.6	71.52
21	—	—	—	—	—	—	—	—	—	—	—	—
22	66.9	66.7	66.3	66.0	65.7	65.7	65.7	65.7	65.9	66.4	66.7	67.78
23	67.8	67.6	67.2	66.9	66.6	66.5	66.4	66.5	66.7	67.4	67.8	68.08
24	68.9	68.7	68.6	68.4	68.0	68.0	68.0	68.2	68.5	68.9	69.7	69.40
25	69.8	69.6	69.5	69.3	68.9	68.8	68.7	68.7	69.0	69.4	70.0	70.50
26	70.4	70.2	69.8	69.7	69.5	69.3	68.9	68.9	68.7	68.8	69.1	70.55
27	68.6	68.1	67.7	67.2	66.7	66.7	66.5	66.5	66.5	66.6	66.7	68.62
28	—	—	—	—	—	—	—	—	—	—	—	—
29	66.2	65.7	65.6	65.3	65.1	64.7	64.7	64.8	65.0	65.7	66.1	66.35
30	68.6	68.5	68.2	68.0	67.7	67.5	67.4	67.5	67.8	67.9	68.6	68.30
31	68.7	68.6	68.4	67.9	67.6	67.3	66.9	66.9	67.1	67.3	67.7	69.01
Hourly Means	70.85	70.59	70.30	70.03	69.80	69.60	69.48	69.54	69.73	70.06	70.46	71.20

HORIZONTAL FORCE.														
One Scale Division = .00018 parts the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.														
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 .	12 ^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.	
FEBRUARY.	1	84.7	85.3	86.3	86.5	85.8	85.3	85.3	85.1	85.0	85.3	85.8	87.0	87.3
	2	81.9	81.9	83.5	82.9	81.4	81.6	81.3	80.0	80.5	80.3	80.9	81.6	81.9
	3	77.8	77.9	80.1	81.3	81.5	81.1	80.8	80.7	80.5	80.9	81.2	81.9	82.9
	4	83.0	81.5	83.2	85.1	86.6	86.9	87.6	88.0	88.4	90.1	90.2	90.0	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	85.6
	6	83.7	82.7	79.9	79.4	81.8	82.0	78.7	75.6	75.9	76.1	77.6	80.5	81.8
	7	80.4	77.8	75.7	76.9	77.2	73.6	76.1	79.2	77.0	77.6	78.0	79.2	80.0
	8	78.9	77.4	78.0	78.2	79.9	81.4	81.5	81.5	81.2	81.7	82.6	82.1	83.7
	9	90.3	88.4	85.8	82.4	81.4	78.7	81.0	82.9	83.1	84.1	84.5	85.2	87.0
	10	85.4	84.2	83.9	83.5	83.0	82.6	82.9	83.0	83.4	84.2	84.9	84.9	85.1
	11	88.2	87.8	86.0	85.1	84.1	82.7	81.5	81.9	80.9	81.2	81.6	81.8	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	84.9
	13	86.0	87.2	85.7	83.9	82.7	81.2	80.3	81.0	81.8	81.2	82.9	83.2	84.5
	14	85.4	81.8	78.9	81.1	81.2	80.7	81.0	82.0	81.5	85.5	82.0	83.8	85.0
	15	84.5	81.7	81.1	82.6	82.5	83.1	82.9	82.4	82.8	84.4	84.8	85.0	85.1
	16	86.6	86.5	86.0	86.3	85.8	85.8	84.7	84.1	86.1	85.0	84.3	86.0	87.4
	17	81.1	82.7	85.2	87.5	87.6	87.1	83.2	83.2	84.6	85.9	86.9	87.4	88.5
	18	83.5	83.7	84.1	84.2	84.6	83.1	81.3	80.8	82.0	82.6	83.8	86.6	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	85.4
	20	81.8	81.9	81.2	81.9	81.7	79.9	77.7	77.4	79.5	80.3	80.2	82.2	80.8
	21	76.3	76.3	76.1	76.2	76.1	76.3	76.4	76.2	76.1	77.0	77.0	77.2	77.9
	22	78.9	77.8	76.5	74.7	73.8	74.6	75.0	75.3	75.7	76.2	76.7	77.4	77.2
	23	80.4	80.7	80.3	79.2	78.9	79.1	79.9	79.0	79.5	79.8	80.3	81.9	82.5
	24	81.3	82.6	79.1	74.1	70.3	71.2	70.1	70.0	65.6	70.2	71.8	74.2	77.0
	25	77.0	78.5	80.1	80.6	80.0	80.6	79.8	79.3	79.2	80.7	80.8	80.0	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	92.0
	27	87.2	88.5	90.0	89.7	90.3	90.4	90.9	90.0	89.8	90.0	89.5	90.4	91.7
	28	88.3	88.7	88.7	88.4	88.7	89.5	89.1	88.5	88.5	88.7	89.1	89.9	90.2
Hourly Means	83.02	82.65	82.31	82.15	81.95	81.60	81.21	81.13	81.19	82.04	82.39	83.31	84.39	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	1°	°	°	°	°	°	°	
FEBRUARY.	1	67.9	68.2	68.7	69.0	69.5	69.6	69.6	69.4	68.9	68.6	68.4	68.2	68.1
	2	70.0	70.9	72.2	72.9	73.7	74.1	74.4	74.4	74.1	73.7	73.2	72.7	72.4
	3	73.4	73.8	74.2	74.4	74.6	74.5	74.5	73.9	73.7	73.3	73.0	72.6	72.4
	4	71.5	71.7	71.7	71.7	71.4	71.1	70.7	70.4	70.0	69.7	69.4	69.1	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	68.5
	6	69.9	70.7	71.4	72.1	72.7	72.9	73.0	72.7	72.6	72.4	72.2	71.9	71.7
	7	73.2	73.7	74.0	74.3	74.5	74.7	74.6	74.5	74.0	73.7	73.4	73.2	72.9
	8	70.7	71.3	71.7	71.9	72.3	72.5	72.5	72.4	72.1	71.8	71.5	71.0	70.7
	9	69.0	69.4	69.7	69.8	70.0	70.1	69.9	69.7	69.6	69.0	68.9	68.6	68.4
	10	68.4	68.9	69.3	69.9	70.3	70.5	70.7	70.6	70.5	70.3	69.9	69.7	69.6
	11	69.9	70.5	71.4	71.8	72.5	72.7	72.9	72.9	72.8	72.7	72.2	71.7	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	70.7
	13	70.3	70.3	70.4	70.3	70.2	70.0	70.2	69.9	69.7	69.6	69.4	69.2	69.0
	14	68.5	68.7	69.0	69.6	69.9	70.2	70.3	70.3	70.1	69.9	69.6	69.5	68.8
	15	67.5	67.9	68.3	68.7	69.1	69.5	69.7	69.7	69.7	69.5	69.4	68.9	68.6
	16	68.4	68.5	68.5	68.4	68.5	68.5	68.6	68.5	68.3	68.0	67.8	67.7	67.4
	17	66.7	66.8	67.4	67.6	67.7	67.9	67.9	68.0	67.8	67.7	67.5	67.2	67.0
	18	68.3	69.0	69.7	70.0	70.7	70.7	71.0	70.8	70.6	70.4	69.9	69.6	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	69.3
	20	70.1	70.7	71.7	72.3	73.0	73.5	73.5	73.6	73.5	73.4	73.5	73.5	73.0
	21	74.4	74.7	75.0	75.5	75.7	75.7	75.7	75.5	75.2	75.0	75.1	75.0	74.7
	22	74.8	75.4	76.0	76.4	76.7	76.7	76.6	76.4	76.0	75.6	75.2	74.8	74.5
	23	73.6	73.7	74.0	74.3	74.3	74.2	74.0	73.7	73.4	73.1	72.8	72.6	72.2
	24	72.0	72.5	72.7	73.3	73.5	73.7	73.7	73.5	73.7	73.7	73.6	73.4	73.4
	25	71.3	71.5	71.7	71.8	71.9	71.7	71.8	71.9	71.9	71.9	72.0	71.5	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	65.0
	27	64.9	65.4	65.7	66.1	66.1	66.0	65.8	65.7	65.4	65.1	65.1	64.9	64.7
	28	65.2	65.6	65.8	66.5	66.7	66.9	67.3	67.3	67.2	67.0	66.7	66.6	66.3
Hourly Means	70.00	70.41	70.84	71.19	71.48	71.58	71.62	71.49	71.28	71.05	70.82	70.55	69.97	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
FEBRUARY.	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	88.1	88.7	89.0	89.3	89.6	90.6	91.1	89.9	88.6	87.5	85.1	87.17
	2	82.6	83.3	83.4	84.0	85.2	87.1	87.2	86.5	85.1	83.4	80.3	82.82
	3	83.1	83.6	84.4	84.7	85.7	86.9	86.6	85.0	84.1	84.0	83.9	82.52
	4	—	—	—	—	—	—	—	—	—	—	—	87.16
	5	86.5	86.5	87.2	87.8	89.1	90.8	91.0	90.7	87.2	84.9	84.0	81.87
	6	81.5	82.1	84.2	83.7	85.0	86.0	86.2	85.7	86.1	85.3	83.3	79.33
	7	81.2	80.4	80.2	80.3	80.4	82.2	83.9	84.9	82.1	80.4	79.2	83.11
	8	84.3	83.3	84.1	85.3	85.8	87.2	87.7	86.4	86.1	87.2	89.1	85.21
	9	86.3	86.7	87.7	88.2	88.0	87.3	86.7	85.1	84.8	84.6	84.8	85.91
	10	84.6	84.5	85.1	86.1	87.3	89.6	90.9	90.9	90.7	90.9	90.2	85.18
	11	—	—	—	—	—	—	—	—	—	—	—	85.09
	12	84.6	87.0	86.2	88.0	86.7	88.2	89.9	90.7	86.7	84.3	84.9	84.57
	13	88.7	88.9	86.0	86.1	86.7	87.6	85.8	87.9	87.8	88.1	87.0	85.30
	14	85.8	86.6	87.0	87.5	87.1	88.4	88.1	89.4	88.7	86.5	84.7	86.93
	15	84.5	88.1	87.2	87.5	86.7	87.5	89.0	87.8	88.0	90.2	87.9	87.02
	16	87.7	89.0	89.8	90.7	90.7	—	92.2	90.1	87.2	84.6	82.8	85.50
	17	89.1	89.8	88.9	88.4	88.3	89.1	90.7	90.9	89.8	87.3	85.3	81.33
	18	—	—	—	—	—	—	—	—	—	—	—	78.51
	19	87.3	88.2	87.8	87.2	87.9	89.0	90.0	89.2	88.0	87.0	84.7	77.92
	20	86.6	83.0	82.0	81.0	81.1	81.5	83.0	84.0	83.5	81.2	78.5	81.39
	21	77.9	78.1	78.8	79.3	80.1	81.8	83.4	83.8	83.2	82.5	80.3	76.32
	22	77.6	79.1	79.1	79.2	79.7	80.4	81.2	81.2	81.2	80.8	80.7	86.50
	23	83.0	83.5	83.3	82.1	82.8	84.3	86.8	85.6	81.9	79.4	79.1	91.06
	24	81.9	78.8	78.6	80.0	79.5	80.4	79.9	79.1	79.7	78.5	77.9	90.12
	25	—	—	—	—	—	—	—	—	—	—	—	84.07
	26	93.1	94.2	93.7	94.4	94.7	94.9	95.6	95.0	93.3	90.2	88.2	85.40
	27	92.0	92.3	92.3	93.0	93.4	93.1	95.1	95.9	92.0	89.8	88.1	87.16
28	91.7	90.6	91.1	91.3	91.5	92.0	93.0	93.1	92.0	90.8	89.6	82.82	
Hourly Means	85.40	85.68	85.71	86.05	86.37	87.21	88.12	87.87	86.57	85.39	84.15	84.07	

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	11°	°	°	
FEBRUARY.	1	68.0	67.8	67.7	67.5	67.5	67.4	67.4	67.6	68.1	68.7	69.3	68.38
	2	72.0	71.6	71.0	70.8	70.7	70.7	70.7	70.6	71.0	71.7	72.6	72.17
	3	72.1	71.7	71.6	71.4	71.1	70.7	70.7	70.7	70.7	71.0	71.3	72.55
	4	—	—	—	—	—	—	—	—	—	—	—	69.60
	5	68.5	68.4	68.3	68.2	68.1	68.2	68.3	68.4	68.7	68.8	69.6	71.73
	6	71.7	71.5	71.5	71.3	71.1	70.8	70.9	71.0	71.4	71.8	72.4	72.71
	7	72.5	72.3	72.0	71.7	71.5	71.3	70.8	70.7	70.6	70.5	70.5	70.49
	8	70.5	70.0	69.7	69.2	68.9	68.7	68.4	68.4	68.3	68.6	68.7	68.51
	9	68.2	67.8	67.7	67.5	67.3	67.0	66.9	67.0	67.2	67.7	67.9	69.40
	10	69.4	69.2	69.1	68.7	68.6	68.4	68.3	68.3	68.6	68.8	69.5	71.08
	11	—	—	—	—	—	—	—	—	—	—	—	69.00
	12	70.7	70.6	70.5	70.4	70.3	69.9	69.7	69.6	69.7	69.8	70.0	68.45
	13	68.7	68.5	68.2	68.1	67.9	67.7	67.6	67.5	67.5	67.7	68.1	68.39
	14	68.6	68.0	67.7	67.2	66.9	66.6	66.5	66.5	66.6	66.7	67.2	67.33
	15	68.4	68.0	67.8	67.6	67.5	67.3	67.5	67.5	67.5	67.7	68.0	67.23
	16	67.0	66.7	66.6	66.3	65.8	—	65.5	65.6	65.7	65.8	66.4	69.42
	17	66.9	66.8	67.0	66.9	66.8	66.7	66.8	66.7	66.8	67.3	67.7	72.73
	18	—	—	—	—	—	—	—	—	—	—	—	74.61
	19	69.1	69.0	68.7	68.5	68.5	68.3	68.2	68.5	68.7	69.0	69.5	74.68
	20	72.8	72.7	72.7	72.7	72.5	72.4	72.3	72.4	72.7	73.3	73.7	72.50
	21	74.7	74.5	74.2	74.0	73.7	73.6	73.5	73.4	73.6	73.7	74.5	72.67
	22	74.2	73.8	73.7	73.6	73.5	73.1	72.9	72.9	72.9	73.1	73.4	68.02
	23	71.9	71.7	71.6	71.5	71.3	71.0	70.8	70.7	70.8	71.3	71.6	64.80
	24	73.3	72.9	72.6	72.3	72.0	71.7	71.5	71.4	71.2	71.2	71.2	66.23
	25	—	—	—	—	—	—	—	—	—	—	—	84.07
	26	64.8	64.6	64.2	63.9	63.9	64.1	64.0	64.0	64.1	64.3	64.7	85.40
	27	64.6	64.5	64.2	64.0	63.7	63.7	63.5	63.5	63.7	64.2	64.7	87.16
	28	66.0	65.9	66.0	65.7	65.7	65.7	65.7	65.7	65.7	65.9	66.3	82.82
Hourly Means	69.78	69.52	69.35	69.13	68.95	68.91	68.68	68.69	68.83	69.11	69.53	70.12	

HORIZONTAL FORCE.														
One Scale Division = 00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.														
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 .	12 ^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.	
MARCH.	1	89·3	89·4	88·7	89·0	89·3	88·9	87·9	87·9	87·3	87·8	87·9	88·8	89·5
	2	88·2	89·0	88·9	89·0	88·1	86·3	85·9	85·1	84·9	85·8	86·3	86·3	86·7
	3	86·1	85·9	87·0	87·3	87·0	85·9	85·5	85·1	85·9	86·0	87·0	88·6	88·9
	4	90·2	90·6	91·4	90·8	90·0	88·3	87·1	86·1	83·5	83·2	81·3	84·2	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	86·5
	6	86·0	85·0	84·1	83·5	85·6	84·3	81·7	82·9	82·0	82·0	84·9	82·1	82·7
	7	82·5	81·6	82·3	79·5	75·8	72·7	71·2	68·7	65·8	74·6	77·0	78·1	80·1
	8	85·0	83·8	84·0	82·9	83·1	82·0	81·4	81·8	82·0	82·4	82·8	83·5	84·3
	9	85·9	85·9	85·9	86·4	87·0	86·8	83·6	80·3	82·5	84·7	87·2	86·7	87·3
	10	87·7	85·8	84·7	83·6	83·6	85·2	83·8	82·2	81·8	84·1	83·3	83·3	85·0
	11	86·2	86·1	84·7	82·6	81·3	81·4	81·2	82·9	82·5	82·1	79·2	81·6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	77·8
	13	82·8	81·4	81·8	81·8	80·2	82·4	81·2	82·1	82·7	83·1	83·8	84·2	85·5
	14	86·5	85·6	84·8	85·0	83·5	81·2	82·0	82·1	83·1	82·9	84·6	84·6	84·7
	15	86·3	86·0	86·0	86·1	85·9	85·3	83·9	82·8	81·3	83·1	83·1	83·6	84·1
	16	85·3	85·6	85·1	84·6	83·8	82·1	81·1	81·4	81·9	80·7	82·2	82·8	84·1
	17	89·7	88·8	87·7	87·0	86·6	86·1	84·2	81·1	79·9	81·0	80·3	81·9	86·0
	18	88·4	87·0	87·0	85·2	80·0	79·0	80·5	78·9	79·7	80·1	81·0	81·9	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	84·1
	20	83·6	83·4	83·2	83·8	83·4	83·8	84·0	83·4	84·5	84·4	83·4	83·6	85·5
	21	88·0	89·1	89·7	90·0	89·2	89·0	88·2	86·5	87·1	90·1	88·7	89·7	90·4
	22	93·8	94·3	94·0	87·8	88·5	89·0	91·0	89·0	90·0	91·0	91·7	91·8	94·2
	23	94·8	95·8	92·0	90·7	90·3	89·5	87·2	88·1	88·1	87·6	88·2	89·2	90·9
	24	89·1	89·5	88·3	88·0	88·0	88·6	88·2	87·5	87·4	87·5	88·0	88·2	88·7
	25	90·1	90·5	89·8	88·8	88·9	88·8	89·2	89·2	89·2	89·4	89·8	90·0	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	93·0
	27	89·0	91·3	90·9	90·7	90·3	90·0	88·9	88·1	88·3	88·4	88·8	88·9	89·4
	28	93·6	93·0	91·6	89·4	88·0	88·1	87·8	86·8	86·7	86·8	87·1	87·9	88·3
	29	91·1	89·6	87·5	84·1	82·0	85·0	81·7	74·6	73·4	74·9	81·4	81·8	82·0
	30	84·7	85·4	86·1	87·0	86·5	84·0	82·8	82·2	84·5	86·4	86·1	86·5	86·4
	31 ^a	87·6	88·3	88·0	87·8	87·1	86·1	85·1	85·4	84·9	85·3	85·5	86·3	—
Hourly Means	87·84	87·67	87·20	86·33	85·61	85·14	84·28	83·34	83·31	84·23	84·81	85·38	86·39	
TEMPERATURE OF THE MAGNET.														
MARCH.	1	66·7	67·1	67·5	67·8	68·3	68·5	68·6	68·6	68·5	68·1	67·7	67·2	66·9
	2	67·4	67·8	68·5	69·0	69·7	70·1	70·0	70·4	70·3	70·1	70·0	69·8	69·4
	3	68·6	68·8	69·3	69·8	70·2	70·4	70·5	70·5	70·2	69·8	69·5	69·1	68·8
	4	68·3	68·7	69·1	69·4	69·7	69·9	69·7	69·5	69·0	68·8	68·7	68·6	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	69·7
	6	68·9	69·2	69·4	69·4	69·4	69·1	68·8	68·4	68·0	67·7	67·4	66·9	66·7
	7	66·1	66·7	67·4	68·2	68·7	68·9	68·9	69·1	69·1	69·0	68·9	68·7	68·0
	8	68·5	69·2	69·6	70·1	70·4	70·6	70·4	69·9	69·7	69·7	69·4	69·1	68·9
	9	68·7	69·0	69·4	69·4	69·6	69·2	69·2	69·0	68·7	68·3	68·2	67·8	67·6
	10	68·2	68·7	69·1	69·7	70·0	70·5	70·5	70·5	69·9	69·7	69·6	69·4	69·0
	11	69·8	70·3	70·8	71·3	71·7	71·7	71·7	71·6	71·4	71·1	70·8	70·8	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	67·5
	13	66·0	66·7	67·3	67·7	68·1	68·2	68·0	67·9	67·7	67·4	67·1	66·8	66·7
	14	66·5	67·0	67·4	67·6	67·7	67·8	67·8	67·6	67·4	67·2	66·8	66·6	66·5
	15	66·7	67·4	67·9	68·5	68·7	68·8	69·0	68·9	68·7	68·4	68·3	67·9	67·7
	16	67·4	67·9	68·2	68·5	68·7	68·8	68·7	68·7	68·6	68·0	68·0	67·7	67·6
	17	67·1	67·5	67·8	68·2	68·5	68·7	68·7	68·7	68·7	68·5	68·4	68·3	68·1
	18	67·7	67·7	68·3	68·5	68·7	68·7	68·8	68·7	68·5	68·0	67·7	67·5	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	67·7
	20	67·4	67·9	67·9	68·5	68·6	68·7	68·6	68·5	68·0	67·7	67·4	67·3	67·2
	21	65·5	65·5	65·5	65·5	65·6	65·6	65·4	65·2	65·0	64·7	64·4	63·9	63·6
	22	61·9	62·4	62·7	63·0	63·2	63·6	63·6	63·5	63·5	63·3	63·3	63·3	63·3
	23	63·7	64·0	64·9	65·3	65·6	65·8	66·1	66·2	66·2	66·1	65·9	65·7	65·4
	24	65·2	65·6	65·9	66·5	66·9	67·3	67·3	67·2	67·1	66·9	66·7	66·6	66·3
	25	65·7	65·7	66·0	66·3	66·4	66·2	65·8	65·7	65·5	65·1	65·0	64·8	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	65·7
	27	65·2	65·7	66·0	66·7	67·0	67·6	67·7	67·7	67·7	67·7	67·6	67·4	67·0
	28	66·8	67·6	68·3	68·7	69·3	69·5	69·1	68·9	68·9	68·8	68·8	68·7	68·6
	29	67·9	68·3	68·7	68·8	68·9	68·8	68·5	68·2	68·1	68·1	68·0	67·8	67·7
	30	65·7	65·9	66·3	66·5	66·7	66·7	66·6	66·4	66·2	66·0	65·7	65·7	65·7
	31 ^a	65·6	66·1	66·5	66·9	67·4	67·7	68·0	68·0	67·8	67·6	67·3	67·1	—
Hourly Means	66·83	67·24	67·66	68·03	68·32	68·45	68·38	68·29	68·10	67·85	67·67	67·44	67·20	

^a Not included in the means.

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MARCH.	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	90·0	90·8	90·9	91·1	91·0	90·6	91·9	93·6	93·5	91·0	89·0	89·79
	2	87·2	87·7	87·8	88·1	88·7	89·1	90·3	91·9	90·8	89·8	87·8	87·90
	3	89·1	89·5	89·5	90·1	90·5	91·1	92·9	94·1	93·1	91·5	91·0	88·69
	4	—	—	—	—	—	—	—	—	—	—	—	87·75
	5	88·8	89·9	88·9	88·7	89·6	87·9	88·9	88·6	87·9	86·8	86·8	
	6	85·7	90·5	90·6	88·8	87·8	87·3	86·2	88·4	87·6	86·0	83·4	85·38
	7	81·1	81·5	85·4	86·2	87·0	88·2	89·7	88·8	88·4	86·6	85·6	80·77
	8	84·9	85·3	85·7	86·5	86·8	87·3	89·2	90·4	89·6	87·5	84·9	84·88
	9	87·6	88·1	88·1	88·5	88·3	90·6	91·6	92·1	91·6	90·2	89·0	87·33
	10	86·1	85·1	85·3	86·3	86·8	87·8	88·8	88·1	85·8	85·2	85·9	85·22
	11	—	—	—	—	—	—	—	—	—	—	—	83·01
	12	87·3	84·6	85·5	85·7	83·4	84·8	84·9	82·5	81·2	81·2	81·6	
	13	85·7	86·9	87·2	88·9	87·0	86·5	88·1	88·5	86·8	85·3	86·6	84·60
	14	85·0	85·7	85·9	86·9	87·1	88·1	89·1	88·3	87·3	86·6	85·9	85·27
	15	84·8	85·9	85·9	86·0	86·0	87·0	89·0	89·7	88·8	85·9	85·0	85·48
	16	85·0	85·9	86·6	87·2	88·0	88·0	90·0	92·1	92·9	91·8	91·2	85·81
	17	88·6	85·9	84·2	85·0	86·2	87·6	89·7	91·0	91·1	91·1	90·1	86·28
	18	—	—	—	—	—	—	—	—	—	—	—	85·02
	19	85·5	87·8	87·2	87·9	87·7	89·0	90·0	91·3	89·9	86·7	84·6	
	20	88·7	87·0	87·2	87·5	87·6	89·2	90·0	90·1	89·4	87·8	87·7	85·93
	21	90·7	93·5	94·1	93·9	94·4	94·7	96·3	98·6	98·2	97·0	96·6	91·82
	22	92·6	97·6	94·5	93·7	94·3	94·6	95·5	97·4	97·1	95·1	95·0	93·06
	23	90·9	91·8	91·2	91·3	92·2	91·5	93·1	93·0	92·3	90·1	89·2	90·79
	24	89·0	88·9	89·1	89·3	90·0	90·5	90·3	91·0	91·5	89·6	89·2	88·98
	25	—	—	—	—	—	—	—	—	—	—	—	91·20
	26	93·0	92·9	93·0	93·5	94·0	94·8	95·7	94·2	92·1	90·1	88·8	
	27	90·3	91·0	91·8	91·3	91·7	91·8	93·4	93·0	92·5	92·1	93·0	90·63
	28	88·8	89·0	89·0	89·4	89·5	90·0	90·8	93·3	92·0	90·3	90·2	89·48
	29	84·1	85·0	85·1	85·4	86·4	87·1	88·6	87·9	86·3	84·0	83·4	83·85
	30	87·3	88·8	89·0	89·0	90·0	90·3	91·4	91·6	90·1	87·7	86·5	87·10
31	—	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	87·61	88·33	88·41	88·70	88·92	89·44	90·59	91·13	90·30	88·73	88·00	87·15	

TEMPERATURE OF THE MAGNET.

MARCH.	1	66·7	66·7	66·6	66·5	66·4	66·2	66·0	66·0	66·2	66·7	66·9	67·18
	2	69·2	68·9	68·7	68·5	68·4	68·5	68·4	68·3	68·3	67·9	68·2	68·99
	3	68·6	68·3	67·7	67·7	67·5	67·2	67·1	67·1	67·2	67·5	67·7	68·71
	4	—	—	—	—	—	—	—	—	—	—	—	68·93
	5	69·5	69·3	69·0	68·7	68·4	68·3	68·1	68·1	68·5	68·7	68·7	
	6	66·4	66·0	65·9	65·6	65·4	65·4	65·2	65·1	65·4	65·6	65·7	67·13
	7	67·9	67·7	67·7	67·5	67·4	67·1	67·0	67·0	67·2	67·5	68·1	67·91
	8	68·4	68·3	68·0	67·7	67·6	67·6	67·5	67·5	67·6	67·7	68·3	68·82
	9	67·5	67·3	66·7	66·7	66·7	66·5	66·5	66·4	66·7	67·1	67·6	67·91
	10	68·8	68·7	68·4	68·4	68·3	68·0	67·9	67·9	68·5	68·7	69·2	69·07
	11	—	—	—	—	—	—	—	—	—	—	—	68·64
	12	67·1	66·9	66·6	66·5	66·1	65·9	65·7	65·4	65·4	65·6	65·7	
	13	66·5	66·2	66·4	66·2	65·9	65·7	65·6	65·6	65·7	66·0	66·1	66·73
	14	66·4	66·4	66·3	66·1	65·9	65·7	65·7	65·5	65·7	65·9	66·4	66·66
	15	67·7	67·5	67·0	66·7	66·7	66·7	66·6	66·6	66·6	66·5	67·0	67·60
	16	67·4	67·3	67·1	66·9	66·6	66·4	66·0	65·9	66·1	66·4	66·7	67·48
	17	67·9	67·7	67·7	67·6	67·5	67·3	67·2	67·2	67·2	67·1	67·5	67·88
	18	—	—	—	—	—	—	—	—	—	—	—	67·70
	19	67·7	67·6	67·5	67·4	67·2	66·8	66·7	66·7	66·7	66·9	67·1	
	20	67·0	66·8	66·7	66·5	66·3	66·0	65·8	65·7	65·7	65·6	65·6	67·14
	21	63·4	62·9	62·6	61·9	61·7	61·4	61·2	61·1	61·0	61·3	61·6	63·56
	22	63·3	63·2	63·0	63·1	62·9	62·7	62·7	62·6	62·6	62·7	63·0	63·02
	23	65·1	64·9	64·7	64·8	64·6	64·3	64·0	64·0	64·3	64·7	64·8	65·05
	24	66·1	66·0	66·2	66·1	65·9	65·8	65·6	65·4	65·4	65·6	65·6	66·22
	25	—	—	—	—	—	—	—	—	—	—	—	65·21
	26	65·4	65·2	64·9	64·8	64·5	64·5	64·2	64·2	64·4	64·4	64·7	
	27	66·7	66·5	65·9	65·7	65·7	65·4	65·2	65·2	65·2	65·7	66·2	66·43
	28	68·4	68·1	67·7	67·7	67·4	67·3	67·2	67·0	67·1	67·5	67·6	68·13
	29	67·1	66·7	66·6	66·4	65·9	65·7	65·5	65·4	65·4	65·2	65·6	67·22
	30	65·5	65·2	65·4	65·2	64·9	64·7	64·6	64·6	64·6	64·7	65·0	65·63
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	66·99	66·78	66·58	66·42	66·22	66·05	65·89	65·83	65·95	66·13	66·42	67·11	

THE OBSERVATIONS WERE SUSPENDED DURING THE MONTH OF APRIL, AND THE INSTRUMENT READJUSTED;
THE CONNEXION OF THE READINGS APPEARS TO HAVE BEEN BROKEN.

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THE CONNEXION OF THE READINGS APPEARS TO HAVE BEEN BROKEN.

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00028.														
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 .	12 ^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.	
MAY.	1	54.2	53.7	54.1	53.0	51.9	52.2	52.0	51.1	50.1	50.0	50.0	50.6	51.4
	2	56.1	55.2	55.2	56.3	55.9	56.1	55.9	55.2	54.3	54.0	54.0	54.3	54.7
	3	57.0	56.9	56.1	55.8	55.5	55.0	54.0	53.4	53.2	53.2	53.7	54.0	54.2
	4	58.1	56.0	56.6	55.7	55.7	55.1	54.5	54.0	53.0	53.7	54.0	54.2	54.0
	5	53.2	52.3	52.9	53.8	54.7	55.0	55.0	54.5	54.0	53.9	53.8	54.0	54.4
	6	53.8	53.9	55.1	55.2	56.0	55.4	54.8	51.2	46.7	41.5	39.9	28.1	—
	7 ^a	—	—	—	—	—	—	—	—	—	—	—	—	38.2
	8	39.7	40.4	40.5	40.5	41.1	41.2	41.6	41.8	41.2	41.0	42.4	42.9	43.8
	9	43.0	42.1	42.7	43.1	42.3	43.3	42.5	41.4	40.0	40.3	44.5	44.0	43.8
	10	44.9	42.2	42.3	39.9	39.1	41.1	41.5	42.1	40.2	40.4	42.2	43.3	47.2
	11	47.6	45.4	45.3	45.2	45.8	45.8	44.1	44.0	45.1	45.3	45.4	45.8	46.3
	12	47.5	45.3	45.9	46.4	47.1	47.4	46.8	46.2	46.3	46.4	46.0	46.3	47.8
	13	49.6	48.3	48.0	48.2	48.9	48.2	47.1	46.6	45.8	46.5	46.7	46.9	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	49.3
	15	55.0	55.9	57.0	57.0	58.8	58.5	55.0	56.1	47.0	39.8	44.2	46.6	48.1
	16	49.9	50.6	50.0	48.3	47.7	50.0	49.2	48.8	48.5	47.3	49.9	49.0	49.9
	17	51.1	50.6	50.1	50.1	51.6	52.3	52.5	51.2	50.3	49.5	50.3	50.5	51.7
	18	52.6	51.1	50.9	50.9	52.1	52.8	52.1	51.0	50.9	51.1	51.3	51.8	51.8
	19	52.6	49.0	48.0	49.3	50.8	50.9	50.0	49.8	49.1	49.6	49.2	49.7	50.0
	20	53.8	52.4	50.9	50.8	51.0	52.0	51.2	50.6	49.9	50.0	49.9	50.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	50.5
	22	53.7	50.9	50.8	52.0	52.9	52.8	52.1	51.7	51.3	51.2	51.2	50.9	50.7
	23	52.9	49.5	47.5	47.5	48.9	49.0	48.9	48.8	49.0	49.0	48.8	49.3	49.3
	24	52.3	50.1	49.5	49.8	51.0	51.0	51.0	50.9	51.2	51.5	52.3	52.4	52.8
	25	59.0	57.1	55.4	54.2	54.3	53.6	52.4	52.2	51.1	51.0	51.9	51.9	52.0
	26	58.9	57.5	57.2	58.0	58.0	57.1	55.4	53.6	51.8	49.4	51.7	50.3	51.5
	27	53.0	51.0	49.5	49.0	49.7	49.1	48.1	46.8	45.8	46.9	46.2	46.7	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	50.6
	29	56.7	56.0	58.2	58.6	57.5	54.6	53.0	50.0	49.9	49.7	48.4	48.4	48.5
	30	51.3	49.5	48.9	48.9	49.3	48.4	47.5	47.2	46.9	46.9	46.9	47.4	48.3
	31	51.5	51.1	51.6	51.5	51.8	51.2	50.2	49.4	49.0	49.0	49.2	49.2	49.9
Hourly Means	52.19	50.89	50.75	50.70	51.09	51.08	50.31	49.61	48.58	48.08	48.67	48.48	49.66	
TEMPERATURE OF THE MAGNET.														
MAY.	1	61.7	61.5	61.4	61.4	61.4	61.4	60.9	61.4	61.5	60.9	60.9	60.8	60.7
	2	58.5	58.6	58.8	59.0	58.9	59.0	58.9	58.8	58.9	59.0	58.9	59.0	59.0
	3	60.2	60.6	61.0	61.2	61.3	61.4	61.5	61.4	61.1	60.9	60.9	60.6	60.5
	4	60.4	60.5	60.7	60.8	61.1	61.1	60.8	60.8	60.7	60.5	60.5	60.4	60.3
	5	59.8	60.2	60.8	61.4	61.6	61.6	61.5	61.4	61.3	61.1	60.9	60.8	60.7
	6	61.4	61.7	61.9	62.3	62.7	62.7	63.1	63.0	63.0	62.7	62.4	62.4	—
	7 ^a	—	—	—	—	—	—	—	—	—	—	—	—	62.3
	8	62.2	62.2	62.3	62.4	62.3	62.2	61.7	61.7	61.7	61.5	61.4	61.3	61.2
	9	60.8	61.2	61.4	61.5	61.7	61.9	62.0	61.8	61.8	61.7	61.7	61.7	61.7
	10	61.8	61.9	62.5	62.6	62.7	62.8	62.7	62.7	62.7	62.7	62.7	62.6	62.5
	11	61.4	61.5	61.7	61.7	61.9	61.9	62.4	62.2	62.0	61.8	61.5	61.4	61.3
	12	60.6	60.7	60.9	61.0	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.2	61.2
	13	61.3	61.4	61.3	61.5	61.6	61.6	61.7	61.6	61.6	61.5	61.6	61.6	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	60.0
	15	59.5	59.7	60.1	60.3	60.4	60.7	60.8	60.8	60.7	60.7	60.9	60.9	60.8
	16	59.7	59.9	60.4	60.7	60.9	61.2	61.1	60.8	60.8	60.4	59.9	59.7	59.5
	17	58.4	58.6	58.7	58.8	58.8	59.0	58.9	58.9	58.9	58.9	59.1	59.0	59.0
	18	58.6	58.9	58.9	59.3	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7
	19	60.3	60.5	60.7	61.0	61.3	61.3	61.4	61.5	61.4	61.3	61.4	61.2	60.9
	20	60.4	60.7	61.0	61.3	61.5	61.7	61.9	61.9	61.9	61.8	61.7	61.5	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	61.0
	22	60.9	61.2	61.6	61.8	61.9	62.4	62.6	62.7	62.6	62.3	61.9	61.7	61.7
	23	61.7	61.8	62.1	62.3	62.3	62.3	62.5	62.5	62.5	62.4	62.1	62.1	61.9
	24	61.6	61.7	61.7	61.7	61.7	61.3	61.2	61.0	60.8	60.5	60.5	60.4	60.3
	25	59.7	59.9	60.2	60.4	60.9	61.0	60.9	60.9	60.8	60.7	60.8	60.7	60.6
	26	60.1	60.4	60.6	60.7	60.7	60.8	60.7	60.6	60.5	60.4	60.5	60.5	60.7
	27	60.5	60.7	61.3	61.6	62.1	62.5	62.7	63.0	63.0	62.7	62.5	61.8	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	61.5
	29	60.9	61.3	61.8	62.4	62.7	63.0	62.9	63.1	62.9	62.8	62.8	62.5	62.4
	30	62.1	62.4	62.7	62.8	63.0	63.6	63.8	63.8	63.4	63.3	63.0	62.8	62.5
	31	61.4	61.7	61.9	62.5	62.7	62.9	62.9	62.9	62.7	62.7	62.7	62.6	62.4
Hourly Means	60.59	60.79	61.05	61.27	61.44	61.56	61.57	61.56	61.49	61.34	61.27	61.14	60.97	

^a A rectangular external case substituted for the cylindrical

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00028.

Mean Göttingen Time.	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.
MAY. 1	52.3	52.8	54.7	54.9	54.2	54.9	57.0	57.4	57.7	57.6	56.6	53.52
2	55.5	56.0	56.5	56.4	56.9	57.0	58.3	59.4	59.1	58.7	58.1	56.21
3	55.0	55.2	55.6	56.3	56.7	57.4	58.7	60.0	60.1	59.2	58.3	56.02
4	54.0	55.9	56.0	56.0	56.0	56.6	58.0	59.2	58.3	56.3	55.1	55.67
5	54.7	55.0	55.1	55.6	55.9	56.0	56.9	56.9	56.2	55.4	54.1	54.72
6	—	—	—	—	—	—	—	—	—	—	—	—
7 ^a	40.0	40.6	39.2	39.4	39.7	39.9	42.2	43.1	43.0	40.1	36.8	44.74
8	48.4	46.2	46.3	46.6	45.0	45.9	46.0	45.9	47.9	47.1	45.4	43.70
9	44.1	44.5	45.7	45.4	46.2	46.2	44.0	48.5	48.1	46.7	45.4	44.07
10	45.6	46.0	44.0	45.0	45.9	45.2	46.2	48.2	49.0	49.7	50.4	44.23
11	47.7	48.3	47.0	47.1	47.6	47.9	49.6	51.2	51.1	50.1	49.4	47.00
12	48.2	47.8	49.0	48.2	48.0	50.2	50.3	50.7	49.4	50.2	49.9	47.80
13	—	—	—	—	—	—	—	—	—	—	—	—
14	50.3	51.1	52.7	52.8	54.6	56.4	58.8	59.6	58.8	58.9	57.0	51.30
15	50.2	47.4	48.3	51.7	53.3	54.3	52.1	55.7	56.8	53.2	51.8	52.24
16	51.4	51.8	53.0	52.9	53.2	52.8	55.0	56.1	55.8	55.1	53.1	51.22
17	52.0	52.3	52.2	53.1	52.9	53.8	55.6	56.4	56.2	55.6	53.9	52.33
18	51.9	51.9	52.2	52.2	52.6	52.9	54.0	54.9	54.9	55.0	54.1	52.37
19	50.0	50.0	50.4	51.0	51.4	52.5	54.2	55.9	56.1	54.9	54.0	51.18
20	—	—	—	—	—	—	—	—	—	—	—	—
21	51.2	51.6	52.0	52.0	52.2	53.1	55.0	56.1	56.2	55.9	55.1	52.24
22	51.0	52.1	51.6	52.3	52.4	52.9	53.9	55.5	55.4	55.9	55.1	52.51
23	49.4	49.4	49.6	51.4	51.2	52.0	53.7	55.1	55.0	54.2	54.1	50.56
24	54.2	54.1	54.3	54.3	54.3	55.1	57.5	59.8	60.5	60.9	59.9	53.73
25	52.8	53.1	53.7	54.3	54.5	54.9	56.8	59.0	60.2	59.1	58.3	54.70
26	51.1	48.8	50.3	51.6	52.4	53.7	55.2	58.0	59.8	59.0	55.7	54.42
27	—	—	—	—	—	—	—	—	—	—	—	—
28	51.0	52.1	52.0	52.9	53.0	53.9	54.1	56.9	57.5	57.0	57.1	51.24
29	50.3	49.3	50.1	50.2	50.9	53.0	51.9	52.0	52.9	53.5	52.5	52.34
30	49.2	50.0	50.5	50.6	51.4	51.4	51.8	52.3	52.1	51.9	51.2	49.57
31	50.8	51.1	51.5	52.6	53.3	52.9	54.2	56.6	57.4	57.6	58.1	52.11
Hourly Means	50.46	50.53	50.87	51.36	51.69	52.33	53.37	54.83	55.02	54.40	53.35	51.18

TEMPERATURE OF THE MAGNET.

MAY. 1	60.5	60.4	60.3	59.9	59.7	59.6	59.3	58.8	58.7	58.7	58.5	60.43
2	59.0	59.0	58.8	58.8	58.8	59.0	59.0	59.0	59.1	59.4	59.7	58.95
3	60.4	60.3	60.0	60.0	59.7	59.7	59.7	59.7	59.7	59.8	60.0	60.48
4	60.1	59.9	59.7	59.6	59.4	59.3	59.2	59.0	59.0	59.1	59.6	60.10
5	60.7	60.7	60.9	60.8	60.8	60.7	60.7	60.7	60.7	60.9	61.0	60.90
6	—	—	—	—	—	—	—	—	—	—	—	—
7 ^a	62.3	62.2	62.1	61.9	61.9	62.1	62.0	62.0	62.0	62.0	62.1	62.26
8	61.0	60.9	60.7	60.4	60.3	60.2	60.0	60.4	60.3	60.5	60.7	61.23
9	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.7	61.7	61.7	61.67
10	62.6	62.5	62.6	62.5	62.4	62.2	61.9	61.7	61.7	61.4	61.4	62.33
11	61.1	61.1	60.8	60.7	60.7	60.6	60.5	60.3	60.3	60.0	60.3	61.21
12	61.1	61.1	60.9	60.9	60.9	61.1	61.0	61.0	61.0	61.0	61.1	61.07
13	—	—	—	—	—	—	—	—	—	—	—	—
14	59.9	59.8	59.6	59.4	59.3	59.3	59.3	59.3	59.4	59.0	59.2	60.49
15	60.6	60.3	60.1	59.8	59.8	59.6	59.2	59.0	59.4	59.4	59.5	60.13
16	59.1	58.7	58.9	58.6	58.4	58.0	57.9	57.7	57.7	57.7	58.0	59.40
17	58.7	58.8	58.7	58.6	58.5	58.5	58.4	58.3	58.3	58.2	58.4	58.68
18	59.7	59.6	59.5	59.3	59.2	59.4	59.4	59.3	59.5	59.6	59.8	59.46
19	60.8	60.7	60.4	60.3	60.3	60.0	59.8	59.8	59.8	60.0	60.1	60.68
20	—	—	—	—	—	—	—	—	—	—	—	—
21	61.0	60.9	60.7	60.7	60.7	60.7	60.7	60.5	60.6	60.4	60.6	61.08
22	61.7	61.7	61.7	61.7	61.7	61.6	61.5	61.5	61.4	61.6	61.7	61.80
23	61.9	61.7	61.7	61.6	61.5	61.4	61.4	61.0	61.1	61.5	61.6	61.87
24	60.1	59.9	59.7	59.6	59.6	59.4	59.2	59.0	59.2	59.3	59.5	60.37
25	60.5	60.4	60.2	60.1	60.0	59.8	59.7	59.7	59.7	59.8	59.9	60.30
26	60.8	60.8	60.8	60.8	60.8	60.9	60.7	60.4	60.0	59.8	59.9	60.54
27	—	—	—	—	—	—	—	—	—	—	—	—
28	61.0	60.9	60.9	60.8	60.7	60.6	60.5	60.4	60.5	60.4	60.6	61.38
29	62.3	62.2	61.9	61.9	61.8	61.8	61.7	61.7	61.7	61.7	61.8	62.17
30	62.1	61.8	61.7	61.5	61.4	61.3	61.1	61.0	60.9	60.9	61.1	62.25
31	62.0	61.6	61.3	61.0	60.7	60.5	60.3	60.1	60.1	60.4	60.6	61.69
Hourly Means	60.84	60.73	60.60	60.48	60.40	60.34	60.22	60.11	60.13	60.16	60.31	60.85

one in which the Bifilar Magnet had hitherto been enclosed.

HORIZONTAL FORCE.														
One Scale Division = .00018 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 .	12 ^h .	
JUNE.	1	55.4	53.6	53.0	53.0	53.4	53.1	52.2	51.5	51.1	50.8	50.4	50.5	50.7
	2	52.8	52.0	49.8	50.9	50.9	50.0	49.9	50.5	51.7	52.0	52.0	48.4	50.2
	3	53.7	52.8	51.3	50.8	50.3	50.6	49.9	47.1	47.7	49.0	49.8	50.1	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	53.7
	5	56.7	56.6	56.2	57.1	57.3	56.1	55.0	54.8	54.7	54.2	54.3	54.1	56.2
	6	54.9	55.6	56.0	56.7	57.8	57.0	57.0	56.7	56.0	55.7	55.1	55.1	56.0
	7	56.1	55.9	55.0	53.2	53.9	54.0	52.2	51.1	51.2	49.1	54.0	57.9	52.0
	8	52.2	51.3	51.5	52.8	53.9	53.1	53.0	53.3	53.0	53.3	52.9	54.5	54.0
	9	57.0	56.3	55.1	56.1	57.2	57.2	56.9	56.7	57.0	57.1	57.6	58.0	58.8
	10	63.1	61.8	62.0	62.3	62.9	61.4	60.0	59.0	56.9	57.9	61.0	59.0	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	62.9
	12	62.1	60.5	60.9	61.3	61.6	59.4	59.0	59.0	58.7	57.1	60.0	59.4	60.0
	13	58.1	58.2	56.9	55.9	57.3	55.8	54.6	56.5	54.9	55.9	57.7	57.6	56.7
	14	58.6	58.9	59.7	59.9	57.1	56.9	56.3	55.8	55.7	55.6	55.7	56.2	56.5
	15	56.0	55.8	55.2	56.2	57.0	56.5	55.5	55.2	55.6	55.8	56.0	57.2	56.9
	16	57.9	58.3	58.6	59.1	59.4	58.6	58.1	57.8	57.2	57.0	57.1	56.9	57.1
	17	63.1	62.0	61.7	62.0	62.3	62.4	61.5	61.1	61.2	61.4	61.6	62.1	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	65.0
	19	65.6	64.0	64.0	65.0	66.5	65.8	64.7	62.9	62.2	61.5	62.0	61.7	62.0
	20	65.8	64.0	64.3	63.8	64.7	64.4	63.2	62.1	60.7	61.4	60.3	60.8	61.0
	21	61.1	60.8	61.0	60.9	61.9	61.9	61.2	61.0	60.0	59.0	59.2	58.0	58.0
	22	57.5	57.1	58.0	59.0	60.1	59.9	59.1	58.3	57.7	57.2	57.0	57.1	58.3
	23	57.4	57.8	58.8	60.0	61.5	61.5	62.0	60.4	60.4	60.4	60.1	60.0	60.7
	24	58.4	59.4	60.1	61.3	62.0	61.2	60.3	59.3	59.0	58.9	58.7	59.0	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	59.9
	26	61.6	61.8	61.0	60.7	60.5	59.0	58.9	58.4	58.3	58.0	57.3	57.1	57.9
	27	59.1	59.7	59.6	60.4	60.8	60.0	59.3	59.0	58.2	58.9	59.2	60.2	61.0
	28	59.5	59.7	59.9	61.9	63.9	62.8	62.0	61.7	61.3	61.6	62.3	62.8	63.4
	29	63.0	64.2	65.0	65.0	64.2	64.9	63.9	63.2	63.6	64.1	64.2	64.0	63.7
	30	62.1	64.0	65.8	66.3	63.9	59.9	58.2	56.9	55.1	53.9	55.4	55.2	59.8
Hourly Means	58.80	58.54	58.48	58.91	59.32	58.59	57.84	57.28	56.89	56.80	57.34	57.42	58.17	
TEMPERATURE OF THE MAGNET.														
JUNE.	1	61.0	61.2	61.5	61.7	62.1	62.4	62.7	62.7	62.7	62.7	62.6	62.5	62.5
	2	62.0	62.0	62.0	62.0	62.0	62.0	61.7	61.7	61.5	61.2	60.8	60.6	60.3
	3	59.1	59.3	59.6	59.8	60.0	60.2	60.5	60.5	60.5	60.4	59.9	59.7	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	57.5
	5	55.6	55.9	56.7	57.5	57.8	58.3	58.2	58.2	58.1	57.9	57.7	57.5	57.3
	6	56.7	57.0	57.5	57.7	58.1	58.5	58.6	58.6	58.6	58.5	58.5	58.4	58.4
	7	58.6	59.0	59.7	60.0	60.2	60.5	60.6	60.6	60.5	60.5	60.2	60.2	60.2
	8	59.7	59.6	59.7	59.7	59.6	59.5	59.0	58.8	58.7	58.7	58.6	58.3	58.2
	9	56.9	56.9	57.3	57.2	57.0	56.9	56.7	56.6	56.4	56.2	56.0	55.8	55.6
	10	54.5	54.6	54.7	54.8	54.9	54.9	55.1	55.0	54.8	54.7	54.8	54.6	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	12	51.9	52.4	52.8	53.3	53.7	53.8	54.0	54.1	54.1	54.0	53.7	53.7	53.7
	13	55.6	56.0	56.5	56.9	57.2	57.3	57.0	56.9	56.8	56.8	56.8	56.7	56.7
	14	56.1	56.4	56.8	57.4	57.6	57.7	57.5	57.4	57.3	57.1	57.0	56.8	56.7
	15	55.9	56.5	57.0	57.4	57.7	57.7	57.7	57.7	57.7	57.5	57.5	57.2	56.9
	16	55.9	56.5	56.7	56.9	57.1	57.2	57.5	57.5	57.6	57.6	57.6	57.5	57.4
	17	54.9	54.8	54.8	54.7	54.7	54.7	54.4	54.4	54.1	54.0	53.7	53.7	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	51.7
	19	51.7	52.2	52.5	52.8	53.3	53.6	53.7	53.6	53.6	53.5	53.3	53.2	53.2
	20	53.1	53.5	53.8	54.0	54.2	54.4	54.6	54.8	55.1	55.2	55.4	55.1	55.0
	21	55.4	55.7	55.7	55.8	56.0	56.2	56.0	56.1	56.2	56.4	56.5	56.7	57.0
	22	57.5	57.7	57.8	58.1	58.3	58.5	58.7	58.8	58.8	58.8	58.7	58.7	58.4
	23	56.9	56.9	57.2	57.2	57.2	57.1	57.0	56.9	56.7	56.6	56.5	56.0	55.8
	24	55.8	55.9	55.9	56.1	56.3	56.1	56.5	56.6	56.7	56.7	56.6	56.5	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	55.3
	26	55.2	55.5	55.7	55.7	56.1	56.3	56.3	56.3	56.3	56.3	56.6	56.6	56.6
	27	56.6	56.6	56.4	56.4	56.4	56.4	56.3	56.3	56.2	56.1	55.7	55.5	55.2
	28	53.7	53.8	54.0	54.0	54.0	54.0	53.8	53.8	54.0	53.8	53.5	53.2	52.9
	29	52.5	52.7	53.1	53.4	53.6	53.6	53.6	53.7	53.7	53.6	53.3	52.9	52.7
	30	52.6	53.3	53.9	54.6	55.2	55.5	55.6	55.6	55.5	55.5	55.3	55.1	54.8
Hourly Means	55.98	56.23	56.51	56.73	56.93	57.05	57.05	57.05	57.01	56.93	56.80	56.64	56.28	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00027.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JUNE.	1	50.1	50.4	50.5	50.6	50.8	51.2	52.4	52.9	53.1	51.9	52.3	51.87
	2	49.9	51.7	51.6	51.6	52.8	53.5	55.0	58.0	54.1	54.5	52.9	51.95
	3	—	—	—	—	—	—	—	—	—	—	—	53.59
	4	54.8	55.3	56.0	57.5	59.1	59.0	60.7	60.4	60.1	58.6	57.8	56.91
	5	56.3	57.0	57.9	58.8	58.8	58.0	59.3	60.2	60.3	59.0	56.9	56.60
	6	57.4	56.1	57.0	57.4	55.4	56.2	57.9	58.6	58.1	57.4	57.3	53.35
	7	51.2	52.0	54.3	56.4	52.1	51.3	53.6	54.6	53.5	53.9	51.9	54.73
	8	54.7	54.8	54.9	55.0	56.2	56.4	56.4	59.0	59.5	59.7	58.1	60.20
	9	58.8	59.4	59.9	60.5	61.5	65.0	68.3	68.2	68.4	67.9	65.8	61.65
	10	—	—	—	—	—	—	—	—	—	—	—	60.17
	11	60.7	62.7	63.1	63.3	61.5	63.3	63.4	64.4	64.1	64.1	58.7	57.58
	12	59.2	58.2	60.0	59.6	59.3	59.6	60.7	62.2	63.0	62.4	60.8	58.21
	13	57.3	57.1	58.1	57.5	58.5	58.7	59.2	60.5	60.6	59.5	58.8	57.57
	14	57.1	57.4	58.3	58.8	58.9	59.0	60.5	61.4	62.0	61.7	59.1	59.02
	15	57.3	57.8	58.2	58.2	58.3	59.7	60.2	61.4	62.0	60.6	59.1	64.33
	16	58.0	57.8	58.2	58.7	59.3	60.0	61.6	62.0	62.9	62.7	62.3	64.65
	17	—	—	—	—	—	—	—	—	—	—	—	62.53
	18	64.9	64.9	65.0	65.0	65.9	66.3	68.0	69.5	69.9	69.1	68.0	59.91
	19	63.4	63.7	64.0	64.5	64.8	65.2	66.9	68.7	68.1	67.4	67.1	58.72
	20	61.3	60.6	60.5	61.1	61.2	61.7	62.7	64.4	64.0	63.4	63.3	60.77
	21	57.9	57.1	58.4	58.6	58.3	58.9	59.8	61.1	63.0	61.8	59.0	60.85
	22	57.0	57.0	57.7	58.3	59.5	60.3	61.1	62.1	62.1	59.9	58.1	59.59
	23	61.1	61.1	62.0	61.9	61.6	61.5	62.0	63.1	63.8	60.7	58.6	61.57
	24	—	—	—	—	—	—	—	—	—	—	—	63.84
	25	60.0	60.5	61.2	60.3	59.4	60.9	61.7	62.0	62.1	62.8	62.0	64.60
	26	58.7	58.0	58.8	59.1	59.3	60.0	61.5	62.0	62.0	61.1	59.1	60.71
	27	61.9	62.8	61.9	62.8	62.9	63.5	64.8	67.1	68.0	65.1	61.6	64.33
	28	64.2	64.5	65.0	66.0	66.3	67.5	69.3	68.3	69.0	66.1	63.1	64.65
	29	63.1	62.5	65.5	65.1	66.0	66.3	67.4	67.0	66.9	65.7	61.8	62.53
	30	59.4	59.7	63.0	60.6	58.7	61.3	63.9	63.3	63.9	63.7	63.1	59.91
Hourly Means	58.30	58.47	59.27	59.51	59.48	60.17	61.47	62.40	62.48	61.56	59.87	59.06	

TEMPERATURE OF THE MAGNET.

JUNE.	1	62.5	62.5	62.5	62.5	62.5	62.3	62.2	62.1	61.8	61.8	61.9	62.20
	2	59.9	59.7	59.7	59.6	59.4	59.1	58.9	58.7	58.8	58.8	58.9	60.47
	3	—	—	—	—	—	—	—	—	—	—	—	58.00
	4	57.3	56.9	56.7	56.3	56.1	55.7	55.6	55.1	55.0	55.0	55.4	56.93
	5	56.9	56.7	56.5	56.3	56.1	56.3	56.2	56.0	56.0	56.2	56.4	57.98
	6	58.2	58.2	57.8	57.8	57.8	57.7	57.7	57.7	57.7	57.8	57.9	60.11
	7	60.2	60.2	60.5	60.4	60.3	60.3	60.2	60.1	60.0	59.8	59.8	58.43
	8	58.2	58.1	58.2	58.0	57.9	57.7	57.6	57.4	57.2	57.0	57.0	55.66
	9	55.5	55.3	54.8	54.8	54.6	54.5	54.4	54.2	54.0	54.0	54.2	53.39
	10	—	—	—	—	—	—	—	—	—	—	—	53.82
	11	52.9	52.7	52.4	52.1	51.9	51.7	51.5	51.3	51.1	51.4	51.7	56.39
	12	53.7	53.6	53.8	53.9	54.1	54.2	54.3	54.4	54.5	54.8	55.2	56.55
	13	56.5	56.4	56.4	56.2	56.1	55.8	55.7	55.7	55.7	55.7	55.9	56.61
	14	56.6	56.5	56.3	56.0	55.9	55.8	55.7	55.7	55.6	55.6	55.6	56.80
	15	56.6	56.4	56.1	55.8	55.7	55.7	55.5	55.6	55.6	55.6	55.7	52.95
	16	57.4	57.3	57.3	57.0	56.8	56.6	56.3	55.8	55.6	55.1	55.0	52.93
	17	—	—	—	—	—	—	—	—	—	—	—	54.78
	18	51.7	51.7	51.8	51.7	51.7	51.6	51.3	51.2	51.0	51.0	51.4	56.72
	19	53.1	52.9	52.8	52.7	52.7	52.7	52.6	52.6	52.7	52.7	52.7	57.88
	20	55.1	55.1	55.0	55.1	55.0	55.2	55.2	55.2	55.2	55.2	55.3	56.29
	21	57.2	57.4	57.2	57.4	57.4	57.6	57.7	57.6	57.3	57.4	57.4	55.74
	22	58.1	57.8	57.6	57.5	57.3	57.1	57.1	57.1	57.0	56.7	56.9	55.37
	23	55.8	55.8	55.9	55.9	55.8	55.7	55.7	55.7	55.7	55.6	55.5	55.19
	24	—	—	—	—	—	—	—	—	—	—	—	53.06
	25	55.3	55.2	55.2	55.1	55.1	55.3	55.3	55.2	55.2	54.9	55.0	52.72
	26	56.6	56.7	56.7	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	54.35
	27	54.9	54.6	54.3	54.3	54.1	53.8	53.7	53.7	53.7	53.7	53.7	55.19
	28	52.7	52.7	52.6	52.5	52.4	52.2	52.0	51.9	52.0	51.9	52.1	53.06
	29	52.7	52.5	52.4	52.3	52.1	51.9	51.7	51.7	51.7	51.8	52.1	52.72
	30	54.7	54.4	54.1	53.7	53.7	53.6	53.5	53.4	53.5	53.5	53.7	54.35
Hourly Means	56.17	56.05	55.95	55.83	55.73	55.64	55.55	55.45	55.39	55.37	55.51	56.24	

HORIZONTAL FORCE.														
One Scale Division = .00018 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 .	12 ^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.	
JULY.	1	61.2	60.6	60.3	60.7	59.5	58.0	57.0	52.6	54.7	53.7	54.2	54.8	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	55.8
	3	61.1	61.0	61.2	61.6	60.1	59.5	58.0	57.2	56.2	56.2	57.1	55.9	56.2
	4	59.9	57.5	56.6	57.0	56.6	55.6	55.1	54.6	53.7	57.0	55.7	55.0	53.9
	5	53.1	52.2	54.1	54.3	55.0	54.8	55.0	54.4	54.1	53.9	53.4	53.7	53.6
	6	55.0	55.2	56.0	57.8	59.0	59.0	59.0	57.9	58.5	58.9	58.7	58.5	58.4
	7	60.7	60.1	61.0	60.8	61.3	60.9	60.5	58.9	57.0	58.8	57.0	58.1	56.5
	8	58.8	58.4	58.8	58.2	57.9	59.8	53.9	53.9	55.0	58.2	57.7	58.6	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	61.5
	10	61.6	61.8	56.3	58.3	59.8	57.3	55.9	53.3	55.0	56.0	57.2	57.8	58.0
	11	60.8	59.8	64.1	64.2	64.0	62.9	56.5	55.5	53.9	54.0	53.2	53.9	58.5
	12	59.8	58.8	58.3	58.2	58.1	57.5	56.8	55.7	56.7	55.8	55.0	54.9	55.3
	13	58.0	58.1	59.2	59.0	60.0	59.5	57.0	55.2	52.7	52.8	53.5	57.2	56.0
	14	56.3	51.9	55.4	56.9	56.1	56.6	55.9	55.0	53.4	53.0	53.1	53.2	53.2
	15	52.8	49.6	51.2	54.6	54.5	53.5	53.8	51.7	50.2	51.9	51.9	51.0	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	53.9
	17	55.6	57.4	57.2	57.6	58.3	56.4	55.5	54.8	54.2	54.0	53.9	56.3	55.9
	18	54.4	53.0	54.2	56.4	58.5	58.1	57.4	56.5	55.6	55.8	55.6	55.7	55.9
	19	57.3	56.7	56.4	57.3	57.4	56.2	55.5	55.5	55.0	54.3	54.0	54.6	54.2
	20	53.4	53.9	54.2	54.6	55.1	54.8	54.1	53.7	53.0	52.9	52.8	52.9	53.2
	21	54.5	53.0	51.9	53.0	53.7	53.1	52.6	51.1	50.2	50.0	51.0	51.8	52.8
	22	55.3	54.5	53.4	52.0	51.9	53.0	52.0	51.8	50.9	50.8	51.0	51.5	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	55.8
	24	58.2	56.8	55.9	56.0	56.6	57.0	60.1	57.2	46.9	43.6	46.9	52.8	53.4
	25	38.4	37.8	36.3	32.1	33.2	29.2	26.0	26.9	25.4	28.9	30.7	35.6	39.1
	26	56.4	56.0	53.5	52.0	51.7	52.0	50.1	50.9	50.1	51.0	51.1	53.0	55.1
	27	53.6	52.5	52.0	53.1	54.1	55.9	55.3	55.4	56.6	56.7	57.9	59.0	61.5
	28	66.8	63.9	59.2	58.0	58.8	59.2	58.0	58.0	58.0	57.6	56.7	61.4	59.7
	29	64.6	62.5	60.9	60.9	61.8	62.8	60.2	56.8	59.1	55.4	57.4	56.7	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	60.0
	31	59.7	59.3	57.8	57.2	57.2	56.9	56.2	55.4	54.8	54.3	55.6	56.6	57.1
Hourly Means	57.20	56.24	55.98	56.22	56.55	56.13	54.90	53.84	53.11	53.29	53.55	54.63	55.56	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
JULY.	1	54.2	54.8	55.3	55.8	56.2	56.6	56.7	56.9	57.0	56.9	56.8	56.6	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	56.3
	3	54.9	55.5	55.7	56.4	56.7	56.7	56.7	56.7	56.6	56.4	56.4	56.1	55.9
	4	55.7	56.4	57.2	57.7	58.3	58.4	58.7	58.9	58.9	58.8	58.7	58.6	58.5
	5	58.6	58.7	59.0	59.4	59.5	59.6	59.5	59.7	59.5	59.4	59.0	59.0	58.9
	6	56.7	56.5	56.4	56.1	56.0	55.9	56.4	56.4	56.1	55.9	55.7	55.4	55.3
	7	54.5	54.6	54.7	54.8	54.6	54.7	54.7	54.8	54.9	54.9	54.9	54.9	54.9
	8	54.7	54.9	54.7	54.7	54.7	54.7	54.5	54.5	54.3	53.9	53.7	53.6	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	52.6
	10	53.2	53.7	54.1	54.5	55.0	55.3	55.4	55.5	55.3	55.1	54.8	54.7	54.7
	11	53.9	54.8	55.9	56.7	57.0	58.2	58.1	58.0	57.7	57.4	56.8	56.7	56.1
	12	55.7	56.3	56.8	57.3	57.9	58.0	57.8	57.9	57.7	57.7	57.4	57.4	57.0
	13	55.6	56.3	56.9	57.7	58.3	58.6	58.7	58.8	58.7	58.4	58.1	57.8	57.5
	14	57.3	58.1	58.7	59.0	59.5	59.5	59.5	59.5	59.5	59.4	59.3	59.1	58.9
	15	58.9	59.7	60.0	60.3	60.5	60.5	60.7	60.8	60.7	60.6	60.4	60.1	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	58.5
	17	56.7	56.8	57.2	57.4	57.4	57.5	57.5	57.6	57.5	57.4	57.5	57.4	57.3
	18	56.5	56.6	56.7	56.8	57.0	57.2	56.9	56.9	57.0	57.0	57.4	57.3	57.3
	19	57.9	58.2	58.3	58.6	58.9	59.2	59.3	59.3	59.1	58.9	58.9	59.0	59.1
	20	58.4	58.6	58.7	59.0	59.3	59.6	59.7	59.8	59.9	59.8	60.2	59.8	59.6
	21	58.7	59.2	59.7	60.2	60.7	60.7	61.3	61.3	61.1	60.8	60.5	60.3	60.0
	22	59.1	58.9	59.3	59.5	59.5	59.7	59.7	59.7	59.7	59.6	59.2	59.0	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	57.9
	24	58.1	58.2	58.2	58.5	58.6	58.7	58.7	58.7	58.7	58.6	58.7	58.5	58.1
	25	56.5	56.7	56.7	56.9	57.0	57.6	57.8	58.0	57.9	57.8	57.7	57.7	57.6
	26	55.0	55.3	55.3	55.5	55.5	55.7	55.7	55.8	55.8	55.9	56.3	56.3	56.4
	27	54.8	54.8	54.8	54.8	54.7	54.6	54.2	54.0	53.9	53.4	53.1	52.8	52.6
	28	51.7	51.9	52.7	53.4	53.8	53.7	53.9	53.8	53.6	53.4	52.7	52.7	52.4
	29	51.1	51.6	52.4	52.8	53.4	53.6	53.7	53.7	53.7	53.7	53.9	53.9	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	55.3
	31	54.9	55.1	55.6	55.7	55.9	55.9	56.2	56.1	56.0	55.8	55.6	55.5	55.1
Hourly Means	55.90	56.24	56.58	56.90	57.15	57.32	57.38	57.43	57.34	57.19	57.07	56.93	56.68	

HORIZONTAL FORCE.													
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00027.													
Mean Göttingen Time.	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.	
JULY.	1	—	—	—	—	—	—	—	—	—	—	59.00	
	2	57.1	60.2	59.0	59.0	57.8	62.0	62.4	63.3	64.5	65.1	62.4	58.85
	3	56.0	56.2	56.4	58.3	58.4	58.7	60.2	60.5	61.7	62.9	61.8	55.87
	4	55.0	55.8	55.2	55.7	54.5	55.3	56.3	56.1	57.0	56.9	54.9	54.72
	5	54.0	54.0	54.5	55.1	55.8	56.0	56.5	57.1	57.3	57.0	54.4	59.42
	6	58.5	58.9	59.7	60.5	60.5	60.9	61.9	63.1	63.1	64.1	62.9	59.71
	7	56.4	54.4	59.4	61.7	57.3	59.9	61.9	63.7	62.7	63.6	60.4	60.23
	8	—	—	—	—	—	—	—	—	—	—	—	59.21
	9	63.1	65.0	62.3	61.9	63.1	63.1	63.1	64.7	64.3	63.0	61.2	58.97
	10	60.9	60.1	59.8	59.9	60.7	60.8	62.2	62.1	63.2	62.8	60.3	58.10
	11	57.2	56.4	57.8	57.9	58.0	59.1	60.5	62.0	62.4	61.9	60.9	57.87
	12	56.5	56.4	56.8	59.2	59.0	59.0	61.0	62.2	62.6	61.6	59.1	55.13
	13	56.2	57.3	58.3	58.8	61.8	59.0	59.7	61.8	60.9	60.0	56.9	54.45
	14	54.0	54.1	55.0	56.0	56.3	56.3	56.3	57.9	56.9	55.8	54.5	56.56
	15	—	—	—	—	—	—	—	—	—	—	—	56.66
	16	54.0	54.5	55.1	55.6	56.3	56.7	58.2	59.9	59.9	58.7	57.2	55.46
	17	55.9	56.6	56.8	57.0	57.2	57.0	58.0	58.9	58.7	58.1	56.2	55.18
	18	56.0	56.0	56.1	56.9	56.8	57.3	57.9	59.2	59.8	59.6	57.1	54.29
	19	54.2	54.2	54.0	54.1	54.3	54.0	55.6	58.0	57.8	56.1	54.4	55.28
	20	54.0	54.0	54.6	55.5	56.5	57.0	58.5	60.1	60.1	59.0	56.5	54.53
	21	53.4	54.1	54.9	56.9	56.3	56.8	57.7	59.2	59.4	58.5	57.1	41.74
	22	—	—	—	—	—	—	—	—	—	—	—	53.90
	23	56.0	56.5	56.2	57.1	57.6	58.0	59.3	61.2	61.1	60.0	59.8	59.27
	24	52.3	53.3	53.3	56.6	56.5	58.1	60.2	63.5	57.4	49.9	46.2	61.88
	25	45.7	51.0	51.6	50.4	52.1	52.7	53.9	55.6	57.5	55.9	55.7	59.85
	26	54.7	54.6	53.3	53.1	53.4	54.8	57.7	56.8	57.9	58.2	56.1	58.86
	27	61.0	61.9	66.3	64.0	60.9	61.8	62.0	64.8	64.3	65.0	67.0	59.85
	28	60.5	60.9	62.0	62.2	63.6	64.0	65.8	68.1	68.7	67.7	66.4	58.86
	29	—	—	—	—	—	—	—	—	—	—	—	59.85
	30	60.9	59.2	58.8	57.7	59.9	59.2	61.7	61.0	60.8	59.0	59.0	58.86
	31	57.6	58.0	59.0	60.0	59.6	60.4	62.1	64.6	66.2	65.1	62.0	58.86
Hourly Means		56.20	56.68	57.16	57.73	57.85	58.38	59.64	60.98	61.01	60.21	58.48	56.73

TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
JULY.	1	—	—	—	—	—	—	—	—	—	—	—	55.56
	2	55.9	55.8	55.5	55.0	54.8	54.6	54.4	54.2	54.2	54.4	54.6	55.62
	3	55.7	55.5	55.2	55.0	54.9	54.7	54.5	54.5	54.5	54.7	55.0	58.16
	4	58.5	58.5	58.5	58.5	58.5	58.3	58.2	58.1	58.0	57.9	58.1	58.66
	5	58.8	58.7	58.7	58.5	58.4	57.9	57.7	57.7	57.4	57.2	57.0	55.40
	6	55.1	55.1	54.8	54.8	54.6	54.6	54.4	54.2	54.1	54.5	54.5	54.78
	7	54.9	54.9	54.8	54.7	54.7	55.1	54.9	54.8	54.7	54.7	54.7	53.39
	8	—	—	—	—	—	—	—	—	—	—	—	54.15
	9	52.5	52.5	52.4	52.3	52.3	52.2	52.2	52.1	52.2	52.5	52.7	56.09
	10	54.4	54.2	54.0	53.7	53.6	53.3	53.1	52.9	52.9	52.8	53.5	56.52
	11	55.9	55.7	55.7	55.6	55.5	55.3	55.0	54.9	54.9	55.0	55.4	57.16
	12	56.7	56.4	56.2	55.7	55.7	55.6	55.4	55.0	54.8	54.9	55.2	58.66
	13	57.3	56.9	56.7	56.5	56.0	56.4	56.4	55.9	55.9	56.0	56.5	58.97
	14	58.7	58.6	58.4	58.3	58.3	57.9	57.9	57.9	57.9	58.1	58.5	57.12
	15	—	—	—	—	—	—	—	—	—	—	—	57.22
	16	58.3	58.2	58.1	57.9	57.7	57.7	57.5	57.4	57.2	56.8	56.8	58.73
	17	57.1	56.9	57.2	57.2	57.0	56.8	56.8	56.7	56.7	56.7	56.7	58.99
	18	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.7	57.7	59.89
	19	59.3	59.3	58.9	58.9	58.7	58.7	58.7	58.2	58.0	58.0	58.0	58.86
	20	59.4	59.1	58.9	58.7	58.4	58.3	58.2	58.1	58.0	58.0	58.3	58.68
	21	59.9	59.7	59.7	59.6	59.6	59.3	59.2	59.1	59.0	58.8	58.9	57.68
	22	—	—	—	—	—	—	—	—	—	—	—	56.1
	23	57.9	57.8	58.2	58.1	58.1	57.9	57.8	57.9	57.9	57.9	57.9	56.55
	24	57.8	57.5	57.3	56.9	56.7	56.7	56.5	56.3	56.2	56.0	56.1	55.82
	25	57.2	56.7	56.2	55.8	55.7	55.4	55.1	54.9	54.7	54.7	54.8	52.90
	26	56.4	56.4	56.2	56.3	56.3	56.0	55.9	55.7	55.6	55.3	55.0	52.02
	27	52.4	52.2	52.0	51.7	51.6	51.3	51.3	51.1	51.1	51.1	51.3	53.94
	28	51.9	51.7	51.6	51.4	50.9	50.6	50.2	49.9	49.9	50.2	50.5	54.96
	29	—	—	—	—	—	—	—	—	—	—	—	54.96
	30	55.1	55.0	54.8	54.7	54.7	54.7	54.6	54.6	54.6	54.4	54.6	54.96
	31	54.8	54.7	54.5	54.1	53.9	53.9	53.7	53.8	53.8	54.0	54.4	54.96
Hourly Means		56.51	56.36	56.23	56.05	55.93	55.80	55.66	55.52	55.45	55.47	55.65	56.45

HORIZONTAL FORCE.														
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fabt. = .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 .	12 ^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.	
AUGUST.	1	62.1	61.7	59.4	58.4	58.9	59.0	58.3	57.8	57.0	57.1	57.0	57.4	57.8
	2	62.8	60.9	59.0	57.7	57.7	57.9	58.0	57.5	56.9	57.1	57.2	57.3	57.8
	3	61.1	59.7	58.0	57.7	58.6	59.0	58.5	57.5	57.2	55.1	56.4	56.8	56.4
	4	52.3	47.7	46.9	46.6	45.1	43.6	45.3	46.9	45.8	44.0	47.0	47.6	47.8
	5	53.6	51.9	50.1	49.0	50.5	50.9	51.0	50.0	49.0	48.3	49.1	50.2	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	52.2
	7	54.3	53.1	51.6	51.6	52.3	53.0	52.0	51.0	52.1	51.8	51.0	52.2	52.2
	8	51.8	51.2	49.5	50.0	50.0	49.8	47.0	46.1	44.9	46.9	48.7	49.6	50.6
	9	52.8	51.9	51.0	52.4	53.0	51.5	50.9	49.9	48.3	49.0	50.3	52.0	52.3
	10	58.8	57.2	55.9	54.0	55.0	55.7	55.9	55.2	54.4	54.7	55.0	55.7	56.2
	11	63.1	60.8	58.0	53.1	54.1	56.5	54.5	52.4	55.0	55.4	56.9	59.4	58.1
	12	59.3	58.3	54.8	54.2	57.5	58.5	57.5	57.0	56.8	57.4	57.2	57.0	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	59.2
	14	62.8	60.9	57.3	56.0	55.5	55.7	55.9	54.7	54.2	59.0	55.9	55.7	55.7
	15	61.7	58.2	57.1	56.6	57.5	57.8	57.2	56.8	56.5	57.5	58.8	58.2	59.0
	16	63.5	63.0	61.4	60.1	60.0	60.0	59.6	59.9	59.1	59.3	59.9	60.4	60.8
	17	64.1	61.8	59.5	59.0	59.8	61.2	60.0	59.0	59.0	58.4	58.8	59.8	59.3
	18	62.5	62.0	61.0	59.8	59.4	59.2	58.3	56.8	57.2	57.7	58.0	58.1	58.2
	19	60.4	60.3	57.0	54.8	56.0	56.3	56.0	55.2	54.9	54.8	54.3	54.8	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	51.6
	21	55.1	56.1	54.5	53.0	51.4	51.0	50.6	50.0	50.0	49.5	50.1	50.4	50.0
	22	54.7	52.7	47.8	48.0	45.7	45.2	41.8	40.8	37.2	40.0	42.3	46.3	44.5
	23	48.0	47.4	47.3	46.1	44.9	46.0	43.5	44.0	44.3	44.7	48.8	50.5	47.7
	24	54.6	54.6	53.7	54.5	54.2	55.6	54.6	54.4	55.7	55.6	55.4	56.0	57.8
	25	61.4	60.0	57.6	58.3	56.5	55.5	54.3	51.9	50.9	53.1	54.4	54.6	55.0
	26	59.4	58.1	55.9	55.1	54.6	54.8	53.5	52.6	52.0	52.9	52.9	52.2	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	52.3
	28	53.0	52.6	52.9	53.8	53.9	53.5	52.2	51.7	51.2	50.8	51.4	52.0	52.4
	29	55.8	55.2	55.2	54.9	54.8	54.5	53.3	52.4	51.4	51.4	51.2	51.0	51.6
	30	56.9	54.3	52.8	52.0	51.0	51.3	50.0	48.4	47.8	47.9	47.3	47.6	48.2
	31	48.8	47.6	46.6	46.0	44.5	45.0	44.7	43.8	44.9	45.2	46.0	46.6	46.9
Hourly Means	57.58	56.27	54.51	53.80	53.79	54.00	53.13	52.36	51.99	52.39	53.01	53.68	53.76	
TEMPERATURE OF THE MAGNET.														
AUGUST.	1	54.7	55.3	55.7	55.9	56.5	56.6	56.7	56.7	56.5	56.1	56.0	55.8	55.6
	2	54.7	55.0	55.4	55.7	55.8	56.1	56.5	56.5	56.4	56.4	56.1	56.1	56.0
	3	56.5	56.8	57.4	57.8	58.2	58.4	58.8	58.8	58.7	58.6	58.5	58.5	58.3
	4	58.8	59.2	59.7	60.4	60.7	60.7	61.2	61.1	61.0	60.8	60.5	60.4	60.3
	5	59.3	59.4	59.4	59.7	59.8	59.7	59.8	59.8	59.7	59.7	59.6	59.6	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	58.4
	7	57.9	58.5	58.7	59.4	59.7	59.9	60.0	60.0	59.8	59.7	59.6	59.6	59.5
	8	59.6	59.7	60.0	60.3	60.3	60.4	60.6	60.6	60.5	60.4	59.9	59.8	59.7
	9	59.1	59.0	59.4	59.4	59.4	59.3	59.1	58.9	58.8	58.7	58.7	58.6	58.2
	10	56.7	57.0	57.0	57.0	57.0	57.1	56.8	56.7	56.7	56.6	56.4	56.2	56.2
	11	55.7	55.7	56.0	56.0	56.2	56.2	56.2	56.1	55.9	55.7	55.6	55.4	55.1
	12	54.0	54.4	54.5	54.7	54.8	55.0	55.1	55.0	54.7	54.5	54.4	54.0	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	53.5
	14	53.8	54.4	54.9	55.4	55.8	56.1	56.4	56.5	56.5	56.4	56.2	56.0	55.8
	15	55.0	55.2	55.4	55.3	55.3	55.3	55.3	55.4	55.2	55.0	54.7	54.7	54.4
	16	52.9	53.0	53.4	53.5	53.7	53.7	53.6	53.6	53.5	53.2	53.1	53.0	52.8
	17	53.5	53.7	54.0	54.3	54.7	54.9	55.0	55.0	55.0	54.9	54.7	54.6	54.6
	18	54.8	54.9	55.5	55.9	56.4	56.6	56.7	56.7	56.6	56.5	56.4	56.3	56.1
	19	55.6	56.1	56.7	57.0	57.6	57.7	58.4	58.5	58.5	58.5	58.1	58.0	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	59.6
	21	60.4	61.0	61.7	62.2	62.9	63.2	63.4	63.5	63.4	63.3	62.9	62.7	62.6
	22	61.8	62.3	63.2	63.7	64.4	64.7	64.7	64.7	64.3	64.0	63.9	63.3	63.2
	23	61.8	62.1	62.3	62.5	62.4	62.1	61.9	61.6	61.3	61.1	60.8	60.6	60.5
	24	57.0	56.9	56.7	56.8	56.7	56.5	56.0	55.7	55.2	54.9	54.8	54.6	54.4
	25	55.1	55.7	55.8	56.0	56.2	56.2	56.4	56.4	56.3	56.3	55.9	56.4	56.4
	26	55.9	56.5	56.7	57.1	57.3	57.6	57.9	58.1	58.3	58.4	58.1	57.9	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	57.7
	28	58.3	58.7	59.1	59.7	59.8	59.8	60.2	60.0	59.8	59.7	59.4	59.2	59.1
	29	58.8	59.4	59.7	60.2	60.8	61.0	61.3	61.4	61.4	61.3	61.3	60.9	60.7
	30	61.1	61.8	62.6	63.2	63.9	64.7	64.7	64.7	64.5	64.3	64.1	63.8	63.5
	31	62.7	63.4	64.1	64.7	65.1	65.3	65.5	65.4	65.2	65.0	64.7	64.4	64.0
Hourly Means	57.24	57.60	57.96	58.29	58.57	58.70	58.82	58.79	58.66	58.52	58.31	58.16	58.01	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

Mean Göttingen Time.	13h.	14h.	15h.	16h.	17h.	18h.	19h.	20h.	21h.	22h.	23h.	Means.	
AUGUST.	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	57.9	58.0	58.5	59.1	59.7	60.5	61.9	64.0	64.7	64.0	63.0	59.72
	2	57.8	58.8	58.7	59.0	58.3	59.1	60.9	62.7	63.9	63.0	62.4	59.27
	3	57.1	55.0	56.1	53.1	55.0	55.0	58.0	60.0	60.0	56.9	54.3	57.19
	4	51.5	49.5	49.7	50.2	50.5	51.5	53.8	55.0	53.4	53.0	52.0	49.02
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	52.4	53.6	53.9	53.7	54.8	55.6	56.4	56.9	55.5	53.7	54.1	52.35
	7	53.0	53.0	53.6	54.2	53.3	53.3	53.7	55.2	57.2	53.1	52.7	52.94
	8	51.7	52.4	—	51.2	51.2	50.3	56.5	53.8	55.6	55.4	50.9	50.66
	9	53.5	53.2	53.6	54.0	53.4	54.0	55.8	57.9	57.8	56.0	57.7	53.01
	10	57.4	56.9	57.0	58.0	58.5	59.0	60.1	62.1	64.1	62.5	62.9	57.59
	11	58.9	59.3	60.5	61.1	61.2	61.8	62.8	64.0	62.6	60.1	58.0	58.65
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	60.2	60.9	60.3	59.7	61.0	60.7	62.3	64.9	66.5	65.3	64.2	59.61
	14	56.6	57.0	57.2	57.8	57.9	58.0	59.1	61.2	62.1	62.8	63.2	58.01
	15	59.0	59.3	61.9	61.8	61.9	62.2	63.6	64.0	64.8	63.9	63.9	59.97
	16	61.4	61.3	62.1	62.5	62.8	63.1	64.1	66.2	67.7	66.0	65.3	62.06
	17	59.4	59.4	59.8	60.9	61.4	61.5	62.4	63.7	64.6	63.8	63.0	60.82
	18	58.1	58.1	58.3	59.3	59.1	59.1	60.9	62.8	62.2	61.0	59.8	59.45
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	51.5	51.7	—	—	—	53.7	56.0	57.8	56.9	54.9	54.1	55.38
	21	50.7	50.7	50.9	51.9	52.7	53.4	56.0	60.6	59.9	57.6	54.8	52.95
	22	51.4	51.8	46.9	48.5	47.0	48.0	51.1	51.1	50.7	50.5	48.6	47.19
	23	50.5	51.3	51.2	51.8	52.5	52.2	54.6	56.7	57.6	55.9	56.1	49.73
	24	59.0	59.1	58.7	59.5	59.4	59.4	61.3	63.0	62.7	60.2	61.0	57.50
	25	56.0	55.9	57.0	57.6	56.3	56.7	57.4	58.5	60.0	58.9	59.6	56.56
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	53.2	53.7	54.3	54.8	54.3	53.9	55.1	56.0	55.4	55.3	53.7	54.42
	28	52.1	53.6	53.6	53.7	54.6	55.8	56.8	57.8	57.7	58.1	57.2	53.85
	29	52.0	52.2	52.5	52.8	53.0	54.8	56.2	58.4	59.1	59.0	58.3	54.21
	30	48.9	48.3	49.4	49.9	50.9	51.7	53.3	55.1	55.9	54.2	51.1	51.01
31	46.7	47.0	48.2	49.0	49.8	49.9	51.8	56.5	56.8	55.8	54.8	48.45	
Hourly Means	54.74	54.85	55.36	55.58	55.79	56.08	57.85	59.48	59.83	58.55	57.66	55.25	

TEMPERATURE OF THE MAGNET.

AUGUST.	1	55.4	55.2	54.9	54.9	54.5	54.4	54.1	54.0	54.0	54.4	54.5	55.35
	2	55.9	55.9	55.9	55.8	55.7	55.8	55.7	55.7	55.7	55.7	55.9	55.85
	3	58.3	58.2	58.4	58.4	58.4	58.3	58.2	58.1	58.0	58.1	58.4	58.17
	4	60.2	60.0	59.8	59.7	59.6	59.5	59.3	59.1	59.0	59.2	59.2	59.98
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	58.2	58.1	57.8	57.7	57.7	57.4	57.3	57.3	57.2	57.5	57.6	58.65
	7	59.4	59.4	59.2	59.2	59.2	59.0	59.0	58.9	58.9	59.1	59.4	59.29
	8	59.6	59.5	—	59.5	59.4	59.2	59.2	59.3	59.2	59.0	58.9	59.77
	9	58.0	57.8	57.8	57.7	57.5	57.2	57.1	56.9	56.8	56.7	56.7	58.20
	10	56.1	56.0	55.9	55.8	55.7	55.8	55.7	55.7	55.6	55.5	55.6	56.28
	11	54.8	54.7	54.2	54.0	53.9	53.7	53.7	53.5	53.6	53.7	53.8	54.98
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	53.4	53.3	52.9	52.8	52.8	52.6	52.6	52.6	52.6	52.8	53.4	53.77
	14	55.7	55.7	55.7	55.6	55.6	55.4	55.3	55.0	55.0	54.8	54.9	55.54
	15	54.0	53.8	53.8	53.6	53.4	52.8	52.7	52.7	52.6	52.5	52.7	54.20
	16	52.7	52.7	52.7	52.6	52.5	52.6	52.6	52.6	52.7	52.7	53.0	53.02
	17	54.5	54.3	54.0	53.9	53.8	53.9	53.8	53.9	53.9	53.9	54.2	54.29
	18	55.9	55.7	55.3	55.3	55.1	55.0	54.9	54.8	54.9	55.0	55.2	55.69
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	59.6	59.5	—	—	—	59.0	58.9	58.9	58.9	59.4	59.7	58.29
	21	62.2	61.9	61.9	61.7	61.5	61.0	60.8	60.7	60.7	61.0	61.3	62.00
	22	62.8	62.4	62.3	62.0	61.8	61.7	61.6	61.5	61.5	61.5	61.7	62.88
	23	60.1	59.8	59.6	59.1	58.8	58.4	58.0	57.6	57.3	57.2	57.1	60.17
	24	54.2	54.0	53.9	54.0	54.0	53.9	54.0	54.0	54.1	54.5	54.7	55.06
	25	56.5	56.6	56.7	56.6	56.5	56.2	56.0	55.8	55.7	55.7	55.8	56.13
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	57.7	57.7	57.7	57.7	57.7	57.5	57.5	57.5	57.5	57.7	58.0	57.57
	28	58.9	58.7	58.6	58.5	58.3	57.9	57.9	57.9	57.8	58.3	58.5	58.92
	29	60.6	60.5	60.0	60.0	59.9	60.0	59.8	59.8	59.8	60.1	60.5	60.38
	30	63.3	62.9	62.5	62.2	62.0	61.7	61.6	61.6	61.5	61.7	62.1	62.92
	31	63.7	63.3	63.1	62.8	62.5	62.3	62.2	62.0	61.8	61.7	61.7	63.61
Hourly Means	57.84	57.69	57.38	57.35	57.22	57.12	57.02	56.94	56.90	57.01	57.20	57.81	

HORIZONTAL FORCE.														
One Scale Division = .00018 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 .	12 ^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.	
SEPTEMBER.	1	53.5	50.2	50.1	47.2	47.0	45.0	38.2	46.6	40.9	40.9	44.0	45.3	47.5
	2	51.4	52.0	49.2	47.5	48.7	46.1	43.2	46.0	44.7	45.3	54.6	50.7	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	52.8
	4	57.3	56.0	54.0	54.9	52.4	52.9	52.8	53.4	54.8	54.9	54.2	49.9	53.0
	5	60.1	57.0	54.1	54.0	52.7	50.8	49.6	50.8	51.7	53.9	55.0	54.0	54.0
	6	56.2	56.7	55.4	53.9	52.7	52.5	52.1	51.5	51.0	51.1	53.0	53.1	53.1
	7	58.1	58.0	55.5	53.8	52.5	52.6	52.0	52.5	51.7	52.1	51.8	52.2	53.0
	8	53.7	49.3	48.3	50.2	50.2	48.1	47.8	49.0	49.1	49.1	49.8	49.0	49.7
	9	51.9	51.0	49.2	47.6	49.0	48.0	46.9	49.3	47.0	46.5	47.8	49.8	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	54.0
	11	51.9	51.1	49.8	49.9	50.2	51.3	51.0	51.1	51.1	50.3	51.2	51.0	51.1
	12	55.5	53.3	53.0	53.6	52.1	49.9	46.9	47.7	47.9	46.9	48.9	47.9	47.9
	13	54.3	54.6	54.0	53.5	51.6	49.3	47.4	47.5	47.3	47.0	47.8	46.5	47.2
	14	52.7	52.2	51.9	51.9	51.9	52.7	51.0	49.9	48.2	49.2	49.0	55.0	52.8
	15	56.1	54.4	52.6	51.7	51.4	51.5	51.0	50.5	50.2	50.3	50.8	51.2	51.6
	16	55.7	54.9	52.7	51.3	50.7	51.3	49.7	49.9	50.2	50.5	50.0	49.9	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	54.0
	18	59.9	58.8	56.3	54.2	54.0	53.8	50.7	49.0	48.9	49.0	51.5	54.2	51.8
	19	50.2	49.7	52.0	51.1	49.8	49.0	48.7	50.2	47.5	47.0	51.9	55.8	52.8
	20	59.0	58.3	57.1	54.0	52.2	52.8	52.8	52.0	52.0	51.8	53.9	54.4	54.6
	21	56.0	56.0	56.1	56.3	55.2	54.2	51.6	50.0	54.0	52.6	53.1	55.7	58.0
	22	58.0	57.8	59.3	54.3	52.5	54.2	53.7	53.9	54.2	56.9	54.9	57.4	59.7
	23	58.1	53.0	52.2	53.2	51.3	50.1	52.0	50.1	50.9	51.1	52.5	54.6	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	56.3
	25	58.9	57.9	57.4	57.2	55.7	55.2	55.0	53.8	54.2	54.2	54.7	55.4	56.4
	26	61.7	61.3	60.0	58.0	56.5	54.1	52.4	52.1	51.6	51.7	53.0	53.8	54.8
	27	60.0	60.0	58.2	57.6	57.0	55.8	54.7	55.3	55.0	55.0	55.3	55.1	54.6
	28	47.0	48.6	47.8	47.1	47.5	47.1	46.4	46.2	46.1	46.3	47.0	48.1	48.9
	29	52.0	51.5	50.0	49.4	50.5	48.6	44.9	41.1	39.9	41.3	43.8	46.0	47.6
Hourly Means	55.57	54.54	53.45	52.54	51.81	51.08	49.70	49.98	49.60	49.80	51.18	51.84	52.69	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
SEPTEMBER.	1	61.7	61.7	62.0	62.0	61.9	61.9	61.7	61.7	61.5	61.3	61.0	60.8	60.7
	2	59.7	60.0	60.2	60.3	60.3	60.3	59.8	59.7	59.7	59.6	59.4	59.3	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	57.4
	4	56.7	56.7	57.0	57.2	57.3	57.0	57.0	56.7	56.4	56.3	56.3	55.9	55.8
	5	55.4	55.7	55.7	55.8	56.0	56.0	56.1	56.0	55.9	55.8	55.8	55.7	55.6
	6	55.9	56.5	57.0	57.7	58.1	58.3	58.6	58.6	58.5	58.4	58.0	57.8	57.7
	7	57.7	58.2	58.7	58.8	59.0	59.0	59.1	59.0	58.8	58.7	58.6	58.4	58.1
	8	58.4	59.0	59.5	59.9	60.2	60.4	60.1	60.0	59.9	59.8	59.7	59.3	59.3
	9	59.6	60.0	60.3	60.7	61.2	61.4	61.4	61.3	61.1	60.7	60.6	60.4	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	57.7
	11	57.9	58.5	58.7	59.1	59.4	59.5	59.6	59.5	59.1	59.0	59.1	59.0	58.8
	12	59.2	59.9	60.6	61.0	61.6	61.8	62.2	62.0	61.8	61.6	61.4	61.0	60.8
	13	60.6	61.0	61.7	61.9	62.4	62.7	63.0	63.0	62.8	62.4	62.0	61.7	61.5
	14	60.0	60.4	60.7	60.7	61.0	60.9	61.0	60.7	60.6	60.4	60.0	59.9	59.6
	15	58.7	59.4	59.8	60.1	60.4	60.8	60.8	60.7	60.7	60.5	60.5	60.0	59.7
	16	59.5	60.0	60.4	61.0	61.3	61.4	61.7	61.7	61.5	61.3	61.4	61.2	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	61.0
	18	60.4	60.6	60.7	60.9	61.1	61.2	61.1	60.9	60.9	60.6	60.5	60.4	60.2
	19	59.2	59.6	59.7	59.7	59.7	59.6	59.4	59.1	58.7	58.5	58.3	58.0	57.7
	20	57.3	57.5	57.7	57.7	57.9	58.0	58.2	57.9	57.7	57.5	57.0	57.0	57.0
	21	56.4	56.5	56.7	56.8	56.7	56.6	56.7	56.7	56.4	56.4	56.5	56.1	55.6
	22	54.4	54.9	54.9	55.3	55.6	55.7	55.7	55.7	55.7	55.6	55.6	55.5	55.4
	23	56.7	57.1	57.6	58.0	58.2	58.3	58.5	58.4	58.3	58.0	57.7	57.4	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	56.1
	25	56.3	56.7	56.9	57.5	57.7	57.9	58.0	57.8	57.7	57.5	57.2	56.8	56.7
	26	56.3	56.6	57.1	57.6	57.7	57.7	57.7	57.7	57.5	57.1	57.1	57.1	57.0
	27	56.9	57.7	58.1	58.4	58.7	58.9	58.8	58.5	58.4	58.2	58.2	58.0	57.8
	28	59.3	59.9	60.6	61.0	61.7	61.8	62.1	62.0	61.8	61.7	61.5	61.3	61.1
	29	61.7	62.7	63.2	63.9	64.3	64.6	64.7	64.7	64.5	64.3	63.7	63.3	62.9
Hourly Means	58.24	58.67	59.02	59.32	59.58	59.67	59.72	59.60	59.44	59.25	59.08	58.85	58.45	

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00027.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
SEPTEMBER.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	Se. Div.	
	1	48.2	50.1	53.4	52.3	51.4	52.2	52.3	51.2	55.2	51.4	49.3	48.47
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	53.8	53.8	53.7	55.7	57.2	56.0	58.0	58.1	58.6	58.8	58.5	52.27
	4	54.6	56.4	57.4	57.0	57.5	56.8	59.5	60.9	60.7	59.8	60.1	55.88
	5	55.0	55.6	57.3	57.0	57.6	58.2	58.9	58.9	58.0	59.0	58.0	55.47
	6	53.8	54.9	56.0	55.6	56.3	55.8	56.0	56.8	57.4	59.0	57.7	54.65
	7	54.1	54.6	54.8	55.0	54.8	55.6	56.3	58.0	58.5	58.5	56.0	54.67
	8	51.0	51.7	52.2	52.0	52.2	53.5	55.2	56.4	57.0	55.9	54.2	51.44
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	53.1	56.0	55.2	55.8	56.5	56.4	57.6	56.8	57.0	56.2	54.6	52.22
	11	53.2	54.0	54.9	55.3	55.4	56.5	56.9	59.3	59.1	57.3	56.6	53.31
	12	49.0	51.0	51.1	51.1	54.8	53.5	56.6	58.9	60.1	57.6	54.1	52.05
	13	48.8	49.9	50.1	50.9	51.8	52.5	55.1	57.3	56.3	54.7	53.6	51.21
	14	52.8	53.0	53.2	54.5	55.2	55.7	57.9	58.9	59.0	58.0	57.0	53.48
	15	52.9	53.9	53.2	53.6	54.2	55.0	56.7	57.3	57.2	56.7	55.8	53.32
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	57.8	56.3	57.4	58.3	57.7	57.5	58.9	59.9	59.7	62.5	59.2	54.83
	18	54.9	52.2	53.5	53.4	52.8	53.1	55.9	58.1	59.5	53.0	47.3	53.57
	19	52.9	53.5	54.4	54.9	55.1	56.7	59.3	59.3	56.8	58.0	58.9	53.15
	20	54.3	54.0	58.6	57.0	56.1	55.0	59.2	58.9	58.2	58.2	55.9	55.43
	21	57.5	57.5	57.5	58.2	58.2	58.7	58.3	59.5	60.7	58.3	59.3	56.35
	22	57.0	56.5	57.2	56.9	56.6	56.3	56.4	51.7	58.0	59.4	58.9	56.32
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	57.4	57.6	—	—	—	60.4	63.5	64.7	62.0	59.2	57.8	55.62
	25	57.7	58.2	57.1	57.1	58.1	59.0	59.5	60.8	60.4	59.7	60.7	57.26
	26	55.6	57.0	57.9	57.2	57.9	58.1	59.8	61.0	60.0	59.5	60.0	56.87
	27	54.6	59.0	56.0	57.2	57.7	55.4	54.3	57.5	57.5	52.0	52.1	56.12
	28	50.0	49.0	51.7	50.9	50.6	51.4	53.0	53.9	53.0	53.1	53.5	49.34
29	45.3	46.7	48.2	48.4	49.4	50.0	51.2	53.7	52.2	51.9	48.3	48.00	
Hourly Means	53.41	54.10	54.67	54.80	55.21	55.57	57.05	57.91	58.08	57.11	55.90	53.64	

TEMPERATURE OF THE MAGNET.

SEPTEMBER.	1	60.7	60.5	60.5	60.4	60.3	59.8	59.7	59.7	59.6	59.4	59.6	60.84
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	57.2	57.0	56.8	56.7	56.5	56.5	56.4	56.3	56.4	56.1	56.5	58.25
	4	55.7	55.6	55.2	55.1	54.9	54.7	54.7	54.6	54.6	54.9	55.2	55.90
	5	55.5	55.4	55.0	55.1	55.0	54.7	54.7	54.7	54.9	55.3	55.7	55.48
	6	57.6	57.4	57.5	57.4	57.2	57.1	56.9	56.8	57.0	57.0	57.5	57.52
	7	58.0	58.0	58.2	58.1	58.0	57.9	57.8	57.6	57.7	57.7	58.1	58.30
	8	59.1	59.0	58.8	58.8	58.7	58.7	58.7	58.7	58.7	58.9	59.3	59.29
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	57.6	57.4	56.9	56.7	56.7	56.6	56.4	56.4	56.6	57.0	57.6	58.85
	11	58.7	58.6	58.3	58.2	58.1	58.0	57.9	57.9	58.0	58.3	58.8	58.67
	12	60.7	60.5	60.5	60.4	59.9	59.7	59.6	59.5	59.6	59.7	60.0	60.63
	13	61.1	60.7	60.7	60.5	60.3	59.9	59.7	59.5	59.6	59.7	59.8	61.18
	14	59.3	59.1	58.8	58.7	58.5	58.5	58.3	58.2	58.2	58.1	58.6	59.59
	15	59.6	59.3	58.8	58.7	58.4	58.2	57.9	57.8	57.9	58.4	58.7	59.41
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	60.8	60.7	60.4	60.3	60.2	60.0	59.9	59.8	59.9	60.0	60.2	60.65
	18	59.9	59.8	59.8	59.6	59.5	59.2	59.0	59.0	59.1	58.9	59.1	60.10
	19	57.6	57.5	57.4	57.1	56.9	56.7	56.5	56.4	56.5	56.7	57.0	58.06
	20	56.8	56.8	56.7	56.6	56.6	56.6	56.4	56.0	55.9	56.2	56.3	57.05
	21	55.4	54.9	54.7	54.5	54.1	54.2	54.0	53.9	54.0	54.0	54.2	55.50
	22	55.3	55.2	54.8	54.7	54.7	54.7	54.7	54.8	55.1	55.7	56.0	55.24
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	55.9	55.7	—	—	—	55.0	54.8	54.9	55.0	55.5	55.7	55.95
	25	56.6	56.2	56.3	56.2	56.0	55.7	55.7	55.7	55.7	55.9	56.0	56.70
	26	56.9	56.7	56.6	56.4	56.3	56.3	56.1	56.0	56.2	56.4	56.7	56.87
	27	57.7	57.6	57.5	57.3	57.2	57.2	57.2	57.2	57.5	58.0	58.6	57.90
	28	60.9	60.8	60.4	60.3	60.2	59.7	59.7	59.7	59.9	60.5	61.1	60.79
	29	62.5	62.2	62.1	61.8	61.7	61.6	61.6	61.5	61.5	61.3	61.4	62.82
Hourly Means	58.28	58.10	58.03	57.90	57.75	57.49	57.37	57.30	57.40	57.58	57.91	58.50	

HORIZONTAL FORCE.													
One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00028.													
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 .	12 ^h .
Sept. 30	47.7	48.9	46.3	45.5	47.8	48.8	43.3	45.3	46.0	48.1	49.2	50.0	—
1	—	—	—	—	—	—	—	—	—	—	—	—	57.6
2	60.3	57.9	55.3	53.8	50.1	50.8	50.8	49.1	50.9	51.7	52.0	53.3	56.0
3	49.1	52.8	51.3	50.0	50.0	49.6	49.0	48.4	48.9	49.7	49.7	50.0	51.3
4	56.1	56.5	55.2	52.5	52.5	51.2	50.2	50.3	50.0	49.8	51.0	51.5	51.6
5	52.3	53.0	51.5	51.4	50.2	46.0	44.1	44.9	46.0	48.1	49.7	51.5	52.4
6	52.8	52.2	53.4	53.3	51.7	50.7	49.4	49.3	49.5	49.5	50.1	52.4	51.4
7	54.0	55.0	55.3	54.3	53.3	52.9	51.9	51.1	52.0	51.8	52.2	52.9	—
8	—	—	—	—	—	—	—	—	—	—	—	—	52.5
9	49.8	50.3	50.6	49.7	49.4	48.4	47.0	46.9	46.5	46.8	47.6	48.2	49.6
10	48.0	49.2	47.4	46.8	46.3	46.9	46.6	46.2	44.5	44.5	45.1	47.0	47.1
11	49.7	48.2	48.2	47.8	48.3	47.0	46.8	46.2	45.7	45.7	45.8	46.0	46.0
12	48.0	47.0	45.5	45.6	43.8	43.0	42.3	41.5	41.0	40.4	42.1	41.3	41.3
13	45.0	43.5	44.0	43.0	42.7	43.3	42.0	42.0	42.4	43.4	44.2	45.0	45.8
14	49.0	49.0	50.3	49.4	48.5	47.5	45.1	43.2	41.1	44.3	44.8	50.1	—
15	—	—	—	—	—	—	—	—	—	—	—	—	49.6
16	43.9	47.2	49.0	47.1	46.4	44.1	44.4	47.9	45.7	44.0	47.4	47.1	45.1
17	48.5	47.1	40.3	44.9	43.1	42.5	41.8	46.4	44.0	45.3	45.4	46.4	48.0
18	48.8	49.1	48.0	47.0	46.1	45.9	44.8	44.8	44.8	46.5	47.2	47.5	48.0
19	48.7	50.3	50.8	49.8	48.8	46.9	47.6	48.4	48.0	49.0	49.8	50.1	50.6
20	52.1	50.7	52.5	52.8	52.1	50.0	49.6	48.3	46.7	48.0	49.8	51.0	51.0
21	56.0	56.4	56.6	55.6	53.8	51.6	50.6	49.7	49.7	50.3	50.8	51.0	—
22	—	—	—	—	—	—	—	—	—	—	—	—	51.2
23	54.1	52.9	52.7	52.3	51.0	50.0	48.8	48.0	47.7	48.2	48.7	50.2	49.9
24	53.6	51.0	50.1	50.1	49.9	48.8	48.2	47.9	48.1	48.1	48.7	49.1	49.4
25	55.3	54.3	52.7	49.6	46.0	46.1	46.8	47.1	47.5	47.7	48.5	49.3	49.7
26	46.1	49.9	50.3	49.4	45.9	46.2	41.7	45.8	45.0	47.5	47.0	48.2	48.7
27	47.2	41.5	48.3	49.8	47.9	46.4	45.7	45.8	46.0	45.8	46.0	46.1	46.9
28	46.0	47.7	48.7	48.7	49.0	48.3	48.2	48.2	48.0	47.9	48.0	48.8	—
29	—	—	—	—	—	—	—	—	—	—	—	—	49.6
30	49.1	48.9	46.0	45.0	44.9	42.5	43.3	44.5	43.8	41.5	43.1	44.8	45.4
31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	50.43	50.40	50.01	49.43	48.44	47.52	46.54	46.82	46.52	47.06	47.84	48.80	49.45

TEMPERATURE OF THE MAGNET.													
Sept. 30	61.6	61.7	62.0	62.1	61.8	61.7	61.4	61.3	61.1	60.7	60.5	60.0	—
1	—	—	—	—	—	—	—	—	—	—	—	—	57.9
2	57.3	57.9	58.3	58.6	58.9	58.9	58.7	58.7	58.2	58.0	58.0	57.8	57.8
3	58.7	59.2	59.7	60.2	60.4	60.6	60.7	60.6	60.4	60.1	59.8	59.6	59.4
4	58.7	59.2	59.8	60.1	60.7	60.7	60.7	60.7	60.7	60.5	60.5	60.4	60.1
5	59.2	59.4	59.7	60.0	60.1	60.2	60.4	60.2	59.9	59.6	59.1	58.8	58.5
6	57.9	58.6	59.0	59.6	59.8	60.0	60.1	60.1	59.9	59.7	59.5	59.1	58.8
7	58.1	58.5	58.7	59.1	59.5	59.6	59.6	59.4	59.1	58.8	58.4	58.3	—
8	—	—	—	—	—	—	—	—	—	—	—	—	59.4
9	61.2	61.7	62.7	63.3	64.0	64.3	64.5	64.5	64.3	64.1	63.8	63.6	63.4
10	63.6	63.7	63.9	64.0	64.0	64.0	63.7	63.6	63.5	63.0	63.1	62.8	62.6
11	63.4	63.8	64.6	65.2	65.6	66.0	65.8	65.8	65.7	65.5	65.4	65.3	65.3
12	66.1	66.8	67.5	68.1	68.7	68.9	69.4	69.4	69.3	69.0	68.5	67.7	67.5
13	64.9	65.1	65.3	65.6	65.7	65.9	65.8	65.8	65.7	65.5	65.0	64.8	64.3
14	63.4	63.7	64.0	64.2	64.3	64.4	64.7	64.6	64.5	64.2	63.8	63.5	—
15	—	—	—	—	—	—	—	—	—	—	—	—	61.4
16	61.9	62.5	63.1	63.7	64.0	64.4	64.5	64.4	64.0	64.0	63.9	63.7	63.5
17	62.4	62.7	63.0	63.4	63.7	63.8	64.0	64.0	63.8	63.7	63.3	62.8	62.6
18	62.1	62.5	62.7	63.0	63.4	63.5	63.3	63.1	62.8	62.5	62.2	61.9	61.7
19	61.0	61.1	60.9	61.0	61.1	61.1	61.4	61.2	61.0	60.8	60.4	60.3	60.1
20	59.5	59.6	59.7	60.0	60.0	60.1	60.2	60.1	59.9	59.8	59.5	59.2	58.8
21	58.7	59.3	59.9	60.7	60.9	61.2	61.0	61.0	60.8	60.7	60.6	60.3	—
22	—	—	—	—	—	—	—	—	—	—	—	—	61.4
23	62.4	62.7	63.0	63.2	63.3	63.4	63.6	63.5	63.4	63.1	62.7	62.6	62.5
24	62.7	62.8	63.4	63.6	63.7	63.7	63.4	63.1	62.7	62.5	62.1	61.8	61.7
25	61.4	61.7	61.7	61.8	61.9	61.9	61.7	61.6	61.3	61.0	60.9	60.8	60.5
26	60.7	61.0	61.0	61.4	61.6	61.6	61.7	61.6	61.3	61.2	61.0	60.8	60.6
27	60.9	61.5	61.7	62.2	62.7	63.0	63.3	63.1	62.9	62.7	62.6	62.1	61.6
28	61.5	61.8	62.3	62.5	62.8	62.9	63.0	62.9	62.7	62.6	62.1	61.8	—
29	—	—	—	—	—	—	—	—	—	—	—	—	59.7
30	61.6	62.2	63.2	64.0	64.6	64.9	65.2	65.2	65.0	64.7	64.4	63.9	63.7
31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	61.19	61.57	61.95	62.33	62.58	62.72	62.76	62.67	62.46	62.23	61.97	61.68	61.34

HORIZONTAL FORCE.

One Scale Division = .00018 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.

Mean Göttingen Time.	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.
Sept. 30	—	—	—	—	—	—	—	—	—	—	—	52.18
1	58.2	56.4	54.9	55.1	55.0	56.3	57.1	58.4	59.5	57.2	59.7	54.20
2	56.4	55.9	56.1	58.2	57.9	57.5	54.7	54.1	54.8	53.9	49.2	51.74
3	51.3	51.4	52.1	53.0	52.7	53.5	55.1	56.0	55.0	56.1	55.7	53.07
4	52.7	52.4	54.4	54.1	55.6	55.6	56.8	58.1	56.4	52.7	46.5	52.15
5	53.1	54.3	57.8	54.0	53.4	55.1	57.9	59.1	57.2	54.9	53.6	52.77
6	52.6	53.0	53.4	53.5	53.5	54.3	56.6	58.4	56.4	55.3	53.8	52.89
7	—	—	—	—	—	—	—	—	—	—	—	49.31
8	52.0	52.0	52.7	53.1	52.9	53.1	54.2	55.7	53.2	51.3	49.9	48.10
9	50.0	50.3	50.4	50.2	50.4	50.3	51.2	50.8	51.1	49.8	48.2	47.43
10	48.1	49.5	50.0	50.4	50.4	51.0	51.8	50.9	49.2	48.2	49.3	44.08
11	46.3	46.8	47.1	47.2	47.7	48.3	49.9	50.2	49.0	47.9	46.6	45.99
12	41.7	42.6	43.3	44.4	45.0	45.8	46.8	46.3	46.2	47.1	45.9	48.87
13	46.2	47.1	46.5	48.3	48.9	49.4	50.7	52.9	50.3	47.8	49.3	47.44
14	—	—	—	—	—	—	—	—	—	—	—	46.97
15	51.9	49.3	49.4	50.1	50.2	52.2	53.0	52.7	54.0	51.1	47.0	48.37
16	47.0	47.9	48.7	48.0	48.4	49.5	50.9	49.6	49.3	50.0	50.0	50.86
17	48.3	50.0	49.4	48.8	49.3	49.3	50.3	49.0	50.3	49.9	49.1	52.30
18	47.8	48.2	49.5	50.3	51.0	51.2	53.6	54.0	51.3	48.1	47.4	52.88
19	51.5	52.4	52.3	53.0	51.8	52.6	54.6	55.4	55.4	51.6	51.3	52.05
20	52.3	53.0	53.4	53.4	54.0	56.5	57.0	56.5	55.3	54.3	54.9	51.46
21	—	—	—	—	—	—	—	—	—	—	—	51.34
22	51.7	51.2	51.3	51.3	51.3	52.6	54.0	54.7	56.0	56.1	55.5	49.82
23	51.2	51.7	52.1	52.4	53.6	55.3	56.0	55.8	56.0	56.1	54.5	48.04
24	50.2	51.3	53.1	53.9	54.2	55.0	55.8	56.1	54.2	53.7	54.5	50.14
25	50.2	52.7	53.8	54.1	54.8	56.2	55.0	56.8	53.8	51.9	52.3	45.98
26	51.1	53.0	53.7	52.2	53.9	54.1	55.3	56.3	54.0	51.2	49.1	—
27	47.5	48.4	48.6	49.2	49.7	51.6	52.9	53.2	51.7	49.1	47.6	—
28	—	—	—	—	—	—	—	—	—	—	—	—
29	49.5	50.0	50.8	51.9	52.9	54.1	55.6	55.9	53.9	50.8	50.8	—
30	46.6	46.3	46.9	46.6	47.9	48.8	48.4	48.1	48.9	46.8	45.4	—
31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	50.21	50.66	51.22	51.41	51.78	52.66	53.66	54.04	53.17	51.65	50.66	50.02

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
Sept. 30	—	—	—	—	—	—	—	—	—	—	—	59.29
1	57.8	57.7	57.6	57.5	57.3	56.8	56.7	56.8	56.8	57.0	57.1	57.73
2	57.5	57.3	57.2	56.9	56.8	56.7	56.7	56.7	57.0	57.6	58.1	58.99
3	58.9	58.6	58.1	57.9	57.7	57.4	57.3	57.2	57.3	57.7	58.2	59.68
4	59.9	59.7	59.4	59.3	59.1	58.8	58.6	58.5	58.6	58.7	59.0	58.65
5	58.1	57.7	57.7	57.5	57.4	57.3	57.2	57.2	57.4	57.4	57.7	58.64
6	58.7	58.3	58.3	58.0	57.7	57.3	57.2	57.2	57.2	57.6	57.8	59.07
7	—	—	—	—	—	—	—	—	—	—	—	63.18
8	59.3	59.2	59.0	58.8	58.7	58.7	58.7	58.9	59.4	59.9	60.6	62.76
9	63.1	62.8	62.7	62.7	62.6	62.7	62.6	62.6	62.7	63.1	63.4	65.14
10	62.4	62.3	62.0	61.7	61.7	61.4	61.4	61.4	61.7	62.1	62.6	67.03
11	65.2	65.1	65.1	65.1	64.9	64.8	64.9	64.9	65.0	65.3	65.7	64.28
12	66.9	66.7	66.4	66.1	65.8	65.4	65.1	65.0	64.8	64.8	64.9	62.46
13	64.0	63.8	63.5	63.1	62.9	62.7	62.5	62.5	62.6	62.7	62.9	63.07
14	—	—	—	—	—	—	—	—	—	—	—	62.58
15	61.2	61.0	60.7	60.7	60.6	60.3	60.3	60.4	60.6	61.0	61.5	62.03
16	63.4	63.1	62.9	62.5	62.4	62.1	61.9	61.9	61.9	61.9	62.1	60.03
17	62.3	62.0	61.9	61.8	61.7	61.4	61.4	61.4	61.4	61.7	61.8	58.69
18	61.7	61.7	61.6	61.6	61.5	61.1	60.9	60.9	61.0	61.0	61.1	60.88
19	59.7	59.5	59.4	59.1	58.9	58.7	58.5	58.6	58.7	59.0	59.2	62.45
20	58.6	58.4	57.7	57.6	57.0	56.7	56.7	56.8	57.2	57.4	58.0	62.00
21	—	—	—	—	—	—	—	—	—	—	—	60.92
22	61.4	61.4	61.3	61.2	61.1	61.0	61.0	61.1	61.5	61.7	62.0	60.56
23	62.4	62.2	62.0	61.7	61.6	61.3	61.2	61.2	61.5	61.8	62.4	61.43
24	61.6	61.2	61.3	61.1	60.8	60.7	60.6	60.6	60.7	60.9	61.2	61.00
25	60.4	60.3	60.3	60.2	60.1	60.4	60.4	60.4	60.4	60.4	60.5	63.72
26	60.5	60.3	60.3	59.9	59.7	59.6	59.3	59.3	59.6	60.0	60.5	—
27	61.3	60.9	60.5	60.3	60.2	59.9	59.7	59.8	60.0	60.5	61.0	—
28	—	—	—	—	—	—	—	—	—	—	—	—
29	59.6	59.4	59.4	59.3	59.2	59.1	59.3	59.5	59.7	60.1	60.8	—
30	63.7	63.4	63.5	63.5	63.5	63.1	62.8	62.8	63.0	63.4	64.0	—
31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	61.14	60.92	60.75	60.57	60.42	60.20	60.11	60.14	60.30	60.57	60.93	61.40

HORIZONTAL FORCE.														
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.														
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 .	12 ^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.	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	56.3	57.3	56.7	56.8	57.1	55.0	54.7	53.1	53.4	54.1	54.0	54.4	
	3	50.9	51.9	51.4	51.7	52.0	51.6	51.2	50.9	51.5	51.4	51.8	52.0	
	4	52.8	52.8	53.0	52.3	52.1	51.6	51.3	51.6	51.1	51.7	51.7	52.1	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	52.1
	6	52.5	52.7	52.8	52.1	52.0	51.4	52.0	52.2	52.1	52.1	53.0	53.2	53.3
	7	54.2	55.2	55.3	54.1	52.3	51.5	51.7	51.1	52.5	53.0	53.2	53.8	54.1
	8	55.0	54.7	55.0	55.2	54.3	54.0	55.1	55.0	55.0	55.8	55.5	56.5	56.9
	9	55.6	55.9	55.9	56.0	56.5	56.5	56.0	56.0	55.8	56.0	56.2	57.0	57.0
	10	57.1	57.4	57.8	57.3	56.7	56.0	55.9	55.9	56.0	56.1	56.3	56.3	56.8
	11	55.1	56.4	57.0	57.3	56.6	56.2	55.7	55.1	55.1	55.1	56.0	56.4	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	57.2
	13	58.3	57.5	57.4	56.5	52.0	51.3	50.8	51.4	52.8	54.0	54.2	54.8	55.2
	14	57.8	56.8	56.0	55.0	56.0	55.6	56.0	55.8	56.0	56.1	56.2	59.0	56.7
	15	57.3	56.7	56.1	54.8	55.1	55.8	55.3	55.6	55.2	54.7	56.1	56.1	56.1
	16	56.0	55.7	54.9	54.2	54.4	53.5	52.6	52.9	52.2	52.1	52.2	53.1	53.9
	17	53.6	53.8	53.7	53.2	52.8	52.6	53.1	53.1	53.1	53.1	53.4	54.0	54.7
	18	56.7	56.1	54.8	53.9	53.8	53.3	52.5	52.3	52.4	52.9	53.3	54.0	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	54.5
	20	55.7	56.0	56.0	56.0	55.0	54.8	54.1	53.7	53.8	53.8	54.0	54.5	54.6
	21	56.0	55.8	55.1	55.0	54.7	54.0	53.0	53.0	52.8	52.8	53.2	53.7	53.8
	22	51.9	52.1	52.8	54.0	54.2	53.8	53.8	53.5	53.8	54.8	55.0	55.3	56.0
	23	53.2	52.5	52.2	52.2	52.2	52.2	52.8	53.0	53.0	53.1	54.0	54.5	55.0
	24	57.8	54.4	55.0	54.8	54.0	53.8	54.4	53.9	53.5	52.6	53.6	54.5	54.3
	25	53.7	54.5	54.4	54.3	54.1	54.6	54.0	53.7	53.5	54.0	54.3	54.7	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	54.3
	27	53.2	52.4	52.5	53.0	53.4	53.9	54.0	54.3	54.0	54.6	54.1	54.4	55.0
	28	56.1	56.0	55.5	55.3	54.7	54.5	53.8	52.8	53.7	54.7	55.0	55.9	57.9
	29	56.7	56.0	54.2	53.4	52.1	53.0	53.4	53.2	52.9	52.9	53.4	53.7	53.9
	30	55.3	54.9	53.3	52.6	52.9	52.6	52.8	52.2	52.1	51.2	51.8	52.3	52.8
Hourly Means	55.15	55.02	54.75	54.44	54.04	53.72	53.60	53.41	53.49	53.71	54.06	54.63	54.90	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	64.0	64.7	65.4	65.8	66.3	66.4	66.1	66.0	65.7	65.6	65.2	64.8	
	3	65.7	66.4	66.9	67.3	67.8	68.0	68.0	67.7	67.5	67.3	67.0	66.8	
	4	68.0	68.6	68.9	69.5	69.7	69.7	69.3	68.8	68.7	68.4	68.2	67.7	
	5	—	—	—	—	—	—	—	—	—	—	—	—	
	6	66.2	66.5	66.7	66.7	66.8	66.9	67.0	66.7	66.6	66.4	65.8	65.4	
	7	64.7	64.9	65.4	65.5	65.8	65.7	65.3	65.2	65.0	64.8	64.7	64.0	
	8	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.7	62.5	62.0	61.7	61.3	
	9	60.5	60.7	61.0	61.2	61.4	61.7	61.7	61.7	61.6	61.4	61.2	60.8	
	10	60.7	61.0	61.4	61.7	62.1	62.5	62.4	62.4	62.1	61.9	61.9	61.7	
	11	61.6	61.7	62.0	62.1	62.2	62.2	62.3	62.1	62.1	62.0	61.7	61.7	
	12	—	—	—	—	—	—	—	—	—	—	—	—	
	13	61.0	61.1	61.3	61.4	61.7	61.7	61.7	61.7	61.5	61.4	60.9	60.7	
	14	60.8	61.3	61.4	61.5	61.6	61.7	61.7	61.7	61.6	61.2	61.0	60.8	
	15	60.3	60.7	61.1	61.7	62.1	62.3	62.5	62.4	62.4	62.3	62.3	62.2	
	16	64.1	64.7	65.0	65.5	65.7	65.9	66.1	66.1	65.9	65.7	65.6	65.4	
	17	64.8	65.1	65.3	65.5	65.7	65.7	65.7	65.7	65.6	65.4	65.0	64.8	
	18	64.7	64.9	65.2	65.5	65.5	65.4	65.2	65.1	65.0	64.8	64.7	64.6	
	19	—	—	—	—	—	—	—	—	—	—	—	—	
	20	64.4	64.8	65.2	65.6	65.8	66.3	66.2	66.3	66.2	65.9	65.8	65.3	
	21	64.6	64.7	65.0	65.3	65.4	65.4	65.5	65.4	65.2	65.0	64.9	64.8	
	22	64.6	64.7	64.7	64.8	64.8	64.7	64.7	64.6	64.6	64.5	64.6	64.5	
	23	65.3	65.7	66.0	66.1	66.3	66.3	66.4	66.0	65.7	65.5	65.0	64.7	
	24	63.0	63.5	63.7	63.9	63.9	63.9	63.8	63.8	63.6	63.4	63.2	63.0	
	25	63.2	63.5	63.7	63.9	64.1	64.6	64.9	65.0	64.7	64.4	63.9	63.4	
	26	—	—	—	—	—	—	—	—	—	—	—	—	
	27	65.5	65.5	65.6	65.7	65.7	65.5	65.2	64.9	64.7 ^a	64.4	64.1	63.7	
	28	62.5	62.7	62.7	62.8	62.9	62.8	62.7	62.6	62.3	62.0	62.1	61.8	
	29	63.2	64.1	64.9	65.6	66.0	66.4	66.4	66.4	66.2	66.0	65.5	65.2	
	30	65.7	65.9	66.4	66.8	67.2	67.3	67.4	67.2	66.8	66.4	66.0	65.7	
Hourly Means	63.67	64.01	64.31	64.57	64.78	64.88	64.84	64.71	64.55	64.32	64.08	63.80		

^a New adjustment.

HORIZONTAL FORCE.													
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°, = .00028.													
Mean Göttingen Time.	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.	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	55.0	54.1	54.4	54.2	55.0	54.9	55.4	55.1	54.0	53.1	52.2	54.76
	3	52.2	52.3	52.5	53.0	53.3	54.3	55.1	54.8	54.2	53.9	53.3	52.47
	4	—	—	—	—	—	—	—	—	—	—	—	52.74
	5	52.2	52.8	52.6	52.7	53.7	54.4	55.2	54.8	54.2	53.6	53.3	
	6	54.0	54.2	54.7	54.7	54.8	55.1	55.9	55.8	54.2	53.0	53.3	53.38
	7	54.5	54.5	55.0	55.0	55.3	56.4	56.8	57.0	56.4	55.7	55.0	54.32
	8	57.8	57.7	58.0	58.7	58.6	58.7	59.9	58.8	57.2	56.7	56.1	56.51
	9	57.2	57.8	58.0	58.3	58.7	59.5	60.0	58.9	57.1	56.0	56.2	57.00
	10	56.9	57.1	57.8	57.7	58.1	59.1	59.6	59.0	57.3	56.0	55.2	57.06
	11	—	—	—	—	—	—	—	—	—	—	—	57.60
	12	58.3	59.2	59.8	60.7	60.8	59.4	60.1	59.7	59.5	58.4	57.4	
	13	56.0	57.7	57.2	58.0	58.7	59.1	59.7	59.1	59.0	58.9	58.1	56.15
	14	56.7	57.3	57.0	57.0	58.0	59.0	59.9	59.1	58.1	57.2	57.3	57.07
	15	56.6	57.8	57.1	57.1	57.4	58.8	58.9	58.2	58.4	57.0	56.1	57.01
	16	53.9	54.3	54.3	54.3	55.0	56.0	56.4	55.4	54.9	54.8	54.3	54.24
	17	54.3	54.5	55.0	55.2	55.8	56.8	56.9	56.0	56.1	55.6	56.1	54.44
	18	—	—	—	—	—	—	—	—	—	—	—	55.26
	19	54.9	55.0	55.5	56.0	57.2	58.7	59.5	59.0	57.8	56.3	55.9	
	20	55.2	55.8	56.3	56.0	56.8	57.8	58.1	58.0	57.0	57.0	56.9	55.70
	21	53.8	54.0	54.0	54.5	55.3	56.8	58.0	57.6	55.3	53.0	52.0	54.47
	22	56.1	56.1	56.0	56.1	57.5	58.4	58.5	57.5	56.8	55.4	54.1	55.15
	23	55.4	56.6	57.1	57.8	58.2	59.1	59.1	59.3	58.8	58.1	58.1	55.31
	24	54.9	55.1	55.6	55.9	56.2	57.0	56.7	55.8	54.7	53.6	53.6	54.82
	25	—	—	—	—	—	—	—	—	—	—	—	55.00
	26	54.7	55.3	55.0	55.0	55.5	56.3	57.1	58.0	57.8	56.4	54.7	
	27	55.2	55.8	55.5	55.5	56.3	56.8	58.0	59.0	59.8	59.0	57.9	55.32
	28	57.1	57.0	57.7	57.4	58.4	59.2	59.8	60.0	60.2	58.8	58.2	56.65
	29	53.5	55.0	54.1	54.3	55.8	56.2	56.1	56.1	56.0	56.2	56.2	54.51
	30	52.9	53.2	53.1	54.0	54.6	55.5	56.0	56.5	56.1	55.0	54.0	53.65
Hourly Means	55.17	55.61	55.73	55.96	56.60	57.33	57.87	57.54	56.84	55.95	55.42	55.22	

TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	64.4	64.3	64.1	63.8	63.7	63.7	63.7	63.7	63.9	64.6	65.1	64.83
	3	66.5	66.4	66.0	65.9	65.7	65.9	65.8	66.1	66.3	66.8	67.4	66.74
	4	—	—	—	—	—	—	—	—	—	—	—	67.53
	5	67.0	66.8	66.4	66.4	66.2	66.0	65.8	65.7	65.7	65.8	66.0	
	6	64.7	64.5	64.4	64.0	63.8	63.7	63.6	63.7	63.7	63.9	64.4	65.30
	7	63.8	63.7	63.8	63.7	63.7	63.3	63.3	63.3	63.2	63.0	62.9	64.32
	8	60.7	60.4	60.3	60.0	59.7	59.7	59.7	59.7	59.9	59.9	60.1	61.31
	9	60.5	60.3	59.7	59.7	59.5	59.2	59.2	59.2	59.7	59.9	60.4	60.54
	10	61.3	61.0	60.7	60.4	60.3	60.2	60.2	60.4	60.5	60.7	61.0	61.25
	11	—	—	—	—	—	—	—	—	—	—	—	61.62
	12	61.7	61.6	61.6	61.5	61.4	61.1	60.9	60.8	60.8	60.9	61.0	
	13	60.3	59.9	60.1	59.9	59.7	59.6	59.6	59.6	59.7	60.1	60.5	60.66
	14	60.2	60.0	59.8	59.7	59.4	59.3	59.3	59.3	59.4	59.5	59.7	60.51
	15	61.7	61.6	61.1	60.8	60.7	60.4	60.7	60.9	61.5	62.5	63.4	61.64
	16	64.9	64.7	64.3	64.2	64.0	63.7	63.7	63.7	63.8	64.3	64.6	64.87
	17	64.4	64.3	64.3	64.3	64.1	64.1	64.0	64.2	64.4	64.4	64.7	64.84
	18	—	—	—	—	—	—	—	—	—	—	—	64.18
	19	63.8	63.7	63.6	63.5	62.8	62.7	62.7	62.6	62.9	63.4	64.0	
	20	64.8	64.3	64.0	63.7	63.6	63.5	63.2	63.5	63.7	64.0	64.4	64.81
	21	64.6	64.6	64.2	64.0	63.9	64.0	63.9	63.8	63.8	64.0	64.4	64.63
	22	64.4	64.4	64.1	64.0	64.1	63.9	63.8	63.9	64.0	64.4	64.9	64.42
	23	64.2	63.8	63.6	63.4	63.2	63.0	62.9	62.7	62.7	62.7	62.9	64.52
	24	62.7	62.7	62.6	62.5	62.4	62.1	62.1	62.2	62.3	62.7	62.8	63.03
	25	—	—	—	—	—	—	—	—	—	—	—	64.58
	26	65.0	65.0	64.8	64.8	64.8	64.9	64.9	65.1	65.4	65.3	65.5	
	27	63.3	62.8	62.6	62.2	61.8	61.9	61.7	61.7	61.7	61.9	62.2	63.66
	28	61.5	61.4	61.0	60.8	60.7	60.7	60.7	60.8	61.3	61.9	62.7	61.88
	29	64.7	64.4	64.3	63.9	63.8	63.7	63.7	63.8	64.4	64.7	65.0	64.88
	30	65.3	65.0	65.2	65.1	64.7	64.6	64.7	64.8	65.1	65.7	66.2	65.83
Hourly Means	63.46	63.26	63.06	62.89	62.71	62.60	62.55	62.61	62.79	63.08	63.45	63.69	

^a New adjustment.

HORIZONTAL FORCE.														
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.														
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 .	12 ^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.	
DECEMBER.	1	53.3	52.9	52.0	51.2	49.5	48.6	48.0	48.2	49.0	50.3	50.4	50.8	
	2	49.0	49.4	46.7	45.9	47.0	48.0	48.9	48.7	48.6	48.9	49.4	50.0	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	51.3	51.5	51.6	50.6	50.2	50.8	50.9	50.8	51.0	51.1	51.2	52.1	53.0
	5	52.9	53.0	53.4	53.0	52.6	52.3	52.0	51.5	51.0	51.0	51.6	52.0	52.7
	6	50.0	50.2	51.1	52.0	52.0	51.9	51.8	51.7	51.7	52.3	52.8	54.7	54.1
	7	52.0	51.5	51.8	51.9	52.0	51.9	51.2	51.0	51.2	51.1	51.5	52.0	52.0
	8	51.5	50.7	50.1	50.2	48.8	47.6	46.7	44.3	44.7	47.1	48.9	49.3	50.7
	9	51.1	50.8	50.2	50.0	50.3	49.2	48.2	48.9	49.0	50.0	49.0	49.8	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	50.1
	11	49.5	48.6	47.5	47.5	47.8	46.8	47.0	46.5	48.5	47.5	47.0	48.7	49.9
	12	49.0	48.2	46.9	46.9	47.8	47.2	48.0	47.2	46.6	48.0	48.8	50.0	49.9
	13	50.5	49.7	48.6	48.0	48.7	48.2	48.0	46.0	46.1	46.4	47.0	49.0	48.0
	14	49.3	49.1	48.0	48.3	48.7	48.0	48.3	48.1	48.0	48.7	48.1	48.2	48.6
	15	49.9	50.0	49.7	49.1	49.5	49.2	49.7	50.1	50.2	50.8	50.9	51.8	52.1
	16	53.5	52.8	52.2	52.1	51.9	51.5	50.7	50.6	50.5	50.8	51.2	51.3	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	52.6
	18	52.5	52.8	51.9	51.5	51.6	51.0	50.1	50.1	50.2	51.1	51.7	52.3	52.5
	19	51.7	51.5	51.0	51.7	51.0	50.2	49.7	49.2	49.0	49.1	49.3	49.8	50.4
	20	48.5	48.0	47.8	48.0	47.3	46.5	46.0	46.0	46.1	46.6	47.2	47.2	48.0
	21	49.3	49.0	48.7	48.6	48.4	47.6	46.5	45.8	46.0	46.5	47.2	47.8	48.0
	22	49.2	48.8	48.6	48.8	49.3	48.6	48.0	47.9	47.7	48.1	48.2	48.6	48.7
	23	49.8	48.7	48.4	49.3	49.6	49.4	49.0	48.7	49.6	49.8	50.0	50.3	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	52.5
	25	52.8	51.5	51.3	51.7	51.2	50.6	49.8	49.1	49.1	49.2	49.5	49.6	49.8
	26	51.4	50.1	48.9	47.9	48.0	48.1	48.1	48.1	47.7	48.0	48.2	48.8	49.2
	27	48.3	48.0	48.9	49.0	48.6	46.7	45.1	44.4	45.8	47.0	47.1	48.1	48.8
	28	50.5	49.6	46.5	45.4	46.5	47.9	47.1	47.0	47.8	48.5	48.8	49.4	50.8
	29	53.6	53.2	51.1	50.2	50.0	50.1	50.0	49.2	49.0	49.5	49.0	49.0	49.6
	30	50.0	49.4	48.3	48.3	48.1	48.8	48.8	47.8	46.9	47.3	47.5	48.0	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	49.0
Hourly Means	50.79	50.35	49.66	49.50	49.48	49.10	48.75	48.34	48.50	48.98	49.29	49.93	50.50	
TEMPERATURE OF THE MAGNET.														
	1	2	3	4	5	6	7	8	9	10	11	12	13	
	66.9	67.4	67.9	68.5	68.7	69.0	69.0	68.7	68.5	68.2	67.9	67.4	67.3	
DECEMBER.	1	66.9	67.4	67.9	68.5	68.7	69.0	69.0	68.7	68.5	68.2	67.9	67.4	67.3
	2	68.8	69.1	69.5	69.6	69.7	69.7	69.4	69.3	69.0	68.5	68.5	68.1	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	66.7
	4	66.3	66.7	66.8	67.1	67.3	67.4	67.4	67.1	66.7	66.3	66.0	65.7	65.4
	5	65.2	65.4	65.6	65.8	66.1	66.2	66.2	66.2	66.0	65.8	65.5	65.3	65.1
	6	64.9	65.5	65.7	65.7	65.7	65.7	65.5	65.2	64.9	64.7	64.5	64.2	64.0
	7	65.7	66.3	66.9	67.3	67.5	67.6	67.4	67.0	66.8	66.7	66.4	66.4	66.3
	8	67.4	67.7	67.9	68.1	68.4	68.2	68.2	68.0	67.7	67.4	67.0	66.6	66.5
	9	66.5	66.9	67.4	68.0	68.4	68.7	68.8	68.7	68.7	68.5	68.3	67.9	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	68.0
	11	68.0	68.3	68.8	69.5	69.8	70.3	70.5	70.6	70.4	70.3	70.1	69.7	69.4
	12	68.7	68.8	69.4	69.6	69.7	69.8	69.9	69.9	69.8	69.5	68.9	68.7	68.1
	13	68.3	68.7	68.8	69.0	69.5	69.7	69.9	69.8	69.7	69.5	69.1	69.0	68.6
	14	68.7	68.9	68.9	69.4	69.6	69.7	69.7	69.7	69.4	69.3	69.1	68.7	68.5
	15	65.8	65.9	66.1	66.1	66.2	66.1	65.8	65.7	65.4	64.9	64.9	64.7	64.5
	16	65.2	65.7	66.3	66.7	67.2	67.4	67.4	67.3	67.1	66.6	66.1	65.7	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	64.7
	18	65.4	65.9	66.6	66.9	67.4	67.5	67.7	67.6	67.3	66.9	66.6	66.0	65.8
	19	67.3	68.2	68.8	69.5	69.9	70.4	70.5	70.2	69.9	69.7	69.4	69.1	69.1
	20	70.2	70.7	71.2	71.8	72.0	72.5	72.5	72.4	72.1	71.8	71.5	71.1	70.8
	21	71.6	72.0	72.4	72.7	72.7	72.7	72.7	72.2	71.8	71.5	71.3	70.9	70.7
	22	70.4	70.6	70.8	71.0	71.1	71.2	71.6	71.6	71.5	71.1	70.7	70.5	70.1
	23	69.3	69.3	69.4	69.4	69.4	69.3	69.1	68.5	68.1	67.7	67.0	66.7	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	64.9
	25	66.2	66.9	67.5	67.9	68.5	68.7	68.8	68.8	68.7	68.5	68.1	68.0	67.4
	26	68.7	69.4	69.8	70.4	70.7	70.7	70.7	70.7	70.3	70.1	69.7	69.5	69.2
	27	69.7	69.9	69.9	70.0	70.2	70.2	70.3	70.0	69.7	69.4	69.4	69.0	68.7
	28	66.5	66.7	66.7	66.9	66.9	67.0	66.9	66.7	66.5	66.1	65.7	65.4	65.1
	29	64.9	65.5	66.0	66.6	66.8	67.2	67.3	67.4	67.2	67.1	66.7	66.7	66.5
	30	67.3	68.0	68.6	68.9	69.3	69.6	69.6	69.4	69.0	68.9	68.6	68.4	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	68.0
Hourly Means	67.46	67.86	68.22	68.55	68.80	68.94	68.95	68.80	68.55	68.27	67.96	67.67	67.28	

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
DECEMBER.	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	50.6	51.3	52.3	53.2	52.5	52.9	53.1	53.3	52.2	50.4	49.2	51.01
	2	—	—	—	—	—	—	—	—	—	—	—	50.63
	3	51.7	52.0	52.4	53.0	54.0	55.0	55.0	54.7	53.2	51.3	50.9	52.73
	4	53.0	53.0	53.6	54.0	55.0	56.1	56.3	56.0	54.8	54.0	53.5	53.23
	5	52.8	53.5	53.5	54.0	55.0	56.0	56.9	56.6	55.4	53.0	51.9	53.49
	6	54.0	54.0	54.0	54.0	55.0	55.6	57.1	57.2	57.0	55.7	53.8	52.23
	7	52.4	52.5	53.0	53.0	53.4	53.8	54.0	53.7	53.0	51.9	51.6	51.83
	8	51.3	53.0	54.6	56.0	56.5	58.5	60.5	61.1	56.0	53.8	52.0	50.54
	9	—	—	—	—	—	—	—	—	—	—	—	49.10
	10	50.1	50.1	50.4	51.4	51.6	52.2	52.9	53.9	52.6	50.7	50.5	49.48
	11	48.8	50.6	—	—	—	51.6	53.4	52.5	51.3	50.3	49.9	48.68
	12	49.2	49.6	49.9	50.1	51.0	51.7	52.5	53.0	53.1	51.7	51.3	49.59
	13	48.3	49.0	49.0	49.2	49.8	50.0	50.2	50.0	49.4	49.7	49.6	51.88
	14	49.2	49.9	50.1	50.2	51.0	51.5	52.0	52.5	52.7	51.2	50.4	52.75
	15	52.0	53.0	52.7	53.3	53.7	54.2	54.7	54.5	54.6	55.0	54.4	52.44
	16	—	—	—	—	—	—	—	—	—	—	—	50.50
	17	53.2	53.5	53.8	54.1	55.0	55.5	55.8	54.6	54.0	52.9	52.0	48.16
	18	53.1	53.2	52.8	53.1	54.1	54.9	54.4	53.9	54.1	53.2	52.5	48.60
	19	50.5	51.0	51.0	51.2	51.5	52.1	52.2	51.5	50.2	48.9	48.4	49.22
	20	48.2	48.6	48.8	48.9	49.7	50.0	50.4	50.2	49.7	48.9	49.2	52.06
	21	48.8	48.9	49.3	49.5	49.5	50.1	50.0	50.7	50.5	50.0	49.7	51.02
	22	48.9	49.2	49.6	49.7	50.2	50.9	51.0	51.1	50.6	49.8	49.8	49.58
	23	—	—	—	—	—	—	—	—	—	—	—	49.07
	24	53.1	53.4	53.9	54.7	55.0	55.5	56.0	56.5	57.0	55.9	53.4	49.92
	25	50.0	50.6	50.7	51.2	51.8	52.3	52.8	53.0	52.8	52.0	52.1	50.60
	26	49.9	50.9	50.1	50.8	51.0	51.7	52.0	51.9	51.3	50.0	47.8	49.72
	27	49.1	50.0	50.0	51.0	51.4	51.8	52.0	53.0	52.5	50.6	50.4	50.60
	28	51.1	51.0	50.6	50.9	51.3	51.6	52.0	53.2	53.4	53.3	53.9	49.72
	29	50.1	50.2	50.3	50.9	51.0	51.6	51.5	51.6	51.9	51.2	50.5	50.60
	30	—	—	—	—	—	—	—	—	—	—	—	49.72
31	49.7	50.4	50.3	50.5	51.1	51.2	51.8	52.3	53.0	52.0	52.0	50.70	
Hourly Means	50.74	51.25	51.47	51.92	52.44	53.01	53.48	53.56	52.94	51.85	51.18	50.70	

TEMPERATURE OF THE MAGNET.

DECEMBER.	1	67.2	67.1	67.0	66.9	66.9	66.9	66.9	67.4	67.7	68.2	68.6	67.76
	2	—	—	—	—	—	—	—	—	—	—	—	67.33
	3	66.4	66.0	65.7	65.4	65.0	65.0	64.9	65.0	65.4	65.4	65.9	65.55
	4	64.9	64.7	64.3	64.2	63.9	63.7	63.7	63.9	64.0	64.7	64.9	65.17
	5	65.0	64.7	64.7	64.6	64.6	64.3	64.2	64.3	64.3	64.5	64.8	64.50
	6	63.8	63.7	63.7	63.7	63.5	63.2	63.4	63.6	63.8	64.4	65.0	66.47
	7	66.2	66.1	65.9	65.7	65.7	65.7	65.8	65.9	66.4	66.6	66.9	66.55
	8	66.0	65.7	65.5	65.0	64.9	64.7	64.7	64.9	65.2	65.7	65.9	67.50
	9	—	—	—	—	—	—	—	—	—	—	—	69.03
	10	67.7	67.4	67.1	66.7	66.5	66.4	66.3	66.5	66.7	67.0	67.4	68.40
	11	69.0	68.7	—	—	—	67.4	67.4	67.4	67.7	68.0	68.3	68.59
	12	67.8	67.7	67.5	67.3	66.9	66.8	66.9	67.1	67.4	67.5	68.0	67.84
	13	68.3	68.2	67.9	67.7	67.7	67.6	67.6	67.6	67.7	67.9	68.3	64.73
	14	67.9	67.6	66.9	66.6	65.9	65.7	65.6	65.5	65.5	65.6	65.7	65.30
	15	64.2	63.8	63.7	63.5	63.3	63.1	63.3	63.6	63.9	64.4	64.7	66.30
	16	—	—	—	—	—	—	—	—	—	—	—	69.06
	17	64.4	64.2	64.0	63.7	63.7	63.4	63.5	63.7	64.0	64.3	64.8	70.95
	18	65.7	65.7	65.7	65.6	65.5	65.4	65.5	65.7	65.9	66.3	66.7	71.05
	19	68.9	68.7	68.5	68.4	68.4	68.4	68.4	68.6	68.7	69.1	69.4	70.14
	20	70.6	70.4	70.0	70.0	69.7	69.8	69.9	70.0	70.2	70.6	70.9	66.62
	21	70.6	70.5	70.3	70.2	69.9	69.7	69.7	69.6	69.6	69.8	70.1	67.45
	22	69.8	69.7	69.3	69.1	68.9	68.8	68.8	69.0	69.3	69.1	69.3	69.30
	23	—	—	—	—	—	—	—	—	—	—	—	68.49
	24	64.7	64.7	64.6	64.5	64.4	64.0	64.1	64.4	64.7	65.1	65.5	65.46
	25	67.3	67.1	66.7	66.4	66.3	66.2	66.1	66.5	66.8	67.5	67.9	66.32
	26	68.9	68.7	68.6	68.3	68.0	68.1	68.1	68.2	68.4	68.8	69.3	67.96
	27	68.6	68.5	67.9	67.4	67.2	66.7	66.3	66.0	66.1	66.2	66.4	67.45
	28	64.9	64.7	64.5	64.2	64.1	64.0	64.0	64.1	64.2	64.5	64.7	66.32
	29	66.1	66.0	66.0	65.8	65.7	65.6	65.7	65.8	66.0	66.3	66.8	67.96
	30	—	—	—	—	—	—	—	—	—	—	—	67.45
	31	67.7	67.4	67.1	66.9	66.7	66.7	66.7	66.7	66.9	67.1	67.6	67.45
Hourly Means	67.02	66.83	66.52	66.31	66.13	66.05	66.06	66.19	66.40	66.71	67.07	67.45	

HORIZONTAL FORCE.														
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.														
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 .	12 ^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.	
JANUARY.	1	52.2	51.0	49.8	48.7	48.2	47.3	47.2	47.1	47.4	47.2	48.0	48.1	49.0
	2	51.9	49.0	47.0	47.2	46.9	46.9	46.6	45.0	43.7	45.0	45.9	46.3	46.8
	3	47.0	46.9	46.7	47.1	47.0	47.0	47.0	47.0	47.0	47.8	47.6	47.3	47.7
	4	49.9	49.1	48.4	47.8	48.6	48.7	47.7	48.0	46.3	45.4	44.3	44.7	46.1
	5	48.0	45.0	45.0	46.1	45.7	45.0	45.0	44.8	46.0	44.7	45.7	47.0	47.4
	6	47.2	47.2	46.9	46.0	46.0	47.0	46.6	47.6	47.3	48.7	48.0	47.6	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	51.1
	8	49.9	50.2	48.9	48.7	47.7	47.9	46.8	46.0	46.5	45.9	45.5	48.1	48.8
	9	48.0	47.0	46.2	46.1	45.7	45.2	44.0	43.9	44.8	45.0	44.3	44.8	45.2
	10	43.8	44.0	44.6	43.6	43.5	43.4	43.1	42.1	41.3	40.5	40.5	43.6	42.2
	11	42.3	41.0	40.6	41.8	42.8	42.9	42.8	42.1	42.0	42.4	42.4	43.3	43.4
	12	43.5	43.1	43.0	43.0	42.8	43.5	43.3	42.4	42.5	42.5	43.9	43.0	43.3
	13	43.4	44.3	44.2	44.9	44.7	44.7	44.0	43.8	43.8	44.3	44.6	45.1	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	47.2
	15	50.6	48.9	47.0	46.5	46.5	46.9	47.1	47.0	47.1	47.7	47.9	48.1	48.0
	16	48.6	48.8	48.1	47.2	46.1	46.0	46.0	46.0	46.1	46.5	47.2	47.7	47.8
	17	48.0	47.4	46.2	46.0	45.3	45.4	45.0	44.2	43.8	44.3	45.5	46.1	46.5
	18	43.2	48.9	49.0	47.7	44.9	43.4	43.6	44.7	44.8	45.0	45.3	45.4	46.1
	19	45.1	45.9	46.4	46.9	46.5	45.5	45.0	45.1	45.8	45.9	46.0	46.1	47.6
	20	47.8	47.2	46.5	45.8	45.7	45.2	44.9	44.5	44.0	44.0	44.7	44.8	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	46.4
	22	44.0	45.4	45.1	44.1	45.6	43.9	42.8	42.5	42.9	44.5	45.6	45.0	45.4
	23	43.8	43.0	43.1	43.5	44.0	44.1	44.0	42.9	43.0	43.9	45.0	45.9	46.1
	24	43.8	43.3	43.4	43.7	44.0	44.0	44.3	43.3	44.4	46.2	46.1	46.8	46.2
	25	42.2	40.8	39.6	41.3	42.3	43.2	43.1	43.3	44.9	45.0	46.1	45.8	46.8
	26	47.3	46.9	46.0	45.3	44.9	44.3	43.8	43.8	43.8	44.0	44.4	45.0	45.5
	27	47.8	47.8	47.3	46.8	46.1	46.1	46.3	45.4	44.8	44.7	45.8	47.0	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	47.0
	29	45.9	46.3	46.5	46.3	46.4	46.0	45.6	45.8	45.1	45.0	45.3	46.2	47.0
	30	48.4	48.0	47.9	47.1	46.5	45.9	45.0	45.8	45.3	44.9	45.2	45.6	45.8
	31	46.2	45.2	45.1	44.8	44.3	44.0	44.6	44.8	43.1	44.1	43.8	45.0	46.6
Hourly Means	46.66	46.36	45.87	45.70	45.51	45.31	45.01	44.78	44.72	45.00	45.40	45.91	46.56	

TEMPERATURE OF THE MAGNET.														
JANUARY.	1	67.9	68.3	68.7	69.2	69.6	69.8	70.1	70.0	69.7	69.5	69.1	68.8	68.6
	2	69.2	69.6	70.0	70.4	70.7	70.8	70.8	70.7	70.4	70.2	70.0	69.8	69.7
	3	70.3	70.5	70.7	70.8	71.1	71.1	71.1	71.0	70.7	70.4	70.0	69.7	69.4
	4	69.6	70.4	71.1	71.7	72.4	72.7	73.0	73.0	72.9	72.7	72.4	71.9	71.7
	5	70.0	70.2	70.6	70.7	70.9	71.2	71.0	70.9	70.7	70.4	70.2	70.0	69.6
	6	68.0	68.5	68.7	68.9	68.9	68.9	69.0	68.8	68.4	68.3	67.9	67.6	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	65.6
	8	66.5	67.1	67.7	68.7	69.2	69.8	70.0	69.9	69.8	69.7	69.6	69.4	69.3
	9	70.1	70.7	71.1	71.7	71.8	71.9	72.3	72.2	71.9	71.6	70.9	70.7	70.2
	10	72.7	73.7	74.4	75.2	75.8	76.2	76.7	76.7	76.5	76.1	75.7	75.7	75.0
	11	73.9	74.2	74.5	74.6	74.7	74.7	74.7	74.4	73.9	73.7	73.3	73.0	72.8
	12	73.6	74.1	74.6	74.7	74.9	74.9	75.2	74.9	74.5	74.2	73.7	73.5	73.0
	13	72.9	73.4	73.5	73.6	73.6	73.5	73.5	73.0	72.7	72.5	72.2	71.8	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	69.4
	15	69.2	69.5	70.0	70.2	70.3	70.3	70.6	70.4	70.0	69.6	69.2	68.7	68.4
	16	69.6	70.1	70.8	71.4	71.5	71.6	71.5	71.3	70.9	70.7	70.4	70.0	69.7
	17	70.6	71.2	71.5	71.7	72.0	72.1	72.5	72.4	72.0	71.7	71.2	70.8	70.7
	18	70.7	71.4	71.7	72.1	72.4	72.6	72.6	72.4	72.1	71.7	71.0	70.8	70.6
	19	69.9	70.3	70.3	70.7	70.9	71.0	70.7	70.6	70.1	69.7	69.7	69.5	69.6
	20	70.0	70.8	71.7	72.3	73.0	73.3	73.7	73.7	73.7	73.5	72.8	72.7	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	71.0
	22	71.1	71.4	71.9	72.2	72.5	72.6	72.6	72.3	72.0	71.7	71.3	71.1	70.9
	23	71.7	72.2	72.7	73.1	73.4	73.3	72.9	72.6	72.4	72.1	71.8	71.7	71.6
	24	72.0	72.4	72.3	72.4	72.4	72.4	72.4	72.1	71.9	71.7	71.5	71.4	71.2
	25	70.3	70.7	71.1	71.3	71.5	71.7	71.7	71.7	71.4	71.0	70.7	70.7	70.1
	26	70.5	71.0	71.6	71.9	72.4	72.5	72.2	72.2	71.9	71.7	71.2	70.8	70.3
	27	68.6	68.8	69.5	69.7	69.9	70.0	70.1	69.8	69.3	68.8	68.6	68.4	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	68.3
	29	67.6	68.0	68.3	68.8	69.1	69.2	69.1	69.0	68.8	68.7	68.4	67.8	67.6
	30	67.9	68.7	69.6	70.2	70.7	71.3	71.4	71.4	71.3	71.1	70.7	70.6	70.3
	31	70.2	70.7	71.5	71.9	72.6	72.7	72.7	72.7	72.2	71.7	71.2	70.8	70.4
Hourly Means	70.17	70.67	71.11	71.49	71.79	71.93	72.00	71.86	71.56	71.29	70.91	70.66	70.19	

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00029.

Mean Göttingen Time.	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.	
JANUARY.	1	49.1	49.4	49.9	49.9	50.0	50.8	51.3	52.3	52.8	53.8	52.3	49.70
	2	47.0	47.1	47.6	47.6	48.3	49.0	49.3	49.2	48.4	48.4	47.6	47.40
	3	48.5	48.7	48.7	49.0	49.3	49.7	50.1	50.7	50.2	50.8	51.0	48.33
	4	47.8	49.3	48.9	49.0	50.0	50.1	50.5	52.1	51.3	51.3	49.3	48.53
	5	47.5	48.4	48.5	49.1	50.0	50.0	49.7	50.0	50.5	50.4	48.5	47.42
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	50.8	51.3	51.1	51.2	52.0	52.0	52.0	51.5	51.0	50.1	49.2	49.14
	8	48.8	48.1	48.3	48.3	48.5	48.6	50.1	50.1	49.8	49.0	48.4	48.29
	9	45.8	46.3	47.2	48.0	48.0	47.8	47.8	47.7	47.0	44.2	42.9	45.95
	10	41.9	42.1	42.3	43.0	44.2	45.0	45.9	46.0	44.3	43.5	43.0	43.23
	11	43.7	43.7	44.1	44.6	45.0	45.3	45.9	45.6	44.7	44.2	43.3	43.38
	12	44.0	45.1	45.1	45.9	46.0	45.8	45.5	46.0	46.0	45.0	43.7	44.07
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	47.3	48.1	48.4	48.7	49.7	49.8	50.3	51.2	51.0	50.4	50.4	46.85
	15	48.0	47.6	48.0	48.3	48.5	48.9	49.0	49.2	48.1	48.1	48.8	47.99
	16	48.1	48.3	47.9	48.0	48.6	49.3	49.5	49.6	49.0	49.3	48.5	47.84
	17	46.8	47.0	47.2	47.5	48.6	49.6	49.0	48.2	47.0	46.6	47.7	46.62
	18	46.6	46.8	47.0	47.1	47.4	48.0	47.1	46.0	44.7	43.8	44.7	45.88
	19	47.1	47.2	47.8	48.5	49.6	50.8	50.6	49.1	47.7	48.6	48.1	47.20
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	47.8	47.1	46.5	46.6	47.1	48.0	48.2	47.3	45.3	44.3	43.8	45.98
	22	46.3	47.3	48.0	48.0	48.1	49.5	49.2	48.0	46.0	45.8	45.0	45.75
	23	46.1	46.7	47.2	48.2	47.8	48.0	49.0	48.4	46.3	45.0	44.0	45.38
	24	47.3	47.3	47.5	47.5	45.6	47.4	47.0	46.7	45.0	44.4	43.1	45.35
	25	46.5	46.8	46.8	45.9	47.0	48.3	48.5	49.0	48.3	46.8	46.8	45.21
	26	45.9	46.5	46.9	47.2	48.0	49.3	49.8	50.1	49.9	47.7	48.1	46.43
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	47.7	48.0	48.2	48.8	48.9	49.5	49.5	49.5	48.1	46.1	45.9	47.21
	29	47.7	47.7	48.0	47.8	48.7	48.8	49.1	49.1	47.8	47.8	47.6	46.98
	30	45.9	45.8	46.1	46.2	47.0	47.4	47.5	47.3	46.6	46.8	46.5	46.44
	31	47.2	48.0	50.0	50.9	53.4	52.1	51.5	51.0	50.8	50.5	48.8	47.32
Hourly Means	46.93	47.25	47.53	47.81	48.35	48.85	49.00	48.92	48.06	47.51	46.92	46.66	

TEMPERATURE OF THE MAGNET.

JANUARY.	1	68.4	67.9	67.6	67.3	66.9	67.1	67.1	67.3	67.6	68.2	68.7	68.48
	2	69.5	69.4	69.1	68.9	68.7	68.7	68.7	68.8	69.0	69.6	69.9	69.69
	3	69.1	68.9	68.8	68.7	68.6	68.5	68.5	68.6	68.7	68.8	69.3	69.72
	4	71.1	70.9	70.8	70.6	70.4	69.9	69.7	69.4	69.4	69.4	69.7	71.12
	5	69.4	69.2	68.9	68.7	68.5	68.6	68.5	68.4	68.2	67.9	67.9	69.60
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	65.5	65.3	64.9	64.9	64.7	64.8	64.8	65.0	65.2	65.5	65.9	66.83
	8	69.0	68.9	68.7	68.4	68.2	68.1	68.1	68.4	68.7	69.0	69.4	68.82
	9	69.9	69.7	69.7	69.6	69.6	69.2	69.5	69.7	70.3	71.0	71.8	70.71
	10	74.8	74.6	74.4	73.9	73.6	73.2	72.9	73.0	73.0	73.3	73.5	74.60
	11	72.4	72.3	71.9	71.7	71.7	71.7	71.7	71.9	72.3	72.5	72.9	73.14
	12	72.7	72.4	71.9	71.7	71.7	71.4	71.4	71.7	72.0	72.4	72.7	73.24
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	69.0	68.8	68.4	68.1	68.0	67.7	67.7	67.7	68.1	68.2	68.7	70.67
	15	68.2	68.0	67.9	67.7	67.6	67.4	67.4	67.6	68.0	68.2	68.7	68.88
	16	69.7	69.5	69.6	69.4	69.3	69.1	69.0	69.1	69.5	69.7	70.2	70.15
	17	70.3	70.1	69.6	69.2	69.0	68.7	68.7	68.7	68.9	69.6	70.0	70.55
	18	70.4	70.0	69.7	69.5	69.1	69.0	69.0	69.0	69.1	69.5	69.7	70.67
	19	68.9	68.7	68.4	68.3	68.1	67.8	67.8	67.9	68.3	68.7	69.6	69.40
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	70.8	70.7	70.5	70.4	70.2	70.0	70.0	70.0	70.1	70.3	70.6	71.49
	22	70.7	70.4	70.6	70.4	70.2	69.8	69.8	70.0	70.4	70.7	71.1	71.15
	23	71.5	71.3	70.9	70.8	70.8	70.9	70.9	71.0	71.4	71.5	71.7	71.84
	24	70.9	70.7	70.4	70.2	70.0	69.7	69.4	69.3	69.4	69.6	69.8	71.06
	25	70.0	69.8	69.7	69.6	69.4	69.2	69.2	69.3	69.4	69.9	70.2	70.40
	26	70.0	69.5	69.3	68.9	68.6	68.0	67.8	67.8	67.8	67.9	68.1	70.16
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	67.8	67.6	67.2	66.9	66.7	66.7	66.6	66.5	66.6	66.7	67.0	68.17
	29	67.4	67.2	67.0	66.7	66.5	66.4	66.3	66.5	66.7	66.9	67.5	67.73
	30	70.0	69.8	69.7	69.6	69.5	69.1	68.9	68.9	69.0	69.4	69.7	69.95
	31	70.1	69.8	69.7	69.5	69.4	68.8	68.8	68.8	68.9	69.2	69.4	70.57
Hourly Means	69.91	69.68	69.46	69.24	69.07	68.87	68.82	68.90	69.11	69.39	69.77	70.33	

HORIZONTAL FORCE.														
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.														
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 .	12 ^h .	
FEBRUARY.	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.	
	1	46.0	45.3	45.4	44.7	43.3	42.5	40.3	41.0	42.3	46.2	44.7	44.6	45.3
	2	48.7	47.2	46.7	46.5	46.0	44.9	43.0	42.9	43.2	44.6	45.5	45.1	45.0
	3	44.7	44.8	45.0	44.2	44.3	44.2	44.2	42.4	43.8	43.3	43.1	44.1	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	43.8
	5	43.2	41.3	43.5	43.8	42.1	42.0	39.9	38.1	39.8	38.8	39.9	40.2	41.5
	6	43.5	43.7	43.0	42.3	42.9	42.8	41.8	43.2	43.0	43.1	45.2	44.2	44.2
	7	44.3	43.3	43.3	43.6	44.0	43.3	43.2	43.3	43.9	42.2	44.2	42.3	43.2
	8	43.8	43.6	43.5	43.4	43.2	41.8	43.0	41.6	43.3	45.0	45.7	46.9	46.5
	9	49.9	48.8	48.1	47.6	47.5	47.8	48.0	47.7	47.7	47.8	48.0	48.1	48.3
	10	50.4	49.6	48.5	48.1	48.5	48.8	48.8	48.8	48.2	48.8	47.4	47.3	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	48.8
	12	48.9	48.9	49.1	48.9	48.0	47.3	46.7	46.7	46.7	47.5	47.5	47.8	48.1
	13	48.6	47.9	47.4	47.1	46.8	46.4	46.3	45.8	45.9	45.8	46.0	46.1	47.5
	14	48.3	47.4	46.8	46.2	45.9	46.1	46.0	46.0	46.0	46.8	47.0	47.2	47.7
	15	47.0	47.0	46.1	46.2	45.2	44.2	44.3	44.8	44.8	45.0	45.0	45.6	46.4
	16	47.7	47.0	46.2	45.3	44.5	44.8	44.8	44.7	44.3	44.2	44.4	44.4	44.7
	17	47.5	46.4	45.0	44.1	44.1	44.2	43.8	43.1	43.1	43.3	45.7	44.3	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	45.2
	19	44.8	44.6	44.4	43.6	44.1	44.8	45.0	44.8	45.2	45.5	45.6	46.0	46.5
	20	48.7	48.9	48.3	48.0	48.0	47.4	46.7	46.6	46.7	47.0	47.9	48.2	48.6
	21	46.1	45.0	44.4	44.3	44.5	44.5	44.0	43.3	43.1	43.5	44.0	44.2	44.3
	22	44.5	44.2	43.9	43.6	43.2	43.1	42.2	41.1	40.7	40.3	41.8	42.8	43.5
	23	42.8	42.2	42.0	41.4	41.6	42.5	42.9	42.8	42.8	42.8	42.8	43.0	43.4
	24	45.8	44.5	43.8	43.0	42.3	42.2	43.0	43.4	43.6	43.7	43.8	43.9	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	43.5
	26	44.0	43.9	43.3	42.5	42.4	42.6	42.7	42.6	42.6	42.7	42.8	43.0	43.6
	27	42.0	41.2	41.2	41.8	42.0	41.8	41.8	41.6	41.8	42.1	42.3	42.9	43.0
	28	41.3	41.0	41.0	41.5	41.8	43.8	42.9	39.4	36.2	36.0	36.5	35.5	38.8
29	37.9	37.3	37.6	38.0	38.0	38.0	36.8	35.1	36.2	36.5	37.5	38.5	38.6	
Hourly Means	45.62	45.00	44.70	44.39	44.17	44.07	43.68	43.23	43.40	43.70	44.17	44.25	44.80	
TEMPERATURE OF THE MAGNET.														
FEBRUARY.	1	69.7	70.0	70.2	70.5	70.7	70.7	70.7	70.5	70.0	69.6	69.0	68.5	68.2
	2	67.8	68.5	68.7	69.0	69.6	69.8	70.1	70.2	70.0	69.9	69.7	69.4	69.1
	3	68.5	69.1	69.8	70.3	71.0	71.3	71.7	71.7	71.7	71.6	71.6	71.5	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	72.0
	5	71.5	72.2	72.7	73.3	73.7	74.1	74.6	74.6	74.5	74.3	73.7	73.5	72.7
	6	70.7	70.9	71.3	71.5	71.6	71.6	71.0	70.8	70.7	70.5	70.3	70.1	70.0
	7	69.4	69.5	69.9	70.2	70.5	70.7	70.9	71.1	70.9	70.8	70.7	70.3	70.1
	8	68.7	68.7	68.7	68.6	68.3	68.2	68.1	67.8	67.4	67.2	66.9	66.7	66.5
	9	65.5	65.7	65.9	66.1	66.2	66.2	66.2	66.1	65.9	65.7	65.6	65.5	65.2
	10	64.0	64.3	64.4	64.8	65.0	65.1	65.4	65.3	65.0	64.9	64.3	64.1	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	64.6
	12	64.7	65.3	66.0	66.5	66.8	67.1	67.1	67.1	66.9	66.5	66.4	66.1	66.0
	13	66.7	67.5	68.1	68.6	68.9	69.2	69.6	69.7	69.7	69.6	69.1	68.9	68.7
	14	68.3	68.5	69.0	69.5	69.7	70.0	69.9	69.9	69.9	69.7	69.6	69.4	68.8
	15	67.4	67.7	67.9	68.1	68.5	68.7	68.7	68.4	68.2	67.9	67.8	67.6	67.4
	16	68.3	69.0	69.9	70.6	71.3	72.0	72.4	72.3	71.8	71.6	70.9	70.7	70.5
	17	70.1	70.8	71.6	72.2	72.7	72.9	72.8	72.7	72.5	71.9	71.5	71.2	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	71.2
	19	71.6	71.7	71.7	71.7	71.5	70.9	70.8	70.4	70.1	69.7	69.3	69.1	68.7
	20	67.5	67.7	68.2	68.5	68.7	68.8	68.8	68.7	68.4	68.3	68.2	68.0	67.8
	21	69.8	70.6	71.2	72.0	72.4	72.9	73.0	73.1	72.8	72.6	72.5	72.1	71.8
	22	71.9	72.6	73.1	73.6	73.7	73.9	73.9	73.7	73.3	73.0	72.7	72.1	71.9
	23	71.8	72.5	72.8	73.3	73.7	73.7	73.7	73.6	73.2	72.9	72.7	72.5	72.2
	24	72.0	72.7	72.9	73.3	73.7	73.7	73.9	73.7	73.6	73.4	73.2	73.0	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	73.7
	26	73.4	73.7	74.2	74.7	74.9	75.0	74.7	74.5	73.9	73.7	73.7	73.6	73.4
	27	73.6	74.1	74.6	74.9	75.2	75.2	75.2	75.1	74.7	74.3	74.1	73.8	73.7
	28	73.7	74.5	75.0	75.5	76.0	76.3	76.6	76.5	76.3	75.8	75.6	75.5	75.2
	29	75.3	75.9	76.7	77.4	78.0	78.5	78.6	78.7	78.6	78.4	78.1	77.7	77.1
Hourly Means	69.68	70.15	70.58	70.99	71.29	71.46	71.54	71.45	71.20	70.95	70.69	70.44	70.26	

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.

Mean Göttingen Time.	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.	
FEBRUARY.	1	45·9	46·5	46·9	47·6	48·2	49·0	49·4	49·5	49·5	49·0	49·1	45·92
	2	45·7	45·7	45·7	46·0	46·3	48·0	48·0	47·3	47·1	46·9	45·2	45·88
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	44·0	45·0	45·7	45·5	45·4	45·6	45·6	45·2	44·2	44·3	44·4	44·45
	5	41·9	43·1	43·0	43·0	43·4	44·5	44·7	44·0	42·5	41·6	42·1	42·00
	6	44·0	44·6	44·3	44·7	44·8	45·5	46·2	46·2	45·6	45·3	44·7	44·12
	7	43·7	44·3	44·3	44·2	44·7	46·1	46·1	47·0	46·3	45·7	45·7	44·26
	8	47·0	48·7	48·9	47·7	48·0	49·0	49·4	49·5	49·5	50·0	50·3	46·22
	9	48·9	49·1	49·6	50·0	50·3	50·9	51·8	52·3	52·8	50·9	50·7	49·27
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	49·5	49·0	49·9	49·8	50·1	50·3	51·0	52·0	51·0	50·0	49·8	49·35
	12	48·1	47·9	48·1	48·5	48·9	49·5	50·4	49·8	49·0	48·4	48·9	48·32
	13	47·5	47·5	47·8	47·5	47·7	48·0	48·0	48·6	48·5	48·3	48·5	47·31
	14	48·0	48·9	49·1	49·1	48·8	48·9	49·7	49·4	49·0	47·0	46·6	47·58
	15	47·0	47·0	47·3	47·4	47·6	47·8	48·5	49·2	49·2	48·5	48·2	46·65
	16	44·9	45·8	46·1	45·7	46·8	49·0	48·0	49·1	48·8	49·3	48·8	46·22
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	45·7	45·6	46·0	46·0	46·1	46·3	46·3	46·0	44·7	44·7	44·2	45·06
	19	46·5	47·2	47·4	47·8	47·7	48·3	49·1	49·0	49·3	48·4	48·1	46·40
	20	49·0	49·0	49·0	49·1	49·0	49·3	50·1	49·8	49·2	48·9	47·2	48·36
	21	45·9	45·3	45·5	45·6	45·6	45·7	46·0	45·8	44·8	43·9	43·8	44·71
	22	43·7	44·0	44·2	44·2	—	45·0	45·9	45·9	44·2	43·4	43·0	43·41
	23	43·9	44·1	44·3	44·3	44·9	45·3	46·2	47·2	46·9	46·8	45·4	43·85
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	43·5	43·9	44·1	44·4	44·6	44·8	45·9	46·6	45·9	44·9	44·2	44·14
	26	43·9	44·0	44·1	44·3	44·2	45·0	45·9	46·4	45·5	44·1	42·5	43·69
	27	43·3	43·8	44·0	44·1	44·6	44·7	45·5	46·0	44·8	42·8	41·7	42·95
	28	39·8	40·1	40·2	44·3	42·8	43·8	44·4	44·3	43·5	40·6	39·2	40·78
	29	37·8	38·3	38·5	38·9	39·0	40·0	40·8	41·1	40·3	39·4	38·8	38·29
Hourly Means	45·16	45·54	45·76	45·99	46·23	46·81	47·32	47·49	46·88	46·12	45·64	45·17	

TEMPERATURE OF THE MAGNET.

	1	67·7	67·4	66·9	66·7	66·7	66·4	66·4	66·4	66·6	66·8	67·5	68·49
	2	68·7	68·5	68·0	67·6	67·4	67·2	67·0	67·0	67·4	67·6	67·9	68·59
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	71·8	71·6	71·3	71·1	70·8	70·6	70·3	70·3	70·3	70·7	71·2	70·91
	5	72·7	72·4	72·1	71·8	71·6	71·3	71·1	70·9	70·6	70·6	70·7	72·55
	6	69·9	69·7	69·8	69·7	69·6	69·3	69·0	69·0	69·0	69·2	69·3	70·19
	7	70·0	69·8	69·6	69·1	69·0	69·2	68·9	68·8	68·8	68·7	68·7	69·82
	8	66·0	65·7	65·3	65·1	64·7	64·5	64·4	64·4	64·4	64·7	65·1	66·50
	9	64·9	64·7	64·3	64·1	63·9	63·7	63·5	63·5	63·6	63·7	63·8	64·98
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	64·3	64·0	64·2	64·0	63·8	63·7	63·6	63·6	63·7	64·0	64·3	64·35
	12	65·8	65·7	65·7	65·6	65·5	65·1	65·1	65·1	65·4	65·7	66·2	65·98
	13	68·4	68·2	67·9	67·7	67·7	67·7	67·7	67·5	67·6	67·8	68·1	68·36
	14	68·6	68·4	67·7	67·5	67·2	67·0	66·8	66·7	66·7	66·9	67·2	68·45
	15	67·1	66·8	66·4	66·4	66·2	65·9	66·0	66·3	66·6	67·1	67·7	67·37
	16	70·2	69·9	69·8	69·6	69·4	68·9	68·8	68·8	68·9	69·3	69·7	70·19
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	71·1	71·1	71·4	71·3	71·2	71·0	70·8	70·7	70·9	71·0	71·4	71·50
	19	68·3	68·0	67·7	67·4	67·1	67·0	66·9	66·8	66·9	66·9	67·0	69·05
	20	67·7	67·6	67·5	67·3	67·3	67·3	67·5	67·7	67·8	68·6	69·1	68·04
	21	71·6	71·4	71·1	70·9	70·8	70·7	70·5	70·5	70·7	71·0	71·5	71·56
	22	71·7	71·6	71·5	71·1	—	70·7	70·7	70·7	70·7	71·0	71·5	72·20
	23	71·9	71·8	71·7	71·5	71·4	71·1	71·0	70·7	70·8	71·4	71·7	72·23
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	73·6	73·3	73·0	72·7	72·6	72·5	72·2	72·0	72·3	72·5	72·7	73·01
	26	73·0	72·8	72·6	72·3	72·0	71·9	71·8	71·8	72·1	72·5	72·8	73·29
	27	73·6	73·5	73·0	72·7	72·5	72·2	71·9	71·9	72·2	72·7	73·1	73·66
	28	74·7	74·6	74·5	74·2	73·8	73·5	73·1	73·0	73·3	73·7	74·7	74·82
	29	76·5	76·1	75·9	75·7	75·6	74·9	74·8	74·7	74·7	74·7	74·7	76·55
Hourly Means	69·99	69·78	69·56	69·32	69·08	68·93	68·79	68·75	68·88	69·15	69·50	70·10	

HORIZONTAL FORCE.														
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00029.														
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 .	12 ^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.	
MARCH.	1	38.8	38.5	38.3	38.6	39.3	40.0	39.0	39.9	40.4	41.4	41.3	42.9	
	2	46.8	45.5	43.9	43.1	44.6	44.3	43.8	43.1	42.8	44.9	45.0	45.8	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	43.5	42.0	41.5	40.1	40.7	42.6	42.3	41.6	43.7	42.0	43.9	44.2	43.1
	5	39.9	40.1	40.2	40.1	41.9	42.1	41.5	41.8	42.4	42.5	41.4	42.0	44.0
	6	37.1	37.5	37.9	35.0	36.7	39.3	38.8	39.2	40.3	41.2	42.5	42.3	42.9
	7	42.1	42.2	40.8	40.2	39.2	38.8	41.5	39.0	37.8	40.2	40.5	45.5	43.7
	8	42.7	41.0	40.0	40.0	39.2	39.7	38.1	37.7	38.4	37.8	40.5	39.2	39.1
	9	39.3	39.5	39.3	39.5	39.8	39.5	39.5	40.0	39.6	41.2	41.0	40.7	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	43.0
	11	43.1	42.8	42.5	42.3	41.8	41.7	42.0	42.0	42.0	42.1	41.8	41.0	41.7
	12	43.1	41.6	40.2	40.0	40.0	39.3	38.6	39.2	39.4	39.6	40.0	41.7	41.5
	13	42.3	42.0	42.0	41.9	42.0	41.8	42.0	42.1	42.1	42.7	42.0	42.7	43.0
	14	41.5	41.2	41.6	41.5	41.3	41.5	41.2	41.1	41.3	42.2	42.4	41.7	42.0
	15	42.3	41.0	40.9	41.0	41.1	41.3	41.5	41.3	42.0	42.4	42.9	43.2	43.9
	16	43.9	42.0	43.2	42.6	42.5	42.6	42.5	42.7	42.9	43.0	43.3	43.9	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	45.0
	18	45.7	44.7	44.3	43.6	44.1	42.9	42.0	41.1	40.2	40.9	41.1	40.8	41.7
	19	40.5	41.2	41.6	41.3	41.4	41.0	41.0	40.2	40.2	41.9	41.0	41.6	42.1
	20	40.9	40.6	41.1	41.8	42.4	42.8	42.4	42.3	42.5	42.0	42.5	44.0	44.3
	21	42.8	42.0	42.3	42.7	43.0	42.6	42.3	42.2	42.5	42.7	42.1	43.3	43.4
	22	43.3	43.9	44.3	44.4	44.5	44.6	44.1	44.0	43.9	43.8	43.4	44.7	44.7
	23	43.2	43.6	44.0	44.0	44.0	43.9	44.0	44.1	43.7	43.9	44.0	44.1	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	43.9
	25	46.3	45.5	45.2	45.7	45.5	45.0	45.0	44.1	44.0	44.0	44.5	45.0	45.1
	26	46.1	46.0	45.9	45.6	45.1	45.2	45.1	44.7	44.7	45.2	45.4	46.5	46.7
	27	45.9	45.5	45.7	45.6	45.3	45.3	44.0	42.0	42.9	42.8	43.1	44.0	44.1
	28	43.2	43.0	43.0	42.3	42.8	43.9	43.2	41.8	41.1	42.9	43.4	43.5	43.7
	29	43.2	43.3	42.2	43.0	41.2	41.8	41.9	41.8	42.4	40.8	38.6	38.0	36.5
	30	33.7	34.7	34.9	34.6	37.7	36.9	36.0	37.1	38.0	40.0	36.7	40.3	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	40.5
Hourly Means	42.35	41.96	41.80	41.56	41.81	41.94	41.67	41.39	41.58	42.08	42.09	42.79	42.88	
TEMPERATURE OF THE MAGNET.														
MARCH.	1	74.7	74.8	74.9	74.7	74.4	73.7	73.5	72.8	72.4	71.7	70.9	70.6	70.1
	2	67.2	67.7	68.3	68.7	69.2	69.3	69.5	69.0	68.9	68.7	68.7	68.5	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	70.2
	4	69.7	69.9	70.2	70.3	70.5	70.8	70.9	70.9	70.7	70.5	70.4	70.2	69.9
	5	68.9	69.0	69.4	69.6	69.7	69.7	69.7	69.6	69.4	69.3	69.0	68.8	68.7
	6	70.2	70.6	71.0	71.1	71.2	71.0	70.7	70.5	69.9	69.7	69.3	69.0	68.7
	7	68.6	69.0	69.7	70.2	70.7	71.0	71.3	71.3	71.4	71.2	71.0	70.9	70.7
	8	71.4	72.1	72.7	73.3	73.7	74.5	74.6	74.6	74.5	74.0	73.7	73.5	73.2
	9	72.2	72.5	72.5	72.8	73.0	73.0	73.2	73.0	73.0	73.0	72.9	72.7	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	70.0
	11	69.5	69.7	70.1	70.3	70.5	70.7	70.7	70.6	70.5	70.4	70.0	69.8	69.8
	12	70.7	71.6	71.8	72.5	72.9	73.2	73.3	73.3	73.2	73.1	72.8	72.6	72.5
	13	70.4	70.5	70.8	71.5	71.9	72.5	72.8	72.7	72.5	72.3	71.8	71.7	71.5
	14	72.0	72.6	73.0	73.3	73.7	73.9	73.7	73.7	73.3	73.0	72.7	72.5	72.2
	15	72.1	72.5	72.7	72.9	73.0	73.0	72.6	72.2	71.8	71.3	71.0	70.7	70.6
	16	69.8	70.0	70.4	70.8	71.0	71.1	71.0	70.7	70.5	70.3	69.7	69.5	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	69.8
	18	71.6	72.2	72.7	73.4	73.7	73.6	73.4	73.3	72.9	72.7	72.7	72.6	72.4
	19	71.6	71.8	72.3	72.6	72.7	72.7	72.6	72.5	71.9	71.7	71.2	70.9	70.7
	20	69.5	69.6	69.7	69.7	70.0	70.0	70.2	70.3	70.2	70.1	69.8	69.6	69.4
	21	69.0	69.6	70.0	70.3	70.7	70.9	70.7	70.7	70.4	70.2	70.3	70.2	70.0
	22	68.7	68.8	69.3	69.6	69.7	69.7	69.7	69.7	69.6	69.4	69.0	68.9	68.7
	23	68.2	68.4	68.9	69.5	69.7	69.8	69.7	69.7	69.7	69.6	69.6	69.2	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	69.7
	25	67.4	67.5	67.7	67.7	67.7	67.7	67.9	67.8	67.6	67.5	67.2	67.2	67.0
	26	66.7	67.2	67.4	67.7	68.2	68.4	68.4	68.5	68.3	68.2	68.0	67.7	67.7
	27	67.7	68.0	68.3	68.5	68.9	69.0	68.8	68.7	68.6	68.5	68.5	68.4	68.1
	28	68.0	68.7	69.4	70.1	70.5	70.9	71.1	71.0	70.8	70.7	70.3	70.0	70.0
	29	69.4	70.0	70.6	70.9	71.5	71.7	71.8	71.9	71.9	71.9	71.8	71.8	71.7
	30	71.1	71.3	71.4	71.4	71.5	71.5	71.6	71.4	71.3	71.0	70.7	70.4	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	69.2
Hourly Means	69.86	70.22	70.58	70.90	71.16	71.28	71.29	71.17	70.97	70.77	70.50	70.30	70.10	

HORIZONTAL FORCE.													
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00029.													
Mean Göttingen Time.	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.	
MARCH.	1	42.3	43.0	44.2	44.9	45.5	46.9	48.4	49.6	47.6	46.6	46.1	42.76
	2	—	—	—	—	—	—	—	—	—	—	—	43.98
	3	46.1	44.5	43.2	43.0	43.7	43.9	43.7	42.9	42.2	42.9	43.1	42.74
	4	43.1	44.8	44.7	44.0	44.3	43.5	44.2	42.8	41.8	41.0	40.3	42.55
	5	44.9	44.7	44.0	43.5	45.0	44.1	44.1	44.7	44.4	42.5	39.5	41.50
	6	44.0	44.0	43.9	44.0	44.5	44.2	45.8	45.4	44.6	43.1	41.8	41.83
	7	41.7	41.9	44.7	43.2	43.6	42.6	43.8	45.0	41.2	42.4	42.4	39.98
	8	38.9	41.0	41.0	40.0	40.2	40.5	41.4	41.3	41.0	41.0	39.8	41.80
	9	—	—	—	—	—	—	—	—	—	—	—	42.82
	10	42.9	42.9	43.0	43.0	42.9	44.1	44.9	45.2	44.6	43.8	43.9	41.26
	11	41.9	42.4	42.9	43.0	43.2	43.9	45.0	45.2	44.9	44.5	44.1	42.53
	12	40.5	41.2	40.9	41.1	42.1	42.8	44.3	44.6	43.7	42.9	42.0	42.52
	13	43.3	42.5	43.0	43.1	43.0	43.0	43.9	44.0	43.2	42.1	41.1	43.10
	14	42.3	42.7	42.8	42.8	43.0	43.5	44.4	45.1	45.8	44.6	43.1	44.40
	15	44.1	44.1	44.5	44.7	44.9	44.8	45.3	45.5	44.8	43.9	43.1	42.73
	16	—	—	—	—	—	—	—	—	—	—	—	42.07
	17	45.0	45.2	45.2	45.4	45.7	45.8	46.6	47.3	47.3	46.5	45.6	43.55
	18	42.0	42.8	43.0	43.6	43.2	44.3	44.7	45.0	43.7	41.0	39.0	43.43
	19	42.2	43.0	43.2	43.3	43.3	43.9	44.0	44.8	43.5	42.5	41.1	44.81
	20	44.6	44.5	45.0	45.1	45.5	46.0	46.6	46.9	45.2	43.2	43.0	45.00
	21	43.7	43.9	43.9	44.5	44.7	45.1	45.3	44.8	44.9	43.9	43.8	46.29
	22	45.0	45.1	45.3	45.5	45.8	46.3	47.0	47.0	46.2	45.0	43.6	45.09
	23	—	—	—	—	—	—	—	—	—	—	—	43.81
	24	44.1	44.4	44.2	45.0	45.3	47.0	47.4	49.0	48.4	47.5	47.3	40.72
	25	45.6	46.1	46.2	46.2	46.7	47.2	48.3	48.7	48.0	47.1	46.2	39.00
	26	46.4	46.6	46.9	47.0	47.1	47.2	48.0	48.2	48.2	47.0	46.1	42.98
	27	47.5	45.8	45.5	45.7	46.0	46.2	47.0	47.1	46.3	45.0	43.9	43.81
	28	44.0	44.4	44.7	45.0	45.6	45.6	46.4	46.9	45.4	43.3	42.3	40.72
	29	39.6	40.0	40.9	42.5	41.0	39.4	43.0	42.0	39.5	37.7	36.9	42.98
	30	—	—	—	—	—	—	—	—	—	—	—	41.80
	31	41.3	40.8	41.0	41.4	41.2	40.5	43.0	42.2	42.0	41.2	40.3	42.93
Hourly Means	43.35	43.55	43.76	43.87	44.12	44.32	45.25	45.43	44.55	43.55	42.67	42.93	

TEMPERATURE OF THE MAGNET.													
MARCH.	1	70.1	69.5	68.7	68.2	67.7	67.7	67.3	66.8	66.7	66.7	66.8	70.64
	2	—	—	—	—	—	—	—	—	—	—	—	69.05
	3	70.0	69.8	69.7	69.6	69.4	69.1	69.0	68.9	68.9	69.4	69.6	69.75
	4	69.7	69.6	69.2	69.1	69.1	68.9	68.7	68.7	68.7	68.7	68.8	69.10
	5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	69.0	69.3	69.7	69.05
	6	68.4	68.1	68.1	67.8	67.6	67.2	67.2	67.2	67.3	67.6	67.8	70.25
	7	70.6	70.4	70.0	69.7	69.7	69.6	69.2	69.3	69.7	70.2	70.7	72.87
	8	73.0	72.7	72.6	72.3	72.0	72.0	71.7	71.7	71.5	71.7	71.9	70.95
	9	—	—	—	—	—	—	—	—	—	—	—	69.90
	10	69.7	69.6	69.3	69.2	69.0	68.7	68.6	68.6	68.6	68.8	69.0	71.79
	11	69.7	69.7	69.5	69.5	69.3	69.4	69.3	69.2	69.4	69.7	70.2	71.41
	12	72.2	71.8	71.6	71.4	71.0	70.4	70.3	70.2	70.1	70.2	70.2	72.35
	13	71.4	71.2	71.0	70.8	70.8	70.8	70.7	70.7	70.8	71.1	71.6	70.84
	14	72.0	71.8	71.7	71.7	71.6	71.2	71.2	71.0	71.3	71.5	71.7	70.17
	15	70.4	70.0	69.7	69.4	69.3	69.0	69.0	68.8	69.0	69.6	69.6	72.05
	16	—	—	—	—	—	—	—	—	—	—	—	70.90
	17	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.9	70.1	70.4	71.2	69.26
	18	72.0	71.7	71.6	71.4	71.2	70.9	70.7	70.5	70.4	70.7	71.0	69.63
	19	70.4	70.2	69.9	69.7	69.6	69.6	69.5	69.4	69.3	69.3	69.4	68.65
	20	69.1	69.0	68.8	68.7	68.6	68.5	68.2	68.1	68.1	68.4	68.6	68.79
	21	69.9	69.7	69.4	69.2	69.0	68.7	68.6	68.4	68.3	68.3	68.5	66.87
	22	68.7	68.5	68.2	68.1	67.9	67.7	67.5	67.4	67.3	67.5	67.9	67.49
	23	—	—	—	—	—	—	—	—	—	—	—	67.88
	24	69.6	69.1	68.9	68.6	68.4	68.0	67.4	67.3	67.3	67.3	67.4	69.67
	25	66.7	66.7	66.5	66.1	65.9	65.7	65.7	65.7	65.7	65.8	66.4	71.21
	26	67.6	67.4	67.5	67.1	66.8	66.7	66.6	66.6	66.7	67.0	67.4	69.96
	27	68.0	67.7	67.4	67.3	67.1	66.8	66.7	66.7	66.7	67.0	67.7	69.30
	28	69.8	69.7	69.4	69.2	69.1	69.0	68.7	68.7	68.7	69.0	69.3	70.02
	29	71.8	71.6	71.5	71.3	71.1	71.0	70.9	70.6	70.7	70.8	70.9	69.96
	30	—	—	—	—	—	—	—	—	—	—	—	69.96
	31	69.0	69.0	68.7	68.7	68.6	68.6	68.6	68.5	68.5	68.5	68.6	70.02
Hourly Means	69.93	69.73	69.51	69.33	69.16	68.98	68.83	68.76	68.80	69.02	69.30	70.02	

HORIZONTAL FORCE.														
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00028.														
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 .	12 ^h .	
APRIL.	1	38.2	39.1	39.8	39.6	39.8	39.8	39.0	38.4	39.2	38.8	41.1	40.1	40.7
	2	41.4	41.6	41.5	41.0	40.7	41.0	38.1	41.4	39.3	42.3	42.0	42.5	43.0
	3	42.0	43.3	42.9	42.2	39.7	38.3	39.2	41.7	41.6	42.1	43.1	44.7	44.2
	4	41.9	43.0	43.7	43.2	42.9	43.3	43.2	42.6	43.1	42.8	43.5	43.6	45.4
	5	43.3	45.0	45.5	46.2	47.1	47.7	45.9	46.0	46.0	46.7	46.8	47.0	46.9
	6	45.0	45.2	46.0	46.1	46.1	45.6	45.7	45.6	45.6	45.7	48.0	48.0	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	45.5
	8	45.0	45.8	46.4	46.4	46.8	46.8	46.8	46.2	46.0	45.7	45.3	45.2	45.9
	9	47.8	47.7	47.1	46.1	46.0	46.1	46.2	46.6	46.5	46.3	46.0	45.5	46.0
	10	45.0	44.3	44.6	43.9	44.9	43.9	45.0	44.8	44.6	44.2	44.4	44.7	44.6
	11	44.5	43.8	43.5	43.3	43.0	42.6	42.3	42.2	42.1	42.3	42.3	42.6	42.7
	12	44.5	44.1	43.3	43.3	43.7	43.4	43.1	43.1	43.1	43.3	43.3	43.8	43.9
	13	44.5	44.9	44.9	44.8	45.1	45.1	45.1	44.8	44.9	44.8	44.9	45.0	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	46.0
	15	44.5	43.3	43.0	42.9	43.8	44.1	44.0	43.4	43.3	43.5	43.3	43.8	44.5
	16	46.2	45.2	45.3	45.2	44.6	43.6	43.2	44.0	44.2	44.7	44.9	45.4	45.6
	17	33.5	29.0	31.1	30.5	27.8	29.6	30.0	30.4	30.6	34.0	36.7	38.5	39.1
	18	47.8	47.1	46.2	46.2	46.4	45.3	45.5	45.0	44.4	44.3	42.6	43.3	43.2
	19	43.3	43.8	44.0	44.4	45.0	45.0	44.4	44.2	44.1	44.3	44.3	45.0	45.1
	20	42.8	43.6	44.7	45.2	45.9	46.6	46.2	46.3	46.1	46.7	47.0	47.2	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	49.2
	22	47.8	47.4	48.0	48.2	48.7	48.8	48.1	47.9	48.2	48.5	49.0	49.1	49.2
	23	49.9	49.9	49.0	48.4	49.0	49.0	49.0	48.6	48.9	48.7	48.4	49.0	49.0
	24	50.6	50.1	49.7	49.8	49.5	49.0	48.3	47.8	47.7	47.7	47.6	47.8	48.0
	25	48.5	48.3	45.8	43.1	44.9	46.0	43.4	42.1	42.4	44.0	45.1	45.0	47.1
	26	44.7	41.4	45.1	45.1	44.0	40.1	41.7	42.5	42.9	44.1	44.0	44.0	44.1
	27	43.3	44.3	44.5	44.0	44.8	44.0	43.0	45.0	44.1	44.1	44.1	44.2	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	45.7
	29	45.7	44.8	43.9	44.1	43.9	44.1	44.0	42.7	44.3	44.6	44.9	45.7	47.0
	30	46.9	45.6	46.4	46.4	46.3	46.4	45.8	44.7	44.9	44.3	45.2	47.0	47.6
	Hourly Means	44.55	44.29	44.46	44.22	44.25	44.05	43.70	43.77	43.77	44.17	44.53	44.91	45.35
TEMPERATURE OF THE MAGNET.														
APRIL.	1	68.7	68.9	68.9	69.0	69.3	69.5	69.4	69.3	69.2	68.9	68.7	68.5	68.3
	2	67.4	67.4	67.7	68.0	68.0	67.9	67.8	67.5	67.4	67.1	67.0	66.7	66.6
	3	65.3	65.5	65.8	66.1	66.2	66.2	66.2	65.9	65.7	65.6	65.3	65.0	64.8
	4	64.9	65.1	65.6	65.9	66.4	66.6	66.6	66.5	66.3	66.0	66.0	65.8	65.7
	5	64.5	64.5	64.5	64.5	64.5	64.3	64.4	64.3	64.0	63.7	63.3	62.8	62.4
	6	61.5	61.8	62.1	62.6	62.7	62.8	62.9	62.9	62.7	62.7	62.6	62.5	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	64.0
	8	64.7	64.9	65.0	65.5	65.8	66.0	66.2	66.1	66.2	66.0	66.1	65.9	65.7
	9	65.7	66.1	66.7	67.3	67.7	68.2	68.2	68.3	68.2	68.1	67.7	67.5	67.0
	10	66.9	67.4	68.2	68.8	69.2	69.5	69.7	69.7	69.7	69.7	69.7	69.8	69.7
	11	69.4	70.0	70.5	71.0	71.5	71.6	71.7	71.7	71.6	71.4	70.9	70.7	70.4
	12	69.9	70.2	70.3	70.4	70.6	70.7	70.7	70.6	70.1	70.0	69.9	69.7	69.6
	13	68.5	68.6	68.6	68.7	68.8	68.8	68.8	68.7	68.6	68.3	68.1	67.7	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	67.9
	15	67.2	67.5	67.7	68.2	68.4	68.5	68.3	68.2	68.0	67.7	67.5	67.4	67.1
	16	66.4	66.5	66.7	66.7	66.7	66.8	66.7	66.6	66.5	66.2	66.1	66.0	65.9
	17	65.9	66.2	66.6	67.0	67.3	67.5	67.7	67.6	67.3	66.7	66.2	65.9	65.3
	18	64.5	64.7	65.0	65.5	65.8	65.9	66.2	66.2	66.0	65.7	65.6	65.3	65.0
	19	64.9	65.1	65.4	65.7	65.8	65.8	65.7	65.7	65.7	65.5	65.6	65.5	65.4
	20	63.9	63.9	63.8	63.7	63.7	63.6	63.6	63.4	63.2	62.7	62.5	61.9	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	60.7
	22	60.7	61.1	61.6	61.8	62.4	62.6	62.4	62.5	62.0	61.7	61.7	61.4	61.2
	23	60.8	61.5	62.0	62.6	63.0	63.3	63.6	63.6	63.6	63.6	63.0	63.3	63.3
	24	62.9	63.6	64.0	64.4	64.7	64.9	64.9	64.8	64.7	64.7	64.7	64.6	64.5
	25	63.6	63.8	64.0	64.4	64.5	64.6	64.2	64.0	64.2	64.3	64.5	64.3	64.0
	26	63.2	63.6	64.0	64.6	64.8	65.3	65.2	65.3	65.3	65.3	65.2	65.1	65.0
	27	64.9	65.2	65.5	65.8	66.0	66.5	66.7	66.7	66.6	66.5	66.0	65.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	64.7
	29	64.0	64.1	64.6	64.6	64.6	64.6	64.4	64.4	64.3	64.3	64.3	64.4	64.2
	30	63.5	63.6	63.5	63.8	63.9	64.0	63.9	63.9	63.8	63.7	63.7	63.6	63.3
	Hourly Means	65.15	65.42	65.70	66.02	66.24	66.38	66.39	66.32	66.19	66.00	65.84	65.66	65.45

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00028.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
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	41.9	42.4	44.4	43.5	42.8	43.5	43.2	41.8	41.5	39.2	40.5	40.76
	2	43.9	44.0	44.3	44.7	45.2	44.3	44.9	44.4	40.9	39.8	39.0	42.12
	3	44.9	44.8	45.1	45.5	45.7	45.5	46.2	45.9	44.3	42.3	41.8	43.21
	4	45.0	46.0	45.1	46.1	46.3	46.5	46.8	46.7	46.3	45.5	44.6	44.46
	5	52.0	49.0	49.9	48.9	48.3	46.7	49.3	50.2	49.2	47.7	45.8	47.38
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	46.0	45.9	46.2	46.4	46.5	46.8	47.5	47.5	47.0	46.3	46.3	46.27
	8	46.0	47.0	46.8	47.0	47.0	47.3	47.8	48.2	48.2	48.6	48.6	46.70
	9	46.2	46.2	46.5	47.2	47.7	48.0	48.4	48.7	49.0	48.7	46.5	46.96
	10	44.7	44.4	44.1	44.5	44.9	45.0	45.7	46.4	46.2	46.0	44.9	44.82
	11	43.0	43.4	44.0	43.9	44.0	45.1	45.9	46.0	45.8	45.5	45.0	43.70
	12	44.0	44.2	44.4	44.7	45.0	45.4	45.9	46.4	46.3	45.9	45.0	44.30
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	46.3	46.8	46.6	46.1	47.0	47.4	46.8	46.1	45.2	45.0	45.0	45.55
	15	44.3	44.9	45.0	45.0	44.9	45.1	45.2	45.2	45.8	46.8	46.9	44.44
	16	46.0	48.1	48.0	47.9	47.8	52.8	49.7	45.6	42.2	37.4	36.3	45.16
	17	44.0	42.8	41.8	42.8	43.8	45.2	46.0	46.0	47.2	50.7	49.9	38.37
	18	43.5	44.3	44.7	44.8	44.6	44.8	45.4	45.7	45.2	45.2	44.2	44.99
	19	45.1	45.6	45.6	45.7	46.0	46.0	46.3	46.7	46.0	44.5	43.0	44.89
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	49.6	49.7	50.0	50.0	50.0	50.2	50.5	51.0	51.3	51.1	49.2	47.92
	22	49.7	50.0	50.7	50.7	51.1	51.8	52.6	53.0	52.9	52.8	51.8	49.83
	23	49.1	49.0	49.1	49.1	49.7	50.1	50.7	51.0	51.3	51.3	50.2	49.47
	24	48.7	48.4	48.2	48.1	48.2	48.5	49.7	50.4	50.9	51.0	49.0	48.95
	25	47.0	46.1	46.6	47.3	46.9	47.6	48.8	49.1	49.0	49.0	49.9	46.38
	26	46.0	45.9	45.3	45.3	45.6	45.7	45.4	46.7	46.0	45.3	43.5	44.35
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	45.8	45.9	45.9	46.1	46.2	46.7	47.6	47.8	47.8	46.5	45.8	45.30
	29	46.3	46.1	46.1	46.2	46.9	47.0	47.1	47.2	47.3	47.7	47.9	45.65
30	47.2	47.6	48.4	48.4	46.4	48.0	48.0	48.1	46.8	46.1	47.5	46.67	
Hourly Means	46.01	46.10	46.26	46.38	46.48	46.96	47.36	47.38	46.91	46.38	45.70	45.33	

TEMPERATURE OF THE MAGNET.

APRIL.	1	68.2	67.9	67.8	67.7	67.6	67.5	67.3	67.2	67.0	67.0	67.1	68.29
	2	66.3	66.0	65.7	65.5	65.2	64.9	64.8	64.7	64.7	64.8	65.1	66.43
	3	64.7	64.7	64.6	64.5	64.6	64.6	64.4	64.2	64.2	64.3	64.6	65.13
	4	65.6	65.5	65.4	65.1	65.0	64.8	64.6	64.6	64.5	64.6	64.5	65.48
	5	62.2	62.0	61.7	61.7	61.6	61.6	61.0	60.7	60.7	60.8	61.1	62.78
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	63.9	63.8	63.7	63.7	63.7	63.4	63.2	63.3	63.3	63.7	64.7	63.09
	8	65.6	65.5	65.2	65.1	65.0	64.8	64.7	64.7	64.7	65.0	65.4	65.41
	9	66.7	66.7	66.4	66.1	66.0	65.7	65.6	65.5	65.5	65.7	66.1	66.78
	10	69.7	69.7	69.6	69.6	69.3	68.7	68.6	68.4	68.4	68.6	69.0	69.07
	11	70.2	70.0	69.7	69.5	69.2	69.4	69.4	69.4	69.4	69.4	69.7	70.32
	12	69.5	69.5	69.3	69.1	69.0	68.9	68.7	68.6	68.4	68.5	68.5	69.61
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	67.7	67.6	67.2	67.1	67.0	66.7	66.7	66.6	66.6	66.6	66.7	67.78
	15	66.9	66.7	66.7	66.7	66.7	66.7	66.7	66.6	66.6	66.6	66.4	67.28
	16	65.8	65.7	65.7	65.6	65.6	65.2	65.3	65.4	65.5	65.5	65.7	66.03
	17	65.1	64.9	64.6	64.3	64.0	63.9	63.7	63.5	63.5	63.7	63.9	65.51
	18	64.7	64.7	64.6	64.5	64.4	64.5	64.5	64.5	64.6	64.6	64.8	65.08
	19	65.4	65.2	65.0	65.0	64.8	64.7	64.6	64.1	64.0	64.0	64.0	65.11
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	60.5	60.2	60.2	60.1	60.1	60.0	59.9	59.6	59.7	59.7	60.1	61.70
	22	60.9	60.6	60.4	59.9	59.6	58.9	58.7	58.7	58.8	59.6	60.0	60.80
	23	63.1	62.8	62.7	62.4	62.2	62.3	62.0	61.9	61.9	62.1	62.5	62.63
	24	64.5	64.4	64.2	63.9	63.7	63.5	63.4	63.4	63.4	63.4	63.4	64.11
	25	63.7	63.7	63.3	63.3	63.3	62.9	62.7	62.7	62.7	62.8	62.9	63.68
	26	64.9	64.9	65.0	64.9	64.8	64.4	64.3	64.2	64.2	64.3	64.4	64.67
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	64.7	64.7	64.7	64.6	64.6	64.2	64.1	64.2	64.0	64.1	64.0	65.20
	29	64.1	63.9	63.8	63.7	63.6	63.5	63.5	63.4	63.4	63.4	63.4	64.02
	30	63.1	62.7	62.6	62.1	61.6	61.3	60.7	60.5	60.4	60.4	60.6	62.67
Hourly Means	65.30	65.16	64.99	64.83	64.70	64.50	64.35	64.25	64.23	64.35	64.56	65.33	

HORIZONTAL FORCE.														
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00028.														
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 .	12 ^h .	
MAY.	1	47.8	48.0	48.2	47.5	47.1	47.1	46.7	47.6	48.0	47.1	47.0	46.9	47.0
	2	48.0	48.0	48.8	48.9	48.8	48.1	48.0	48.1	48.2	47.9	47.5	50.8	50.1
	3	48.6	48.0	48.0	47.2	44.2	44.4	44.3	44.8	44.9	45.9	46.2	46.6	46.8
	4	48.8	48.2	48.2	48.2	48.5	48.2	47.9	47.1	47.1	47.2	47.7	47.5	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	48.9
	6	48.0	47.9	48.0	48.6	47.4	47.7	47.0	46.8	48.1	47.9	47.8	48.6	48.6
	7	50.8	50.0	50.0	50.0	49.8	49.5	49.6	49.3	49.4	49.6	50.0	50.2	50.1
	8	50.9	50.0	50.0	50.3	50.3	49.6	48.9	49.0	48.4	47.7	47.2	50.1	49.0
	9	49.9	49.9	48.9	48.0	47.7	47.0	47.0	47.8	48.1	48.0	48.0	48.2	48.2
	10	51.3	50.8	50.2	49.9	49.4	47.4	48.9	49.3	49.1	49.2	49.4	49.5	49.4
	11	51.1	50.9	50.1	49.8	49.9	50.0	49.3	49.3	49.4	49.1	49.3	49.4	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	47.5
	13	50.8	50.2	49.3	48.9	49.0	48.8	48.2	47.9	47.8	47.6	47.3	47.9	48.1
	14	48.9	49.3	48.7	48.0	47.9	47.9	47.1	47.2	46.8	46.9	46.9	46.8	48.0
	15	49.9	49.1	49.0	47.5	47.1	46.7	45.3	45.3	45.3	45.3	46.0	46.3	46.2
	16	47.0	46.7	46.0	45.8	45.3	45.2	46.0	45.7	45.4	45.3	45.8	46.0	46.3
	17	48.6	47.8	47.3	47.4	47.3	47.2	47.0	46.9	46.5	46.5	46.7	46.9	46.9
	18	47.9	47.6	47.3	47.5	47.9	47.9	48.0	47.2	47.0	47.9	47.8	48.0	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	47.1
	20	49.0	48.8	48.9	49.0	49.1	49.0	48.6	48.3	48.3	48.2	48.7	49.0	49.2
	21	51.2	50.1	49.8	50.0	50.0	49.9	49.2	48.3	47.8	47.3	47.4	47.6	48.8
	22	50.5	47.1	46.2	47.1	47.8	48.3	48.1	46.1	46.1	45.9	44.9	45.8	46.5
	23	45.8	45.3	45.6	45.4	45.9	46.0	45.3	46.2	46.6	45.4	45.2	45.2	45.6
	24	47.5	46.2	44.9	46.0	46.1	47.0	47.0	45.8	45.0	45.4	47.2	47.0	46.2
	25	49.0	48.2	47.6	47.5	47.4	46.9	47.0	46.7	46.1	47.9	47.2	47.3	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	45.7
	27	48.8	47.1	46.2	46.5	47.0	46.8	46.3	45.7	46.7	45.7	46.0	45.9	46.5
	28	49.1	48.9	48.3	47.9	48.4	48.5	48.0	47.1	46.5	47.4	47.8	48.2	48.0
	29	51.0	50.2	49.8	49.5	50.0	50.0	49.5	49.0	48.6	49.0	48.8	48.7	49.3
	30	49.6	49.1	49.1	49.1	49.5	49.3	49.0	48.6	48.1	48.1	48.1	48.5	49.0
	31	50.6	50.1	49.8	50.2	51.0	51.0	50.6	50.7	50.0	49.5	49.8	50.1	50.8
Hourly Means	49.27	48.65	48.30	48.21	48.14	47.98	47.70	47.47	47.38	47.37	47.47	47.89	47.92	
TEMPERATURE OF THE MAGNET.														
MAY.	1	60.7	61.0	61.2	61.3	61.6	61.7	61.7	61.6	61.4	61.3	61.4	61.4	61.2
	2	60.7	61.0	61.2	61.7	61.8	61.8	62.4	62.4	62.2	61.9	61.7	61.3	61.1
	3	61.6	61.7	62.0	62.5	62.7	62.9	62.9	62.9	63.0	62.7	62.7	62.6	62.4
	4	60.4	61.0	61.6	62.1	62.7	63.0	63.5	63.4	62.9	62.7	62.2	61.8	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	61.7
	6	62.2	62.4	62.3	62.3	62.3	62.2	61.9	61.7	61.7	61.3	61.1	60.9	60.8
	7	59.4	59.5	59.7	59.8	59.9	59.9	59.7	59.6	59.3	59.0	59.0	58.7	58.6
	8	57.5	57.7	58.0	58.4	58.6	58.7	58.8	58.9	58.8	58.7	58.6	58.5	58.0
	9	58.2	58.6	58.8	59.2	59.7	60.1	60.2	60.5	60.6	60.5	60.6	60.5	60.2
	10	59.0	59.4	59.9	60.5	60.7	60.9	61.4	61.4	61.2	60.9	60.3	60.0	59.7
	11	58.0	58.7	59.0	59.7	59.9	60.3	60.7	60.6	60.7	60.7	60.7	60.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	62.5
	13	61.9	62.0	62.2	62.4	62.5	62.6	62.4	62.1	62.0	61.9	62.1	61.9	61.7
	14	61.5	61.7	62.2	62.6	63.0	63.2	63.4	63.3	63.0	62.8	62.5	62.3	62.0
	15	62.1	63.2	63.7	64.6	64.8	65.0	65.5	65.6	65.5	65.4	65.3	65.1	65.0
	16	64.2	64.2	64.6	64.7	64.7	64.8	64.7	64.7	64.6	64.5	64.3	64.0	63.7
	17	63.1	63.3	63.7	64.0	64.5	64.6	64.6	64.6	64.4	64.3	64.1	63.7	63.6
	18	63.3	63.5	63.7	63.8	63.8	63.9	63.9	63.9	63.8	63.8	63.9	63.9	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	63.7
	20	62.8	63.2	63.7	64.3	64.6	64.7	64.7	64.3	64.0	63.5	63.0	62.7	62.1
	21	60.4	60.6	60.7	61.2	61.7	61.9	62.3	62.3	62.3	62.2	62.0	61.8	61.7
	22	61.9	62.3	62.7	63.1	63.5	63.7	63.9	63.8	63.7	63.6	63.2	63.2	63.1
	23	63.5	63.7	63.9	64.1	64.4	64.4	64.4	64.3	64.2	64.2	64.1	64.0	63.8
	24	62.5	62.8	63.3	63.5	63.5	63.6	63.2	63.1	62.9	62.7	62.7	62.7	62.6
	25	62.0	62.5	62.8	63.2	63.4	63.7	63.8	63.8	63.7	63.6	63.4	63.2	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	63.5
	27	62.9	63.4	63.5	63.7	63.7	63.7	63.5	63.4	63.3	63.2	63.1	63.0	62.8
	28	61.7	62.2	62.3	62.7	63.0	63.2	63.4	63.3	62.9	62.7	62.1	61.7	61.2
	29	59.0	59.6	59.9	60.4	60.6	60.7	60.8	60.7	60.7	60.6	60.5	60.4	60.3
	30	61.0	61.4	61.5	61.8	61.7	61.7	61.7	61.6	61.3	61.0	61.2	60.9	60.7
	31	59.6	59.6	59.6	59.6	59.7	59.6	59.2	58.9	58.5	58.2	57.8	57.7	57.5
Hourly Means	61.15	61.49	61.77	62.12	62.33	62.46	62.54	62.47	62.32	62.14	61.99	61.80	61.67	

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00028.

Mean Gottingen Time.	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.
MAY. 1	47.2	47.2	48.0	48.2	49.0	48.7	48.9	49.7	50.1	50.2	48.7	48.00
2	48.1	48.1	48.0	49.0	48.8	49.0	50.9	50.8	50.8	50.0	49.1	48.91
3	47.0	47.2	47.4	47.9	48.0	48.6	49.4	49.9	50.3	50.0	49.5	47.30
4	—	—	—	—	—	—	—	—	—	—	—	—
5	49.3	49.4	50.2	50.0	48.8	49.0	49.3	50.1	49.9	48.2	48.1	48.58
6	48.8	48.7	48.7	49.1	49.4	49.8	50.5	51.3	51.5	51.5	50.9	48.86
7	50.0	50.1	50.8	51.0	52.2	54.7	54.7	54.1	54.8	53.5	52.2	51.10
8	51.6	51.0	51.3	53.0	51.8	52.9	53.4	53.2	52.7	50.7	49.9	50.54
9	48.6	49.0	50.0	50.0	50.0	50.3	51.0	51.5	51.7	51.3	51.0	49.21
10	49.9	50.0	50.0	50.7	50.8	50.9	51.0	51.3	51.1	50.3	50.9	50.03
11	—	—	—	—	—	—	—	—	—	—	—	—
12	47.7	48.2	48.2	48.8	49.0	49.3	50.0	50.3	50.4	50.0	50.5	49.48
13	48.4	48.9	49.1	49.3	50.4	51.7	52.7	53.1	52.0	51.0	49.1	49.48
14	47.8	47.2	49.2	48.8	48.3	49.1	50.1	49.9	50.0	50.9	50.0	48.40
15	—	—	—	45.9	46.2	46.9	47.4	48.1	48.7	48.5	47.0	47.03
16	46.4	46.5	46.9	46.8	47.1	47.5	48.0	48.9	48.7	48.9	49.4	46.73
17	47.3	47.4	47.2	47.5	47.8	48.3	48.5	49.4	49.3	48.7	48.2	47.61
18	—	—	—	—	—	—	—	—	—	—	—	—
19	47.1	47.5	47.6	47.7	48.0	48.7	48.7	49.2	49.1	48.8	48.6	47.92
20	49.4	49.7	50.1	50.3	50.6	50.9	51.5	52.2	52.4	52.3	51.9	49.81
21	49.1	48.9	49.0	49.1	49.1	49.3	49.6	51.0	51.4	51.7	52.8	49.52
22	52.0	47.3	45.3	46.0	47.0	49.1	48.1	47.0	48.5	48.1	46.0	47.28
23	45.5	45.6	46.2	46.4	46.6	47.4	48.3	48.7	48.5	48.5	48.0	46.38
24	47.1	47.0	47.5	47.3	47.5	47.8	49.0	49.4	49.8	49.8	49.2	47.20
25	—	—	—	—	—	—	—	—	—	—	—	—
26	45.0	46.8	47.7	47.2	47.2	47.4	47.7	48.8	48.9	49.3	49.1	47.48
27	46.8	47.7	48.0	47.8	47.1	48.1	49.4	49.8	50.0	50.3	49.8	47.50
28	48.3	48.5	48.8	49.2	48.6	49.9	50.8	51.1	51.3	51.5	51.1	48.88
29	49.7	49.9	49.8	49.7	49.6	49.5	50.0	49.7	49.3	49.0	49.5	49.55
30	49.1	49.2	49.4	49.3	49.4	49.8	50.5	51.2	51.1	51.2	51.0	49.43
31	51.4	52.0	52.1	52.2	52.5	52.9	53.2	53.7	54.0	54.5	54.0	51.53
Hourly Means	48.41	48.42	48.71	48.82	48.92	49.54	50.10	50.50	50.60	50.32	49.83	48.66

TEMPERATURE OF THE MAGNET.

MAY. 1	61.1	60.9	60.7	60.7	60.5	60.4	60.2	60.2	60.1	60.1	60.4	60.95
2	60.9	60.8	60.7	60.7	60.6	60.6	60.6	60.5	60.6	60.7	61.1	61.21
3	62.0	61.7	61.7	61.4	60.9	60.4	60.0	59.8	59.6	59.8	60.2	61.67
4	—	—	—	—	—	—	—	—	—	—	—	—
5	61.4	61.3	61.5	61.5	61.5	61.6	61.6	61.6	61.7	61.7	61.9	61.93
6	60.7	60.6	60.4	59.9	60.0	60.0	60.0	59.6	59.4	59.4	59.3	60.93
7	58.4	58.1	57.7	57.3	57.2	56.9	56.8	56.7	56.7	56.7	57.0	58.40
8	57.9	57.7	57.7	57.6	57.5	57.5	57.3	57.2	57.3	57.5	57.7	58.00
9	60.0	59.8	59.7	59.6	59.4	58.8	58.4	58.1	58.1	58.2	58.5	59.43
10	59.1	58.7	58.2	57.8	57.5	57.1	56.7	56.4	56.4	56.7	57.6	59.06
11	—	—	—	—	—	—	—	—	—	—	—	—
12	62.2	62.2	62.3	62.2	62.0	62.0	61.8	61.8	61.6	61.6	61.7	60.98
13	61.7	61.6	61.2	61.2	61.2	60.8	60.7	60.7	60.7	60.7	61.1	61.64
14	61.9	61.7	61.6	61.4	61.2	61.0	60.7	60.6	60.5	60.7	61.4	61.93
15	—	—	—	64.5	64.5	64.1	64.0	64.0	63.9	63.9	64.0	64.46
16	63.5	63.3	63.0	62.9	62.7	62.9	62.7	62.7	62.6	62.5	62.8	63.72
17	63.4	63.2	63.0	63.1	63.2	63.2	63.1	63.2	63.1	63.2	63.3	63.65
18	—	—	—	—	—	—	—	—	—	—	—	—
19	63.6	63.5	63.3	63.2	63.0	62.7	62.7	62.7	62.7	62.6	62.7	63.40
20	61.8	61.7	61.3	60.8	60.6	60.4	59.9	59.7	59.7	59.8	60.0	62.22
21	61.7	61.5	61.4	61.1	61.0	60.7	60.5	60.5	60.7	61.0	61.3	61.35
22	62.9	62.9	62.7	62.7	62.7	62.9	62.7	62.7	62.7	62.7	63.0	63.01
23	63.7	63.7	63.5	63.3	62.8	62.6	62.3	62.2	62.0	62.1	62.2	63.48
24	62.5	62.4	62.1	62.0	61.9	61.7	61.7	61.7	61.6	61.7	61.8	62.51
25	—	—	—	—	—	—	—	—	—	—	—	—
26	63.4	63.2	63.1	62.9	62.7	62.9	62.7	62.6	62.6	62.6	62.7	63.08
27	62.7	62.6	62.6	62.4	62.3	61.7	61.7	61.5	61.4	61.4	61.6	62.71
28	60.9	60.5	60.0	59.8	59.3	59.0	58.7	58.4	58.3	58.4	58.7	61.02
29	60.2	60.0	60.2	60.2	60.5	60.3	60.3	60.4	60.4	60.7	60.9	60.35
30	60.6	60.5	60.3	60.1	60.1	59.8	59.7	59.7	59.5	59.4	59.4	60.69
31	57.4	57.1	56.8	56.7	56.5	56.5	56.3	56.0	55.9	55.9	56.1	57.78
Hourly Means	61.37	61.20	61.03	61.00	60.86	60.69	60.51	60.41	60.36	60.43	60.68	61.45

HORIZONTAL FORCE.														
One Scale Division = .00035 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 .	12 ^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.	
JUNE.	1	53.0	51.8	51.4	52.3	53.2	52.8	52.4	52.5	52.5	52.1	52.8	—	
	2	—	—	—	—	—	—	—	—	—	—	—	51.3	
	3	53.3	53.0	52.9	52.8	52.7	52.1	52.0	51.3	51.1	51.0	50.7	51.0	51.1
	4	50.3	49.9	50.4	51.0	51.2	51.0	51.0	50.6	50.5	50.3	50.2	50.3	50.6
	5	52.4	51.7	52.5	53.2	53.7	53.2	52.8	52.2	51.5	51.6	51.8	52.0	51.3
	6	52.2	51.9	52.2	52.1	52.3	52.2	52.0	51.9	51.1	51.0	51.0	51.0	51.3
	7	52.6	52.0	51.8	51.9	51.7	51.8	51.7	51.4	51.3	51.0	51.1	51.3	51.3
	8	52.5	52.0	51.8	52.0	52.7	52.8	52.8	52.7	52.3	52.1	51.4	52.0	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	50.8
	10	51.5	51.7	51.6	52.0	52.5	52.1	51.2	50.9	51.0	50.5	51.0	51.5	51.4
	11	51.5	51.7	51.5	51.0	51.2	51.1	50.8	50.8	50.8	50.8	50.3	50.3	51.0
	12	51.0	50.3	49.6	50.0	50.9	51.1	50.8	50.8	51.1	50.9	50.8	50.6	50.7
	13	51.1	51.1	50.8	51.1	51.9	51.7	51.2	51.0	50.9	50.8	50.1	50.6	50.2
	14	51.0	50.9	50.5	50.7	51.0	51.0	50.8	50.1	50.1	50.2	50.4	50.7	50.7
	15	52.6	51.7	50.6	50.2	51.0	51.0	51.0	50.8	50.4	49.9	49.8	50.2	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	51.2
	17	54.5	52.9	52.6	52.8	52.3	52.0	52.6	53.0	52.6	51.2	52.0	52.3	53.0
	18	54.0	53.0	52.0	51.9	52.4	52.0	50.5	50.3	50.6	50.7	50.2	52.8	51.2
	19	52.0	51.1	50.5	50.7	51.1	50.9	51.0	50.8	50.3	50.2	50.2	50.5	51.0
	20	53.3	52.6	52.2	52.5	52.7	52.3	51.9	51.3	51.3	51.0	53.0	52.7	52.5
	21	51.6	50.7	49.8	49.8	49.6	49.1	48.7	48.0	47.9	47.7	48.6	48.6	48.3
	22	51.9	51.0	50.6	50.6	51.5	51.5	51.2	50.9	50.2	50.1	50.0	50.0	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	50.1
	24	50.5	50.0	50.2	50.6	50.9	51.0	51.0	50.7	50.3	50.1	50.0	49.8	49.8
	25	50.5	49.8	49.1	49.0	49.9	49.9	49.2	49.0	49.0	48.8	48.8	48.8	49.0
	26	50.7	50.1	50.3	50.7	51.0	50.4	49.9	49.1	48.5	49.1	48.6	48.3	48.3
	27	50.1	49.3	49.4	49.5	50.1	50.2	49.8	49.3	49.0	49.3	49.1	49.2	49.1
	28	51.0	51.2	51.7	52.0	52.6	52.3	52.2	52.0	51.9	52.2	51.9	52.0	52.0
	29	51.1	51.9	51.7	51.0	51.9	51.8	50.8	50.5	50.8	50.9	52.4	51.8	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	53.8
Hourly Means	51.85	51.33	51.11	51.26	51.68	51.49	51.17	50.88	50.68	50.56	50.62	50.84	50.84	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	1	56.5	56.7	57.2	57.4	57.7	57.8	57.8	57.7	57.6	57.1	56.7	56.4	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	57.7
	3	55.7	56.1	56.7	57.0	57.7	57.8	58.4	58.5	58.6	58.6	58.2	58.2	58.1
	4	58.2	58.5	58.7	58.9	59.1	59.4	59.7	59.4	59.4	59.2	58.8	58.6	58.2
	5	56.1	56.5	57.1	57.9	58.7	58.7	58.8	58.7	58.7	58.6	58.6	58.5	58.4
	6	58.7	58.7	58.7	58.7	58.8	58.8	59.0	59.0	59.0	59.0	58.8	58.7	58.7
	7	57.6	57.7	57.9	57.9	57.9	58.1	57.8	57.8	57.7	57.7	57.7	57.6	57.5
	8	56.7	57.0	57.2	57.6	57.7	57.7	57.8	57.7	57.7	57.7	57.7	57.4	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	57.4
	10	57.7	57.7	57.8	57.8	57.8	57.9	58.1	58.1	58.1	58.2	58.1	58.2	58.1
	11	58.1	58.3	58.6	58.8	59.0	59.1	58.9	58.9	58.8	58.7	58.7	58.6	58.5
	12	58.4	58.7	58.9	59.1	59.2	59.2	59.4	59.3	59.1	59.0	58.7	58.6	58.4
	13	57.9	58.0	58.5	58.7	58.6	58.7	58.5	58.5	58.5	58.5	58.6	58.6	58.6
	14	58.8	58.9	59.0	59.0	59.0	59.2	59.5	59.4	59.5	59.5	59.2	59.3	59.2
	15	59.5	59.7	59.7	59.7	59.9	59.8	59.9	59.9	59.9	59.9	59.9	60.1	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	55.1
	17	54.0	54.4	54.4	54.5	54.7	54.7	54.7	54.7	54.5	54.3	54.3	54.2	54.2
	18	54.5	54.9	55.6	56.0	56.6	56.9	56.8	56.9	56.9	56.9	56.9	56.9	56.9
	19	57.0	57.5	57.8	58.1	58.4	58.7	58.7	58.6	58.4	58.0	57.7	57.3	56.8
	20	56.0	56.4	56.8	57.5	57.8	58.0	58.5	58.4	58.2	57.9	57.4	57.1	56.8
	21	56.1	56.6	57.0	57.6	57.9	58.4	58.4	58.6	58.6	58.6	58.6	58.6	58.5
	22	58.2	58.6	58.7	59.1	59.7	59.8	59.8	59.9	59.9	59.7	59.7	59.6	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	59.6
	24	58.9	59.5	59.9	60.5	60.7	61.1	61.3	61.4	61.4	61.5	61.2	60.9	60.9
	25	60.3	60.6	60.9	61.2	61.5	61.6	61.4	61.4	61.1	60.8	60.7	60.5	60.0
	26	58.4	58.8	59.4	59.9	60.4	60.7	61.0	61.3	61.4	61.3	61.2	61.1	60.9
	27	60.0	60.2	60.5	60.9	61.0	61.0	61.3	61.3	61.2	61.2	61.0	60.9	60.9
	28	60.0	59.9	59.7	59.4	59.3	59.0	58.7	58.5	57.9	57.7	57.6	57.2	56.9
	29	55.1	55.3	55.7	55.7	55.8	55.9	55.8	55.4	55.2	54.9	54.7	54.3	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	52.3
Hourly Means	57.54	57.81	58.10	58.36	58.60	58.72	58.80	58.77	58.69	58.58	58.43	58.30	57.94	

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

Mean Göttingen Time.	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.	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	52.57	
	2	51.5	51.8	51.8	52.0	52.4	52.5	53.0	53.7	54.3	54.1	54.0	51.80
	3	51.4	51.3	51.3	51.5	51.5	51.7	51.9	52.0	52.2	52.0	51.4	51.33
	4	50.8	51.1	51.2	51.5	51.8	52.3	53.0	53.4	53.1	53.3	53.1	52.27
	5	51.2	51.1	51.6	51.5	51.7	51.9	52.6	53.8	54.1	53.1	52.0	52.55
	6	51.7	51.5	52.3	52.8	53.0	53.7	54.0	54.7	55.0	55.5	54.9	52.20
	7	51.8	52.0	52.0	52.0	52.1	52.6	53.5	54.3	54.5	54.0	53.1	52.35
	8	—	—	—	—	—	—	—	—	—	—	—	51.64
	9	50.5	51.0	51.3	52.0	52.0	52.9	53.7	53.1	53.9	54.3	53.7	51.30
	10	51.6	51.0	53.0	51.5	51.3	51.4	52.0	53.0	52.6	51.7	51.4	51.12
	11	50.9	51.2	51.1	51.4	51.4	51.8	51.7	52.5	52.4	52.2	51.8	51.18
	12	51.0	50.8	51.3	51.4	51.6	51.8	52.0	52.2	52.2	51.8	52.2	51.02
	13	50.2	50.7	51.0	51.0	51.0	51.2	51.6	52.4	52.6	52.2	51.9	52.48
	14	50.6	50.5	50.8	51.0	50.8	51.1	51.2	52.0	52.6	52.7	53.0	53.65
	15	—	—	—	—	—	—	—	—	—	—	—	51.92
	16	54.1	54.1	52.8	52.8	52.8	54.3	55.0	55.3	56.0	56.4	55.4	51.86
	17	53.0	55.0	55.0	55.3	53.9	54.8	54.8	55.0	56.0	55.8	55.3	52.88
	18	51.1	51.6	51.3	51.6	51.3	51.9	53.1	53.2	53.9	53.2	52.4	50.24
	19	51.0	51.0	51.1	51.5	52.1	53.0	54.0	55.0	55.9	55.4	54.3	51.19
	20	53.3	52.6	52.3	52.8	53.3	53.8	54.6	56.1	54.5	53.9	52.5	50.70
	21	48.9	51.2	50.9	51.0	51.1	51.0	52.0	52.9	53.0	53.0	52.3	50.43
	22	—	—	—	—	—	—	—	—	—	—	—	49.80
	23	50.5	50.8	51.0	51.0	51.4	52.0	52.7	53.0	53.0	52.4	51.2	49.93
	24	49.9	50.1	50.2	50.5	50.6	51.1	51.4	52.1	52.8	51.9	51.2	52.68
	25	49.3	49.7	50.0	50.9	51.0	51.4	53.0	54.2	55.0	53.0	52.0	53.34
	26	48.5	48.7	49.0	49.0	49.2	49.9	50.2	51.3	51.9	51.4	51.0	51.70
	27	49.1	49.2	49.8	49.7	50.0	50.2	51.0	51.7	51.9	51.7	50.7	52.68
	28	52.1	52.9	52.9	52.5	52.9	53.4	53.4	55.0	56.0	55.0	53.3	53.34
	29	—	—	—	—	—	—	—	—	—	—	—	53.34
	30	53.9	54.2	54.4	54.9	55.1	54.9	55.8	56.6	56.4	56.7	56.9	51.70
Hourly Means	51.12	51.40	51.58	51.72	51.81	52.26	52.85	53.54	53.83	53.47	52.84	51.70	

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	56.62	
	2	57.5	57.0	56.9	56.6	56.0	55.5	55.2	54.9	54.8	55.0	55.2	57.72
	3	58.1	58.0	57.8	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.8	57.72
	4	57.8	57.4	56.9	56.7	56.2	56.1	55.8	55.6	55.5	55.4	55.7	58.20
	5	58.3	58.4	58.0	58.1	58.1	58.2	58.2	58.3	58.5	58.7	58.7	58.43
	6	58.6	58.5	58.4	58.2	58.1	57.7	57.7	57.7	57.6	57.5	57.7	57.33
	7	57.2	57.0	57.3	57.1	57.0	56.7	56.7	56.4	56.4	56.6	56.6	57.50
	8	—	—	—	—	—	—	—	—	—	—	—	57.90
	9	57.4	57.3	57.4	57.4	57.4	57.6	57.6	57.6	57.6	57.7	57.7	58.38
	10	58.1	58.0	57.9	57.7	57.7	57.7	57.7	57.7	57.8	57.9	57.8	58.46
	11	58.5	58.4	58.1	58.1	58.1	57.9	57.7	57.8	57.8	57.8	58.0	58.56
	12	58.3	58.1	58.0	58.0	57.9	57.8	57.7	57.7	57.8	57.8	57.9	59.28
	13	58.6	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.6	58.6	56.97
	14	59.3	59.3	59.3	59.2	59.2	59.5	59.6	59.5	59.5	59.4	59.5	54.12
	15	—	—	—	—	—	—	—	—	—	—	—	56.57
	16	54.8	54.7	54.5	54.1	53.8	53.8	53.7	53.7	53.7	53.7	53.7	56.74
	17	54.0	54.0	53.8	53.7	53.5	53.7	53.7	53.6	53.5	53.7	54.0	56.70
	18	56.9	56.9	57.0	57.0	56.9	56.9	56.7	56.7	56.6	56.6	56.7	57.87
	19	56.3	55.9	55.6	55.4	55.3	55.0	54.9	54.8	54.9	55.1	55.5	59.22
	20	56.4	56.2	55.9	55.7	55.7	55.7	55.7	55.6	55.6	55.7	55.9	60.52
	21	58.4	58.2	57.9	57.7	57.7	57.6	57.5	57.4	57.4	57.7	57.8	59.68
	22	—	—	—	—	—	—	—	—	—	—	—	60.31
	23	59.6	59.5	59.3	59.2	59.1	58.9	58.7	58.7	58.7	58.6	58.7	60.66
	24	60.8	60.7	60.6	60.5	60.4	60.2	60.0	60.0	60.0	60.0	60.1	57.12
	25	59.6	59.3	58.9	58.7	58.4	57.8	57.6	57.3	57.3	57.6	57.7	53.43
	26	60.7	60.6	60.4	60.2	60.0	60.1	59.9	60.0	60.0	59.9	59.9	57.84
	27	60.8	60.7	60.7	60.7	60.5	60.4	60.3	60.1	60.1	60.1	60.0	57.84
	28	56.6	56.3	55.9	55.7	55.4	55.2	54.9	54.7	54.8	54.8	54.8	57.12
	29	—	—	—	—	—	—	—	—	—	—	—	53.43
	30	52.3	52.1	52.0	51.9	51.7	51.7	51.4	50.8	50.7	50.7	50.8	57.84
Hourly Means	57.80	57.64	57.49	57.36	57.22	57.12	57.01	56.92	56.92	56.97	57.07	57.84	

HORIZONTAL FORCE.														
One Scale Division = .00035 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 .	12 ^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.	
JULY.	1	56.1	55.5	55.7	55.0	54.8	55.0	54.8	54.2	54.2	53.8	53.8	54.0	
	2	55.6	55.2	55.2	55.3	55.7	55.2	54.9	54.2	54.0	53.8	53.8	53.9	53.8
	3	54.4	54.4	54.1	53.7	54.0	53.9	53.4	52.8	52.8	52.6	52.8	52.7	52.6
	4	53.9	53.1	52.8	52.7	52.8	52.4	51.5	51.6	51.2	51.2	51.5	51.7	52.0
	5	53.1	52.8	53.1	53.1	53.1	52.9	52.7	52.5	52.3	51.9	52.0	51.9	52.2
	6	52.9	52.7	52.5	52.3	52.4	52.9	52.6	52.3	52.2	51.5	51.2	51.5	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	51.1
	8	52.5	53.2	52.8	52.3	50.5	49.0	51.3	52.4	51.9	51.8	52.2	52.2	52.3
	9	51.0	51.1	51.4	51.7	51.9	51.7	51.6	51.4	51.5	51.3	51.6	51.4	52.5
	10	51.9	51.9	51.7	52.0	52.0	51.7	51.5	51.2	51.4	51.7	51.3	51.8	52.0
	11	53.2	53.1	53.3	53.3	53.5	53.3	52.9	52.2	52.2	52.1	51.9	52.0	52.2
	12	52.4	52.0	51.5	51.2	52.1	52.6	52.0	51.9	51.7	51.2	51.2	51.2	51.3
	13	55.5	55.0	53.6	53.2	52.0	53.0	52.2	52.1	50.9	51.9	52.0	52.8	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	53.2
	15	56.3	56.1	56.1	55.7	55.0	54.1	52.8	51.9	51.4	51.6	52.0	52.4	52.9
	16	55.1	54.8	53.6	52.8	53.7	53.8	53.7	52.9	52.9	52.9	52.6	52.3	52.9
	17	55.0	55.1	53.3	52.9	53.0	53.4	52.5	52.4	51.7	50.0	50.7	50.5	50.5
	18	53.8	53.4	52.9	51.2	51.1	51.4	50.3	49.3	49.0	48.9	49.7	49.8	50.1
	19	51.5	51.1	50.3	50.3	50.3	50.3	50.0	50.1	50.0	50.0	49.6	49.7	49.9
	20	52.1	51.2	50.7	50.8	50.9	51.1	50.9	50.7	50.1	50.1	50.2	50.0	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	49.5
	22	48.9	48.8	49.4	49.4	50.3	50.7	50.6	50.1	49.9	49.8	49.7	50.0	50.1
	23	51.5	51.1	51.1	51.1	51.1	50.6	50.3	50.2	49.7	50.0	50.2	50.3	50.2
	24	53.1	51.3	50.2	50.8	51.4	51.2	51.0	50.3	50.5	50.0	50.1	50.0	50.2
	25	49.0	45.7	45.7	46.9	46.8	45.7	45.2	44.8	45.3	45.3	45.6	45.5	45.3
	26	49.8	49.6	48.5	47.9	48.3	47.8	47.1	47.4	47.4	47.1	47.1	47.5	47.2
	27	46.9	47.1	47.3	47.8	47.3	46.7	47.3	46.2	46.3	47.4	47.1	47.8	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	48.0
	29	51.0	49.9	49.1	49.0	49.5	49.1	49.9	48.9	49.2	49.1	49.3	49.6	49.7
	30	52.7	52.1	51.1	51.1	51.1	51.9	51.5	51.0	50.4	50.0	49.9	50.0	50.6
	31	52.4	51.3	52.5	51.0	54.0	52.5	53.0	52.0	51.1	51.2	49.7	50.4	50.9
Hourly Means	52.65	52.17	51.83	51.65	51.80	51.63	51.39	51.00	50.79	50.67	50.70	50.84	51.01	
TEMPERATURE OF THE MAGNET.														
JULY.	1	51.3	51.7	52.0	52.4	52.8	53.2	53.4	53.3	53.2	52.9	52.7	52.6	52.3
	2	52.0	52.1	52.6	52.6	52.8	53.0	53.5	53.6	53.7	53.7	53.7	53.7	53.7
	3	54.8	55.1	55.6	55.8	55.9	56.0	56.3	56.5	56.6	56.7	56.7	56.7	56.7
	4	56.8	57.0	57.0	57.4	57.5	57.6	57.6	57.5	57.0	56.7	56.6	56.4	56.1
	5	54.7	54.9	55.6	55.8	56.1	56.3	56.3	56.3	56.3	56.2	56.1	55.9	55.7
	6	54.7	55.2	55.7	56.3	56.7	57.0	57.1	57.2	57.2	57.1	56.8	56.7	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	54.7
	8	54.0	54.2	54.6	54.8	55.0	55.2	55.0	55.0	55.0	54.9	54.8	54.8	54.9
	9	53.7	54.2	54.7	55.0	55.3	55.6	55.7	55.4	55.2	55.0	54.8	54.4	54.1
	10	53.8	54.6	55.1	55.8	56.2	56.6	56.7	56.7	56.7	56.3	56.2	55.9	55.6
	11	53.7	54.0	54.6	55.1	55.5	55.9	56.2	56.4	56.5	56.4	56.2	55.9	55.9
	12	55.9	56.2	56.6	56.8	56.9	57.1	57.4	57.5	57.5	57.5	57.0	56.8	56.7
	13	54.5	54.7	54.9	55.1	55.2	55.2	54.8	54.8	54.7	54.7	54.4	54.3	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	15	54.1	54.5	54.8	55.2	55.6	55.7	55.7	55.7	55.3	55.2	54.7	54.6	54.3
	16	54.2	54.6	54.6	54.9	55.2	55.3	55.6	55.7	55.7	55.7	55.6	55.5	55.4
	17	55.1	55.7	56.2	56.8	57.2	57.4	57.7	57.6	57.4	57.3	57.1	56.7	56.5
	18	55.6	56.0	56.5	56.8	57.0	57.5	57.7	57.8	57.9	58.0	57.8	57.7	57.7
	19	57.4	57.8	58.5	58.8	59.1	59.4	59.1	59.2	59.3	59.2	59.3	59.3	59.2
	20	58.5	58.8	59.3	59.7	60.0	60.2	60.4	60.5	60.2	60.0	59.7	59.6	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	59.2
	22	58.6	58.8	59.2	59.4	59.7	59.8	59.7	59.7	59.6	59.3	59.4	59.3	59.1
	23	57.9	58.1	58.6	58.9	59.5	59.5	59.4	59.4	59.3	59.2	58.9	58.9	58.7
	24	56.7	57.5	58.0	58.8	59.5	59.9	60.3	60.4	60.4	60.2	59.9	59.8	59.7
	25	59.9	60.2	60.7	61.0	61.7	61.8	62.4	62.4	62.4	62.0	61.8	61.3	61.1
	26	59.9	60.5	61.1	61.6	61.8	61.9	62.0	62.0	61.8	61.6	61.4	61.3	61.0
	27	59.8	60.0	60.1	60.4	60.7	60.8	60.7	60.7	60.7	60.6	60.6	60.5	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	59.0
	29	57.7	58.0	58.4	58.6	58.7	58.7	58.8	58.7	58.4	58.3	58.1	57.9	57.7
	30	55.9	56.2	56.7	57.0	57.5	57.6	57.6	57.6	57.4	57.1	56.9	56.8	56.7
	31	56.2	56.3	56.5	56.7	56.7	56.8	57.2	57.3	57.2	57.0	56.8	56.6	56.4
Hourly Means	55.83	56.18	56.60	56.94	57.25	57.44	57.57	57.59	57.50	57.36	57.19	57.03	56.74	

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.

Mean Göttingen Time.	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.
JULY. 1	54.1	55.0	55.0	55.0	55.2	55.7	56.2	56.7	57.0	56.7	56.6	55.16
2	54.0	54.3	54.2	54.2	54.2	54.2	54.7	55.1	54.7	54.5	54.5	54.55
3	52.6	52.7	53.0	53.2	53.0	53.0	53.9	53.9	54.4	54.9	54.3	53.46
4	52.1	52.2	52.7	53.0	53.2	53.3	53.7	54.2	54.5	54.7	54.0	52.75
5	52.1	52.2	52.6	52.9	53.1	53.2	54.3	55.1	55.1	54.7	53.2	53.01
6	—	—	—	—	—	—	—	—	—	—	—	—
7	51.4	51.7	52.5	53.8	54.0	54.4	54.3	56.7	56.3	55.7	53.4	53.01
8	52.7	52.9	53.4	53.2	53.3	53.0	53.4	53.5	53.1	52.5	51.8	52.38
9	52.5	52.0	51.8	52.2	52.7	53.0	53.9	54.0	53.7	53.3	52.2	52.14
10	52.0	52.0	52.4	52.5	53.3	53.5	54.2	54.7	54.8	54.5	54.4	52.52
11	52.2	52.4	52.2	52.8	52.4	52.9	53.5	53.2	53.7	53.4	53.3	52.80
12	51.8	51.9	51.9	51.8	51.9	53.8	55.2	55.9	55.7	56.9	55.7	52.70
13	—	—	—	—	—	—	—	—	—	—	—	—
14	53.3	53.4	53.4	53.6	53.7	56.0	56.7	57.3	57.1	58.0	57.4	54.05
15	52.7	54.0	53.0	53.0	53.1	53.2	54.1	55.0	55.8	56.2	56.1	53.94
16	53.9	53.0	52.0	52.6	52.5	52.9	53.9	55.1	55.7	56.1	54.5	53.59
17	50.7	52.4	52.4	52.8	52.3	53.4	53.6	54.3	55.3	54.0	54.5	52.78
18	50.2	50.2	50.8	51.1	51.0	51.9	51.8	52.6	53.4	53.4	51.9	51.22
19	50.1	49.7	50.2	50.5	50.8	51.1	51.9	52.8	53.2	53.0	52.3	50.78
20	—	—	—	—	—	—	—	—	—	—	—	—
21	49.8	51.2	51.2	51.1	51.2	51.6	51.9	52.1	51.7	51.2	50.2	50.90
22	50.3	50.6	50.7	50.8	51.6	52.2	52.9	53.3	53.5	53.1	52.1	50.78
23	50.4	50.3	50.6	51.2	52.0	52.2	52.9	54.1	54.9	55.1	54.7	51.49
24	50.2	52.2	52.9	52.9	54.3	53.3	52.8	51.3	52.5	52.1	50.7	51.47
25	47.5	46.8	47.6	47.3	48.1	48.1	49.0	50.8	50.7	51.0	50.5	47.26
26	47.2	47.6	48.0	48.2	48.6	48.9	49.7	49.6	49.6	49.0	49.0	48.25
27	—	—	—	—	—	—	—	—	—	—	—	—
28	49.0	50.0	50.3	48.9	49.0	49.2	50.0	50.5	50.6	51.0	51.0	48.45
29	50.0	50.0	49.8	50.4	51.0	51.1	52.2	53.0	53.3	53.9	53.1	50.46
30	50.5	51.0	51.0	50.9	51.0	51.4	53.0	54.9	54.2	54.6	53.6	51.65
31	51.1	51.5	51.9	52.3	52.1	52.0	53.0	54.3	54.9	55.0	54.3	52.27
Hourly Means	51.27	51.60	51.76	51.93	52.17	52.54	53.21	53.85	54.05	54.02	53.31	51.99

TEMPERATURE OF THE MAGNET.

JULY. 1	51.9	51.8	51.6	51.5	51.5	51.3	51.4	51.4	51.4	51.5	51.7	52.12
2	53.7	53.9	53.9	53.9	53.9	54.2	54.4	54.4	54.5	54.4	54.6	53.60
3	56.7	56.7	56.7	56.7	56.7	56.8	56.7	56.6	56.5	56.6	56.7	56.37
4	55.9	55.7	55.3	55.3	55.0	54.7	54.7	54.4	54.2	54.2	54.6	56.05
5	55.5	55.3	54.8	54.7	54.3	54.0	53.7	53.7	53.7	53.8	54.2	55.16
6	—	—	—	—	—	—	—	—	—	—	—	—
7	54.5	54.3	54.3	54.2	54.0	53.8	53.7	53.6	53.5	53.6	53.8	55.20
8	54.6	54.4	54.3	54.0	53.7	53.6	53.2	52.7	52.7	52.7	53.2	54.22
9	53.8	53.7	53.6	53.1	52.7	52.7	52.7	52.6	52.6	52.8	53.4	54.03
10	55.2	54.9	54.4	54.2	53.9	53.7	53.5	53.0	53.0	53.1	53.4	54.94
11	55.9	55.9	55.7	55.7	55.7	55.7	55.6	55.7	55.6	55.7	55.9	55.64
12	56.7	56.5	56.4	56.0	55.7	55.2	55.0	54.7	54.4	54.4	54.4	56.22
13	—	—	—	—	—	—	—	—	—	—	—	—
14	53.7	53.5	53.5	53.4	53.4	53.5	53.5	53.4	53.3	53.4	53.7	54.14
15	54.1	54.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.9	54.46
16	55.3	55.2	54.9	54.8	54.7	54.6	54.5	54.1	54.0	54.2	54.7	54.96
17	56.3	56.1	55.7	55.4	55.2	54.9	54.8	54.7	54.8	54.9	55.2	56.11
18	57.7	57.7	57.6	57.5	57.4	57.1	56.9	56.7	56.7	56.8	57.1	57.22
19	59.1	59.0	58.7	58.5	58.4	58.4	58.1	57.9	57.7	57.8	58.1	58.64
20	—	—	—	—	—	—	—	—	—	—	—	—
21	59.1	58.8	58.7	58.7	58.7	58.7	58.6	58.5	58.4	58.4	58.4	59.21
22	58.9	58.7	58.4	58.1	57.9	57.7	57.7	57.4	57.5	57.6	57.7	58.72
23	58.4	57.9	57.5	57.1	56.7	56.5	56.1	55.8	55.7	55.8	56.4	57.93
24	59.6	59.4	59.5	59.3	59.3	59.1	59.0	59.2	59.1	59.3	59.4	59.30
25	60.7	60.3	59.9	59.8	59.7	59.7	59.6	59.5	59.5	59.6	59.7	60.70
26	60.7	60.6	60.1	60.0	59.8	59.8	59.6	59.6	59.5	59.6	59.6	60.70
27	—	—	—	—	—	—	—	—	—	—	—	—
28	58.7	58.6	58.1	57.9	57.9	57.6	57.0	56.9	57.0	57.2	57.5	59.13
29	57.5	57.2	56.7	56.5	56.1	55.7	55.4	55.2	55.2	55.4	55.6	57.27
30	56.7	56.6	56.6	56.6	56.5	56.3	56.2	56.1	56.0	56.0	56.1	56.70
31	56.2	56.2	55.9	55.9	55.8	56.0	55.8	55.7	55.7	55.7	55.7	56.35
Hourly Means	56.56	56.40	56.17	56.02	55.86	55.74	55.60	55.45	55.40	55.49	55.73	56.49

HORIZONTAL FORCE.														
One Scale Division = .00035 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 .	12 ^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.	
AUGUST.	1	55.0	53.8	53.3	54.4	55.2	52.8	45.3	42.3	42.9	42.6	43.6	45.7	45.0
	2	51.7	50.2	49.9	48.8	50.0	50.3	50.1	50.2	50.0	49.1	49.9	50.0	51.3
	3	49.8	48.7	48.2	49.0	50.2	50.3	49.1	48.3	48.4	49.5	51.0	50.4	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	51.9
	5	52.2	49.8	50.0	49.9	50.2	50.0	50.6	50.4	50.4	50.0	50.3	50.5	50.8
	6	51.9	50.9	50.3	50.0	50.2	50.1	49.9	49.7	49.2	49.4	49.7	49.6	49.9
	7	50.0	49.2	49.0	49.2	49.8	49.9	49.5	49.3	49.3	49.2	49.5	49.5	49.6
	8	51.1	50.1	49.4	49.3	49.3	49.3	49.2	49.2	49.1	49.1	49.1	49.2	50.0
	9	50.3	47.9	46.6	47.0	44.3	42.9	42.9	41.9	44.1	47.2	45.8	46.3	49.7
	10	49.6	48.7	48.0	47.3	47.9	48.0	47.5	47.1	47.0	48.9	48.0	47.4	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	48.0
	12	47.9	47.0	46.7	46.4	47.0	46.9	46.3	46.0	45.8	45.1	46.1	45.3	45.7
	13	48.9	48.0	47.0	46.9	47.0	46.8	46.1	46.1	46.0	45.9	46.1	46.1	46.4
	14	47.7	46.9	46.2	46.0	46.0	46.1	46.0	45.8	45.4	45.8	46.0	46.0	46.1
	15	50.0	49.4	48.7	48.2	48.3	48.3	48.1	48.0	48.0	47.8	48.0	48.3	49.1
	16	52.8	51.7	50.5	49.9	50.0	50.3	50.6	49.6	48.8	48.5	48.0	48.0	48.6
	17	52.6	51.5	51.2	50.2	50.0	49.7	49.7	47.9	47.8	47.8	48.0	48.3	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	50.7
	19	53.6	52.8	51.6	51.0	51.0	52.8	51.3	50.7	50.7	50.5	50.5	50.5	50.2
	20	50.8	50.1	50.5	50.8	51.2	51.3	51.0	50.2	50.2	50.5	50.3	50.3	51.0
	21	52.0	51.0	50.8	51.0	52.0	53.0	52.9	52.9	53.0	53.1	52.8	53.0	53.4
	22	53.3	51.5	50.6	46.3	45.8	46.0	46.0	45.2	47.2	47.9	49.2	51.0	48.5
	23	50.0	48.2	47.9	47.6	47.1	46.0	45.8	46.0	45.9	46.7	48.6	48.3	48.3
	24	50.0	48.9	47.6	46.6	47.4	48.6	48.3	47.0	46.1	46.0	47.7	47.6	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	49.2
	26	50.8	48.4	48.0	47.9	48.0	49.0	48.8	48.8	49.1	49.2	49.1	50.1	50.0
	27	53.0	52.1	51.3	51.0	50.3	50.5	50.3	49.7	49.7	50.0	50.4	50.2	50.4
	28	52.4	51.5	50.7	49.9	49.9	49.8	49.5	49.2	49.0	49.2	49.1	49.7	49.9
	29	52.0	50.0	48.3	48.0	48.3	49.7	50.6	49.2	48.2	45.8	45.4	47.7	49.8
	30	51.6	48.1	46.1	46.0	46.5	45.6	44.6	44.5	46.0	46.0	46.3	46.0	47.0
Hourly Means	51.19	49.86	49.17	48.79	48.96	49.00	48.46	47.89	47.97	48.11	48.40	48.65	49.25	
TEMPERATURE OF THE MAGNET.														
AUGUST.	1	55.7	55.7	55.6	55.4	55.2	55.2	55.2	55.2	55.4	55.3	55.1	54.9	54.7
	2	53.7	53.8	54.1	54.3	54.4	54.7	54.7	54.8	54.7	54.7	54.7	54.7	54.6
	3	54.3	54.4	54.7	54.7	55.0	55.0	54.8	54.7	54.6	54.3	54.1	53.9	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	53.8
	5	52.8	53.7	54.5	55.0	55.6	55.7	55.7	55.5	55.2	54.9	54.4	54.0	53.7
	6	53.8	54.7	55.6	56.5	56.9	57.0	57.5	57.4	57.1	56.9	56.5	56.2	56.0
	7	54.8	55.5	56.5	57.0	57.7	58.0	58.0	58.0	57.9	57.6	57.2	57.0	56.8
	8	56.8	57.2	57.6	57.9	58.1	58.4	58.6	58.5	58.1	57.9	58.0	57.7	57.6
	9	58.4	58.7	59.0	59.2	59.4	59.5	59.7	59.6	59.5	59.3	58.9	58.7	58.5
	10	58.6	58.8	59.4	59.7	59.8	59.9	60.1	60.0	59.7	59.5	59.0	58.8	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	60.8
	12	60.5	61.1	61.7	62.5	63.1	63.6	63.7	63.7	63.7	63.7	63.5	63.3	63.0
	13	60.7	61.2	61.5	61.7	62.1	62.4	62.6	62.5	62.4	62.3	62.1	62.1	61.9
	14	62.7	63.0	63.2	63.4	63.4	63.4	63.4	63.3	63.2	63.0	63.0	62.8	62.7
	15	60.7	60.7	60.7	60.7	60.6	60.4	60.4	60.1	59.8	59.6	59.3	59.1	58.9
	16	57.7	57.8	58.1	58.3	58.3	58.4	58.2	58.0	57.9	57.9	57.7	57.7	57.7
	17	57.1	57.3	57.6	57.7	57.9	58.0	58.4	58.4	58.3	58.1	57.7	57.4	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	56.0
	19	54.8	55.3	55.9	56.5	56.8	57.0	57.3	57.4	57.4	57.4	57.4	57.3	57.3
	20	56.6	56.7	56.7	56.9	56.9	56.9	56.7	56.7	56.6	56.4	56.3	56.0	55.8
	21	55.7	55.9	55.9	55.8	55.5	55.4	55.5	55.4	55.2	55.1	54.9	54.8	54.9
	22	55.6	55.7	55.8	55.9	55.9	55.9	55.8	55.9	55.9	55.9	55.7	55.7	55.7
	23	56.3	56.7	57.5	57.7	57.9	58.0	57.7	57.7	57.5	57.2	57.1	56.9	56.7
	24	55.9	56.5	56.7	57.0	57.4	57.7	57.7	57.5	57.4	57.3	56.9	56.7	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	56.2
	26	56.8	57.4	57.5	57.6	57.6	57.4	57.1	56.8	56.5	56.1	55.9	55.6	55.4
	27	54.7	55.1	55.7	56.2	56.6	56.7	56.7	56.7	56.5	56.4	56.3	56.1	55.9
	28	56.3	56.7	57.2	57.7	57.9	58.1	58.4	58.4	58.3	58.1	57.9	57.7	57.5
	29	57.0	57.5	57.8	58.2	58.5	58.6	58.6	58.6	58.6	58.5	58.4	58.3	58.1
	30	57.6	57.7	57.9	58.2	58.4	58.4	58.3	58.3	58.2	58.1	58.0	57.9	57.9
Hourly Means	56.75	57.11	57.48	57.76	57.96	58.07	58.11	58.04	57.91	57.75	57.54	57.36	57.23	

HORIZONTAL FORCE.

One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00027.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
AUGUST.	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	46.5	46.7	47.6	48.8	49.7	49.4	52.5	53.2	53.2	52.0	52.5	49.33
	2	50.2	50.8	50.0	51.0	51.0	51.3	51.7	52.3	51.7	51.9	51.3	50.61
	3	—	—	—	—	—	—	—	—	—	—	—	50.82
	4	50.9	51.0	51.3	51.7	52.1	51.9	53.3	53.1	53.0	53.8	52.8	
	5	51.4	51.2	51.5	51.9	51.9	52.0	52.5	53.7	54.3	53.6	52.9	51.33
	6	50.0	50.1	50.4	50.3	50.6	50.9	51.3	52.1	52.5	52.0	50.9	50.50
	7	49.7	49.9	50.0	50.3	50.2	50.5	51.2	53.0	53.1	52.9	51.8	50.23
	8	49.9	50.1	50.3	50.4	50.6	50.8	51.8	52.8	53.8	53.3	52.0	50.38
	9	48.4	47.9	48.8	48.3	48.3	48.6	50.0	51.1	51.7	50.5	50.7	47.55
	10	—	—	—	—	—	—	—	—	—	—	—	47.96
	11	47.6	47.0	47.0	47.0	47.6	47.9	48.7	49.1	49.1	48.6	48.0	
	12	45.9	46.0	47.4	46.7	46.8	46.7	46.9	48.1	48.0	48.0	48.8	46.73
	13	46.4	46.7	46.9	47.0	47.1	47.3	48.1	48.9	49.0	48.7	48.3	47.15
	14	46.7	47.0	47.3	47.9	47.9	48.1	49.0	50.3	51.0	51.1	50.3	47.36
	15	49.2	49.2	49.6	49.8	50.1	50.5	51.1	52.2	53.2	53.6	53.6	49.68
	16	49.4	50.2	50.8	51.0	51.0	51.4	52.5	53.7	54.3	54.1	53.4	50.80
	17	—	—	—	—	—	—	—	—	—	—	—	50.96
	18	50.9	51.3	51.5	52.2	52.0	52.3	52.9	53.8	53.8	53.8	53.2	
	19	50.6	51.1	51.3	51.5	51.7	51.6	52.0	52.0	52.4	52.2	51.3	51.45
	20	51.1	52.5	52.4	52.7	53.0	52.8	53.9	55.0	55.8	55.2	54.1	51.95
	21	53.4	53.1	53.3	52.9	53.0	52.9	53.1	54.9	55.4	55.0	53.0	52.95
	22	50.4	50.9	51.0	51.0	51.0	51.1	52.0	52.0	52.6	52.5	50.5	49.73
	23	49.4	49.7	50.2	50.7	49.0	50.0	51.2	51.7	51.8	52.0	50.8	48.87
	24	—	—	—	—	—	—	—	—	—	—	—	49.25
	25	49.8	49.8	50.0	50.0	50.0	49.7	51.2	52.0	53.2	53.3	52.1	
	26	50.0	50.1	51.3	51.1	51.3	51.5	52.8	53.2	53.0	53.3	53.1	50.33
	27	50.7	50.5	50.3	50.9	50.9	51.0	51.8	52.8	53.0	53.5	53.1	51.14
	28	49.8	49.9	50.0	50.1	50.3	50.7	52.0	53.3	54.0	54.5	53.3	50.74
	29	49.4	49.2	50.7	49.6	49.5	48.2	50.3	51.0	51.0	52.8	53.0	49.49
30	47.9	48.9	48.0	47.8	48.5	48.2	49.2	50.7	51.3	51.2	50.7	47.78	
Hourly Means	49.45	49.65	49.96	50.10	50.20	50.28	51.27	52.15	52.51	52.44	51.75	49.81	

TEMPERATURE OF THE MAGNET.

AUGUST.	1	54.4	54.2	53.8	53.7	53.6	53.6	53.5	53.5	53.4	53.5	53.6	54.56
	2	54.5	54.5	54.2	54.1	54.1	54.1	54.0	54.1	54.0	54.1	54.2	54.33
	3	—	—	—	—	—	—	—	—	—	—	—	53.62
	4	53.6	53.5	53.3	53.0	52.7	52.4	51.9	51.8	51.7	52.2	52.4	
	5	53.7	53.6	53.6	53.4	53.2	52.9	52.5	52.4	52.4	52.7	53.3	53.93
	6	55.8	55.4	55.3	54.9	54.8	54.6	54.2	53.9	53.9	53.9	54.2	55.54
	7	56.6	56.4	56.2	56.1	56.0	56.3	56.4	56.3	56.3	56.4	56.6	56.73
	8	57.4	57.3	57.0	57.0	57.0	57.0	57.0	57.1	57.3	57.7	58.0	57.59
	9	58.4	58.3	58.2	58.1	58.0	58.0	58.0	58.0	57.9	58.1	58.2	58.65
	10	—	—	—	—	—	—	—	—	—	—	—	59.86
	11	60.8	60.7	60.7	60.6	60.4	60.1	60.0	59.8	59.7	59.8	60.0	
	12	62.8	62.5	62.3	62.0	61.7	61.6	61.4	61.0	60.8	60.7	60.7	62.27
	13	61.9	62.0	61.9	62.0	62.0	62.4	62.4	62.4	62.5	62.4	62.5	62.08
	14	62.6	62.4	62.2	62.0	61.7	61.7	61.5	61.0	60.9	60.8	60.7	62.42
	15	58.7	58.5	58.1	58.1	57.8	57.7	57.5	57.4	57.2	57.2	57.6	59.03
	16	57.5	57.4	57.4	57.3	57.2	56.8	56.7	56.7	56.7	56.7	56.9	57.54
	17	—	—	—	—	—	—	—	—	—	—	—	56.32
	18	55.7	55.3	54.9	54.7	54.7	54.6	54.4	54.3	54.3	54.2	54.6	
	19	57.2	57.1	56.8	56.7	56.7	56.5	56.3	56.2	56.1	56.4	56.5	56.68
	20	55.6	55.5	55.2	55.2	55.1	55.0	54.8	54.8	54.9	55.3	55.5	55.92
	21	55.0	55.2	55.2	55.3	55.3	55.5	55.5	55.5	55.4	55.2	55.4	55.35
	22	55.7	55.6	55.6	55.5	55.5	55.3	55.3	55.4	55.6	55.6	56.0	55.69
	23	56.5	56.3	56.0	55.9	55.7	55.7	55.5	55.3	55.1	55.5	55.7	56.59
	24	—	—	—	—	—	—	—	—	—	—	—	56.53
	25	56.1	56.1	56.0	55.9	55.8	55.7	55.8	55.7	55.9	56.2	56.6	
	26	55.0	54.7	54.4	54.2	54.1	53.8	53.7	53.7	53.7	53.9	54.3	55.55
	27	55.9	55.8	55.7	55.7	55.7	55.7	55.6	55.6	55.6	55.5	55.8	55.93
	28	57.5	57.3	57.3	57.1	57.0	56.7	56.7	56.5	56.5	56.7	56.7	57.34
	29	58.0	57.8	57.7	57.6	57.4	57.4	57.4	57.2	57.1	56.9	57.2	57.85
	30	57.8	57.7	57.6	57.3	57.1	56.9	56.8	56.7	56.7	56.7	56.9	57.63
Hourly Means	57.10	56.97	56.79	56.67	56.55	56.46	56.34	56.24	56.22	56.32	56.54	57.14	

HORIZONTAL FORCE.													
One Scale Division = .00035 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 .	12 ^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.
August 31	49.9	47.9	47.5	47.4	47.0	46.7	47.3	47.2	46.5	46.5	46.8	47.1	—
1	—	—	—	—	—	—	—	—	—	—	—	—	50.1
2	52.6	50.1	49.4	49.0	49.1	49.3	48.9	49.0	49.0	49.1	49.4	49.7	49.8
3	52.1	51.4	50.9	50.7	50.9	51.0	50.8	50.2	50.1	50.0	50.1	50.2	50.2
4	50.3	50.3	50.0	49.5	47.9	47.4	48.7	48.0	47.9	48.0	48.5	48.6	49.0
5	52.2	50.8	50.2	49.9	49.5	49.3	49.0	49.1	49.3	49.3	49.6	49.7	49.7
6	53.9	51.9	50.8	50.0	49.7	49.4	49.0	47.8	47.2	47.9	48.9	49.1	49.5
7	53.0	52.0	50.9	49.3	49.5	48.5	47.1	47.0	47.6	48.2	48.8	48.4	—
8	—	—	—	—	—	—	—	—	—	—	—	—	46.8
9	51.4	50.0	49.0	48.0	47.9	48.0	47.2	47.0	46.6	46.6	47.3	46.8	47.0
10	49.7	49.0	48.2	48.1	48.1	48.1	48.1	47.9	47.7	47.3	47.7	48.0	48.3
11	50.7	50.0	49.3	49.5	49.7	49.9	49.5	49.3	49.0	49.8	49.2	49.6	49.8
12	53.6	52.0	51.0	50.9	50.5	49.5	48.3	47.6	47.6	48.2	49.1	49.1	49.8
13	54.1	52.8	52.0	51.9	51.9	51.3	51.1	50.4	50.2	50.3	50.3	50.8	51.4
14	51.9	51.9	50.8	50.5	49.1	48.1	47.8	46.6	48.5	49.0	49.2	50.0	—
15	—	—	—	—	—	—	—	—	—	—	—	—	49.1
16	53.4	52.0	51.1	49.3	48.8	48.1	47.8	47.8	48.1	48.3	48.9	48.6	48.5
17	48.9	48.6	48.5	47.7	47.5	47.3	47.0	47.0	47.0	47.1	47.4	47.7	48.0
18	50.6	49.6	48.5	47.2	46.9	46.9	46.9	46.7	46.6	46.3	47.1	47.0	47.1
19	47.7	46.8	45.9	46.0	46.0	46.0	46.1	46.2	45.7	46.5	46.3	46.3	46.7
20	45.2	44.7	45.2	45.7	43.1	40.4	41.3	40.6	43.6	40.2	41.9	45.2	45.7
21	45.7	44.0	45.0	45.5	44.2	43.6	42.8	43.9	44.5	45.0	45.3	45.3	—
22	—	—	—	—	—	—	—	—	—	—	—	—	47.0
23	48.1	46.1	46.8	46.0	44.6	44.0	43.7	44.2	45.3	45.0	45.2	45.3	45.7
24	45.2	44.9	44.0	43.0	42.7	43.7	42.6	43.1	44.0	44.1	44.9	45.0	45.9
25	44.6	45.0	45.4	47.3	46.8	44.4	43.1	44.0	44.5	44.3	43.3	44.3	44.6
26	46.7	49.2	46.9	45.0	40.5	39.2	39.0	39.2	37.0	41.6	41.2	43.0	44.7
27	45.3	45.0	45.0	43.8	41.8	41.8	43.0	41.9	42.0	41.4	43.0	43.7	44.6
28	43.6	43.0	43.0	42.7	43.1	43.0	41.6	41.3	41.8	42.0	42.2	42.7	—
29	—	—	—	—	—	—	—	—	—	—	—	—	42.9
30	42.9	41.3	39.0	38.7	40.3	39.6	38.1	40.2	40.6	42.0	42.1	42.2	43.0
Hourly Means	49.36	48.47	47.86	47.41	46.81	46.33	45.95	45.89	46.07	46.31	46.68	47.05	47.50

TEMPERATURE OF THE MAGNET.													
August 31	57.1	57.5	57.4	57.7	58.0	58.0	57.7	57.7	57.5	57.1	57.1	56.9	—
1	—	—	—	—	—	—	—	—	—	—	—	—	55.6
2	55.4	55.7	55.9	56.2	56.3	56.4	56.6	56.4	56.2	55.8	55.5	55.3	55.1
3	54.7	55.4	55.7	56.1	56.6	56.8	56.8	56.8	56.7	56.7	56.5	56.2	56.0
4	56.0	56.1	56.3	56.7	56.9	57.0	57.5	57.5	57.4	57.1	56.4	56.4	56.0
5	54.6	54.9	55.5	55.9	56.4	56.7	56.9	57.0	57.1	57.0	56.8	56.7	56.5
6	55.9	56.7	57.5	58.1	58.7	59.3	59.6	59.7	59.6	59.4	59.4	59.0	58.9
7	58.7	58.9	59.2	59.4	59.7	59.8	60.0	60.0	59.9	59.8	59.6	59.4	—
8	—	—	—	—	—	—	—	—	—	—	—	—	60.1
9	58.9	59.2	59.7	60.0	60.5	60.7	60.9	60.9	60.8	60.5	60.2	59.8	59.7
10	59.0	59.3	59.7	60.0	60.2	60.4	60.1	60.1	60.0	59.8	59.4	59.2	59.0
11	57.8	58.0	58.0	57.9	57.8	57.7	57.7	57.6	57.4	57.3	57.4	57.5	57.4
12	57.3	57.6	57.9	58.1	58.3	58.3	58.5	58.4	58.2	57.9	57.6	57.3	56.8
13	55.5	55.7	56.0	56.4	56.6	56.9	56.8	57.0	57.1	57.1	57.1	57.0	56.9
14	57.3	57.5	57.6	57.7	57.7	57.7	57.7	57.4	57.2	56.8	56.7	56.6	—
15	—	—	—	—	—	—	—	—	—	—	—	—	56.7
16	56.9	57.3	57.9	58.6	58.7	59.0	58.9	58.8	58.7	58.7	58.4	58.3	58.2
17	58.7	58.9	59.1	59.3	59.7	59.7	59.8	59.6	59.4	59.2	58.9	58.7	58.6
18	58.4	58.9	59.4	60.0	60.5	60.8	61.0	61.4	61.4	61.3	61.4	61.3	61.0
19	60.4	60.8	61.6	62.0	62.5	62.6	62.4	62.3	62.2	62.0	61.7	61.6	61.4
20	61.3	61.7	61.9	62.4	62.7	62.7	62.7	62.5	62.2	61.8	61.6	61.1	60.9
21	60.3	60.5	61.0	61.2	61.5	61.5	61.5	61.4	61.0	60.7	60.1	59.9	—
22	—	—	—	—	—	—	—	—	—	—	—	—	59.2
23	60.0	60.7	61.5	62.0	62.7	62.9	63.0	63.1	63.2	63.2	63.2	63.1	63.0
24	62.6	62.7	63.0	63.3	63.4	63.6	63.7	63.7	63.6	63.1	63.0	62.6	62.4
25	61.7	61.9	61.8	61.8	61.7	61.4	61.3	60.9	60.6	60.1	59.7	59.3	59.0
26	58.5	58.9	59.6	60.0	60.6	60.8	61.0	61.1	61.0	60.9	60.7	60.7	60.6
27	59.8	60.5	61.4	61.9	62.7	62.8	63.1	63.0	62.6	62.4	61.8	61.4	61.3
28	61.6	62.6	63.7	64.7	65.4	65.9	66.1	66.0	65.8	65.4	65.0	64.7	—
29	—	—	—	—	—	—	—	—	—	—	—	—	62.4
30	62.4	62.6	62.6	62.9	63.0	63.0	62.8	62.8	62.8	62.8	63.1	62.8	62.6
Hourly Means	58.49	58.87	59.27	59.63	59.95	60.09	60.16	60.12	59.98	59.77	59.55	59.34	59.05

HORIZONTAL FORCE.												
One Scale Division = .00035 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.												
Mean Göttingen Time.	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.
August 31	—	—	—	—	—	—	—	—	—	—	—	49·07
1	49·2	49·2	49·8	49·9	50·3	50·8	51·3	52·2	52·3	52·2	52·6	50·48
2	50·0	50·6	50·6	50·7	51·0	51·0	51·7	53·0	53·3	53·1	52·2	50·95
3	50·8	50·8	51·0	51·0	50·3	51·2	51·4	52·0	53·0	52·0	50·7	49·76
4	49·3	49·7	49·8	50·6	50·6	50·0	51·1	52·1	51·6	52·4	52·9	50·80
5	50·0	50·1	50·0	50·1	50·3	51·0	52·0	53·7	54·6	55·0	54·9	50·48
6	50·0	49·9	50·3	50·4	50·4	50·0	51·4	52·8	53·9	54·0	53·3	49·08
7	—	—	—	—	—	—	—	—	—	—	—	48·58
8	47·3	47·6	47·8	48·2	47·5	47·8	48·7	50·8	51·5	51·7	52·0	49·18
9	49·0	48·8	47·8	48·0	48·1	48·8	49·5	50·4	51·0	51·3	50·5	51·02
10	48·4	48·8	49·1	49·3	49·5	50·0	51·2	52·0	52·5	52·1	51·3	51·26
11	50·2	50·4	51·0	51·0	51·1	51·7	53·1	54·9	55·5	55·4	55·0	52·19
12	50·0	50·1	51·0	51·0	51·4	52·5	54·2	55·8	56·0	56·0	55·0	50·42
13	52·1	52·0	52·2	52·5	52·3	52·3	53·7	55·5	55·3	53·8	52·4	50·00
14	—	—	—	—	—	—	—	—	—	—	—	48·71
15	49·2	49·4	50·0	50·0	50·1	49·9	51·3	53·8	54·6	55·0	54·4	48·26
16	49·1	49·4	48·8	49·1	49·8	50·2	52·2	53·1	53·3	52·7	51·5	47·52
17	48·7	48·3	49·1	49·6	49·0	49·1	50·5	52·1	51·0	51·0	51·0	44·95
18	48·0	47·9	47·5	47·4	47·7	48·2	50·0	51·1	51·7	51·1	50·2	46·59
19	46·8	46·2	47·4	46·7	47·6	49·3	51·1	52·0	52·2	51·9	47·0	45·88
20	45·0	45·8	45·9	45·9	45·9	46·8	47·0	49·2	49·0	48·3	47·1	45·42
21	—	—	—	—	—	—	—	—	—	—	—	45·88
22	47·5	47·5	47·8	48·2	48·0	48·2	50·0	48·3	50·0	50·6	50·2	45·42
23	45·5	46·0	46·0	45·8	45·2	46·2	46·3	47·0	48·0	48·0	47·1	46·43
24	45·9	45·6	45·8	46·3	46·3	46·1	47·2	48·7	49·2	49·3	46·6	43·94
25	44·9	46·8	48·7	48·7	48·6	48·5	49·6	48·3	52·0	49·3	47·3	44·54
26	44·6	44·4	45·0	45·0	45·6	46·0	46·3	47·0	48·0	46·6	42·8	42·78
27	45·3	45·3	46·5	45·9	45·4	46·1	47·1	47·6	47·0	46·0	44·4	42·21
28	—	—	—	—	—	—	—	—	—	—	—	48·10
29	43·5	42·4	42·7	43·1	43·1	41·6	42·4	43·6	44·0	43·9	43·5	
30	44·9	48·9	47·3	48·6	48·3	46·0	43·0	41·2	39·4	39·2	36·2	
Hourly Means	47·89	48·15	48·42	48·58	48·59	48·82	49·74	50·70	51·15	50·84	49·70	48·10

TEMPERATURE OF THE MAGNET.												
	°	°	°	°	°	°	°	°	°	°	°	°
August 31	—	—	—	—	—	—	—	—	—	—	—	56·22
1	55·5	55·5	55·3	55·1	54·8	54·7	54·5	54·5	54·4	54·7	55·0	55·16
2	54·9	54·7	54·6	54·4	54·2	54·1	53·9	53·7	53·9	54·1	54·5	56·03
3	55·9	55·7	55·9	55·8	55·7	55·7	55·7	55·8	55·8	55·8	55·8	55·68
4	55·7	55·4	55·0	54·7	54·5	54·4	54·6	53·8	53·8	53·8	53·9	55·76
5	56·2	56·0	55·7	55·5	55·0	54·7	54·4	54·3	54·3	54·8	55·4	58·52
6	58·7	58·7	58·5	58·5	58·4	58·4	58·2	58·1	58·2	58·4	58·5	59·26
7	—	—	—	—	—	—	—	—	—	—	—	59·48
8	59·8	59·7	59·4	59·1	58·8	58·7	58·6	58·4	58·4	58·3	58·5	58·79
9	59·4	59·0	59·0	58·9	58·7	58·6	58·3	58·3	58·2	58·5	58·7	57·32
10	58·7	58·4	58·1	57·9	57·7	57·5	57·0	57·0	57·1	57·6	57·8	56·70
11	57·3	57·2	57·0	56·9	56·8	56·9	56·8	56·8	56·8	56·7	57·0	56·68
12	56·6	56·3	55·8	55·6	55·3	54·9	54·7	54·7	54·8	54·8	55·1	56·79
13	56·9	56·9	56·8	56·8	56·7	56·7	56·6	56·6	56·6	56·7	56·9	58·20
14	—	—	—	—	—	—	—	—	—	—	—	58·54
15	56·6	56·5	56·5	56·4	56·3	56·0	55·8	55·9	55·9	56·1	56·4	60·17
16	58·2	58·2	58·2	58·1	58·1	57·7	57·7	57·7	57·8	58·1	58·5	61·34
17	58·3	58·1	57·8	57·7	57·6	57·6	57·5	57·5	57·5	57·7	58·0	61·09
18	60·8	60·6	60·2	59·9	59·5	59·3	59·1	59·2	59·2	59·6	59·9	59·83
19	61·4	61·2	61·2	60·9	60·7	60·7	60·4	60·4	60·3	60·7	60·7	62·24
20	60·7	60·3	60·5	60·3	60·0	59·8	59·8	59·7	59·7	59·8	60·0	62·43
21	—	—	—	—	—	—	—	—	—	—	—	59·39
22	59·1	59·0	58·8	58·7	58·6	58·6	58·5	58·4	58·6	58·7	59·2	59·63
23	62·8	62·7	62·6	62·2	61·8	61·7	61·6	61·4	61·5	61·7	62·2	61·02
24	62·4	62·1	61·8	61·7	61·6	61·5	61·3	61·1	61·1	61·4	61·7	63·39
25	58·7	58·3	58·0	57·7	57·4	57·1	57·1	57·0	57·2	57·7	57·9	62·34
26	60·0	59·7	59·6	59·2	58·7	58·4	58·0	57·8	57·9	58·3	59·0	
27	60·9	60·6	60·3	59·9	59·7	59·6	59·4	59·3	59·6	59·8	60·7	
28	—	—	—	—	—	—	—	—	—	—	—	
29	62·3	62·2	62·0	61·9	61·9	61·9	61·9	61·9	61·9	62·0	62·2	
30	62·5	62·3	62·0	61·8	61·7	61·6	61·5	61·5	61·5	61·7	61·9	
Hourly Means	58·86	58·67	58·48	58·29	58·08	57·95	57·78	57·72	57·77	57·98	58·28	58·92

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.														
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 .	12 ^h .	
OCTOBER.	1 ^a	36.2	32.8	34.1	34.0	32.4	36.3	30.7	39.6	32.3	35.0	38.8	38.0	39.5
	2 ^a	48.0	46.5	45.2	44.9	43.7	43.8	40.2	37.7	38.9	41.2	42.9	43.3	43.4
	3 ^a	47.7	46.7	44.2	42.9	43.1	43.0	42.9	42.2	42.8	42.5	42.6	43.0	44.0
	4 ^a	47.1	46.2	45.0	44.8	43.6	43.8	42.8	42.7	42.8	42.8	44.2	43.2	45.4
	5 ^a	47.2	46.2	46.0	45.5	45.0	44.0	42.8	41.5	41.8	43.4	43.0	43.0	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	—
	9 ^b	32.9	31.7	31.4	31.3	31.0	30.5	30.4	30.8	30.9	31.2	31.6	32.3	32.6
	10	34.0	34.3	34.0	34.1	32.7	31.8	31.5	31.5	31.4	32.5	33.0	33.3	33.5
	11	36.3	35.9	35.6	35.9	35.2	34.8	34.0	33.6	33.9	33.8	34.9	34.7	35.0
	12	39.0	38.2	38.9	37.9	37.2	37.0	36.5	35.4	36.3	36.9	37.2	37.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	38.5
	14	41.1	41.8	42.0	41.3	40.5	40.1	39.1	37.6	37.3	37.8	37.6	37.1	37.2
	15	38.8	39.1	39.4	38.9	38.2	38.1	38.0	38.2	39.1	39.6	40.0	40.1	40.3
	16	39.8	40.9	42.3	42.4	42.8	42.2	42.2	42.0	41.9	42.3	42.7	42.8	43.0
	17	45.8	45.8	46.6	45.7	44.1	42.8	42.6	42.1	42.3	43.2	43.0	43.1	44.2
	18	46.3	45.2	44.4	44.5	44.0	43.5	44.0	44.1	45.3	45.7	46.4	46.9	47.5
	19	48.6	48.1	48.6	47.5	46.6	46.7	46.7	46.4	46.7	46.8	47.9	47.0	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	44.2
	21	31.0	31.2	29.2	30.7	31.7	33.0	36.0	38.0	37.6	42.7	43.2	43.5	41.7
	22	42.1	41.9	42.0	41.9	41.0	40.0	40.3	40.0	40.1	41.5	41.0	41.0	42.0
	23	40.8	41.7	41.6	40.6	39.6	39.6	38.6	38.6	39.3	40.3	41.0	41.3	42.7
	24	43.2	43.4	43.2	42.9	43.0	42.6	41.7	41.6	41.9	42.5	42.7	44.0	44.1
	25	39.9	41.6	42.4	41.1	40.4	41.0	41.4	41.1	38.0	34.4	38.4	41.2	43.8
	26	40.6	43.9	44.4	41.0	37.9	35.7	40.8	41.8	41.5	45.3	40.5	47.0	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	51.6
	28	44.6	46.5	48.1	47.0	47.0	46.0	46.7	46.3	46.1	46.3	46.4	47.0	47.5
	29	45.6	45.6	46.0	45.5	45.4	45.8	45.6	45.0	44.9	48.0	46.8	47.8	47.1
	30	46.7	47.4	50.0	49.8	47.0	46.2	45.2	45.0	46.0	46.2	47.3	47.4	48.4
	31	50.2	50.5	51.1	50.0	50.5	49.7	48.4	44.7	46.1	49.1	48.1	48.0	48.6
Hourly Means	41.37	41.74	42.06	41.50	40.79	40.41	40.49	40.19	40.33	41.31	41.49	42.16	42.68	
TEMPERATURE OF THE MAGNET.														
OCTOBER.	1 ^a	62.3	62.5	62.7	63.0	63.3	63.4	63.4	63.5	63.4	63.3	63.0	62.6	62.1
	2 ^a	60.7	61.0	61.6	61.8	62.1	62.4	62.3	62.1	61.9	61.8	61.5	61.1	60.8
	3 ^a	60.6	61.1	61.5	61.7	62.0	62.4	62.6	62.6	62.6	62.6	62.4	62.3	62.0
	4 ^a	61.8	62.1	62.4	62.7	62.9	63.2	62.9	63.0	63.1	63.2	62.8	62.5	62.3
	5 ^a	62.4	62.7	63.0	63.4	63.8	64.0	64.0	64.2	63.9	63.7	63.6	63.4	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	—
	9 ^b	60.1	60.4	60.7	61.0	61.2	61.4	61.1	61.0	61.0	60.8	60.8	60.8	60.9
	10	62.5	63.3	64.0	64.6	64.9	65.0	65.0	64.7	64.4	64.0	63.7	63.6	63.2
	11	63.9	64.4	64.5	64.8	65.0	65.1	65.0	64.9	64.9	64.9	64.9	64.6	64.4
	12	63.8	64.0	64.7	64.8	65.0	64.8	64.2	64.0	63.7	63.4	63.3	63.1	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	64.0
	14	65.5	66.0	66.9	67.6	68.2	68.4	68.6	68.6	68.6	68.4	67.7	67.4	66.7
	15	65.7	65.9	66.1	66.3	66.3	66.1	65.7	65.5	65.2	65.0	64.8	64.3	64.0
	16	63.3	63.5	63.6	63.7	63.7	63.7	63.7	63.3	63.1	62.7	62.5	62.1	62.0
	17	59.7	59.7	59.5	59.3	59.2	59.1	59.0	58.9	58.7	58.7	58.6	58.5	58.4
	18	58.8	59.3	59.7	59.9	60.0	60.1	60.2	60.1	60.1	60.1	59.7	59.4	59.1
	19	59.4	59.9	60.3	60.7	61.0	61.1	61.0	60.8	60.7	60.5	60.0	59.7	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	61.2
	21	61.7	62.3	62.7	63.2	63.4	63.6	63.6	63.3	62.9	62.7	62.4	62.2	61.9
	22	62.7	63.4	64.0	64.7	65.3	65.7	65.8	65.7	65.4	65.2	64.7	64.6	64.4
	23	64.1	64.6	64.9	65.3	65.6	65.8	65.9	65.8	65.5	65.3	65.3	65.0	64.7
	24	64.0	64.5	64.9	65.3	65.5	65.7	65.7	65.6	65.4	65.1	64.7	64.5	64.4
	25	64.6	64.8	65.5	66.0	66.5	66.8	66.7	66.8	66.6	66.3	65.9	65.7	65.5
	26	64.9	65.2	65.5	65.6	65.7	65.7	65.3	64.9	64.6	63.9	63.4	63.2	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	60.7
	28	60.7	61.3	61.7	62.0	62.3	62.5	62.4	62.1	61.8	61.4	61.3	61.2	60.9
	29	62.6	63.4	63.7	64.2	64.4	64.5	64.4	64.1	63.8	63.7	63.6	63.5	63.4
	30	64.7	65.2	65.7	65.9	66.0	66.0	66.1	65.8	65.6	65.4	64.9	64.8	64.7
	31	65.3	65.7	65.9	66.1	66.2	66.1	65.7	65.4	65.0	64.7	64.2	64.0	63.8
Hourly Means	62.90	63.34	63.73	64.05	64.27	64.36	64.26	64.07	63.85	63.61	63.32	63.11	62.92	

^a Not included in the means.

^b A new adjustment; bar magnet C.2 taken into use.

HORIZONTAL FORCE.													
One Scale Division = 00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.													
Mean Göttingen Time.	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.	
OCTOBER.	1 ^a	40.3	42.2	42.8	43.7	43.7	45.6	45.7	46.0	46.5	47.6	48.0	39.66
	2 ^a	45.5	44.9	45.0	45.1	45.8	46.0	47.8	48.2	48.9	49.2	48.8	44.79
	3 ^a	43.9	43.5	44.2	44.5	44.6	44.5	45.6	46.9	47.5	47.2	47.0	44.46
	4 ^a	44.8	44.4	44.7	44.8	44.8	45.1	46.3	47.4	48.4	48.2	48.3	45.07
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9 ^b	32.7	32.7	32.7	32.9	33.1	33.9	35.7	37.5	38.1	36.7	34.9	32.90
	10	34.6	34.7	34.8	35.2	35.9	36.7	38.3	40.1	40.3	39.3	38.4	34.83
	11	35.1	35.8	36.3	36.6	37.4	39.1	41.3	42.8	42.7	42.0	40.2	36.79
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	39.9	41.1	42.0	42.3	42.6	43.9	44.8	44.2	42.1	40.5	40.8	39.62
	14	38.5	39.4	40.0	39.7	40.0	40.8	42.3	43.4	41.0	39.2	37.8	39.69
	15	40.5	41.5	41.6	41.9	42.2	42.7	43.8	44.5	42.9	41.4	40.4	40.47
	16	42.9	44.5	44.2	44.3	44.1	44.7	45.7	46.2	45.7	44.9	45.0	43.31
	17	45.2	45.9	46.0	46.4	47.0	48.7	49.5	49.5	50.2	48.6	46.3	45.61
	18	48.3	48.9	49.2	50.2	50.0	50.1	51.4	51.9	51.4	49.5	48.7	47.39
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	45.0	43.4	50.6	48.9	47.4	44.9	44.7	44.5	41.0	32.0	31.2	45.23
	21	41.0	41.2	41.1	43.0	42.9	43.6	44.4	44.2	42.8	42.1	41.1	39.04
	22	42.0	41.8	44.1	43.6	44.2	45.3	46.0	44.3	43.1	41.8	39.9	42.12
	23	43.7	43.5	43.4	43.3	44.4	46.2	47.3	48.0	46.5	44.4	43.0	42.48
	24	44.1	44.3	44.0	44.2	45.0	45.9	46.9	44.8	42.0	39.1	37.2	43.10
	25	46.1	44.5	44.0	44.1	46.8	46.2	45.4	47.0	44.0	41.8	33.9	42.02
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	47.0	46.3	46.1	47.4	47.8	48.6	48.4	49.2	47.7	46.3	46.4	44.76
	28	47.5	47.7	48.0	50.0	49.7	51.0	52.9	51.8	50.0	47.5	46.3	47.83
	29	47.1	48.0	48.6	49.3	50.3	51.8	52.6	51.1	48.2	46.7	46.7	47.48
	30	48.9	49.0	49.6	49.4	50.8	52.1	54.0	53.4	50.8	51.6	51.2	48.89
	31	48.8	49.1	49.8	49.8	50.1	51.0	50.9	50.8	49.9	50.0	49.7	49.37
Hourly Means	42.95	43.17	43.81	44.13	44.59	45.36	46.32	46.46	45.02	43.27	41.96	42.65	
TEMPERATURE OF THE MAGNET.													
	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
OCTOBER.	1 ^a	61.7	61.3	60.9	60.7	60.4	60.1	60.0	59.9	59.9	60.0	60.3	61.82
	2 ^a	60.6	60.2	60.3	59.9	59.7	59.7	59.3	59.3	59.5	59.8	60.2	60.82
	3 ^a	61.9	61.7	61.7	61.7	61.6	61.6	61.5	61.4	61.3	61.6	61.7	61.84
	4 ^a	62.1	62.0	61.7	61.7	61.6	61.5	61.3	61.4	61.5	61.7	61.8	62.22
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9 ^b	60.8	60.7	60.6	60.5	60.4	60.4	60.4	60.5	60.7	61.1	61.8	60.80
	10	63.0	62.8	62.7	62.7	62.6	62.4	62.5	62.6	62.8	63.4	63.6	63.50
	11	64.0	63.8	63.4	63.3	63.1	62.9	62.9	62.8	63.0	63.2	63.6	64.05
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	63.9	63.7	63.7	63.5	63.5	63.4	63.5	63.5	63.7	63.9	64.7	63.91
	14	66.2	65.8	65.7	65.6	65.4	65.1	65.0	65.0	65.2	65.3	65.5	66.60
	15	63.8	63.4	63.3	63.1	62.9	62.7	62.7	62.7	62.7	62.8	63.0	64.33
	16	61.7	61.5	61.2	61.0	60.8	60.7	60.4	60.2	60.0	60.0	59.9	62.01
	17	58.2	58.0	57.8	57.8	57.5	57.5	57.5	57.5	57.7	58.2	58.6	58.48
	18	58.9	58.7	58.5	58.2	58.1	58.1	57.9	58.0	58.3	58.5	58.8	59.10
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	61.0	60.9	60.8	60.7	60.6	60.5	60.4	60.4	60.6	61.0	61.4	60.61
	21	61.6	61.4	61.3	61.1	60.9	60.8	60.8	61.0	61.4	61.7	62.1	62.08
	22	64.1	63.7	63.5	63.1	62.9	62.7	62.7	62.7	62.8	63.3	63.7	64.03
	23	64.6	64.5	64.2	63.9	63.8	63.7	63.6	63.4	63.5	63.6	63.7	64.60
	24	64.3	64.1	63.9	63.7	63.7	63.7	63.6	63.6	63.7	63.7	64.0	64.47
	25	65.2	65.0	65.1	64.9	64.8	64.7	64.5	64.5	64.6	64.6	64.7	65.43
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	60.4	60.3	60.0	59.8	59.5	59.4	59.0	59.1	59.6	59.7	60.3	62.32
	28	60.6	60.7	60.5	60.2	60.1	60.4	60.4	60.6	60.7	61.2	61.7	61.20
	29	63.1	63.0	62.7	62.6	62.5	62.6	62.7	62.8	63.1	63.7	64.2	63.43
	30	64.5	64.4	64.3	64.2	63.9	64.1	64.1	64.2	64.3	64.7	64.9	64.93
	31	63.7	63.7	63.6	63.5	63.4	63.1	63.1	63.2	63.5	63.7	64.3	64.45
Hourly Means	62.68	62.51	62.34	62.17	62.02	61.95	61.89	61.92	62.10	62.37	62.73	63.02	

* Not included in the means.

^b A new adjustment; bar magnet C.2 taken into use.

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.														
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 .	12 ^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.	Sc. Div.	
	1	49.3	49.5	50.3	50.5	49.4	47.8	47.8	42.6	45.9	46.9	47.0	50.3	49.2
	2	50.4	50.1	49.3	48.6	49.5	48.7	46.0	47.6	48.0	49.5	50.5	54.2	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	51.1
	4	50.9	52.4	50.3	50.4	49.2	46.6	48.3	47.9	48.8	49.1	49.1	49.1	49.1
	5	51.3	51.1	50.8	50.5	49.7	49.7	48.7	48.6	48.5	48.0	49.0	48.5	48.8
	6	47.3	48.5	49.7	49.8	50.2	48.9	48.1	46.0	48.0	48.6	49.7	51.0	51.0
	7	54.5	54.3	53.9	53.9	53.0	52.0	51.0	50.4	50.0	50.9	51.4	52.1	52.3
	8	55.2	56.5	56.6	55.1	54.4	53.2	52.2	52.8	53.1	53.7	54.3	54.1	54.1
	9	56.1	56.5	56.3	56.1	55.1	54.0	53.2	52.9	53.0	53.6	54.0	54.1	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	58.2
	11	53.3	53.2	54.4	53.8	55.4	49.3	47.9	46.6	50.5	49.2	49.4	50.0	51.6
	12	52.8	53.2	53.9	54.7	50.8	45.6	49.0	50.6	49.3	49.9	50.7	51.3	51.7
	13	52.0	51.7	49.2	50.7	51.8	52.0	52.1	51.4	52.8	53.1	52.3	52.5	52.9
	14	57.8	57.1	55.0	55.0	55.0	55.3	54.6	52.7	53.2	53.8	54.2	54.4	55.0
	15	55.6	56.1	56.0	55.1	54.5	55.7	56.0	55.5	54.9	54.4	55.1	56.5	58.0
	16	43.2	41.7	44.9	43.2	36.8	35.0	32.7	41.1	33.5	45.8	45.1	45.9	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	50.9
	18	49.1	50.8	50.0	50.4	49.4	49.0	49.7	49.0	53.0	51.4	53.4	49.9	50.4
	19	47.0	48.3	48.6	47.5	47.3	48.8	48.8	50.6	50.0	49.1	51.6	51.2	51.0
	20	50.0	51.5	53.1	53.7	53.5	53.7	53.7	53.6	54.0	52.6	53.0	53.2	53.8
	21	52.4	52.0	52.4	52.5	52.8	52.8	53.1	53.2	53.0	53.3	53.9	55.5	55.0
	22	51.3	53.8	55.0	54.0	51.3	48.8	45.9	38.7	41.2	42.0	46.0	53.8	56.7
	23	48.3	50.7	51.6	50.4	50.9	48.1	48.2	53.3	50.9	49.2	49.2	50.3	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	55.6
	25	53.0	52.7	52.8	54.0	53.0	53.4	52.0	51.4	52.5	52.4	52.7	53.7	54.3
	26	53.6	52.8	53.1	53.9	53.8	53.7	53.2	52.6	52.5	52.9	53.1	53.4	54.1
	27	53.6	53.1	53.4	54.4	54.9	54.3	53.9	53.6	53.9	54.2	55.2	56.3	53.4
	28	55.4	53.3	48.4	46.8	48.3	47.7	49.6	49.1	51.3	52.8	53.8	53.4	54.6
29	53.8	53.9	54.5	55.4	52.7	51.1	51.2	52.3	52.8	53.5	54.7	56.2	55.5	
Hourly Means	51.89	52.19	52.14	52.02	51.31	50.21	49.88	49.76	50.18	51.04	51.54	52.44	53.13	
TEMPERATURE OF THE MAGNET.														
NOVEMBER.	1	65.0	65.6	66.1	66.7	67.0	67.5	67.7	67.6	67.5	67.1	66.7	66.2	65.8
	2	65.0	65.3	65.5	65.6	65.6	65.6	65.3	65.0	64.7	64.2	63.9	63.7	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	63.1
	4	64.1	64.6	64.8	64.9	65.2	65.3	65.3	65.0	64.7	64.4	64.4	64.1	64.0
	5	65.8	66.5	67.1	67.7	68.4	68.7	68.7	68.7	68.7	68.5	68.3	68.0	67.7
	6	65.5	65.7	65.7	65.7	65.8	65.7	65.7	65.6	65.4	65.1	64.7	64.7	64.5
	7	64.4	64.7	65.0	65.4	65.6	65.7	65.7	65.5	65.0	64.8	64.7	64.4	64.2
	8	64.2	64.6	64.9	65.1	65.1	65.0	64.8	64.5	64.1	63.7	63.2	62.9	62.5
	9	63.6	64.4	65.0	65.8	66.4	66.9	66.9	66.7	66.5	66.0	65.9	65.7	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	61.6
	11	61.0	61.7	62.3	63.0	63.2	63.3	63.5	63.1	62.7	62.6	62.2	62.1	61.9
	12	63.8	64.7	65.5	66.0	66.6	66.8	67.1	67.1	67.0	66.7	66.3	65.9	65.7
	13	65.4	65.8	66.0	66.1	66.0	66.0	66.4	65.8	65.8	65.5	65.0	64.8	64.5
	14	62.3	62.4	62.6	62.8	63.0	63.1	63.2	63.1	62.9	62.7	62.7	62.5	62.5
	15	62.7	63.1	63.6	63.9	64.0	64.1	64.0	63.9	63.8	63.6	63.5	63.2	63.0
	16	63.1	63.7	64.0	64.4	64.6	64.6	64.4	64.3	64.0	63.7	63.4	63.0	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	64.9
	18	65.9	66.6	67.2	67.7	68.2	68.4	68.7	68.6	68.3	67.9	67.7	67.2	66.9
	19	66.7	67.0	67.0	67.2	67.3	67.1	67.4	67.0	66.6	66.3	65.8	65.4	65.2
	20	64.6	64.8	65.1	65.3	65.4	65.6	65.4	65.4	65.3	65.1	64.9	64.7	64.6
	21	64.7	65.2	65.4	65.7	66.0	66.0	65.9	65.7	65.5	64.9	64.7	64.4	64.0
	22	64.7	65.3	66.0	66.7	67.1	67.3	67.6	67.4	67.0	66.9	66.5	65.9	65.6
	23	65.7	66.2	66.8	67.3	67.5	67.6	67.7	67.5	67.4	67.3	66.9	66.6	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	64.5
	25	67.9	68.1	68.5	68.7	68.9	69.0	69.2	68.7	68.5	68.4	67.7	67.1	66.7
	26	68.2	68.8	69.5	70.0	70.6	70.9	70.9	71.0	70.7	70.6	70.4	70.3	70.1
	27	71.1	71.8	72.3	72.8	73.4	73.7	73.8	73.7	73.6	73.2	72.9	72.5	71.9
	28	70.8	71.1	71.5	71.7	71.7	71.7	71.4	71.1	70.7	70.3	69.9	69.5	69.3
	29	69.6	69.7	70.0	70.1	70.0	69.7	69.5	69.0	68.5	68.2	67.8	67.7	67.7
Hourly Means	65.43	65.90	66.30	66.61	66.90	67.01	67.05	66.84	66.60	66.31	66.00	65.70	65.30	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° of Fah°. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.		
NOVEMBER.	1	49.4	49.4	50.1	50.7	51.0	52.6	52.9	53.1	52.0	49.4	49.3	49.43	
	2	—	—	—	—	—	—	—	—	—	—	—		
	3	51.0	51.3	51.5	51.4	51.8	52.0	52.3	52.9	51.2	51.0	50.5		50.43
	4	52.9	50.9	50.4	51.1	52.5	53.2	53.9	53.2	52.5	51.4	51.0		
	5	49.4	50.1	52.3	51.3	52.3	53.2	54.0	53.0	51.2	49.7	49.5		50.38
	6	51.8	52.2	52.1	52.8	53.5	54.6	54.5	54.1	53.3	51.5	52.4		50.82
	7	53.0	52.7	52.8	53.2	53.6	54.7	54.5	53.9	54.2	54.4	55.1		52.99
	8	54.0	54.3	54.3	54.8	55.8	57.1	57.7	57.1	55.6	55.0	55.1		54.84
	9	—	—	—	—	—	—	—	—	—	—	—		55.88
	10	58.1	57.9	57.1	57.7	58.5	59.5	59.2	56.1	54.5	54.1	55.2		
	11	53.6	52.6	52.6	53.8	53.3	57.2	58.2	57.7	55.5	53.0	52.5		52.78
	12	53.0	51.8	52.5	52.5	53.1	52.8	53.6	53.2	53.5	51.2	50.9		51.73
	13	53.4	53.7	53.7	54.5	54.8	55.7	55.4	55.6	57.5	59.2	59.2		53.63
	14	55.3	55.3	55.6	55.9	56.5	57.7	58.6	57.1	56.0	55.2	55.2		55.48
	15	58.0	59.9	61.0	62.2	64.2	68.5	69.0	65.2	56.2	55.4	52.3		58.14
	16	—	—	—	—	—	—	—	—	—	—	—		46.46
	17	52.0	51.5	51.2	51.5	51.9	53.0	52.8	53.3	54.0	53.0	51.0		
	18	50.7	50.9	51.1	53.0	52.3	51.2	51.6	54.0	54.4	52.6	51.3		51.44
	19	52.6	52.7	53.2	53.4	55.1	56.4	57.6	56.5	54.7	52.1	50.9		51.46
	20	53.2	53.2	53.8	54.0	55.1	57.0	57.5	56.4	55.2	53.7	52.7		53.80
	21	55.2	55.3	58.5	58.9	59.2	60.2	60.4	58.3	58.0	55.0	50.5		55.06
	22	52.0	54.8	53.1	51.6	52.5	49.0	50.5	54.1	55.3	52.5	52.5		50.68
	23	—	—	—	—	—	—	—	—	—	—	—		53.12
	24	55.4	55.0	55.1	55.4	55.3	56.8	58.0	57.9	57.3	56.1	55.9		
	25	54.4	54.6	54.7	54.8	55.7	56.9	57.4	57.4	56.3	56.2	54.1		54.18
	26	54.1	54.0	54.4	54.4	55.6	56.9	56.7	56.7	55.0	54.5	54.4		54.14
	27	54.4	53.6	54.0	55.1	56.5	57.6	57.7	58.6	59.9	58.4	54.2		55.18
	28	55.6	55.9	57.7	57.8	55.8	59.9	59.8	58.3	57.7	54.8	55.0		53.87
	29	55.4	55.6	55.5	56.3	57.3	58.4	58.6	58.7	57.8	57.5	57.5		55.26
Hourly Means	53.52	53.57	53.93	54.32	55.01	56.08	56.50	56.10	55.15	53.88	53.13	52.87		

TEMPERATURE OF THE MAGNET.

NOVEMBER.	1	65.3	65.1	64.8	64.5	64.2	64.1	64.0	64.1	64.3	64.4	64.7	65.67
	2	—	—	—	—	—	—	—	—	—	—	—	63.90
	3	63.0	62.9	62.7	62.6	62.5	62.4	62.4	62.6	62.8	63.4	63.7	
	4	63.9	63.9	63.6	63.6	63.4	63.5	63.5	63.7	64.0	64.6	65.1	64.32
	5	67.4	66.9	66.5	66.1	65.7	65.7	65.4	65.3	65.3	65.4	65.5	67.00
	6	64.3	64.1	64.2	64.1	63.8	63.7	63.7	63.7	63.7	63.8	64.1	64.71
	7	64.0	63.8	63.7	63.6	63.4	63.4	63.3	63.3	63.2	63.6	63.7	64.34
	8	62.2	62.0	61.7	61.6	61.3	61.2	61.2	61.3	61.6	62.2	62.7	63.07
	9	—	—	—	—	—	—	—	—	—	—	—	63.12
	10	61.4	61.1	60.6	60.3	60.1	59.8	59.7	59.7	60.0	60.2	60.6	
	11	61.7	61.6	61.5	61.4	61.4	61.4	61.6	61.7	61.9	62.6	63.1	62.19
	12	65.3	64.9	65.0	64.7	64.6	64.4	64.3	64.3	64.4	64.7	65.0	65.45
	13	64.3	64.1	63.8	63.7	63.3	62.9	62.7	62.6	62.5	62.2	62.2	64.48
	14	62.2	62.2	62.0	61.9	61.8	61.8	61.7	61.7	61.9	62.1	62.4	62.40
	15	62.7	62.6	62.1	62.0	61.9	61.7	61.7	61.8	61.8	62.3	62.7	62.90
	16	—	—	—	—	—	—	—	—	—	—	—	64.28
	17	64.8	64.7	64.4	64.3	64.2	64.2	64.3	64.5	64.7	65.0	65.5	
	18	66.8	66.7	66.7	66.6	66.5	66.2	66.2	66.2	66.2	66.2	66.4	67.08
	19	65.0	64.8	64.5	64.1	63.9	63.7	63.7	63.7	64.0	64.3	64.5	65.51
	20	64.5	64.3	64.0	64.0	63.8	63.8	63.8	63.7	63.9	64.1	64.5	64.61
	21	63.7	63.5	63.1	62.9	62.5	62.5	62.5	62.7	63.0	63.5	63.7	64.24
	22	65.3	65.0	64.7	64.6	64.5	64.3	64.3	64.4	64.4	64.8	65.2	65.65
	23	—	—	—	—	—	—	—	—	—	—	—	65.93
	24	64.5	64.5	64.6	64.6	64.5	64.4	64.5	64.7	65.1	65.7	66.2	
	25	66.6	66.2	66.1	65.8	65.7	65.9	66.1	66.4	66.7	67.1	67.5	67.40
	26	69.8	69.7	69.4	69.0	68.7	68.7	68.7	68.9	69.2	69.8	70.5	69.77
	27	71.6	71.0	70.7	70.3	70.1	69.8	69.7	69.7	69.9	70.1	70.5	71.67
	28	68.9	68.7	68.5	68.2	68.0	68.0	67.9	68.1	68.5	68.7	69.0	69.72
	29	67.7	67.7	67.7	67.6	67.5	67.1	66.9	66.9	66.9	67.2	67.3	68.25
Hourly Means	65.08	64.88	64.66	64.48	64.29	64.18	64.15	64.23	64.40	64.72	65.05	65.50	

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.													
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 .	12 ^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.
Nov. 30	57.1	57.3	56.4	56.3	56.4	56.5	56.0	55.6	55.6	56.1	56.4	56.8	—
1	—	—	—	—	—	—	—	—	—	—	—	—	60.3
2	60.3	60.1	59.7	59.9	60.2	58.9	60.1	59.1	58.9	59.4	60.2	60.4	60.7
3	61.7	61.4	61.4	60.4	60.3	59.7	59.5	58.9	59.1	59.5	60.1	60.4	60.6
4	64.6	63.1	56.0	60.4	60.3	58.4	56.7	55.5	52.7	55.5	55.7	58.3	57.4
5	55.6	55.8	56.5	56.4	56.6	55.9	55.9	55.8	55.9	57.7	57.4	57.2	58.4
6	57.5	58.3	58.8	58.7	58.5	58.1	57.4	56.4	57.1	57.6	58.1	58.9	59.1
7	61.4	61.4	61.1	60.9	59.7	59.0	58.7	58.9	58.9	59.3	59.2	58.9	—
8	—	—	—	—	—	—	—	—	—	—	—	—	60.1
9	63.4	62.5	62.7	63.4	62.8	61.1	60.7	59.9	60.6	60.6	61.4	62.3	62.9
10	61.0	60.5	60.6	61.3	60.3	60.6	60.5	60.5	60.4	60.4	60.7	60.6	60.5
11	65.5	64.2	61.9	61.6	61.4	61.6	60.7	60.7	60.8	60.0	60.4	61.4	61.4
12	64.8	64.2	63.5	62.5	61.4	61.1	60.4	59.7	60.2	60.3	60.7	61.0	61.4
13	64.3	63.6	62.5	62.1	60.9	60.7	60.6	60.0	59.9	60.1	60.2	60.6	61.1
14	66.7	66.3	63.7	62.2	62.0	60.7	54.0	46.7	48.1	50.6	54.1	57.1	—
15	—	—	—	—	—	—	—	—	—	—	—	—	56.5
16	61.6	60.0	58.7	59.3	59.3	55.3	56.1	56.7	58.4	59.9	60.0	59.5	59.6
17	59.7	58.7	57.4	57.6	59.2	60.3	61.2	60.7	61.1	60.8	61.2	61.4	61.6
18	63.6	63.9	63.3	62.4	61.2	60.9	61.4	61.2	61.3	62.2	63.3	63.8	63.7
19	61.8	62.7	62.6	61.2	56.7	56.2	54.1	55.8	56.7	57.6	58.4	56.7	58.3
20	62.6	59.1	57.5	54.6	54.2	54.4	54.9	56.3	56.6	59.6	57.4	57.4	58.4
21	56.9	58.8	58.0	57.1	55.1	53.1	56.3	55.7	56.3	56.5	57.9	60.7	—
22	—	—	—	—	—	—	—	—	—	—	—	—	64.6
23	66.7	66.0	64.7	63.9	63.4	63.2	62.2	62.8	62.8	62.9	63.2	63.8	63.6
24	66.1	65.0	64.3	63.8	63.7	63.1	62.5	63.3	62.5	62.4	62.4	62.1	63.1
25	67.2	66.4	65.5	64.0	63.4	62.8	61.9	60.8	60.1	59.7	59.9	60.4	61.5
26	61.4	60.0	62.2	63.5	62.2	62.6	60.9	60.1	56.9	56.8	59.3	60.3	61.8
27	65.5	63.7	62.1	61.7	62.8	62.7	62.3	61.4	61.3	61.3	60.8	61.3	62.6
28	62.4	59.8	59.2	60.3	61.7	61.0	61.6	61.1	60.6	60.2	60.5	60.6	—
29	—	—	—	—	—	—	—	—	—	—	—	—	49.6
30	55.5	55.9	55.4	56.3	58.0	58.3	53.9	51.3	57.6	57.0	59.0	56.1	58.2
31	58.5	59.0	57.6	55.8	57.0	57.6	58.1	57.9	58.8	58.7	59.1	60.7	59.8
Hourly Means	61.98	61.40	60.49	60.28	59.95	59.40	58.84	58.25	58.49	58.99	59.52	59.95	60.25

TEMPERATURE OF THE MAGNET.													
Nov. 30	67.7	68.0	68.5	68.6	68.5	68.3	67.8	67.7	67.7	67.2	67.1	66.7	—
1	—	—	—	—	—	—	—	—	—	—	—	—	63.5
2	64.0	64.6	64.9	65.4	65.7	65.7	65.8	65.5	65.1	64.8	64.6	64.4	64.1
3	65.4	65.7	65.9	66.3	66.6	66.7	66.7	66.3	65.8	65.7	65.5	65.3	64.9
4	66.4	67.2	67.7	68.8	69.1	69.7	69.9	69.8	69.6	69.5	69.1	69.0	68.7
5	68.9	69.4	69.9	70.2	70.4	70.4	70.2	69.9	69.3	68.9	68.6	68.0	67.7
6	68.5	68.7	69.0	69.4	69.7	69.8	69.6	69.0	68.7	68.3	68.1	67.8	67.6
7	67.8	68.0	68.1	68.2	68.3	68.4	68.6	68.3	68.0	67.7	67.2	67.0	—
8	—	—	—	—	—	—	—	—	—	—	—	—	66.9
9	66.8	67.2	67.3	67.5	67.6	67.7	67.7	67.4	66.9	66.7	66.4	66.0	65.7
10	66.2	66.7	67.2	67.7	68.0	68.2	68.6	68.4	68.0	67.6	67.2	66.9	66.7
11	66.7	67.2	67.6	68.0	68.7	68.9	69.1	69.2	69.0	68.7	68.5	68.1	67.7
12	67.7	67.7	68.0	68.3	68.4	68.4	68.0	67.7	67.5	66.8	66.7	66.3	65.9
13	67.2	68.0	68.8	69.4	69.9	70.2	70.4	70.4	70.2	69.9	69.5	69.2	68.9
14	68.9	69.4	69.4	69.9	70.2	70.4	70.6	70.7	70.7	70.7	70.7	70.5	—
15	—	—	—	—	—	—	—	—	—	—	—	—	66.6
16	65.8	66.0	66.5	66.7	67.0	67.4	67.3	67.4	67.3	67.1	66.7	66.5	66.2
17	65.5	65.6	65.7	66.0	66.1	66.2	66.1	66.0	65.8	65.5	65.0	64.7	64.3
18	64.0	64.4	64.8	65.2	65.7	65.8	66.2	66.0	65.7	65.6	65.3	65.3	65.4
19	68.0	68.7	69.7	70.4	71.0	71.7	71.9	71.9	72.0	71.7	71.4	70.8	70.5
20	69.5	69.8	70.4	70.7	71.3	71.7	71.7	71.6	71.1	70.7	70.6	70.1	69.7
21	68.6	69.0	69.3	69.7	70.1	70.3	70.4	70.4	70.2	69.6	69.6	69.3	—
22	—	—	—	—	—	—	—	—	—	—	—	—	64.3
23	63.8	64.5	65.0	65.1	65.3	65.2	65.1	65.0	64.7	64.6	64.1	63.9	63.8
24	65.1	65.7	66.0	66.5	66.7	66.9	67.2	67.0	66.7	66.5	66.1	65.8	65.7
25	68.1	68.6	69.5	69.9	70.5	70.7	70.8	70.7	70.3	70.2	69.7	69.7	69.5
26	69.7	70.3	70.7	71.1	71.5	71.8	71.8	71.6	71.1	70.7	70.3	69.7	69.4
27	67.2	67.7	68.0	68.2	68.2	68.2	68.4	68.1	67.7	67.5	67.0	66.7	66.5
28	67.1	67.4	67.9	68.3	68.6	68.8	69.0	69.0	68.7	68.3	67.9	67.6	—
29	—	—	—	—	—	—	—	—	—	—	—	—	68.2
30	68.3	68.5	68.9	69.3	69.5	69.7	69.7	69.7	69.7	69.7	69.3	68.8	68.3
31	66.9	67.6	68.4	69.0	69.7	70.1	70.3	70.3	70.2	70.0	69.5	69.1	68.7
Hourly Means	67.03	67.47	67.89	68.29	68.60	68.79	68.85	68.73	68.43	68.16	67.84	67.53	66.87

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
Nov. 30	—	—	—	—	—	—	—	—	—	—	—	58·67
1	59·4	59·6	60·1	61·2	61·3	62·7	63·4	62·3	60·7	60·2	60·3	60·94
2	60·8	60·6	60·7	60·7	62·0	63·6	63·9	63·1	63·4	63·1	62·7	61·07
3	61·3	60·5	61·1	61·4	62·2	63·5	63·1	62·9	62·5	60·4	63·7	58·15
4	56·6	56·5	57·6	58·0	58·8	59·3	60·1	60·3	59·5	57·4	56·8	57·85
5	58·1	58·5	59·2	59·0	59·6	61·6	61·9	61·3	59·4	57·4	57·4	59·09
6	59·0	59·4	59·2	59·4	60·4	61·2	61·4	62·1	61·2	59·8	60·6	61·52
7	—	—	—	—	—	—	—	—	—	—	—	63·11
8	60·4	60·7	61·0	61·4	63·3	65·3	66·1	66·2	65·3	64·7	64·5	62·84
9	63·3	64·1	61·9	62·0	64·1	66·1	67·3	67·0	67·3	64·6	62·7	62·84
10	61·8	62·2	62·3	63·1	64·7	66·7	68·2	69·5	68·9	65·6	67·3	62·78
11	62·6	62·7	62·4	63·2	64·3	64·7	64·4	64·4	66·4	65·4	66·1	63·03
12	61·9	62·1	62·6	62·6	63·6	64·2	64·7	66·5	66·8	65·5	65·1	58·80
13	61·6	61·8	62·4	62·5	63·3	64·5	65·4	68·1	69·9	69·3	67·4	59·95
14	—	—	—	—	—	—	—	—	—	—	—	61·74
15	57·3	58·4	58·7	59·1	59·1	60·8	61·9	62·8	63·0	60·6	60·8	64·19
16	60·5	59·6	59·4	59·7	59·7	60·8	62·0	63·4	64·3	63·7	61·3	60·01
17	61·9	62·2	62·4	62·4	63·5	64·2	65·4	65·8	63·8	64·7	64·5	59·80
18	64·0	63·9	64·8	65·6	66·7	68·2	68·8	68·6	66·5	66·1	65·2	63·70
19	59·1	60·1	60·6	61·9	63·2	63·8	63·6	62·7	62·1	62·2	62·2	64·30
20	62·4	61·5	59·9	60·4	61·4	62·6	64·6	66·7	66·4	65·5	60·8	63·36
21	—	—	—	—	—	—	—	—	—	—	—	63·00
22	62·8	62·4	63·1	63·7	64·9	65·4	66·4	66·4	65·4	65·2	66·5	63·29
23	64·2	64·2	64·5	64·3	63·6	63·5	62·2	61·9	62·4	63·5	65·4	58·85
24	63·1	64·1	64·4	64·6	65·2	65·7	65·8	66·5	66·9	66·1	66·6	58·62
25	61·8	63·4	63·2	63·7	64·8	65·8	66·3	66·4	65·7	63·1	62·8	60·44
26	62·6	63·5	64·1	64·1	63·6	65·6	68·3	68·5	68·6	67·9	67·2	61·21
27	62·7	64·1	63·8	64·2	65·3	67·4	66·9	66·3	64·3	62·6	61·9	60·85
28	—	—	—	—	—	—	—	—	—	—	—	60·85
29	53·4	54·9	57·5	57·4	58·4	59·8	59·4	60·3	58·4	58·5	55·8	58·62
30	58·4	59·2	59·8	60·3	61·9	64·5	66·3	65·7	63·4	58·2	56·6	60·44
31	59·5	60·8	61·6	62·5	63·0	64·7	65·0	65·9	64·9	62·8	61·2	61·21
Hourly Means	60·76	61·15	61·42	61·79	62·66	63·93	64·55	64·87	64·35	63·11	62·72	61·21

TEMPERATURE OF THE MAGNET.

Nov. 30	°	°	°	°	°	°	°	°	°	°	°	°
1	63·2	63·0	62·7	62·6	62·4	62·2	62·1	62·4	62·7	63·2	63·5	65·30
2	63·8	63·7	63·5	63·1	62·9	63·0	63·1	63·2	63·5	64·2	64·7	64·30
3	64·7	64·6	64·3	64·2	64·0	63·9	64·2	64·4	64·7	65·2	65·7	65·28
4	68·4	67·9	67·7	67·5	67·1	67·3	67·3	67·5	67·7	67·9	68·5	68·30
5	67·5	67·1	67·2	67·0	66·7	66·7	66·7	66·8	67·1	67·6	67·9	68·34
6	67·3	67·2	66·9	66·8	66·7	66·7	66·8	66·8	67·0	67·4	67·7	67·98
7	—	—	—	—	—	—	—	—	—	—	—	67·03
8	66·7	66·5	66·1	65·7	65·7	65·7	65·6	65·7	65·8	66·1	66·5	66·02
9	65·5	65·2	64·9	64·7	64·4	64·4	64·5	64·6	64·7	65·1	65·6	66·76
10	66·4	66·2	66·0	65·8	65·7	65·6	65·5	65·5	65·7	66·0	66·4	67·78
11	67·7	67·7	67·6	67·4	67·1	66·9	66·8	66·8	66·9	67·1	67·4	66·57
12	65·7	65·5	65·3	65·1	64·9	65·0	65·1	65·4	65·7	65·9	66·6	68·72
13	68·7	68·5	68·1	67·7	67·7	67·5	67·4	67·4	67·7	68·0	68·6	67·74
14	—	—	—	—	—	—	—	—	—	—	—	66·12
15	66·2	65·9	65·5	65·2	65·1	64·7	64·7	64·7	64·7	65·0	65·4	64·49
16	65·9	65·8	65·5	65·4	65·2	65·2	65·1	65·1	65·1	65·2	65·4	65·53
17	64·0	63·7	63·6	63·4	63·0	62·7	62·7	62·8	62·8	63·2	63·4	69·81
18	65·4	65·5	65·7	65·5	65·4	65·4	65·4	65·6	65·9	66·5	67·0	69·55
19	69·9	69·4	68·8	68·7	68·4	68·2	68·2	68·2	68·3	68·7	69·0	66·50
20	69·4	69·0	68·5	68·2	68·0	67·7	67·7	67·7	67·8	68·0	68·2	64·14
21	—	—	—	—	—	—	—	—	—	—	—	66·07
22	63·9	63·7	63·4	63·2	63·1	62·9	62·7	62·7	63·0	63·1	63·6	69·37
23	63·7	63·7	63·6	63·5	63·3	62·9	63·0	63·4	63·7	64·0	64·5	69·17
24	65·7	65·5	65·4	65·2	65·2	65·4	65·5	65·7	66·0	66·7	67·5	66·77
25	69·3	69·2	68·9	68·9	68·7	68·4	68·2	68·3	68·4	69·0	69·4	68·14
26	68·8	68·5	67·9	67·5	67·4	66·9	66·7	66·5	66·5	66·7	66·9	67·83
27	66·3	66·0	65·7	65·5	65·2	65·3	65·3	65·5	65·7	66·0	66·5	68·85
28	—	—	—	—	—	—	—	—	—	—	—	67·83
29	68·2	68·2	68·4	68·4	68·3	67·9	67·7	67·7	67·7	67·9	68·1	68·65
30	67·7	67·2	66·7	66·2	65·7	65·6	65·5	65·6	65·8	66·0	66·5	67·12
31	68·4	68·1	67·9	67·7	67·7	67·5	67·6	67·7	68·1	68·3	68·7	67·12
Hourly Means	66·61	66·39	66·14	65·93	65·74	65·61	65·60	65·69	65·88	66·22	66·64	67·12

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.														
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 .	12 ^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.	
JANUARY.	1	59.3	57.7	55.0	53.7	55.2	58.1	58.2	58.1	59.2	58.9	59.3	58.5	59.4
	2	60.8	60.1	58.9	57.9	58.7	59.4	60.1	60.2	59.5	59.3	59.4	59.3	59.9
	3	62.6	62.6	63.3	64.3	65.1	64.3	63.9	63.1	62.6	62.3	62.6	62.9	62.7
	4	66.7	66.4	65.4	64.4	64.3	64.1	64.2	63.6	63.5	63.4	64.4	64.4	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	64.0
	6	64.4	63.3	62.2	62.1	62.8	63.6	63.8	63.4	62.9	62.6	63.1	63.7	64.1
	7	69.6	69.5	67.9	66.2	64.0	63.6	63.6	62.9	61.8	61.2	61.4	62.4	64.1
	8	66.6	66.5	65.1	64.4	64.4	64.8	64.4	63.5	63.5	64.2	64.4	65.0	65.2
	9	62.7	65.7	61.0	60.1	60.3	59.8	61.0	60.1	58.4	56.4	52.5	60.1	56.0
	10	60.1	61.0	60.3	58.4	59.5	59.9	59.7	59.4	57.2	60.4	59.4	58.9	60.1
	11	59.4	60.3	61.3	60.7	60.4	58.9	58.7	59.7	59.4	59.9	60.5	61.7	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	60.9
	13	60.5	60.1	58.7	57.9	58.9	59.8	59.8	59.7	59.8	59.8	60.5	61.3	61.6
	14	63.8	64.1	63.3	61.3	60.8	59.2	58.8	59.3	60.3	60.7	61.2	63.3	63.5
	15	68.1	65.8	63.2	61.6	61.7	63.3	64.4	63.9	64.4	64.2	64.6	65.0	66.7
	16	69.1	66.7	65.7	65.4	64.4	63.6	63.2	62.4	62.3	61.6	61.9	61.7	61.9
	17	61.4	60.7	61.6	63.3	62.4	62.9	62.7	62.0	59.2	60.1	61.6	62.8	63.4
	18	64.3	64.1	64.2	63.4	63.0	61.5	61.2	61.3	61.6	61.8	62.1	62.3	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	63.5
	20	62.8	61.5	59.6	56.8	57.5	58.7	57.8	59.3	56.4	56.5	59.7	62.9	63.5
	21	61.9	65.6	65.3	64.4	64.8	64.9	64.4	63.2	63.6	63.7	63.7	64.2	64.6
	22	63.0	66.9	67.6	65.3	65.7	65.6	65.3	64.4	64.1	64.3	65.0	64.9	70.4
	23	62.7	64.6	63.9	60.4	62.5	60.9	62.6	63.4	61.7	59.6	62.4	61.9	62.7
	24	59.9	63.3	64.7	64.8	65.3	63.6	57.4	56.2	58.6	59.6	60.7	64.6	62.6
	25	62.2	60.1	59.2	58.6	59.8	59.1	60.5	60.0	60.4	60.3	63.1	62.4	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	65.6
	27	59.8	59.8	58.4	60.5	60.3	62.8	63.4	63.3	63.2	63.2	65.7	64.8	65.0
	28	65.9	64.4	65.4	66.5	62.9	60.3	58.7	57.4	56.5	55.4	55.6	56.9	62.4
	29	64.6	65.9	64.2	61.6	60.5	61.4	60.7	56.2	56.5	60.1	63.4	63.2	63.1
	30	65.3	64.0	63.0	64.2	63.7	62.7	62.4	60.6	60.8	63.9	62.2	63.5	64.2
	31	65.2	65.0	64.5	64.7	64.7	63.7	63.5	63.5	63.4	63.5	63.7	64.4	64.2
Hourly Means	63.43	63.54	62.70	61.96	61.99	61.87	61.64	61.11	60.77	61.00	61.63	62.48	63.16	
TEMPERATURE OF THE MAGNET.														
	1	2	3	4	5	6	7	8	9	10	11	12	13	
	69.1	69.5	69.9	70.2	70.5	70.8	71.1	71.0	70.9	70.7	70.6	70.3	70.0	
JANUARY.	1	69.1	69.5	69.9	70.2	70.5	70.8	71.1	71.0	70.9	70.7	70.6	70.3	70.0
	2	69.6	69.7	70.0	70.2	70.2	70.2	70.1	69.9	69.7	69.5	69.0	68.7	68.5
	3	66.1	66.2	66.5	66.6	66.6	66.7	66.6	66.5	66.2	65.9	65.7	65.3	64.9
	4	65.1	65.2	65.6	65.8	66.0	66.1	66.0	65.8	65.7	65.7	65.6	65.4	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	67.1
	6	68.2	68.7	69.1	69.6	69.8	70.1	70.2	70.1	69.8	69.4	69.1	68.9	68.7
	7	69.7	70.4	70.7	71.2	71.6	71.6	71.5	71.4	70.9	70.7	70.6	70.4	69.9
	8	68.2	68.7	68.9	69.1	69.3	69.3	69.4	69.4	68.9	68.6	68.3	68.1	67.9
	9	68.2	68.6	68.8	69.0	69.1	69.1	69.0	68.7	68.3	68.1	67.7	67.7	67.7
	10	68.0	68.3	68.7	69.0	69.3	69.5	69.4	69.0	68.7	68.7	68.4	68.2	68.0
	11	68.7	69.3	69.7	70.2	70.7	70.8	70.9	70.7	70.4	70.0	69.7	69.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	70.0
	13	70.4	70.8	71.4	72.0	72.3	72.6	72.7	72.7	72.1	71.8	71.7	71.5	71.0
	14	70.6	71.2	71.7	72.2	72.3	72.3	72.1	71.8	71.4	70.7	70.4	69.9	69.4
	15	67.5	67.7	68.0	68.3	68.5	68.6	68.7	68.4	68.2	67.9	67.8	67.5	67.0
	16	69.1	70.1	70.7	71.7	72.6	73.1	73.7	74.0	74.1	74.1	73.7	73.4	73.2
	17	72.2	72.7	73.0	73.3	73.6	73.7	73.6	73.4	73.3	72.9	72.4	71.9	71.6
	18	71.7	72.4	72.8	73.4	73.7	73.9	73.9	73.9	73.7	73.4	73.4	72.9	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	68.0
	20	66.8	67.1	67.3	67.4	67.5	67.7	67.7	67.6	67.4	67.2	66.9	66.6	66.4
	21	66.0	66.4	66.7	66.9	67.2	67.4	67.7	67.7	67.6	67.5	67.2	67.0	66.7
	22	66.1	66.3	66.6	66.7	66.8	67.0	67.4	67.4	67.4	67.1	66.9	67.0	67.1
	23	67.6	67.8	68.1	68.7	68.9	69.3	69.5	69.9	70.0	70.0	69.9	69.8	69.5
	24	68.7	69.2	69.5	69.9	70.0	70.0	70.0	69.8	69.6	69.0	68.7	68.5	68.1
	25	67.7	68.3	68.8	69.3	69.7	70.0	70.0	69.9	69.6	69.4	68.9	68.5	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	68.7
	27	68.4	69.0	69.5	69.8	69.8	69.9	69.9	69.7	69.1	68.7	68.4	68.0	67.7
	28	68.1	68.4	69.0	69.7	70.3	70.7	71.0	71.0	70.8	70.7	70.7	70.5	70.2
	29	69.6	69.7	69.9	70.0	70.0	69.9	69.6	69.2	68.7	68.3	67.8	67.7	67.7
	30	67.4	68.1	68.7	69.0	69.5	69.7	69.7	69.6	69.1	68.7	68.5	68.0	67.7
	31	68.1	68.7	69.4	70.0	70.2	70.5	70.7	70.6	70.4	70.0	69.6	69.3	69.0
Hourly Means	68.40	68.83	69.22	69.60	69.85	70.02	70.08	69.97	69.71	69.44	69.17	68.91	68.58	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JANUARY.	1	59.3	60.1	59.9	60.6	63.4	64.6	66.2	66.1	62.6	61.1	59.8	59.76
	2	60.3	60.4	60.3	60.9	61.8	63.8	65.4	65.4	65.1	62.6	62.1	60.90
	3	63.6	64.2	65.4	64.8	65.9	67.2	68.4	68.6	68.0	66.1	65.1	64.57
	4	—	—	—	—	—	—	—	—	—	—	—	66.16
	5	64.4	65.0	64.8	65.5	67.6	70.0	72.3	72.4	71.3	69.3	66.4	65.13
	6	64.4	64.6	64.6	65.3	66.4	68.1	69.6	70.1	70.0	68.7	69.2	65.46
	7	64.1	63.5	64.4	65.0	66.7	68.4	69.2	68.9	68.1	67.8	66.8	64.90
	8	65.2	65.6	65.8	66.2	67.4	67.4	66.4	66.1	63.2	61.6	60.7	59.72
	9	54.6	53.1	54.8	59.6	60.5	62.1	63.3	63.4	62.9	63.4	61.4	60.44
	10	61.0	61.1	60.8	61.5	62.2	62.4	63.3	62.4	61.3	60.2	60.1	60.50
	11	—	—	—	—	—	—	—	—	—	—	—	62.05
	12	60.9	60.4	60.6	61.2	62.4	62.4	62.6	62.2	59.8	58.4	59.3	63.73
	13	62.4	62.5	63.1	62.9	63.7	64.7	66.7	67.9	68.2	65.4	63.4	66.09
	14	64.1	64.4	65.3	65.6	66.3	67.0	66.5	69.0	67.8	67.1	66.8	63.98
	15	66.6	66.9	66.4	67.0	67.4	67.6	68.3	69.8	69.6	69.9	69.8	63.18
	16	62.9	63.4	63.0	63.6	64.8	66.3	64.8	65.5	65.7	64.0	61.7	62.88
	17	63.1	62.8	63.5	64.6	64.2	64.4	64.9	66.6	66.6	66.2	65.4	61.84
	18	—	—	—	—	—	—	—	—	—	—	—	64.70
	19	62.6	61.4	62.7	63.4	65.0	64.0	64.0	63.9	62.1	63.3	62.3	65.58
	20	64.2	64.5	65.5	65.2	65.8	66.2	66.3	65.4	63.5	62.9	61.7	63.40
	21	63.6	64.4	64.4	65.3	66.3	67.1	67.2	67.2	66.4	63.6	63.1	62.84
	22	67.1	67.0	66.2	66.0	67.3	67.4	69.3	67.6	63.4	60.5	59.5	62.93
	23	62.8	63.1	67.6	67.6	66.4	67.1	69.1	68.0	63.1	59.3	58.2	64.28
	24	62.3	64.5	65.5	64.0	64.9	66.0	66.2	64.4	64.2	64.2	60.6	62.00
	25	—	—	—	—	—	—	—	—	—	—	—	63.35
	26	65.9	65.4	67.5	67.0	65.8	64.4	67.3	66.2	64.9	63.1	61.4	64.86
	27	64.7	65.0	65.1	65.5	66.3	66.7	67.4	69.4	69.0	67.4	65.9	65.20
	28	60.5	62.1	62.1	62.5	63.8	63.8	65.5	66.1	64.6	65.3	63.5	63.35
	29	61.3	62.0	63.4	64.2	64.3	65.5	66.8	67.9	68.0	68.3	67.3	64.86
	30	64.3	64.6	64.9	65.4	65.9	67.1	69.2	70.4	69.9	68.0	66.5	65.20
	31	65.0	65.3	65.3	65.1	66.2	66.8	67.0	67.6	67.9	67.2	67.3	63.35
Hourly Means	63.01	63.23	63.81	64.28	65.14	65.87	66.79	66.98	65.82	64.63	63.53	63.35	

TEMPERATURE OF THE MAGNET.

JANUARY.	1	69.7	69.6	69.3	69.2	68.9	68.7	68.7	68.7	68.9	69.1	69.4	69.78
	2	68.3	68.1	67.7	67.5	67.2	66.8	66.6	66.4	66.2	66.0	66.0	68.42
	3	64.7	64.7	64.5	64.4	64.2	63.9	63.9	64.0	64.3	64.5	64.9	65.33
	4	—	—	—	—	—	—	—	—	—	—	—	66.00
	5	66.7	66.4	66.2	66.1	65.9	65.7	65.7	65.7	66.2	66.7	67.5	68.85
	6	68.6	68.4	68.0	67.9	67.7	67.9	67.9	68.1	68.2	68.7	69.3	69.54
	7	69.6	69.2	68.7	68.2	67.7	67.4	67.2	67.3	67.5	67.7	67.9	68.18
	8	67.7	67.6	67.5	67.3	67.2	67.2	67.3	67.3	67.5	67.7	67.8	67.87
	9	67.6	67.5	67.5	67.3	67.1	66.8	66.7	66.7	67.0	67.2	67.4	68.09
	10	67.8	67.4	67.3	67.1	66.9	66.9	66.9	67.2	67.5	67.7	68.2	69.69
	11	—	—	—	—	—	—	—	—	—	—	—	70.93
	12	69.7	69.5	69.5	69.1	68.9	68.8	69.0	69.0	69.1	69.5	69.8	69.58
	13	70.7	70.6	70.2	70.1	69.9	69.7	69.2	69.1	69.6	69.8	70.3	67.52
	14	69.1	68.8	68.4	68.0	67.6	67.3	67.1	67.0	66.9	66.8	67.0	72.28
	15	66.8	66.7	66.7	66.7	66.6	66.5	66.6	66.8	67.1	67.6	68.3	71.78
	16	73.0	72.8	72.3	72.0	71.7	71.6	71.5	71.5	71.5	71.5	71.8	69.93
	17	71.2	70.8	70.6	70.3	70.1	70.1	70.0	70.1	70.2	70.7	71.1	66.64
	18	—	—	—	—	—	—	—	—	—	—	—	66.62
	19	67.6	67.4	67.1	66.7	66.3	66.0	65.9	65.8	65.8	66.1	66.6	66.62
	20	66.3	66.3	66.1	66.0	66.0	66.1	65.9	65.8	65.8	65.7	65.8	66.92
	21	66.7	66.6	66.5	66.3	66.1	65.9	65.7	65.7	65.7	65.7	65.9	68.84
	22	67.1	67.2	67.0	66.9	66.8	66.7	66.7	66.7	66.7	67.0	67.4	68.26
	23	69.2	68.9	68.7	68.7	68.3	68.2	68.1	68.1	68.0	68.4	68.5	68.51
	24	67.7	67.6	67.2	66.9	66.8	66.7	66.6	66.6	66.7	67.1	67.4	68.22
	25	—	—	—	—	—	—	—	—	—	—	—	69.79
	26	68.5	68.4	68.0	67.7	67.5	67.5	67.4	67.3	67.4	67.6	68.1	67.82
	27	67.7	67.5	67.5	67.4	67.2	66.8	66.7	66.7	67.0	67.3	67.6	67.85
	28	70.1	69.8	69.5	69.4	69.4	69.4	69.3	69.2	69.2	69.0	69.2	69.16
	29	67.2	67.1	66.7	66.2	66.0	65.8	65.7	65.8	65.9	66.4	66.7	68.61
	30	67.5	67.2	66.7	66.7	66.4	66.3	66.5	66.4	66.7	66.9	67.5	69.16
	31	68.7	68.6	68.5	68.4	68.3	68.2	68.2	68.3	68.4	68.7	69.0	68.61
Hourly Means	68.35	68.17	67.92	67.72	67.51	67.37	67.30	67.31	67.44	67.67	68.01	68.61	

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.														
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 .	12 ^h .	
FEBRUARY.	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.	
	1	67.0	67.2	67.6	67.4	65.4	65.3	64.4	63.6	64.2	64.2	63.9	64.6	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	64.7
	3	68.4	66.8	66.3	65.6	65.7	65.5	65.5	64.6	64.4	64.5	64.5	65.4	65.4
	4	64.4	64.1	64.6	65.5	65.4	64.8	64.2	64.1	64.1	64.8	65.2	65.3	65.4
	5	68.3	67.6	68.1	66.7	63.8	58.3	55.6	56.4	60.6	62.5	63.6	65.5	66.4
	6	66.1	64.6	63.7	64.2	64.1	63.5	63.6	63.8	64.1	64.2	64.4	65.1	65.9
	7	67.8	68.4	68.3	67.6	67.4	66.2	66.1	66.4	66.0	65.7	64.6	66.2	66.7
	8	65.7	64.5	65.5	66.0	66.3	66.3	66.3	65.6	65.3	65.3	66.3	66.4	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	68.0
	10	68.2	67.6	66.8	66.9	66.7	66.6	66.1	65.7	64.6	64.4	64.7	65.4	65.6
	11	65.7	65.4	65.6	65.5	66.6	67.7	66.7	65.4	65.6	65.1	65.0	66.1	66.9
	12	67.4	64.6	64.1	65.2	64.7	64.4	64.2	64.0	64.0	64.2	64.4	65.3	65.8
	13	69.2	69.2	67.6	66.9	65.9	65.0	65.1	64.4	63.9	64.0	64.8	64.8	65.2
	14	69.8	68.1	66.7	66.1	65.9	66.0	66.2	65.7	65.6	65.4	65.4	65.9	65.9
	15	68.6	67.7	67.5	66.7	66.2	66.0	66.4	65.9	65.8	65.9	66.1	66.4	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	68.4
	17	70.4	70.4	69.6	68.6	67.4	65.4	64.2	63.6	64.7	66.1	67.1	66.8	67.5
	18	68.8	67.6	65.9	66.0	65.7	65.8	65.7	66.1	65.7	66.0	66.3	66.5	66.4
	19	66.9	66.6	66.3	66.6	67.2	67.5	66.7	65.8	65.4	66.0	66.6	67.2	66.7
	20	74.3	72.4	66.3	66.3	67.3	68.3	67.4	66.6	65.5	66.2	65.4	67.2	66.4
	21	65.0	64.9	64.5	63.2	65.3	64.6	61.6	60.4	60.8	63.1	64.7	64.6	64.4
	22	63.0	63.4	63.4	62.4	61.0	59.4	61.1	61.5	62.8	62.4	64.5	64.2	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	67.5
	24	60.0	60.8	61.4	61.9	62.4	63.8	62.7	63.4	59.7	57.6	61.7	59.4	62.6
	25	63.3	64.3	59.4	57.7	59.3	61.5	61.4	58.9	59.2	59.3	61.4	63.4	66.4
	26	61.2	55.0	54.4	56.6	57.4	60.3	60.3	60.5	60.8	61.5	63.7	62.8	64.9
	27	67.1	65.5	63.4	63.1	62.7	64.0	63.8	63.7	64.1	64.9	62.9	63.4	64.5
28	67.5	64.3	63.4	62.1	62.9	62.5	64.3	63.8	62.0	64.6	65.3	64.0	64.4	
Hourly Means	66.84	65.88	65.02	64.78	64.70	64.53	64.15	63.75	63.70	64.08	64.69	65.08	65.92	
TEMPERATURE OF THE MAGNET.														
FEBRUARY.	1	69.7	69.9	70.7	71.0	71.3	71.4	71.0	70.7	70.3	69.7	69.5	69.0	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	70.1
	3	69.9	70.3	70.7	71.3	71.6	71.7	71.7	71.5	70.9	70.7	70.3	70.1	69.7
	4	69.9	70.4	70.7	71.0	71.1	71.1	71.0	70.7	70.3	69.9	69.8	69.5	69.0
	5	68.8	69.5	70.0	70.5	70.8	70.9	70.7	70.7	70.4	69.9	69.8	69.6	69.4
	6	67.7	67.8	68.2	68.4	68.5	68.5	68.2	68.1	67.7	67.7	67.5	67.2	66.9
	7	66.7	66.9	67.4	67.6	67.7	68.1	68.1	68.1	67.9	67.7	67.5	67.1	67.0
	8	66.9	67.3	67.7	68.0	68.4	68.6	68.4	68.2	68.0	67.7	67.4	67.2	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	67.2
	10	67.5	68.0	68.9	69.4	70.0	70.4	70.6	70.6	70.4	70.1	69.7	69.5	69.3
	11	69.9	70.4	70.8	71.1	71.4	71.6	71.0	71.0	70.8	70.6	70.4	70.2	69.8
	12	70.7	71.2	71.8	72.4	72.7	72.9	72.8	72.7	72.3	72.0	71.8	71.7	71.7
	13	70.9	71.1	71.7	72.0	72.3	72.4	72.5	72.4	72.3	72.0	71.7	71.7	70.9
	14	70.2	70.4	70.6	70.7	70.9	71.5	71.7	71.7	71.7	71.6	71.1	70.7	70.6
	15	69.7	70.0	70.3	70.7	70.8	71.0	71.2	71.2	71.2	70.9	70.7	70.5	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	65.8
	17	65.6	66.2	66.7	67.5	68.0	68.7	68.9	69.0	69.0	68.8	68.9	68.7	68.5
	18	69.3	69.9	70.4	70.9	71.2	71.3	71.5	71.2	70.8	70.4	69.7	69.2	68.9
	19	69.7	70.2	70.7	71.2	71.7	71.8	71.9	71.7	71.4	70.8	70.5	70.0	69.6
	20	68.3	68.6	68.8	69.0	69.0	68.9	68.7	68.0	67.7	67.5	67.2	67.0	66.7
	21	67.0	67.7	68.6	69.0	69.6	69.7	69.7	69.7	69.6	69.4	69.1	69.0	69.0
	22	69.7	70.2	70.6	70.7	70.9	70.9	71.1	70.9	70.6	70.4	70.3	70.0	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	70.7
	24	70.6	71.1	71.7	72.1	72.4	72.4	72.7	72.6	72.3	71.9	71.4	71.2	70.9
	25	71.7	72.1	72.7	72.8	73.1	73.2	72.9	72.7	72.5	72.3	72.0	71.7	71.7
	26	70.4	70.8	71.1	71.4	71.5	71.6	71.2	71.0	70.7	70.5	70.1	69.8	69.3
	27	68.5	68.7	68.8	69.0	69.1	69.2	69.1	69.1	68.8	68.5	68.2	67.7	67.6
	28	66.9	67.5	67.7	68.0	68.5	68.5	68.7	68.5	68.4	68.0	67.8	67.6	67.5
Hourly Means	69.01	69.43	69.89	70.24	70.52	70.68	70.64	70.50	70.25	69.96	69.68	69.41	69.08	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
FEBRUARY.	—	—	—	—	—	—	—	—	—	—	—	65.75	
	1	65.0	65.2	65.4	65.5	65.5	65.9	66.6	66.2	66.3	67.7	69.2	66.32
	2	66.5	64.7	66.0	66.2	67.1	67.5	68.9	69.5	69.3	67.9	65.5	65.97
	3	65.5	66.1	66.4	66.5	66.6	67.6	68.9	68.9	68.5	68.2	68.2	63.91
	4	64.2	64.4	64.4	63.5	64.4	64.3	64.6	66.1	67.2	63.8	63.6	65.67
	5	65.6	66.1	66.0	66.9	66.9	68.2	69.3	69.4	68.0	66.4	66.0	66.92
	6	66.9	67.4	67.5	68.2	67.2	67.8	68.6	67.8	66.6	65.7	65.0	67.45
	7	—	—	—	—	—	—	—	—	—	—	—	66.21
	8	68.1	67.1	68.2	68.6	68.7	68.6	70.2	71.2	71.4	70.2	69.0	67.34
	9	66.4	65.9	66.9	66.6	66.6	66.8	67.3	66.6	65.4	65.5	65.7	65.85
	10	67.4	67.4	67.7	68.0	68.4	69.6	70.7	71.4	71.4	69.2	67.9	66.70
	11	66.1	66.9	68.2	67.6	66.4	66.4	67.7	67.7	66.7	66.5	67.8	66.43
	12	65.5	66.5	66.4	66.3	66.5	66.9	67.4	67.9	69.1	70.6	71.8	68.51
	13	66.0	65.9	65.9	65.8	66.4	66.5	67.6	67.9	66.5	65.8	67.4	68.70
	14	—	—	—	—	—	—	—	—	—	—	—	67.28
	15	68.6	69.1	69.0	69.4	69.8	70.4	71.6	72.1	73.4	72.4	70.8	68.69
	16	67.7	68.3	68.9	70.1	70.1	70.6	71.4	72.6	74.2	72.5	70.5	68.05
	17	66.5	66.8	67.4	67.3	68.0	68.5	70.4	70.6	69.4	69.1	68.1	64.48
	18	68.4	68.4	68.5	68.4	69.3	71.2	73.9	74.4	73.4	72.4	74.7	63.61
	19	69.4	67.9	66.9	67.0	68.4	69.3	70.2	69.7	70.3	67.4	67.2	62.88
	20	66.2	65.5	65.0	65.8	65.8	66.4	66.5	67.5	67.2	61.6	62.8	62.22
	21	—	—	—	—	—	—	—	—	—	—	—	62.37
	22	66.0	64.7	65.5	65.4	66.7	65.1	64.4	65.4	64.4	62.1	60.4	65.19
	23	64.4	64.1	64.2	64.4	63.7	65.7	66.5	65.9	66.0	64.4	62.4	65.04
	24	61.7	62.4	63.4	63.4	63.5	63.9	65.1	65.7	65.4	62.1	61.2	66.90
	25	64.7	64.1	64.7	64.9	64.6	65.6	67.2	67.0	65.0	64.3	65.4	67.00
	26	64.7	66.9	65.6	64.9	65.9	66.1	67.3	67.7	68.6	66.7	67.0	67.35
	27	64.5	67.5	65.4	65.2	65.0	66.2	67.6	67.4	66.7	67.1	67.3	68.88
28	—	—	—	—	—	—	—	—	—	—	—	70.19	
Hourly Means	66.08	66.22	66.40	66.50	66.73	67.30	68.33	68.61	68.35	67.07	66.87	69.17	

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°	
FEBRUARY.	—	—	—	—	—	—	—	—	—	—	—	69.79	
	1	69.9	69.7	69.5	69.3	69.0	68.7	68.7	68.7	68.7	69.1	69.4	69.98
	2	69.5	69.3	69.2	69.0	68.8	68.7	68.7	68.7	68.7	69.0	69.4	69.30
	3	68.9	68.7	68.4	67.9	67.7	67.7	67.6	67.5	67.8	68.0	68.5	69.18
	4	69.1	68.8	68.5	68.3	68.2	67.9	67.7	67.7	67.7	67.6	67.7	67.09
	5	66.7	66.7	66.5	66.3	66.2	65.8	65.7	65.7	65.7	66.0	66.4	67.00
	6	66.7	66.7	66.6	66.5	66.4	66.1	66.1	66.1	66.1	66.3	66.5	67.23
	7	—	—	—	—	—	—	—	—	—	—	—	69.18
	8	67.1	66.9	66.7	66.7	66.4	66.4	66.3	66.2	66.4	66.5	66.8	70.20
	9	69.1	69.0	68.7	68.7	68.5	68.3	68.2	68.3	68.6	68.9	69.5	71.39
	10	69.7	69.6	69.4	69.4	69.4	69.2	69.3	69.5	69.7	70.0	70.5	71.14
	11	71.5	71.4	71.1	70.9	70.6	70.4	70.1	70.0	70.0	70.0	70.6	70.32
	12	70.7	70.7	70.8	70.7	70.6	70.2	70.0	69.9	69.9	69.9	70.0	67.73
	13	70.3	70.1	69.7	69.7	69.5	69.2	69.0	69.0	69.0	69.2	69.5	67.83
	14	—	—	—	—	—	—	—	—	—	—	—	69.50
	15	65.7	65.5	65.0	64.7	64.6	64.3	64.1	64.0	64.2	64.6	64.9	69.61
	16	68.3	68.0	67.7	67.4	67.2	66.8	66.9	66.9	67.5	68.0	68.7	67.31
	17	68.7	68.7	68.5	68.3	67.2	68.4	68.4	68.5	68.7	68.8	69.2	68.88
	18	69.0	68.7	68.7	68.3	68.0	67.7	67.7	67.7	67.7	67.8	68.1	70.19
	19	66.8	66.5	66.4	66.4	66.2	66.2	66.1	66.1	66.2	66.4	66.7	71.10
	20	68.9	68.8	68.7	68.7	68.7	68.6	68.4	68.4	68.5	68.8	69.4	71.58
	21	—	—	—	—	—	—	—	—	—	—	—	69.54
	22	70.4	70.3	70.0	69.8	69.9	69.6	69.2	69.2	69.5	69.7	70.0	67.69
	23	70.7	70.4	70.1	69.9	69.9	69.9	69.9	70.0	70.3	70.7	71.2	67.35
	24	71.6	71.2	71.2	70.9	70.7	70.5	70.2	70.0	69.9	70.1	70.2	69.17
	25	69.1	68.8	68.7	68.4	68.1	67.8	67.7	67.5	67.7	67.7	68.1	69.88
	26	67.5	67.2	66.9	66.7	66.5	66.2	66.0	66.0	66.1	66.5	66.7	70.19
	27	67.4	67.1	66.8	66.7	66.5	66.3	66.0	66.0	66.1	66.7	67.1	71.10
28	—	—	—	—	—	—	—	—	—	—	—	71.58	
Hourly Means	68.89	68.70	68.49	68.32	68.12	67.95	67.83	67.82	67.95	68.18	68.55	69.17	

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah° = .00022.														
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 .	12 ^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.	
MARCH.	1	66.6	66.4	66.4	66.0	65.4	65.0	64.4	64.2	64.4	64.3	65.0	64.7	
	2	—	—	—	—	—	—	—	—	—	—	—	66.7	
	3	68.4	68.4	68.1	67.6	67.4	68.0	67.9	67.4	66.7	66.4	67.6	67.9	68.6
	4	69.7	70.0	69.6	69.2	69.3	69.1	69.4	68.8	68.5	68.5	69.6	69.8	70.1
	5	70.1	70.4	69.4	69.1	68.4	68.1	67.6	67.1	66.8	66.8	67.2	67.4	67.6
	6	72.2	71.2	70.3	69.4	69.2	68.7	67.7	67.2	67.0	67.3	67.3	67.4	68.3
	7	70.2	70.2	67.2	67.6	67.0	67.1	65.7	63.5	63.1	63.9	64.0	65.6	65.4
	8	66.7	67.0	66.5	66.5	66.7	66.2	65.7	65.5	65.6	65.2	65.9	66.4	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	66.4
	10	67.9	67.4	65.4	65.5	66.1	65.8	65.0	64.9	64.6	64.6	64.9	65.1	65.8
	11	66.6	66.2	65.8	65.3	65.2	64.1	63.8	63.3	64.2	64.1	64.9	64.1	64.8
	12	65.4	65.1	64.6	65.1	65.6	65.1	64.4	64.1	64.3	64.3	64.4	65.4	66.2
	13	68.2	68.4	66.4	65.2	64.4	64.3	63.7	63.1	63.7	63.4	63.7	64.6	65.6
	14	68.6	67.7	65.0	62.4	62.6	62.4	61.8	59.4	60.6	61.6	64.6	64.4	63.6
	15	66.3	65.1	64.4	64.5	65.6	65.2	64.3	63.0	62.2	61.6	65.0	67.0	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	67.9
	17	65.8	66.1	65.6	64.7	64.4	64.4	64.0	63.5	63.7	64.9	64.8	65.2	66.7
	18	67.0	65.4	65.6	65.3	63.2	62.0	62.4	62.8	62.1	63.2	65.5	66.1	63.6
	19	69.1	68.4	68.1	67.7	67.3	65.7	61.4	59.7	57.2	60.5	59.3	63.8	63.4
	20	69.3	68.5	69.3	69.4	67.4	59.8	49.4	55.8	57.9	59.7	60.5	61.2	— ^a
	21	—	—	—	—	—	—	—	—	—	—	—	—	62.5
	22	64.4	63.2	62.9	62.4	62.5	61.7	61.6	61.2	61.4	61.6	62.1	62.7	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	63.1
	24	64.7	62.4	64.4	63.7	59.4	58.0	57.2	60.0	59.2	57.5	60.4	61.9	63.9
	25	62.6	63.6	63.0	63.3	63.4	60.3	61.8	63.0	62.9	63.4	64.4	64.4	65.4
	26	65.6	64.7	62.6	62.4	62.0	62.4	60.9	59.3	64.4	61.5	63.4	64.8	64.8
	27	62.4	63.4	61.1	64.0	63.6	59.0	59.5	58.1	58.7	62.9	60.7	61.3	62.3
	28	62.8	62.0	60.4	62.1	63.2	62.4	61.5	61.3	61.2	61.3	62.5	60.0	60.5
	29	57.7	58.9	58.3	57.7	58.0	58.4	58.4	58.7	58.1	58.1	60.1	59.8	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	62.2
	31	64.5	63.5	62.6	62.2	62.1	62.4	63.4	63.4	64.0	64.4	64.8	64.6	65.4
Hourly Means	66.51	66.14	65.32	65.13	64.78	63.82	62.92	62.73	62.90	63.24	64.10	64.62	65.23	

TEMPERATURE OF THE MAGNET.													
MARCH.	1	67.6	67.9	68.5	68.8	69.0	69.0	69.0	68.9	68.7	68.5	68.2	67.9
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	65.2	65.6	65.7	65.8	66.0	66.0	65.8	65.7	65.4	65.1	64.8	64.7
	4	64.1	64.4	64.8	65.6	65.8	65.9	66.4	66.2	65.9	65.7	65.2	64.7
	5	65.3	65.7	66.3	67.0	67.4	67.8	67.9	68.1	67.8	67.7	67.5	67.5
	6	66.3	66.7	67.6	68.2	68.7	69.2	69.3	69.6	69.6	69.2	69.3	69.0
	7	68.6	68.8	69.4	70.0	70.4	70.8	71.0	71.1	71.0	70.7	70.5	70.1
	8	68.7	69.0	69.6	69.7	70.0	70.3	70.0	69.8	69.5	69.2	68.7	68.2
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	66.3	66.9	67.7	68.5	69.2	69.7	69.7	69.7	69.8	69.7	69.5	69.2
	11	69.8	70.5	70.9	71.2	71.5	71.2	71.0	70.8	70.7	70.5	70.4	70.2
	12	70.5	70.9	71.5	71.9	72.5	72.7	72.7	72.7	72.3	72.0	72.1	71.8
	13	70.2	70.5	70.7	71.1	71.5	71.7	71.8	71.7	71.5	71.1	70.7	70.4
	14	68.4	68.7	68.7	69.1	69.3	69.4	69.7	69.7	69.5	69.3	68.8	68.7
	15	67.6	68.1	68.5	68.8	69.0	69.0	69.4	69.3	69.0	68.7	68.4	68.3
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	67.7	68.1	68.5	68.8	69.1	69.6	69.5	69.4	69.3	69.2	68.9	68.8
	18	68.7	69.5	70.0	70.5	71.0	71.2	71.0	71.4	70.9	70.7	70.6	70.2
	19	68.6	69.0	69.3	69.7	70.0	70.2	70.5	70.5	70.3	70.0	69.7	69.4
	20	68.9	69.3	69.7	69.9	70.2	70.5	70.7	70.9	70.9	70.7	70.7	70.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	—	—	—	—	—	—	71.0	71.0	70.8	70.7	70.4
	23	69.2	69.7	70.3	70.7	71.1	71.4	71.1	—	—	—	—	—
	24	66.8	66.9	67.5	67.5	67.7	67.7	67.4	67.2	67.1	66.8	66.5	66.4
	25	66.0	66.5	66.7	67.0	67.4	67.6	67.5	67.5	67.3	67.1	67.0	66.8
	26	66.3	66.8	67.2	67.6	68.1	68.3	68.4	68.0	67.6	67.4	66.7	66.5
	27	66.8	67.7	68.3	68.8	69.4	69.9	70.0	70.0	70.0	69.7	69.6	69.2
	28	69.8	70.6	71.6	72.3	72.8	73.6	73.7	73.7	73.6	73.2	73.2	72.9
	29	72.6	73.1	73.6	74.0	74.5	74.7	74.5	74.4	74.1	73.9	73.5	73.0
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	70.2	70.4	70.6	70.7	70.7	70.5	70.1	69.8	69.4	69.0	68.9	68.5
Hourly Means	68.01	68.45	68.93	69.33	69.69	69.92	69.92	69.88	69.69	69.44	69.20	68.91	

^a Good Friday.

HORIZONTAL FORCE.												
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.												
Mean Göttingen Time.	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.
MARCH.	1	—	—	—	—	—	—	—	—	—	—	—
	2	66.8	68.0	67.7	68.9	69.0	68.4	69.5	70.3	70.2	69.6	69.1
	3	69.1	70.4	69.4	69.3	69.8	69.8	70.7	70.2	68.0	69.0	69.4
	4	70.4	70.0	70.1	69.9	70.0	70.6	72.4	73.1	71.6	70.7	70.1
	5	68.1	68.1	68.2	68.3	68.4	68.9	69.9	70.1	70.2	70.3	71.6
	6	68.4	68.5	69.0	68.7	68.4	68.7	69.8	70.1	71.1	71.4	70.9
	7	66.2	66.2	—	—	67.2	67.2	68.4	69.4	68.4	67.0	65.7
	8	—	—	—	—	—	—	—	—	—	—	—
	9	68.4	67.6	68.0	70.4	68.4	70.0	70.7	70.5	70.0	67.5	67.5
	10	65.7	65.9	66.0	66.5	66.4	66.6	67.4	67.3	66.7	66.4	66.2
	11	65.2	65.7	65.6	65.6	65.7	66.7	67.8	67.7	66.9	66.5	65.4
	12	66.0	65.4	67.5	67.4	67.4	68.7	68.5	68.2	66.9	67.5	67.1
	13	66.3	66.6	67.5	69.6	68.7	70.3	70.9	69.7	66.9	68.0	66.5
	14	65.4	64.5	64.4	66.4	66.2	66.0	67.9	69.4	69.7	67.7	67.0
	15	—	—	—	—	—	—	—	—	—	—	—
	16	66.4	65.8	64.9	64.6	64.7	65.4	66.2	67.5	67.3	64.8	64.9
	17	65.4	65.2	64.7	64.7	65.4	66.5	68.4	67.9	66.4	65.7	65.5
	18	64.4	64.9	64.7	65.9	65.1	66.1	67.2	68.4	68.1	66.9	67.8
	19	64.2	66.5	64.1	65.7	64.7	63.8	66.3	68.4	69.2	68.4	65.6
	20 ^a	—	—	—	—	—	—	—	—	—	—	—
	21	62.5	64.5	65.3	63.5	66.1	64.9	65.0	65.9	65.1	65.0	64.2
	22	—	—	—	—	—	—	—	—	—	—	—
	23	63.8	68.1	68.1	65.4	64.2	66.4	66.7	67.4	65.5	64.0	64.4
	24	67.4	65.9	65.1	66.7	63.6	64.0	64.4	63.0	63.3	63.3	62.5
	25	68.3	66.3	65.8	65.1	65.0	66.4	67.2	67.4	65.5	63.9	62.6
	26	64.4	64.8	66.9	67.4	66.2	65.3	67.5	68.2	66.6	64.4	61.9
	27	62.2	62.9	62.4	63.5	64.2	65.1	66.4	66.6	65.9	64.5	63.4
	28	61.0	61.3	61.8	62.2	62.2	62.4	63.5	63.3	61.2	58.5	57.4
	29	—	—	—	—	—	—	—	—	—	—	—
	30	63.6	62.8	63.3	63.9	63.5	64.2	65.3	65.9	65.4	65.4	65.3
	31	65.4	65.5	65.8	65.4	65.9	65.7	66.9	67.4	67.1	66.4	66.4
Hourly Means	65.80	66.06	66.10	66.46	66.26	66.72	67.80	68.13	67.33	66.51	65.94	65.44
TEMPERATURE OF THE MAGNET.												
	°	°	°	°	°	°	°	°	°	°	°	°
MARCH.	1	—	—	—	—	—	—	—	—	—	—	—
	2	65.9	65.7	65.6	65.5	65.5	65.6	65.2	65.0	64.9	64.8	64.9
	3	64.4	63.7	63.5	63.2	63.0	62.7	62.6	62.7	62.8	63.1	63.4
	4	64.4	64.3	64.1	63.9	63.8	63.7	63.7	63.7	63.8	64.2	64.6
	5	67.1	66.8	66.5	65.9	65.7	65.4	65.2	65.1	65.1	65.5	65.7
	6	68.5	68.3	67.9	67.7	67.4	67.3	67.0	67.0	67.1	67.5	67.8
	7	69.5	69.4	—	—	68.6	68.4	68.2	68.2	68.2	68.2	68.5
	8	—	—	—	—	—	—	—	—	—	—	—
	9	65.4	65.0	65.2	65.0	64.9	64.8	64.7	64.9	65.0	65.3	65.8
	10	68.8	68.7	68.7	68.5	68.3	68.3	68.1	68.1	68.4	68.7	69.0
	11	69.9	69.7	69.7	69.4	69.2	69.1	69.0	69.0	69.1	69.6	69.9
	12	71.3	71.0	70.7	70.3	70.2	69.8	69.7	69.7	69.7	69.8	70.0
	13	69.6	69.3	69.0	68.7	68.5	68.4	67.9	67.8	67.8	67.9	68.0
	14	67.8	67.7	67.6	67.5	67.3	66.9	66.7	66.7	66.7	66.9	67.3
	15	—	—	—	—	—	—	—	—	—	—	—
	16	68.1	67.8	67.5	67.3	67.0	66.9	66.7	66.7	66.7	66.9	67.3
	17	68.5	68.2	68.0	67.8	67.7	67.6	67.4	67.4	67.5	67.9	68.5
	18	69.6	69.3	68.9	68.6	68.2	67.8	67.7	67.6	67.6	67.7	68.0
	19	69.0	68.7	68.7	68.5	68.5	68.6	68.4	68.4	68.4	68.3	68.5
	20 ^a	—	—	—	—	—	—	—	—	—	—	—
	21	69.1	68.7	68.9	68.7	68.6	68.5	68.4	68.4	68.5	68.4	68.9
	22	—	—	—	—	—	—	—	—	—	—	—
	23	67.8	67.7	67.7	67.5	67.3	67.2	66.9	66.7	66.7	66.7	66.7
	24	66.1	66.0	65.7	65.7	65.5	65.2	65.1	65.0	65.2	65.6	65.8
	25	66.5	66.4	66.1	65.9	65.8	65.7	65.4	65.3	65.4	65.7	65.8
	26	65.8	65.7	65.7	65.6	65.6	65.6	65.6	65.6	65.7	65.9	66.5
	27	68.7	68.6	68.5	68.2	68.1	67.9	67.7	67.7	67.9	68.4	69.1
	28	72.6	72.4	72.3	72.2	72.0	71.7	71.7	71.6	71.6	71.7	72.1
	29	—	—	—	—	—	—	—	—	—	—	—
	30	70.6	70.4	70.0	69.8	69.8	69.5	69.4	69.3	69.3	69.6	69.8
	31	68.1	67.9	67.7	67.4	67.4	67.3	67.3	67.3	67.5	67.7	68.0
Hourly Means	68.12	67.90	67.68	67.45	67.36	67.20	67.03	67.00	67.06	67.28	67.60	68.39

^a Good Friday.

HORIZONTAL FORCE.														
One Scale Division = '00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '00022.														
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 .	12 ^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.	
APRIL.	1	65·9	65·4	65·1	64·4	64·3	64·0	63·4	63·3	62·6	63·4	64·4	64·3	64·4
	2	66·1	66·2	65·4	63·9	63·4	63·2	62·9	62·4	62·9	62·8	63·3	63·5	64·3
	3	66·0	67·7	65·9	65·5	65·6	64·6	61·6	58·5	57·4	60·4	61·2	61·7	63·4
	4	63·9	63·4	63·6	63·9	63·1	62·7	62·4	63·4	63·4	63·5	63·9	64·3	65·9
	5	67·3	68·2	68·2	67·4	66·3	66·2	65·2	65·2	65·2	64·8	65·2	65·5	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	65·4
	7	66·6	66·8	66·4	66·2	65·5	65·4	64·3	64·5	65·4	65·0	65·1	65·6	65·5
	8	64·4	64·8	65·7	66·0	66·0	65·6	65·3	65·4	65·4	65·4	65·6	65·6	66·0
	9	64·5	65·3	66·7	67·9	67·8	68·1	66·2	66·4	67·3	66·5	66·9	66·8	69·2
	10	67·6	68·8	68·9	70·0	68·9	68·4	67·9	68·0	67·9	67·4	67·5	67·9	68·0
	11	69·9	70·5	70·3	69·4	68·1	67·8	67·4	67·4	67·1	66·4	66·4	66·3	66·4
	12	69·4	69·2	68·5	68·3	67·6	67·0	66·4	66·4	65·6	66·3	66·2	66·4	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	73·0
	14	65·0	61·8	58·4	58·9	55·6	59·4	56·4	58·1	60·0	60·2	61·6	63·4	64·4
	15	66·4	65·1	64·4	63·5	63·4	63·6	63·5	64·0	63·3	64·8	64·3	64·1	64·4
	16	66·4	64·7	64·6	64·4	64·1	63·7	63·7	63·3	63·6	63·4	63·7	63·9	64·1
	17	64·5	64·4	64·4	63·4	62·6	62·4	62·4	62·4	62·6	63·6	63·3	63·3	63·5
	18	65·7	65·4	64·8	64·8	61·7	59·8	60·4	60·5	59·3	59·1	58·4	61·6	62·0
	19	67·9	67·4	66·6	65·9	66·4	63·5	58·4	59·3	57·8	58·9	59·4	60·3	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	62·3
	21	63·1	63·5	62·8	63·4	63·7	64·2	64·1	63·5	62·1	63·4	62·9	63·7	64·8
	22	64·1	64·8	64·5	64·1	63·9	63·9	63·5	63·3	63·3	63·2	63·2	64·1	64·7
	23	66·7	65·6	66·4	66·1	65·7	65·6	64·4	63·7	65·4	63·8	63·7	66·1	66·1
	24	68·7	67·4	68·5	66·6	66·9	65·0	62·4	61·3	61·9	62·5	63·1	63·2	63·8
	25	65·3	62·6	62·4	62·0	61·4	60·1	59·4	61·2	61·2	61·6	63·5	65·4	65·2
	26	68·7	66·4	65·5	66·5	66·5	67·1	67·5	65·9	65·3	63·9	64·4	65·4	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	61·7
	28	64·4	60·9	58·9	57·6	56·6	57·7	57·7	58·5	58·8	60·2	60·9	61·5	61·6
	29	67·3	65·5	63·9	62·6	63·2	62·6	63·2	62·8	62·3	62·6	63·4	63·5	63·6
	30	65·7	65·0	64·7	64·4	64·4	63·6	64·3	65·0	66·2	66·3	64·6	67·4	63·9
Hourly Means	66·21	65·65	65·21	64·89	64·33	64·05	63·24	63·22	63·20	63·44	63·70	64·42	64·91	
TEMPERATURE OF THE MAGNET.														
APRIL.	1	68·5	69·0	69·4	70·0	70·4	70·8	71·3	71·4	71·4	71·3	70·9	70·7	70·5
	2	71·0	71·6	72·2	72·7	72·9	72·9	72·8	72·8	72·9	72·5	72·2	71·9	71·8
	3	70·8	70·8	70·7	70·7	70·7	70·5	70·5	70·2	70·1	69·9	69·6	69·5	69·3
	4	68·2	68·0	67·8	67·7	67·6	67·4	67·4	67·1	66·7	66·6	66·2	66·2	66·0
	5	66·2	66·6	67·2	67·7	68·1	68·5	68·1	68·0	67·9	67·7	67·6	67·3	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	67·3
	7	66·9	67·0	67·6	67·7	68·0	68·0	68·0	67·7	67·8	67·6	67·4	67·3	67·2
	8	66·7	66·7	66·7	66·7	66·7	66·8	66·8	66·7	66·6	66·3	66·0	65·7	65·7
	9	64·7	64·7	64·8	65·0	65·0	65·0	64·8	64·7	64·6	64·4	64·2	64·0	63·8
	10	62·9	63·5	64·0	64·4	64·8	64·9	65·0	64·9	64·8	64·4	64·3	64·1	63·9
	11	64·1	64·7	65·3	65·8	66·3	66·5	66·4	66·4	66·0	65·7	65·6	65·4	65·1
	12	64·8	65·3	65·4	65·8	66·1	66·2	66·4	66·3	66·2	66·0	65·7	65·7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	62·5
	14	61·9	62·0	62·4	62·7	63·0	62·9	62·8	62·9	62·8	62·7	62·7	62·5	61·9
	15	61·3	61·7	62·2	62·7	63·0	63·3	63·6	63·6	63·6	63·6	63·3	63·2	63·2
	16	62·7	63·7	64·2	64·8	65·3	65·8	66·0	66·0	65·9	65·8	65·7	65·6	65·5
	17	65·7	66·0	66·1	66·6	66·7	66·9	66·9	66·7	66·7	66·4	66·3	65·9	65·6
	18	64·8	65·2	65·5	65·9	66·3	66·6	66·8	66·9	66·8	66·7	66·1	65·8	65·7
	19	65·3	65·7	66·1	66·7	66·7	66·7	66·7	66·7	66·5	66·2	65·8	65·7	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	63·5
	21	63·0	63·3	63·8	64·2	64·5	64·6	64·7	64·6	64·3	63·9	63·7	63·5	63·2
	22	62·4	62·9	63·3	63·7	64·0	64·2	64·4	64·5	64·3	64·1	63·9	63·5	63·3
	23	61·8	62·3	63·1	63·8	64·3	64·7	64·7	64·7	64·6	64·2	64·0	63·9	63·9
	24	63·7	64·0	64·4	64·9	65·1	65·4	65·7	65·8	65·6	65·6	65·4	65·1	64·9
	25	63·0	63·4	63·7	63·7	63·7	63·7	63·5	63·2	63·0	62·7	62·6	62·2	62·0
	26	61·0	61·2	61·6	61·7	61·9	62·1	61·9	61·9	61·9	61·8	61·8	61·8	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	62·5
	28	62·6	63·2	63·7	64·0	64·5	64·9	65·0	64·9	64·7	64·6	64·3	64·0	63·8
	29	63·2	63·4	63·5	63·6	63·7	63·7	63·7	63·7	63·7	63·7	63·7	63·7	63·6
	30	63·4	63·5	63·7	63·7	63·8	63·9	64·4	64·4	64·2	64·0	63·7	63·5	63·3
Hourly Means	64·64	64·98	65·32	65·65	65·89	66·03	66·09	66·03	65·91	65·71	65·49	65·30	64·96	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
APRIL.	1	64.4	64.6	64.2	65.4	65.2	65.5	66.5	67.4	66.1	66.2	66.3	64.86
	2	64.4	64.5	64.4	64.7	65.4	66.2	67.4	67.5	66.9	66.7	65.4	64.74
	3	63.7	64.3	64.5	64.8	65.2	65.8	66.7	66.1	65.8	66.2	64.7	64.05
	4	65.7	65.5	65.7	66.7	66.4	67.2	68.8	68.2	66.8	66.7	66.7	65.08
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	65.5	66.2	65.8	66.4	66.4	66.7	68.0	67.9	67.3	66.2	65.0	66.31
	7	66.6	68.2	66.3	66.4	66.3	67.3	68.4	68.4	65.9	64.6	63.7	66.02
	8	66.0	66.4	66.5	67.2	67.1	67.4	68.4	68.8	67.4	66.4	64.7	66.15
	9	68.8	68.7	68.5	68.6	68.6	69.1	69.7	69.0	67.1	66.6	67.1	67.56
	10	68.2	68.4	68.4	68.6	68.6	69.3	70.4	71.3	70.7	70.3	69.7	68.80
	11	67.3	67.4	67.9	68.3	68.5	70.3	71.4	72.0	71.4	71.0	69.6	68.69
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	64.8	67.2	71.1	63.9	67.2	64.7	64.7	64.4	63.5	66.0	69.0	66.95
	14	65.5	64.4	64.3	64.3	65.4	65.1	67.2	67.8	67.8	68.0	68.7	62.99
	15	65.0	65.9	65.8	66.2	66.2	67.4	68.1	67.4	67.5	68.1	67.2	65.40
	16	64.3	64.8	64.4	64.3	64.4	64.8	65.4	65.4	65.7	65.5	64.9	64.48
	17	64.1	64.3	64.4	64.5	64.9	65.6	67.6	68.4	69.4	69.4	68.3	64.74
	18	62.6	66.3	65.3	63.6	66.9	66.1	68.9	69.4	68.7	68.8	68.1	64.09
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	64.5	64.6	63.1	63.6	64.2	64.0	66.2	65.5	66.3	65.5	64.4	63.58
	21	65.7	65.2	65.2	65.0	65.7	67.1	67.7	68.1	67.0	65.6	64.6	64.67
	22	65.1	65.1	65.4	65.5	66.9	67.3	68.3	69.7	69.8	69.1	67.4	65.43
	23	65.4	66.3	67.4	67.1	66.4	66.3	66.8	68.1	69.2	69.2	70.0	66.31
	24	64.4	64.8	65.3	65.6	65.3	65.8	67.1	68.9	67.1	69.2	68.4	65.55
	25	64.5	64.6	65.7	65.4	65.9	66.1	67.9	70.1	70.7	71.1	69.9	64.72
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	68.9	65.1	65.6	67.0	69.4	64.8	65.6	68.4	68.2	66.4	64.2	66.18
	28	63.2	63.0	62.6	62.7	63.3	63.4	65.8	67.6	67.9	68.3	67.4	62.10
	29	64.2	64.3	64.1	64.1	64.4	64.7	66.4	67.4	67.2	65.9	66.0	64.38
	30	63.7	65.3	64.8	65.2	60.8	61.4	63.4	64.6	66.4	67.1	66.4	64.78
Hourly Means	65.25	65.59	65.64	65.58	65.96	66.13	67.42	67.99	67.61	67.47	66.84	65.33	

TEMPERATURE OF THE MAGNET.

APRIL.	1	70.3	70.1	69.9	69.8	69.7	69.7	69.7	69.7	69.9	70.1	70.6	70.21
	2	71.7	71.5	71.4	71.2	71.0	70.9	70.7	70.7	70.7	70.8	70.8	71.73
	3	69.2	69.1	68.9	68.7	68.6	68.6	68.4	68.1	68.1	68.3	68.4	69.49
	4	66.0	65.7	65.7	65.5	65.2	65.3	65.1	65.1	65.2	65.4	65.7	66.37
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	67.0	67.0	66.8	66.7	66.7	66.7	66.5	66.5	66.5	66.5	66.7	67.16
	7	67.1	67.1	66.9	66.8	66.8	66.9	66.8	66.7	66.7	66.7	66.7	67.23
	8	65.5	65.3	65.3	65.2	65.0	64.7	64.7	64.5	64.5	64.5	64.6	65.75
	9	63.8	63.4	63.2	62.9	62.7	62.7	62.6	62.5	62.6	62.6	62.8	63.81
	10	63.8	63.7	63.6	63.2	62.9	62.8	62.6	62.6	62.7	63.1	63.6	63.77
	11	64.9	64.6	64.3	64.2	64.1	63.9	63.8	63.9	63.9	64.2	64.5	64.98
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	62.2	62.2	62.1	62.1	62.0	62.0	61.7	61.7	61.7	61.7	61.8	63.90
	14	61.7	61.7	61.6	61.5	61.4	61.0	61.0	60.8	60.8	60.8	61.0	61.94
	15	62.9	62.6	62.4	62.0	61.7	61.6	61.5	61.4	61.5	61.7	62.2	62.49
	16	65.5	65.4	65.3	65.1	65.0	65.1	65.2	65.2	65.2	65.4	65.6	65.21
	17	65.4	65.2	64.9	64.8	64.7	64.7	64.3	64.1	64.0	64.4	64.7	65.57
	18	65.4	65.1	64.9	64.7	64.7	64.4	64.4	64.3	64.4	64.7	65.0	65.46
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	63.2	63.1	63.3	63.1	63.0	62.7	62.7	62.4	62.5	62.5	62.7	64.56
	21	62.9	62.7	62.3	61.8	61.4	61.2	61.0	60.9	61.2	61.5	61.9	62.92
	22	63.0	62.6	62.3	61.9	61.7	61.5	61.1	60.9	60.9	61.0	61.4	62.78
	23	63.7	63.7	63.3	63.3	63.3	63.2	63.0	62.9	62.7	62.9	63.2	63.55
	24	64.7	64.6	64.1	64.0	63.9	63.8	63.4	63.3	63.2	63.0	63.0	64.44
	25	61.7	61.6	61.5	61.3	61.1	60.7	60.7	60.5	60.5	60.5	60.7	62.13
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	62.4	62.3	62.4	62.4	62.2	61.9	61.7	61.7	61.7	61.7	62.1	61.90
	28	63.7	63.6	63.3	63.0	62.8	62.7	62.7	62.5	62.5	62.7	62.8	63.60
	29	63.6	63.5	63.3	63.2	63.3	63.1	63.1	63.1	63.1	63.2	63.2	63.44
	30	63.1	62.9	62.9	62.8	62.7	62.7	62.7	62.6	62.7	62.7	62.9	63.34
Hourly Means	64.78	64.63	64.46	64.28	64.14	64.02	63.89	63.79	63.82	63.95	64.18	64.91	

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.													
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 .	12 ^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.
MAY. 1	65.4	64.0	61.3	59.9	59.4	60.1	60.4	61.1	61.2	61.6	61.6	62.3	62.4
2	62.4	61.9	61.5	61.5	62.5	63.4	63.4	63.4	63.6	63.9	64.4	64.4	64.6
3	66.1	66.2	65.4	64.7	65.0	66.1	66.8	66.8	66.6	66.6	67.0	67.5	—
4	—	—	—	—	—	—	—	—	—	—	—	—	66.4
5	66.4	65.2	64.4	63.9	64.1	64.0	64.1	63.9	63.4	64.2	64.5	65.0	65.3
6	66.4	65.2	64.6	64.7	65.3	65.4	65.4	65.4	64.4	64.4	65.3	64.8	65.8
7	67.7	66.7	66.0	65.4	65.4	65.4	66.1	65.1	65.6	65.8	65.5	65.7	66.4
8	69.3	68.6	67.3	67.2	67.9	67.7	67.4	67.1	66.6	66.3	66.9	67.4	67.7
9	67.4	68.2	67.0	66.4	67.6	67.8	67.1	66.4	65.9	65.8	65.9	66.0	67.1
10	69.2	68.4	68.1	67.4	68.1	67.9	67.4	66.9	66.4	66.3	66.4	66.3	—
11	—	—	—	—	—	—	—	—	—	—	—	—	66.9
12	66.6	65.5	65.0	64.7	65.5	66.5	66.7	66.3	66.5	66.3	65.7	65.9	66.7
13	69.9	69.9	68.7	67.7	68.4	68.7	68.2	68.2	67.4	66.6	65.5	65.7	64.7
14	70.4	68.4	67.2	68.3	67.0	66.5	64.9	66.5	67.4	67.1	67.5	67.9	68.1
15	68.0	65.3	63.9	64.6	64.2	63.3	62.7	62.0	62.4	63.9	64.7	64.0	64.4
16	68.5	66.5	65.4	65.6	64.6	66.9	67.0	64.2	64.3	65.1	65.3	65.4	65.5
17	67.5	66.4	66.1	66.7	69.1	69.4	69.2	67.9	67.3	66.8	66.2	65.7	—
18	—	—	—	—	—	—	—	—	—	—	—	—	67.4
19	67.3	65.3	64.7	66.3	66.5	65.7	65.2	64.6	65.2	63.6	63.6	64.4	64.8
20	66.9	65.8	65.6	66.4	66.8	66.4	66.4	66.4	66.4	66.7	67.1	65.6	65.8
21	65.9	63.5	62.2	63.7	64.6	65.2	64.4	64.3	63.9	63.9	65.3	63.6	64.7
22	69.8	68.4	67.6	67.1	66.2	64.3	61.4	61.6	61.6	60.4	64.6	64.5	65.4
23	66.4	65.2	64.8	65.4	66.1	66.4	66.4	66.0	65.8	65.9	66.3	66.2	66.6
24	65.7	65.8	64.7	64.6	65.7	66.3	65.9	65.1	64.5	64.8	64.7	65.3	—
25	—	—	—	—	—	—	—	—	—	—	—	—	68.2
26	65.7	64.7	65.5	66.6	68.1	68.2	68.1	67.9	68.0	67.8	68.1	68.0	68.2
27	70.4	68.6	68.4	69.4	69.9	70.1	69.7	69.4	69.2	69.2	69.1	69.1	69.2
28	67.6	67.1	66.6	67.2	68.5	69.0	68.6	68.6	67.8	68.8	68.7	69.1	68.9
29	70.7	69.5	69.1	68.8	70.4	71.3	70.8	70.6	70.4	69.8	70.0	69.6	69.5
30	73.3	70.9	70.9	70.9	71.8	71.4	70.5	68.1	65.7	65.4	65.7	65.4	66.6
Hourly Means	67.73	66.58	65.85	65.97	66.49	66.67	66.32	65.92	65.67	65.65	65.98	65.95	66.43
TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	°
MAY. 1	63.0	63.3	63.7	64.0	64.0	64.1	64.1	64.1	64.0	63.9	63.7	63.7	63.7
2	63.0	63.3	63.6	63.7	63.8	63.9	63.7	63.3	63.0	62.7	62.3	61.7	61.9
3	59.7	60.0	60.2	60.4	60.6	60.8	60.9	60.8	60.7	60.6	60.4	60.0	—
4	—	—	—	—	—	—	—	—	—	—	—	—	61.9
5	61.0	61.7	62.5	63.2	63.7	63.9	64.0	64.2	63.9	63.7	63.9	63.7	63.6
6	63.1	63.4	63.7	63.9	64.3	64.5	64.3	64.2	64.1	63.8	63.5	63.2	63.0
7	63.0	63.5	63.6	63.8	63.8	63.8	63.7	63.6	63.4	63.1	62.8	62.7	62.3
8	60.7	60.8	61.2	61.4	61.5	61.5	61.4	61.0	61.0	60.8	60.7	60.7	60.6
9	60.9	61.5	61.7	61.9	62.4	62.7	62.7	62.7	62.7	62.5	62.5	62.4	62.1
10	60.6	60.8	61.0	61.4	61.7	61.8	61.9	61.9	61.9	61.9	62.2	62.1	—
11	—	—	—	—	—	—	—	—	—	—	—	—	61.5
12	61.0	61.3	61.5	61.8	62.0	62.1	62.2	62.1	61.8	61.6	61.0	60.9	60.5
13	59.9	60.0	60.4	60.8	61.0	61.2	61.2	61.2	61.1	60.7	60.6	60.0	59.7
14	58.2	58.4	58.8	59.0	59.6	59.7	60.0	60.1	60.1	60.1	59.9	59.9	59.8
15	60.0	60.2	60.6	60.8	61.0	61.4	61.4	61.5	61.5	61.4	61.2	61.2	60.9
16	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.6	60.5
17	58.7	58.7	58.7	58.8	58.8	58.7	58.9	58.9	58.7	58.7	58.4	58.2	—
18	—	—	—	—	—	—	—	—	—	—	—	—	58.2
19	58.4	58.7	59.0	59.4	59.7	59.9	60.0	60.1	60.0	59.9	59.8	59.7	59.5
20	59.9	60.2	60.8	61.4	61.6	61.7	61.7	61.7	61.8	61.5	61.3	61.1	61.1
21	60.7	60.7	60.7	60.8	60.7	60.7	60.7	60.7	60.6	60.4	60.2	60.1	60.0
22	59.5	59.3	59.6	59.5	59.6	59.5	59.3	59.1	58.9	58.7	58.7	58.6	58.4
23	57.4	57.7	57.9	58.2	58.5	58.6	58.7	58.7	58.7	58.6	58.5	58.2	58.1
24	57.3	57.7	58.0	58.4	58.7	58.7	58.7	58.7	58.7	58.5	58.5	58.0	—
25	—	—	—	—	—	—	—	—	—	—	—	—	56.7
26	56.1	56.4	56.9	57.4	57.6	57.9	57.7	57.7	57.7	57.6	57.3	56.9	56.7
27	55.0	55.0	55.8	56.2	56.6	56.7	56.8	56.9	56.9	56.8	56.7	56.7	56.7
28	57.4	57.6	57.7	57.7	57.7	57.7	57.7	57.5	57.3	57.0	57.0	56.8	56.6
29	54.6	54.7	54.7	54.7	54.6	54.6	54.6	54.4	54.1	53.9	53.7	53.5	53.4
30	52.5	52.7	52.6	52.7	52.8	52.7	52.7	52.5	52.3	52.0	51.8	51.7	51.7
Hourly Means	59.32	59.55	59.83	60.08	60.27	60.38	60.37	60.32	60.22	60.04	59.90	59.70	59.58

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.													
Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MAY.	1	62.6	62.4	62.5	62.9	63.4	63.3	64.4	65.1	64.2	62.8	62.4	62.36
	2	65.0	65.4	65.4	66.2	67.0	67.4	68.6	69.6	70.2	68.9	68.3	65.12
	3	—	—	—	—	—	—	—	—	—	—	—	66.70
	4	66.3	66.4	66.5	66.7	66.0	66.7	68.6	69.2	69.0	67.4	66.9	
	5	65.4	65.4	65.5	65.8	65.9	66.4	67.1	67.7	67.5	66.5	66.4	65.33
	6	66.1	66.2	66.2	66.3	66.9	66.5	68.2	69.4	70.3	70.0	69.4	66.36
	7	66.7	66.5	66.6	67.1	67.4	68.4	69.4	70.1	70.2	70.1	69.9	67.05
	8	68.5	68.7	68.9	69.3	69.6	70.4	70.7	70.7	70.9	69.8	68.6	68.48
	9	66.8	67.7	67.3	67.4	67.7	68.2	69.4	70.4	70.4	69.5	69.3	67.61
	10	—	—	—	—	—	—	—	—	—	—	—	67.57
	11	66.2	66.2	66.5	67.1	67.7	68.1	69.8	66.3	70.5	70.2	67.4	
	12	66.8	67.2	67.5	68.3	68.7	69.5	71.3	72.2	72.2	71.2	71.2	67.67
	13	66.2	66.5	68.3	69.4	67.5	67.2	70.0	72.4	72.4	72.0	71.9	68.48
	14	70.1	68.8	67.6	67.4	68.1	69.3	70.2	71.3	70.4	69.3	68.6	68.26
	15	64.7	65.1	64.6	65.2	65.6	66.9	70.4	72.4	73.7	73.0	69.6	66.03
	16	66.2	66.4	66.4	66.9	66.5	67.4	67.9	68.8	69.1	68.9	68.4	66.55
	17	—	—	—	—	—	—	—	—	—	—	—	67.01
	18	69.2	68.5	65.6	66.0	66.6	64.2	65.6	66.7	66.4	66.6	67.2	
	19	64.6	64.6	65.4	66.2	66.0	66.0	66.8	67.6	69.4	68.4	68.6	65.87
	20	65.7	66.4	65.0	65.4	64.2	65.6	67.3	67.3	68.3	68.6	67.6	66.40
	21	64.8	65.1	65.7	65.7	66.4	67.6	69.1	70.7	73.9	73.1	69.6	66.12
	22	66.4	66.4	66.1	66.4	67.2	67.1	69.4	70.0	70.0	68.6	67.7	66.18
	23	66.9	67.1	67.2	67.2	67.6	68.3	69.1	70.1	68.4	67.6	66.1	66.80
	24	—	—	—	—	—	—	—	—	—	—	—	67.11
	25	68.3	68.4	68.5	68.7	68.9	69.2	69.5	70.3	70.4	69.6	67.6	
	26	68.5	68.7	69.0	69.2	69.2	69.7	70.6	71.4	71.7	71.5	71.6	68.58
	27	69.1	69.1	68.8	69.1	69.6	70.1	69.7	70.7	70.1	69.1	68.4	69.40
	28	69.0	69.2	69.1	69.4	69.4	69.9	70.9	72.6	73.4	73.1	72.4	69.37
	29	70.6	70.2	69.9	69.7	69.9	70.3	72.0	73.1	73.6	73.7	73.5	70.71
	30	66.5	67.9	68.6	68.2	69.3	70.5	71.5	72.1	73.3	74.4	72.4	69.64
Hourly Means	66.82	66.94	66.87	67.20	67.40	67.85	69.13	69.93	70.38	69.77	68.88	67.18	

TEMPERATURE OF THE MAGNET.													
MAY.	1	63.5	63.3	63.4	63.3	63.2	62.9	62.7	62.7	62.7	62.8	63.44	
	2	61.3	60.8	60.6	60.0	59.9	59.7	59.4	59.0	59.0	59.4	59.7	61.61
	3	—	—	—	—	—	—	—	—	—	—	—	60.56
	4	61.7	61.5	61.0	60.7	60.6	60.2	60.0	59.9	59.9	60.3	60.6	
	5	63.6	63.6	63.4	63.2	63.1	62.7	62.7	62.7	62.7	62.7	62.8	63.18
	6	62.8	62.7	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.6	62.8	63.24
	7	61.9	61.7	61.7	61.6	61.4	60.9	60.7	60.7	60.5	60.5	60.5	62.30
	8	60.4	60.3	60.3	60.3	60.3	60.5	60.5	60.5	60.5	60.6	60.6	60.76
	9	61.8	61.5	61.1	60.7	60.6	60.2	60.0	59.8	59.7	59.9	60.3	61.43
	10	—	—	—	—	—	—	—	—	—	—	—	61.30
	11	61.5	61.4	61.3	61.2	61.0	60.8	60.7	60.7	60.6	60.7	60.7	
	12	60.5	60.3	60.2	60.2	60.1	60.0	59.8	59.7	59.7	59.7	59.8	60.83
	13	59.4	58.9	58.9	58.7	58.5	57.9	57.8	57.7	57.6	57.6	57.7	59.52
	14	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.60
	15	60.9	60.7	60.7	60.7	60.6	60.5	60.3	60.3	60.2	60.5	60.5	60.79
	16	60.1	60.0	59.7	59.7	59.4	59.2	59.0	58.8	58.8	58.7	58.7	60.03
	17	—	—	—	—	—	—	—	—	—	—	—	58.29
	18	58.1	58.0	58.0	57.9	58.0	57.8	57.7	57.7	57.7	57.7	58.0	
	19	59.1	59.0	59.4	59.5	59.5	59.3	59.2	59.2	59.2	59.3	59.6	59.43
	20	61.1	61.0	61.0	61.0	60.9	61.1	61.0	60.9	60.9	60.8	60.8	61.10
	21	59.9	59.7	59.7	59.6	59.6	59.5	59.4	59.4	59.4	59.4	59.5	60.09
	22	58.2	58.0	57.7	57.5	57.3	57.1	56.9	56.8	56.8	57.0	57.2	58.30
	23	58.0	57.8	57.7	57.6	57.6	57.6	57.5	57.3	57.2	56.9	57.0	57.92
	24	—	—	—	—	—	—	—	—	—	—	—	57.19
	25	56.5	56.3	56.4	56.3	56.1	55.8	55.7	55.7	55.7	55.7	55.8	
	26	56.3	56.0	55.8	55.4	55.0	54.7	54.6	54.2	54.0	54.3	54.8	56.21
	27	56.8	57.0	56.9	56.7	56.7	56.7	56.7	56.7	56.8	56.9	57.0	56.57
	28	56.4	56.2	55.8	55.7	55.4	55.1	55.0	55.0	54.8	54.7	54.7	56.44
	29	53.1	53.0	52.9	52.9	52.9	52.6	52.5	52.0	52.0	52.3	52.5	53.51
	30	51.9	51.9	52.0	51.9	51.7	51.4	51.3	51.2	51.1	51.1	51.2	51.98
Hourly Means	59.40	59.24	59.15	59.02	58.91	58.71	58.59	58.50	58.46	58.53	58.67	59.45	

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.													
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 .	12 ^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.
May 31	69.3	67.5	65.6	63.5	65.9	65.6	64.1	64.6	65.5	65.4	65.5	65.3	—
1	—	—	—	—	—	—	—	—	—	—	—	—	68.7
2	67.4	67.4	67.2	67.6	68.6	69.2	68.8	68.4	68.4	68.2	68.2	68.8	68.9
3	70.2	69.1	68.8	68.1	68.5	68.4	68.3	68.2	68.4	68.4	68.4	68.9	69.3
4	74.3	74.1	72.3	70.0	66.0	66.1	65.3	63.2	63.6	64.6	64.2	65.8	66.4
5	70.8	70.1	70.6	69.8	70.4	70.4	69.3	68.8	68.6	68.2	69.3	68.9	68.5
6	71.7	70.6	69.3	69.4	70.5	69.8	69.4	68.6	68.4	67.6	68.4	68.8	69.8
7	72.4	72.4	72.6	72.4	71.6	71.1	69.9	69.1	68.1	67.8	67.6	68.6	—
8	—	—	—	—	—	—	—	—	—	—	—	—	65.9
9	68.5	68.4	67.6	66.5	66.4	64.6	65.4	65.6	64.5	63.9	64.4	65.1	67.4
10	72.4	72.0	71.1	72.4	72.0	72.2	71.3	68.6	66.4	66.4	66.8	66.8	67.4
11	71.2	70.4	69.8	69.2	68.6	68.7	68.5	67.7	67.6	67.6	67.7	68.0	68.4
12	69.1	70.3	70.3	71.3	72.1	71.2	70.4	70.1	69.6	69.2	69.2	69.2	69.2
13	72.6	72.1	71.8	71.2	71.4	71.2	70.4	69.5	69.4	69.4	69.3	69.2	69.1
14	70.4	69.2	69.0	68.6	69.9	69.9	69.8	69.4	68.8	67.6	67.1	66.3	—
15	—	—	—	—	—	—	—	—	—	—	—	—	67.8
16	68.4	67.1	66.7	67.4	68.7	69.0	68.5	68.1	68.1	67.6	68.4	68.2	67.7
17	68.4	67.4	66.7	67.2	67.9	67.4	66.9	66.4	66.0	66.1	66.2	66.3	66.6
18	69.6	69.4	68.6	68.2	68.7	68.5	68.2	67.5	67.6	67.6	67.7	68.0	68.4
19	68.9	68.4	67.9	68.0	68.4	68.1	67.5	67.2	67.3	67.2	67.4	67.9	68.4
20	71.3	70.5	68.9	68.0	68.3	68.4	68.4	68.4	68.2	67.6	67.3	67.1	67.4
21	71.4	70.1	68.7	68.4	68.9	68.7	67.6	67.6	67.5	67.2	66.6	66.3	—
22	—	—	—	—	—	—	—	—	—	—	—	—	66.6
23	67.9	67.2	67.5	68.4	69.1	68.9	68.0	67.4	66.6	66.5	66.5	66.5	66.8
24	69.2	68.5	67.5	67.7	68.0	68.2	67.5	67.2	66.9	66.6	65.7	65.7	65.9
25	68.9	69.0	66.9	66.8	67.4	67.0	66.4	65.8	65.4	65.4	65.4	65.7	65.3
26	68.0	67.8	66.8	66.5	66.9	67.7	66.0	65.6	66.0	65.7	65.5	65.5	65.6
27	68.4	67.7	66.7	66.5	67.6	68.2	67.5	67.4	67.1	67.1	67.2	66.3	66.7
28	63.4	65.2	64.7	63.5	64.9	64.8	65.4	64.3	64.6	64.4	64.5	64.6	—
29	—	—	—	—	—	—	—	—	—	—	—	—	64.7
30	69.9	69.1	67.6	67.5	67.7	67.3	65.4	65.8	67.4	66.3	65.7	65.1	65.8
Hourly Means	69.77	69.27	68.51	68.23	68.63	68.49	67.85	67.33	67.15	66.91	66.95	67.05	67.42

TEMPERATURE OF THE MAGNET.													
May 31	51.6	51.7	51.9	52.4	52.6	52.8	53.5	53.6	53.7	53.7	53.4	53.2	—
1	—	—	—	—	—	—	—	—	—	—	—	—	53.4
2	51.7	52.1	52.7	53.3	53.7	53.9	54.0	54.0	53.7	53.7	53.7	53.7	53.7
3	52.9	53.5	53.7	54.0	54.5	54.9	54.9	55.0	55.0	54.9	54.9	54.9	54.9
4	54.7	54.8	54.9	55.1	55.1	55.2	55.3	55.0	54.8	54.6	54.1	54.0	53.8
5	53.0	53.3	53.7	53.9	54.1	54.4	54.4	54.4	54.3	54.0	53.7	53.7	53.7
6	54.3	54.5	54.9	55.3	55.5	55.5	55.5	55.5	55.4	55.2	55.3	55.2	55.2
7	54.5	54.8	55.2	55.7	55.9	56.0	56.0	55.8	55.7	55.3	55.0	54.9	—
8	—	—	—	—	—	—	—	—	—	—	—	—	56.0
9	55.8	56.0	55.9	56.0	56.3	56.4	56.3	56.2	55.9	55.7	55.7	55.6	55.5
10	54.7	54.9	55.0	55.4	55.7	55.8	55.9	55.9	55.8	55.7	55.5	55.2	55.0
11	53.9	53.8	53.8	53.8	53.8	53.7	53.7	53.7	53.6	53.4	53.0	52.7	52.6
12	51.5	51.7	52.2	52.6	52.9	53.4	53.3	53.1	53.0	52.9	52.9	52.7	52.4
13	51.7	52.3	53.0	53.7	53.9	54.2	54.5	54.5	54.5	54.6	54.4	54.6	54.7
14	53.9	54.6	54.9	55.6	55.9	56.0	56.4	56.4	56.2	55.9	55.7	55.5	—
15	—	—	—	—	—	—	—	—	—	—	—	—	57.0
16	56.2	56.7	56.9	57.4	57.7	58.1	58.5	58.4	58.4	58.2	57.8	57.7	57.5
17	56.6	56.7	57.0	57.5	57.7	57.9	57.9	58.0	58.0	58.0	57.9	57.8	57.7
18	56.7	57.2	57.7	57.8	58.1	58.2	58.6	58.5	58.4	58.3	58.1	58.1	58.3
19	58.3	58.7	58.6	58.7	58.6	58.6	58.7	58.7	58.6	58.4	58.2	57.9	57.7
20	56.2	56.5	56.7	57.0	57.2	57.4	57.4	57.1	57.0	56.8	56.8	56.7	56.6
21	55.3	55.7	56.0	56.7	56.9	57.4	57.6	57.6	57.6	57.5	57.1	56.8	—
22	—	—	—	—	—	—	—	—	—	—	—	—	56.5
23	54.9	55.4	56.0	56.5	57.1	57.7	57.9	58.0	57.8	57.6	57.3	56.8	56.7
24	55.7	56.0	56.8	57.5	57.9	58.4	58.5	58.5	58.1	58.1	58.0	57.9	57.8
25	58.9	59.5	60.0	60.5	60.7	61.0	61.2	61.3	61.3	61.4	61.4	61.4	61.4
26	60.9	61.2	61.2	61.2	61.2	61.4	61.3	61.0	61.0	60.8	60.7	60.5	60.3
27	59.3	59.7	59.7	59.7	59.7	59.6	59.5	59.4	59.4	59.4	59.4	59.1	59.0
28	57.6	57.7	57.8	58.0	58.3	58.2	58.0	57.9	57.9	57.7	57.5	56.9	—
29	—	—	—	—	—	—	—	—	—	—	—	—	55.7
30	55.8	56.1	56.5	56.7	56.7	57.0	56.8	56.7	56.7	56.7	56.4	56.1	55.7
Hourly Means	55.25	55.58	55.87	56.23	56.45	56.66	56.75	56.70	56.61	56.48	56.30	56.14	56.11

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
May 31	—	—	—	—	—	—	—	—	—	—	—	—
1	69.1	69.2	68.9	69.2	69.7	69.7	70.8	71.9	70.4	70.3	68.2	67.66
2	68.5	68.2	68.4	68.4	68.6	69.3	70.4	71.7	72.2	71.4	70.4	68.94
3	69.3	69.2	69.2	68.4	69.1	69.3	70.4	70.6	71.0	74.2	74.4	69.55
4	67.0	67.4	67.9	68.2	68.2	69.4	71.0	72.5	72.7	69.9	71.1	68.38
5	68.9	68.6	69.7	69.2	69.7	70.2	71.4	71.6	71.4	72.1	72.7	69.97
6	70.4	70.4	70.8	71.2	71.4	71.8	72.4	74.0	74.5	73.9	73.1	70.68
7	—	—	—	—	—	—	—	—	—	—	—	—
8	68.2	67.5	67.6	68.2	67.7	68.5	70.0	72.4	72.3	71.4	69.4	69.70
9	67.9	68.7	69.4	68.9	69.9	71.2	72.2	73.6	74.3	73.0	73.1	68.35
10	67.6	67.9	68.3	68.6	69.1	69.7	71.3	71.6	71.8	71.8	71.2	69.78
11	68.5	69.2	69.4	69.4	69.7	70.6	71.7	73.4	73.6	73.2	70.7	69.70
12	69.2	70.6	69.8	70.1	70.4	70.8	71.9	73.3	73.9	73.9	73.4	70.77
13	69.2	69.1	68.9	69.3	69.4	70.2	71.4	72.4	72.6	72.3	71.8	70.55
14	—	—	—	—	—	—	—	—	—	—	—	—
15	67.7	67.9	67.9	67.8	68.1	69.0	69.7	70.8	71.2	70.9	69.4	68.93
16	67.4	67.6	67.7	67.7	67.9	68.4	69.4	70.2	70.6	71.3	70.2	68.43
17	66.7	66.9	67.2	67.3	67.5	68.2	69.6	70.9	71.3	70.6	70.4	67.75
18	68.2	68.2	67.7	68.1	68.4	68.4	69.5	70.3	71.7	71.6	70.2	68.76
19	68.9	68.5	68.6	68.1	68.0	68.0	68.6	70.2	70.8	70.3	70.9	68.48
20	67.5	67.8	69.2	69.1	69.2	70.4	71.7	72.5	73.2	73.4	72.0	69.41
21	—	—	—	—	—	—	—	—	—	—	—	—
22	67.2	68.5	67.4	67.8	68.5	69.1	69.9	70.6	71.1	70.7	69.8	68.59
23	66.6	66.6	67.3	67.2	68.5	68.2	69.3	71.2	72.3	71.6	70.6	68.20
24	66.6	66.7	67.2	67.4	67.6	68.2	69.1	69.9	70.5	70.4	69.9	67.84
25	65.1	64.7	65.0	65.3	65.2	65.9	66.8	67.8	68.3	68.1	68.3	66.50
26	66.3	66.3	66.6	66.7	66.4	66.6	67.6	68.6	69.4	69.4	68.7	66.93
27	65.7	66.2	66.7	68.0	67.6	68.8	71.1	68.7	69.4	70.1	67.2	67.66
28	—	—	—	—	—	—	—	—	—	—	—	—
29	65.7	66.6	66.5	67.3	67.7	67.2	68.9	69.3	68.8	70.1	69.8	66.12
30	64.8	64.5	64.6	66.4	66.6	65.5	66.3	67.5	67.6	68.4	68.4	66.72
Hourly Means	67.62	67.81	68.00	68.20	68.47	68.95	70.09	71.06	71.42	71.32	70.59	68.63

TEMPERATURE OF THE MAGNET.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
May 31	—	—	—	—	—	—	—	—	—	—	—	—
1	53.2	52.8	52.7	52.2	51.8	51.7	51.5	51.0	50.8	50.8	51.0	52.38
2	53.7	53.5	53.3	52.8	52.7	52.6	52.3	52.2	52.4	52.5	52.6	53.10
3	54.9	54.9	54.7	54.7	54.7	54.6	54.5	54.2	54.0	54.0	54.3	54.48
4	53.7	53.5	53.3	53.2	53.1	53.0	52.7	52.6	52.6	52.6	52.7	53.93
5	53.5	53.4	53.5	53.5	53.5	53.4	53.4	53.4	53.7	53.7	54.0	53.73
6	54.9	54.8	54.6	54.4	54.3	54.2	54.0	53.9	53.8	53.7	54.0	54.75
7	—	—	—	—	—	—	—	—	—	—	—	—
8	55.9	55.9	55.8	55.7	55.7	55.7	55.5	55.7	55.6	55.7	55.8	55.58
9	55.2	55.1	54.8	54.7	54.5	54.4	54.1	54.0	54.0	54.2	54.4	55.28
10	54.9	54.7	54.7	54.5	54.3	54.4	54.4	54.4	54.2	54.0	54.0	54.96
11	52.5	52.1	52.2	51.9	51.7	51.2	50.9	50.7	50.7	50.7	51.1	52.55
12	52.1	52.0	51.8	51.5	51.3	50.9	50.7	50.7	50.7	50.7	51.0	52.00
13	54.7	54.7	54.7	54.3	54.0	53.9	53.7	53.5	53.3	53.4	53.6	53.93
14	—	—	—	—	—	—	—	—	—	—	—	—
15	56.9	56.8	56.7	56.5	56.5	56.0	55.9	55.7	55.7	55.9	55.9	55.94
16	57.2	56.9	56.7	56.7	56.6	56.6	56.6	56.4	56.3	56.1	56.3	57.16
17	57.6	57.0	56.9	56.7	56.5	55.8	55.7	55.7	55.7	55.9	56.2	57.02
18	58.4	58.3	58.1	58.0	57.9	57.8	57.7	57.7	57.8	58.0	58.4	58.00
19	57.6	57.4	57.0	56.7	56.7	56.3	56.2	56.0	55.9	55.9	56.0	57.56
20	56.5	56.1	55.9	55.7	55.1	55.0	54.9	54.8	54.8	54.7	55.0	56.16
21	—	—	—	—	—	—	—	—	—	—	—	—
22	56.2	56.0	55.8	55.7	55.5	55.1	54.7	54.6	54.3	54.3	54.4	56.05
23	56.2	55.9	55.9	55.6	55.5	55.1	54.7	54.7	54.7	54.9	55.2	56.17
24	57.7	57.7	57.8	57.8	57.9	58.1	58.1	58.4	58.5	58.2	58.6	57.83
25	61.3	61.2	61.0	60.9	60.8	60.8	60.8	60.7	60.7	60.7	60.8	60.82
26	60.0	59.8	59.6	59.4	59.3	59.1	59.0	59.0	59.0	59.2	59.3	60.23
27	58.9	58.7	58.7	58.5	58.3	58.0	57.7	57.7	57.6	57.6	57.6	58.84
28	—	—	—	—	—	—	—	—	—	—	—	—
29	55.7	55.7	55.9	56.0	56.0	55.8	55.7	55.7	55.5	55.5	55.7	56.77
30	55.3	55.0	54.7	54.5	54.2	54.0	53.7	53.5	53.2	53.3	53.6	55.37
Hourly Means	55.95	55.77	55.65	55.47	55.32	55.13	54.97	54.88	54.83	54.85	55.06	55.79

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.														
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 .	12 ^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.	
JULY.	1	67.6	67.0	67.1	66.8	66.9	67.4	67.3	67.0	66.8	66.7	66.2	65.2	65.4
	2	67.3	67.3	66.2	65.1	66.3	65.6	65.4	65.4	65.6	65.5	66.1	65.9	65.7
	3	65.0	63.6	63.0	63.9	65.5	65.7	65.4	64.4	64.6	64.6	65.2	65.4	65.5
	4	66.3	66.4	66.9	67.7	68.0	67.2	66.7	66.3	65.8	65.8	65.8	65.6	67.1
	5	70.8	69.4	68.9	69.2	70.2	70.1	69.6	68.6	68.3	68.3	67.7	67.5	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	65.1
	7	71.2	70.5	68.9	67.0	65.8	64.0	63.6	63.1	61.9	62.4	63.4	63.7	63.8
	8	69.1	68.5	67.9	65.9	66.2	65.8	65.2	64.4	61.7	61.3	61.4	62.7	63.3
	9	64.7	64.8	65.2	64.8	64.6	64.0	63.3	62.3	61.6	61.5	61.6	61.9	61.9
	10	63.5	64.4	64.2	64.8	65.4	64.9	63.8	63.4	62.6	62.6	62.6	63.2	63.3
	11	64.2	63.0	62.4	63.2	63.8	64.4	63.6	63.4	63.3	62.5	62.6	62.7	62.7
	12	66.4	64.4	63.2	62.1	62.5	62.7	62.0	61.4	61.9	60.9	60.7	61.2	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	64.3
	14	68.7	68.8	69.2	69.4	70.3	68.8	69.1	68.5	68.6	68.1	68.3	68.2	67.3
	15	66.8	67.4	67.4	67.2	67.6	68.4	67.9	67.9	67.7	67.7	67.4	67.6	67.6
	16	68.4	67.4	68.4	69.0	69.6	69.0	68.4	67.9	67.4	67.4	67.0	66.7	67.2
	17	68.1	68.1	68.2	68.2	68.3	68.1	68.3	67.6	66.0	65.7	65.4	65.2	66.3
	18	69.6	69.9	69.5	68.9	69.4	68.9	67.4	66.5	67.4	65.7	65.8	65.7	64.9
	19	70.2	67.5	66.6	66.4	67.2	67.4	66.4	66.0	65.3	64.7	65.4	65.4	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	64.4
	21	68.5	66.5	64.7	65.4	67.5	67.1	65.9	65.3	65.2	65.1	64.2	64.2	64.6
	22	66.8	66.8	66.0	65.6	66.3	66.7	66.4	65.7	65.4	64.9	64.6	65.0	65.3
	23	73.3	71.7	71.4	71.5	69.4	67.4	67.5	67.3	65.5	65.3	64.7	65.0	64.9
	24	66.0	65.3	64.6	65.1	63.4	62.5	61.5	59.8	59.1	60.2	60.8	60.7	61.4
	25	58.4	59.4	60.5	60.6	61.8	61.9	60.6	57.6	59.2	60.6	62.3	60.5	61.0
	26	64.4	63.2	62.9	64.1	65.4	65.8	64.5	64.2	63.6	63.3	63.2	62.7	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	64.4
	28	64.0	62.4	62.0	63.0	64.3	64.5	63.9	64.1	63.2	63.1	63.9	64.1	64.1
	29	65.9	64.9	65.0	64.5	66.0	66.3	65.7	65.4	65.3	65.0	64.9	64.9	64.9
	30	68.2	65.9	66.4	66.4	66.2	66.5	64.4	61.9	61.8	61.9	62.4	63.9	65.5
	31	66.3	66.0	66.0	65.8	66.2	66.6	65.6	65.4	65.2	65.1	65.3	65.2	65.4
Hourly Means	67.03	66.31	66.03	65.99	66.45	66.21	65.53	64.84	64.44	64.29	64.40	64.44	64.71	
TEMPERATURE OF THE MAGNET.														
JULY.	1	53.9	54.0	54.7	54.8	55.3	55.5	55.5	55.4	55.4	55.3	55.2	55.2	55.1
	2	54.5	54.8	55.0	55.6	55.8	56.2	56.2	56.2	56.1	55.9	55.9	55.7	55.7
	3	55.8	56.2	56.5	56.8	57.2	57.4	57.6	57.6	57.5	57.5	57.2	57.1	56.9
	4	55.8	56.0	56.3	56.5	56.5	56.6	56.5	56.4	56.5	56.2	56.0	55.7	55.5
	5	54.7	54.9	55.1	55.5	55.7	55.7	55.9	55.9	56.1	56.0	55.7	55.7	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	56.9
	7	56.3	56.7	57.7	58.4	58.7	59.2	59.4	59.4	59.2	58.9	58.7	58.5	58.2
	8	57.7	58.2	58.8	59.7	60.3	60.8	60.9	61.0	60.8	60.7	60.6	60.2	60.0
	9	59.6	60.1	60.6	60.9	61.4	61.8	62.0	62.0	62.0	61.7	61.5	61.0	60.9
	10	59.7	60.0	60.5	61.2	61.7	61.9	62.0	62.2	62.1	61.9	61.7	61.3	61.0
	11	60.7	61.2	61.5	61.8	62.3	62.6	62.8	62.9	63.1	63.3	63.0	63.0	62.9
	12	62.7	62.9	63.2	63.4	63.5	63.5	63.3	63.3	63.2	63.1	63.0	63.0	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	58.5
	14	55.7	55.7	55.9	55.9	55.8	55.9	55.7	55.7	55.5	55.1	55.0	54.7	54.5
	15	52.9	53.5	53.8	54.2	54.6	54.7	54.7	54.8	54.8	54.9	54.9	54.9	54.9
	16	55.7	56.1	56.4	56.6	56.7	56.9	56.9	57.1	57.0	57.0	56.7	56.7	56.7
	17	55.9	56.3	57.0	57.7	58.2	58.3	58.5	58.3	58.1	58.0	58.0	57.8	57.7
	18	57.0	57.6	58.0	58.5	59.1	59.3	59.5	59.4	59.3	58.9	58.6	58.4	58.2
	19	56.6	56.7	57.1	57.7	57.8	58.1	58.0	58.1	58.0	58.0	58.0	57.9	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	57.5
	21	56.9	57.1	57.3	57.7	57.8	57.8	58.0	58.0	57.9	57.7	57.3	57.1	56.9
	22	56.9	56.9	56.9	56.9	57.0	57.0	56.8	56.7	56.7	56.7	56.6	56.4	56.1
	23	55.7	55.9	55.9	55.9	55.8	55.7	55.8	55.7	55.5	55.5	55.3	55.4	55.7
	24	55.5	55.6	55.6	55.7	55.8	56.0	56.2	56.4	56.4	56.3	56.4	55.9	55.7
	25	53.7	53.8	53.9	54.0	54.2	54.5	54.7	54.9	54.9	54.7	54.6	54.4	53.9
	26	52.7	52.9	53.3	53.7	54.0	54.2	54.6	54.6	54.6	54.6	54.5	54.4	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	55.3
	28	54.7	54.8	55.0	55.2	55.4	55.4	55.4	55.3	55.4	55.7	55.4	55.0	54.7
	29	53.7	53.9	54.5	54.6	54.9	55.2	55.0	55.0	55.3	55.6	55.5	55.5	54.9
	30	54.8	55.1	55.7	55.7	55.7	55.8	56.0	56.1	56.3	56.4	56.1	56.0	55.9
	31	55.4	55.5	55.7	55.9	56.1	56.3	56.4	56.4	56.5	56.4	56.5	56.4	56.4
Hourly Means	56.12	56.39	56.74	57.06	57.31	57.49	57.57	57.59	57.56	57.48	57.33	57.16	56.91	

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.													
Mean Göttingen Time.	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.	
JULY.	1	65.9	66.4	66.5	67.0	67.3	67.3	68.0	68.6	69.8	69.0	67.4	67.11
	2	66.2	66.5	66.6	67.1	67.4	68.0	68.6	68.4	67.6	67.9	66.7	66.60
	3	65.5	66.3	66.2	66.2	66.6	67.4	68.3	69.4	69.4	68.9	67.4	65.98
	4	66.4	67.4	67.3	67.5	68.2	69.2	70.0	70.9	71.7	71.7	71.1	67.79
	5	—	—	—	—	—	—	—	—	—	—	—	68.35
	6	65.8	66.0	65.1	66.6	67.8	67.3	68.3	70.2	70.8	70.2	68.6	66.27
	7	66.9	65.4	65.2	65.4	65.5	66.2	67.1	68.6	70.4	71.0	69.5	65.44
	8	64.2	64.3	64.5	64.9	65.1	67.8	67.4	68.0	68.4	67.0	65.5	63.91
	9	63.2	63.0	63.3	64.7	64.3	64.7	65.4	66.4	66.4	65.7	64.5	64.30
	10	62.8	62.9	63.0	63.9	64.6	65.2	65.6	67.4	67.2	66.6	65.4	64.15
	11	63.1	62.8	63.4	63.4	63.8	64.6	66.3	67.2	68.2	67.9	67.0	64.58
	12	—	—	—	—	—	—	—	—	—	—	—	68.95
	13	64.4	65.0	65.5	66.3	67.0	67.3	68.5	69.3	68.5	67.8	66.7	68.08
	14	67.4	68.0	67.9	68.3	69.2	69.2	70.4	71.4	71.4	69.8	68.5	68.18
	15	67.6	67.4	67.4	67.8	67.8	67.9	68.9	70.2	70.7	70.3	69.3	67.51
	16	67.4	67.7	67.5	67.7	68.2	67.8	68.4	69.3	70.0	69.5	69.0	67.65
	17	66.3	66.3	66.6	66.8	67.2	67.1	67.6	69.0	70.0	69.9	70.0	66.45
	18	66.4	65.7	66.2	65.6	66.2	66.8	67.4	69.0	69.1	70.5	71.0	66.01
	19	—	—	—	—	—	—	—	—	—	—	—	67.65
	20	65.2	65.6	65.6	65.4	66.1	66.6	66.8	68.2	67.9	67.4	67.2	66.45
	21	64.8	64.9	65.4	66.1	66.5	66.5	67.4	68.4	67.4	66.4	66.2	66.01
	22	65.6	65.8	66.4	66.4	66.6	67.1	72.1	74.3	74.7	74.9	74.2	66.01
	23	66.0	66.1	66.6	66.1	66.6	66.2	67.3	68.3	68.4	67.8	68.0	67.65
	24	62.6	63.2	65.2	67.2	64.6	66.1	64.7	65.9	65.1	63.4	61.1	67.60
	25	61.5	62.2	62.6	62.8	63.9	64.2	65.1	65.4	66.9	65.9	64.8	63.31
	26	—	—	—	—	—	—	—	—	—	—	—	62.07
	27	63.5	64.1	63.7	64.2	64.2	64.2	64.5	65.4	65.6	66.3	65.4	64.28
	28	64.2	64.2	64.5	64.6	64.8	65.2	65.2	67.2	68.0	67.7	67.4	64.57
	29	64.8	65.6	65.6	65.6	65.8	66.2	66.5	69.1	69.6	69.6	68.9	66.08
	30	66.2	66.1	65.9	67.4	65.9	66.8	68.2	68.5	68.5	67.5	66.5	65.79
	31	65.4	65.7	66.0	66.2	67.1	67.5	68.5	69.4	70.2	70.1	71.2	66.73
Hourly Means	65.16	65.36	65.54	65.97	66.23	66.68	67.50	68.64	68.96	68.54	67.72	66.13	
TEMPERATURE OF THE MAGNET.													
	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.	
JULY.	1	55.0	54.9	54.8	54.7	54.7	54.3	54.1	54.0	54.0	54.0	54.3	54.75
	2	55.6	55.6	55.4	55.4	55.4	55.5	55.5	55.4	55.5	55.6	55.7	55.59
	3	56.7	56.7	56.6	56.4	56.0	56.1	55.7	55.7	55.6	55.6	55.7	56.59
	4	55.1	55.0	55.0	55.0	54.9	54.7	54.7	54.6	54.7	54.4	54.5	55.55
	5	—	—	—	—	—	—	—	—	—	—	—	55.76
	6	56.7	56.4	56.2	55.9	55.8	55.7	55.6	55.5	55.4	55.6	55.7	57.85
	7	58.1	57.9	57.7	57.3	57.0	57.1	56.7	56.7	56.7	56.8	57.0	59.54
	8	59.7	59.5	59.2	59.0	58.8	58.8	58.7	58.7	58.7	58.9	59.2	60.50
	9	60.6	60.2	60.0	59.8	59.7	59.7	59.6	59.4	59.0	59.2	59.4	60.93
	10	60.8	60.7	60.7	60.6	60.6	60.3	60.2	60.2	60.4	60.3	60.4	62.30
	11	62.7	62.7	62.5	62.4	62.3	62.1	62.0	61.7	61.7	61.9	62.2	60.03
	12	—	—	—	—	—	—	—	—	—	—	—	54.35
	13	58.2	58.1	57.7	57.4	56.7	56.6	56.3	56.0	55.7	55.7	55.7	54.69
	14	54.3	54.0	53.7	53.3	53.1	52.8	52.5	52.3	52.3	52.5	52.6	56.29
	15	54.9	54.9	54.9	55.0	55.0	54.8	54.8	54.8	54.9	55.3	55.6	57.31
	16	56.6	56.5	56.6	56.5	56.2	56.1	55.5	55.1	54.9	55.1	55.4	57.63
	17	57.6	57.4	57.2	56.9	56.9	56.9	56.7	56.6	56.4	56.4	56.6	57.35
	18	57.8	57.7	57.2	56.7	56.5	56.1	55.8	55.7	55.7	55.9	56.3	57.13
	19	—	—	—	—	—	—	—	—	—	—	—	56.30
	20	57.4	57.3	57.2	57.0	57.0	56.9	56.9	56.7	56.8	56.8	56.8	56.70
	21	56.7	56.7	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	55.70
	22	56.0	55.8	56.0	55.9	55.9	55.7	55.7	55.6	55.6	55.7	55.7	55.70
	23	55.7	55.8	55.8	55.8	55.8	55.9	55.9	55.8	55.6	55.4	55.4	55.08
	24	55.3	55.0	54.7	54.4	54.0	53.9	53.6	53.3	53.2	53.5	53.6	53.43
	25	53.7	53.4	52.8	52.6	52.2	51.9	51.8	51.8	51.8	51.9	52.2	54.40
	26	—	—	—	—	—	—	—	—	—	—	—	54.62
	27	55.2	55.1	54.9	54.9	54.7	54.7	54.6	54.6	54.6	54.4	54.5	54.78
	28	54.7	54.5	54.4	54.1	54.0	53.7	53.7	53.6	53.7	53.5	53.6	55.60
	29	54.7	54.7	54.7	54.7	54.7	54.6	54.6	54.6	54.6	54.6	54.7	55.60
	30	55.9	55.8	55.7	55.6	55.4	55.2	55.1	55.0	54.9	55.0	55.2	56.08
	31	56.4	56.4	56.1	56.1	56.0	55.8	55.9	55.9	55.8	55.8	55.8	56.67
Hourly Means	56.74	56.62	56.46	56.30	56.15	56.02	55.89	55.78	55.74	55.80	55.94	56.67	

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.														
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 .	12 ^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.	
AUGUST.	1	72.0	68.7	63.9	62.6	62.6	57.1	58.2	60.0	60.7	61.1	61.1	63.4	
	2	65.7	64.5	63.1	63.0	64.1	64.4	63.8	63.6	63.1	62.2	62.4	61.2	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	61.2	63.0	61.4	62.5	61.6	62.6	62.3	63.1	63.0	63.3	63.4	63.4	64.6
	5	67.1	65.4	64.3	65.7	66.4	65.7	65.6	65.1	64.3	64.5	64.4	64.7	65.1
	6	69.4	68.2	66.4	65.4	66.1	66.4	65.2	65.2	65.2	64.5	64.4	64.7	66.3
	7	67.0	65.8	63.6	64.4	64.4	64.6	64.3	64.0	63.7	63.4	63.0	63.5	64.5
	8	65.6	63.3	62.3	63.3	63.9	64.2	63.6	62.9	62.8	62.7	62.9	62.7	63.7
	9	68.8	67.7	65.9	64.3	65.4	65.0	63.0	62.5	63.3	63.4	64.1	63.9	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	65.6
	11	69.3	67.1	64.3	64.1	65.4	66.5	66.2	65.7	65.4	65.2	65.2	65.3	65.4
	12	70.9	69.4	66.5	65.5	66.3	67.3	66.9	66.4	66.2	66.3	66.3	66.3	66.5
	13	69.0	66.7	65.1	64.6	65.2	65.9	65.5	65.4	65.9	66.2	66.2	65.8	65.6
	14	66.5	65.0	64.3	64.2	64.8	66.2	66.0	65.6	65.5	65.7	67.3	66.9	67.4
	15	67.6	64.9	64.4	60.4	60.4	61.4	59.2	60.8	61.3	61.3	62.0	62.0	61.9
	16	66.5	65.4	62.5	60.9	61.9	63.2	63.4	62.2	61.5	61.5	62.2	62.5	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	58.1
	18	66.2	60.6	58.9	58.9	60.6	60.6	59.6	60.1	60.5	61.5	61.9	62.3	62.0
	19	70.0	68.0	64.4	63.6	63.0	65.4	63.9	62.7	63.7	63.7	63.8	64.1	63.9
	20	66.2	66.4	65.4	64.7	64.9	66.1	66.5	65.2	64.9	64.9	65.2	65.4	65.5
	21	72.2	70.0	68.2	67.0	66.5	67.0	66.9	66.3	66.0	65.6	65.8	65.9	66.1
	22	73.1	71.0	69.3	67.6	66.6	66.7	66.1	65.6	65.9	65.1	65.2	65.6	66.0
	23	68.3	67.4	65.7	64.8	65.5	64.9	65.5	64.6	64.6	64.1	62.5	63.2	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	64.7
	25	69.6	68.4	66.4	64.6	64.6	66.3	66.1	66.0	65.0	64.5	65.6	66.4	67.4
	26	75.5	72.7	71.5	70.5	65.5	58.5	60.0	59.5	60.8	61.6	62.6	63.5	63.0
	27	67.9	65.7	64.4	64.6	65.4	65.6	65.2	64.5	63.8	63.4	63.7	63.8	64.1
	28	69.3	68.6	66.4	66.1	66.6	67.4	66.5	66.0	65.9	64.6	64.4	64.4	65.2
	29	68.2	64.4	64.5	66.3	65.4	66.4	63.7	59.9	58.9	55.3	59.2	60.4	64.3
	30	63.2	60.6	59.7	58.2	59.8	60.9	59.5	57.8	58.9	57.2	58.5	59.3	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	60.0
Hourly Means	68.32	66.50	64.72	64.15	64.34	64.47	63.95	63.49	63.49	63.18	63.59	63.87	64.41	
TEMPERATURE OF THE MAGNET.														
AUGUST.	1	55.9	55.9	56.0	55.9	55.8	56.0	55.9	55.7	55.7	55.7	55.5	55.4	
	2	54.0	54.0	54.2	54.2	54.3	54.3	54.2	54.0	53.8	53.6	53.3	—	
	3	—	—	—	—	—	—	—	—	—	—	—	52.6	
	4	52.9	53.0	53.2	53.6	53.7	53.7	53.9	53.9	53.8	53.7	53.5	53.3	53.0
	5	51.7	52.0	52.5	52.5	52.6	52.7	52.7	52.6	52.5	52.3	52.1	52.0	52.1
	6	51.7	52.4	52.7	53.2	53.5	53.8	53.9	54.0	54.0	54.0	54.2	54.2	54.2
	7	54.7	55.0	55.2	55.6	55.8	56.0	56.4	56.4	56.4	56.3	56.0	55.8	55.8
	8	55.9	56.1	56.4	56.4	56.5	56.4	56.2	56.1	55.9	55.7	55.7	55.5	55.2
	9	53.1	53.0	53.0	53.0	53.0	53.0	53.0	52.9	52.7	52.5	52.1	51.7	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	51.8
	11	52.6	52.7	53.1	53.3	53.6	53.6	53.7	53.7	53.7	53.5	53.4	53.4	53.2
	12	51.9	52.5	53.3	53.7	54.3	54.5	54.5	54.4	54.2	54.0	54.0	53.9	53.7
	13	54.3	54.7	55.0	55.3	55.6	55.8	55.9	56.0	56.0	55.9	55.7	55.7	55.7
	14	55.8	56.3	56.7	56.9	57.3	57.4	57.0	56.9	56.8	56.7	56.5	56.2	56.0
	15	55.6	56.2	56.7	57.6	57.9	58.5	58.7	58.8	58.7	58.6	58.6	57.9	57.6
	16	57.2	57.5	57.4	57.7	57.8	57.8	57.7	57.9	57.8	57.7	57.7	57.7	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	57.2
	18	57.5	57.7	57.8	57.9	58.2	58.1	57.8	57.7	57.7	57.3	57.4	57.2	56.9
	19	57.3	57.5	57.7	57.6	57.5	57.4	57.0	56.9	56.8	56.6	56.4	56.1	55.9
	20	54.7	54.7	54.6	54.5	54.5	54.3	54.3	54.1	53.8	53.7	53.5	53.0	52.8
	21	51.8	52.2	52.7	52.8	53.3	53.5	53.7	53.7	53.5	53.3	52.9	52.4	52.1
	22	51.0	51.7	52.2	52.7	53.4	53.9	53.8	53.8	53.8	53.6	53.4	53.3	53.1
	23	52.4	52.8	53.2	53.6	53.9	53.9	54.0	54.0	54.0	53.9	53.9	53.7	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	50.7
	25	50.7	51.3	51.8	52.2	52.6	52.7	52.9	52.9	52.8	52.5	52.1	51.9	51.6
	26	50.5	51.2	51.7	52.3	52.6	52.9	53.0	53.5	53.5	53.3	53.1	52.8	52.4
	27	51.9	52.5	53.4	53.8	54.2	54.6	54.7	54.7	54.6	54.5	54.2	53.9	53.8
	28	52.7	52.8	53.4	53.5	53.6	53.7	53.8	53.8	53.8	53.9	53.7	53.7	54.1
	29	53.7	54.1	54.3	54.4	54.7	54.6	54.5	54.1	54.0	54.0	54.3	54.2	54.1
	30	53.6	53.7	54.2	54.5	54.7	55.0	55.5	55.6	55.6	55.6	55.5	55.2	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	56.7
Hourly Means	53.66	53.98	54.32	54.57	54.80	54.93	54.95	54.93	54.84	54.71	54.57	54.35	54.14	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.

Mean Göttingen Time.	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.
1	61.6	63.6	65.4	65.6	65.4	64.8	65.3	66.5	67.1	65.4	66.9	63.85
2	—	—	—	—	—	—	—	—	—	—	—	—
3	65.3	64.4	66.7	66.5	66.1	66.4	68.2	66.1	68.1	63.8	61.6	64.53
4	64.4	65.4	64.8	66.2	67.1	65.8	67.3	69.4	69.1	67.4	67.4	64.57
5	65.4	65.4	65.4	66.3	66.3	66.2	67.4	68.9	69.2	69.4	70.3	66.19
6	66.2	65.7	66.4	65.9	67.3	66.6	67.0	66.2	69.1	67.9	68.1	66.41
7	65.6	64.4	66.3	66.2	64.6	65.1	66.3	66.3	65.4	65.5	65.2	64.88
8	65.0	65.2	64.4	65.6	65.4	65.8	67.0	67.4	68.4	67.9	68.0	64.75
9	—	—	—	—	—	—	—	—	—	—	—	—
10	65.4	67.1	66.6	66.7	66.9	67.2	67.6	68.7	70.6	70.5	70.1	66.26
11	65.7	65.4	65.7	66.2	66.4	67.0	68.0	69.4	70.5	71.2	70.7	66.72
12	66.4	67.2	67.4	66.7	67.1	67.4	68.4	70.3	73.4	72.2	71.1	67.85
13	65.2	65.5	65.4	65.7	66.2	66.7	68.1	69.1	69.6	68.8	68.2	66.48
14	67.6	67.6	67.4	67.4	65.4	66.6	70.2	70.2	71.4	70.7	68.4	67.01
15	62.7	62.5	63.1	63.0	63.2	63.6	65.1	66.7	67.6	67.6	66.7	63.31
16	—	—	—	—	—	—	—	—	—	—	—	—
17	59.3	60.2	62.6	66.7	62.6	62.8	65.1	67.6	69.3	69.3	69.9	63.63
18	61.7	62.1	62.4	62.7	63.3	64.3	64.5	66.6	68.6	67.6	69.8	62.80
19	64.0	64.2	64.6	64.9	65.4	65.2	64.4	65.6	67.4	67.8	66.9	65.03
20	65.7	66.4	67.3	68.2	68.4	68.6	68.9	70.0	71.0	71.0	71.2	67.00
21	66.4	68.1	68.4	68.6	69.4	69.3	70.4	72.5	74.2	74.7	74.6	68.75
22	66.0	66.1	65.2	66.0	66.5	67.6	68.7	68.4	69.6	70.4	70.2	67.44
23	—	—	—	—	—	—	—	—	—	—	—	—
24	66.5	66.4	66.3	67.9	68.1	67.0	68.5	70.5	71.2	70.9	70.7	66.66
25	66.2	66.5	66.8	68.3	69.3	70.5	71.8	74.2	76.3	77.7	77.8	68.60
26	63.2	63.4	64.4	64.5	64.6	65.2	66.1	67.6	69.3	69.8	68.9	65.51
27	65.0	64.9	65.1	65.5	65.8	66.3	67.4	69.2	68.5	69.0	69.6	65.77
28	64.6	65.3	64.8	65.3	65.7	66.9	68.1	68.1	69.4	70.5	70.3	66.68
29	64.6	61.5	61.8	62.1	61.5	62.0	64.4	63.5	65.3	62.4	64.5	62.94
30	—	—	—	—	—	—	—	—	—	—	—	—
31	60.4	60.5	61.9	61.9	61.1	60.9	62.9	64.4	64.1	64.9	63.2	60.83
Hourly Means	64.62	64.81	65.25	65.79	65.73	65.99	67.20	68.21	69.37	69.01	68.86	65.56

TEMPERATURE OF THE MAGNET.

1	55.3	55.2	54.9	54.9	54.8	54.8	54.6	54.4	54.3	54.0	54.0	55.26
2	—	—	—	—	—	—	—	—	—	—	—	—
3	52.6	52.6	52.7	52.7	52.7	52.6	52.5	52.5	52.5	52.4	52.6	53.24
4	52.7	52.6	52.2	52.0	51.7	51.7	51.6	51.5	51.6	51.4	51.5	52.74
5	52.0	52.0	51.7	51.7	51.3	51.0	50.8	50.7	50.7	50.9	51.2	51.85
6	54.1	54.3	54.1	54.0	54.1	54.0	54.0	54.0	54.0	54.3	54.7	53.81
7	55.9	55.8	55.8	55.8	55.7	55.9	55.8	55.7	55.7	55.7	55.8	55.79
8	55.0	54.9	54.8	54.6	54.5	54.0	53.8	53.7	53.7	53.3	53.2	55.15
9	—	—	—	—	—	—	—	—	—	—	—	—
10	51.9	51.9	51.8	51.7	51.7	51.7	51.7	51.7	51.7	52.0	52.3	52.29
11	53.1	53.0	52.7	52.5	52.0	51.7	51.3	51.0	51.0	51.4	51.7	52.70
12	53.7	53.7	53.7	53.6	53.5	53.6	53.6	53.5	53.5	53.7	53.8	53.70
13	55.7	55.7	55.6	55.5	55.4	55.4	55.3	55.2	55.2	55.3	55.6	55.48
14	55.8	55.7	55.6	55.5	55.3	54.8	54.7	54.7	54.7	54.8	55.1	55.97
15	57.4	57.2	57.0	57.0	56.9	56.9	56.8	56.8	56.8	56.9	57.1	57.43
16	—	—	—	—	—	—	—	—	—	—	—	—
17	57.2	57.1	57.0	56.8	56.7	56.8	56.7	56.7	56.7	56.7	57.0	57.27
18	56.9	56.8	56.7	56.8	56.7	56.7	56.7	56.7	56.7	56.7	57.0	57.23
19	55.7	55.7	55.5	55.5	55.3	55.3	55.2	55.0	54.9	54.7	54.8	56.18
20	52.7	52.5	52.4	52.1	51.8	51.5	51.3	51.2	51.2	51.3	51.6	53.00
21	51.9	51.6	51.1	50.8	50.6	50.4	50.1	49.9	50.0	50.1	50.7	51.88
22	53.0	52.9	52.5	52.0	51.7	51.4	51.2	51.1	51.2	51.6	51.8	52.50
23	—	—	—	—	—	—	—	—	—	—	—	—
24	50.6	50.5	50.2	50.0	49.8	49.7	49.7	49.5	49.6	49.8	50.2	51.82
25	51.1	50.7	50.6	50.4	50.0	49.7	49.4	49.2	49.4	49.7	49.9	51.17
26	52.0	51.8	51.6	51.5	51.4	51.1	51.0	50.8	50.9	51.1	51.5	51.98
27	53.5	53.3	52.9	52.7	52.5	52.1	51.8	51.8	51.8	52.1	52.4	53.24
28	54.0	53.9	53.9	53.7	53.7	53.7	53.5	53.4	53.3	53.6	53.7	53.62
29	54.0	53.9	53.7	53.6	53.5	53.5	53.2	53.0	53.0	52.9	53.0	53.85
30	—	—	—	—	—	—	—	—	—	—	—	—
31	56.7	56.5	56.5	56.4	56.3	56.2	56.0	55.9	55.8	55.7	55.7	55.55
Hourly Means	54.02	53.92	53.74	53.61	53.45	53.32	53.17	53.06	53.07	53.16	53.38	54.03

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.														
Mean Gottingen 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 .	12 ^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.	
SEPTEMBER.	1	62.3	62.0	61.6	60.5	59.4	57.8	59.6	58.6	58.9	59.4	58.9	61.5	60.8
	2	61.8	60.8	57.1	53.6	55.5	55.6	57.7	55.6	54.0	53.4	58.5	57.3	62.4
	3	64.1	62.4	58.6	55.2	53.8	56.0	58.3	59.4	58.2	57.4	59.3	59.4	59.9
	4	62.9	61.1	59.7	58.6	59.2	57.2	57.5	58.6	58.9	59.2	59.1	60.4	60.3
	5	63.2	61.7	60.3	59.2	59.1	60.2	60.2	60.4	59.0	59.8	59.2	60.0	59.7
	6	66.0	64.3	62.4	60.0	60.5	61.1	60.1	59.8	59.9	60.1	60.2	60.9	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	59.2
	8	65.9	60.4	59.4	58.3	57.2	58.3	57.3	58.4	58.8	59.2	59.8	60.4	61.0
	9	64.3	62.6	61.6	60.8	61.4	61.1	59.8	58.4	58.7	59.1	59.8	60.7	60.9
	10	65.3	63.4	63.4	62.7	61.9	61.9	61.8	61.7	62.0	61.9	62.2	62.4	62.4
	11	65.7	62.7	60.6	59.6	59.5	60.6	60.6	61.2	60.8	60.5	60.4	61.1	61.5
	12	62.6	62.0	62.2	60.5	58.0	57.5	57.8	58.4	58.1	58.4	59.2	60.4	60.9
	13	65.5	63.7	62.0	63.3	63.1	62.2	59.9	60.3	58.4	57.4	59.4	60.7	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	60.4
	15	61.9	62.1	61.9	61.1	61.1	60.9	60.2	60.3	60.5	60.4	60.6	61.1	61.4
	16	64.2	63.6	62.1	60.6	60.4	60.0	59.3	59.2	59.5	58.5	57.1	58.0	58.6
	17	62.9	60.9	60.2	59.9	59.2	59.1	57.4	57.3	57.4	57.6	60.1	56.7	57.6
	18	61.4	60.1	57.6	56.0	56.8	56.4	56.1	55.7	56.1	56.1	55.8	56.3	57.3
	19	59.0	57.6	57.4	55.5	55.2	55.7	56.2	54.3	53.7	52.9	55.7	54.0	55.8
	20	62.7	62.3	60.7	59.4	57.7	57.2	57.9	57.7	57.7	57.3	56.4	55.8	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	58.1
	22	63.1	61.1	59.4	58.6	59.2	59.2	58.8	58.9	58.8	58.9	59.2	59.4	59.5
	23	63.9	62.4	61.5	61.4	61.5	61.8	61.7	61.4	61.3	61.5	61.5	61.6	64.6
	24	64.0	60.2	61.6	61.2	61.4	61.6	60.7	60.8	63.7	64.9	64.8	63.0	62.7
	25	56.4	52.5	43.4	49.1	50.4	50.6	40.2	48.2	51.3	51.3	53.1	56.7	56.3
	26	57.5	56.4	55.3	54.6	53.8	53.6	54.6	54.9	54.7	53.8	54.2	55.1	55.3
	27	54.4	54.2	57.3	56.8	55.8	51.8	50.4	53.5	47.4	47.4	50.4	57.3	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	57.3
	29	54.7	55.4	56.4	56.0	56.6	57.2	55.2	54.3	55.3	54.3	53.6	55.4	56.1
	30	58.2	56.9	56.3	56.4	56.6	56.4	55.6	55.2	55.4	55.6	56.0	56.4	57.4
Hourly Means	62.07	60.49	59.23	58.42	58.24	58.12	57.50	57.79	57.63	57.55	58.25	58.92	59.52	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
SEPTEMBER.	1	55.9	56.2	56.7	56.8	57.2	57.5	57.5	57.7	57.6	57.5	57.3	57.0	56.9
	2	56.7	56.8	56.8	57.0	57.1	57.4	57.6	57.5	57.4	57.2	56.8	56.6	56.4
	3	55.7	55.6	55.7	55.7	55.8	55.8	55.9	56.0	56.0	55.9	56.0	55.9	55.9
	4	57.3	57.6	57.8	58.3	58.7	58.4	58.3	58.0	57.8	57.7	57.7	57.6	57.5
	5	56.9	57.1	57.6	57.7	58.0	58.3	58.2	58.2	58.1	57.8	57.7	57.3	56.9
	6	56.8	57.0	57.4	57.7	57.7	57.7	57.8	57.4	57.2	57.0	56.8	56.7	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	58.1
	8	57.3	57.7	58.0	58.4	58.5	58.5	58.5	58.5	58.2	58.1	58.2	58.1	58.0
	9	57.9	58.2	58.5	58.7	58.7	58.7	58.7	58.6	58.4	58.3	58.1	58.0	58.0
	10	57.3	57.4	57.5	57.6	57.7	57.7	57.7	57.7	57.4	57.1	56.9	56.8	56.7
	11	55.7	55.9	56.0	56.5	56.6	56.7	56.9	56.9	56.8	56.7	56.5	56.3	56.2
	12	55.8	55.9	56.2	56.6	56.7	56.8	56.8	56.7	56.7	56.4	56.4	56.1	55.8
	13	55.6	56.0	56.5	56.9	57.5	57.7	57.8	57.9	57.9	57.8	57.7	57.7	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	58.5
	15	58.5	58.9	59.4	59.7	60.0	60.2	60.3	60.1	60.0	59.8	59.7	59.6	59.4
	16	60.3	60.8	61.2	61.7	62.2	62.6	62.7	62.7	62.7	62.3	62.4	62.0	61.7
	17	61.2	61.8	62.5	62.7	62.9	62.8	62.7	62.5	62.2	61.8	61.4	61.0	60.8
	18	60.4	60.7	61.3	61.9	62.6	62.7	62.9	62.9	62.7	62.5	62.2	61.8	61.7
	19	60.8	61.0	61.3	61.5	61.6	61.6	61.5	61.5	61.3	61.1	61.0	60.9	60.7
	20	60.7	60.9	61.2	61.4	61.6	61.7	61.5	61.3	61.0	60.8	60.7	60.5	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	61.1
	22	60.9	61.2	61.1	61.5	61.5	61.5	61.6	61.5	61.2	61.0	60.9	60.6	60.3
	23	58.9	59.0	59.2	59.4	59.4	59.4	59.6	59.6	59.5	59.4	59.0	58.9	58.7
	24	58.5	58.5	58.8	58.8	58.8	58.8	58.9	58.9	58.9	58.8	58.7	58.7	59.0
	25	60.0	60.4	60.8	61.4	61.7	61.8	62.5	62.6	62.6	62.6	62.2	61.7	61.4
	26	61.2	61.6	61.9	62.3	62.7	62.7	62.8	62.8	62.7	62.7	62.5	62.3	62.1
	27	60.9	61.1	61.4	61.6	61.7	61.7	61.8	61.7	61.6	61.7	61.9	62.0	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	61.0
	29	60.4	60.8	61.0	61.2	61.5	61.6	61.7	61.7	61.6	61.5	61.2	61.0	60.9
	30	61.6	61.9	62.6	62.8	63.4	63.5	63.4	63.4	63.1	62.8	62.7	62.2	61.8
Hourly Means	58.58	58.85	59.17	59.45	59.68	59.76	59.83	59.78	59.60	59.47	59.33	59.13	59.06	

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.													
Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
SEPTEMBER.	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	60.6	60.8	61.6	63.0	62.3	62.6	63.4	65.4	65.9	64.4	63.4	61.45
	2	61.8	61.4	61.4	60.2	60.7	61.2	62.6	64.4	65.6	67.1	67.0	59.86
	3	60.2	61.0	60.8	61.0	60.8	60.9	62.9	65.4	67.0	67.7	62.5	60.51
	4	61.3	61.3	61.5	61.7	61.1	61.0	62.5	64.3	65.2	64.9	64.5	60.92
	5	60.2	60.6	61.0	61.1	61.4	61.7	63.2	64.6	65.6	66.7	67.3	61.48
	6	—	—	—	—	—	—	—	—	—	—	—	61.98
	7	60.4	63.2	62.5	62.3	60.5	60.7	61.6	63.6	63.5	67.0	67.8	
	8	61.0	63.8	63.0	62.4	62.4	62.4	63.9	65.6	68.1	68.4	67.4	61.78
	9	62.2	63.5	62.2	62.5	62.4	61.8	63.5	65.2	66.0	67.4	67.5	62.23
	10	62.8	63.3	62.9	63.7	63.3	64.2	65.8	67.1	67.7	67.7	67.8	63.72
	11	62.0	62.4	62.6	63.4	64.3	64.3	65.2	68.2	69.6	69.2	65.6	62.98
	12	62.5	63.6	62.4	62.1	62.7	63.3	64.8	65.8	65.4	67.3	67.4	61.80
	13	—	—	—	—	—	—	—	—	—	—	—	61.47
	14	60.6	61.2	60.9	60.6	60.6	60.5	61.6	62.8	63.5	63.9	62.8	
	15	61.7	61.4	61.5	61.6	61.4	61.4	62.6	64.6	65.7	66.2	64.8	61.93
	16	59.1	59.3	59.1	59.0	59.9	60.6	62.4	63.7	65.2	65.7	65.1	60.84
	17	55.5	58.4	58.7	57.3	57.9	58.6	60.4	60.3	61.7	61.1	63.0	59.13
	18	57.0	56.7	58.3	58.3	57.4	58.5	59.2	58.7	61.1	60.8	59.4	57.80
	19	56.5	57.3	58.2	58.9	58.6	59.2	60.9	61.3	62.2	62.2	62.0	57.51
	20	—	—	—	—	—	—	—	—	—	—	—	59.88
	21	58.3	59.3	59.6	59.5	59.6	59.9	62.1	63.9	64.7	65.5	63.9	
	22	60.1	60.4	60.6	60.8	61.0	61.9	63.4	65.9	68.1	68.1	66.4	61.28
	23	65.2	65.1	64.9	64.5	65.0	64.5	66.5	68.0	68.4	68.1	65.8	63.84
	24	62.4	62.5	59.2	61.9	62.7	58.9	59.0	57.7	56.6	57.7	56.4	61.07
	25	56.0	56.1	55.8	55.9	55.8	55.9	55.6	57.4	58.8	59.4	58.3	53.52
	26	56.8	57.4	56.6	56.2	56.4	57.4	58.3	58.1	57.3	55.0	55.4	55.78
	27	—	—	—	—	—	—	—	—	—	—	—	55.20
	28	56.5	57.2	56.4	56.7	56.5	56.2	57.8	58.9	60.1	58.7	55.7	
	29	56.0	56.9	57.6	57.3	56.6	57.7	58.4	59.9	60.1	58.5	58.4	56.58
30	57.2	56.7	57.1	57.6	57.5	58.6	60.4	61.3	61.6	59.4	59.4	57.47	
Hourly Means	59.77	60.42	60.25	60.37	60.34	60.53	61.85	63.16	64.03	64.16	63.27	60.08	

TEMPERATURE OF THE MAGNET.													
SEPTEMBER.	1	56.7	56.7	56.8	56.8	56.7	56.7	56.7	56.7	56.5	56.4	56.5	56.88
	2	56.2	56.0	55.7	55.7	55.7	55.7	55.7	55.6	55.6	55.6	55.7	56.44
	3	55.9	55.9	55.8	55.8	55.8	55.8	55.8	55.8	56.1	56.5	56.7	55.91
	4	57.4	57.2	57.0	56.8	56.7	56.7	56.6	56.6	56.5	56.7	56.8	57.40
	5	56.7	56.7	56.5	56.3	55.9	55.8	55.7	55.7	55.9	56.0	56.5	56.98
	6	—	—	—	—	—	—	—	—	—	—	—	57.31
	7	57.9	57.7	57.7	57.6	57.5	57.1	56.9	56.7	56.9	57.0	57.1	
	8	57.7	57.7	57.7	57.5	57.5	57.4	57.2	57.0	57.2	57.5	57.7	57.84
	9	57.8	57.7	57.7	57.7	57.7	57.6	57.3	57.2	57.1	57.1	57.2	57.95
	10	56.6	56.4	56.1	55.9	55.7	55.7	55.5	55.4	55.3	55.3	55.5	56.62
	11	56.1	56.1	55.9	55.9	55.9	56.1	55.9	55.8	55.7	55.7	55.8	56.19
	12	55.7	55.7	55.5	55.4	55.1	54.7	54.4	54.4	54.4	54.9	55.2	55.76
	13	—	—	—	—	—	—	—	—	—	—	—	57.53
	14	58.3	58.2	57.9	57.7	57.7	57.6	57.3	57.3	57.4	57.7	58.0	
	15	59.4	59.3	59.1	58.9	58.8	58.9	58.8	58.7	59.0	59.4	59.7	59.40
	16	61.5	61.2	60.7	60.2	60.1	59.8	59.7	59.7	59.7	60.1	60.5	61.19
	17	60.6	60.3	60.0	59.9	59.8	59.8	59.7	59.7	59.7	59.7	60.0	61.06
	18	61.7	61.5	61.6	61.4	61.2	60.8	60.7	60.7	60.6	60.7	60.7	61.58
	19	60.7	60.4	60.3	60.3	60.1	60.3	60.3	60.1	60.1	60.0	60.1	60.77
	20	—	—	—	—	—	—	—	—	—	—	—	60.88
	21	60.9	60.9	60.8	60.7	60.7	60.5	60.4	60.3	60.2	60.5	60.7	
	22	59.9	59.7	59.4	59.2	58.9	58.7	58.7	58.7	58.7	58.7	58.8	60.18
	23	58.7	58.6	58.6	58.5	58.5	58.5	58.4	58.4	58.4	58.1	58.3	58.88
	24	59.2	59.2	59.6	59.6	59.5	59.2	59.1	59.0	59.0	59.2	59.6	59.01
	25	61.1	60.8	60.6	60.4	60.2	59.9	59.9	59.9	60.0	60.5	60.7	61.07
	26	61.7	61.7	61.6	61.1	60.8	60.8	60.7	60.7	60.7	60.5	60.7	61.72
	27	—	—	—	—	—	—	—	—	—	—	—	60.92
	28	60.9	60.8	60.5	60.4	60.2	59.9	59.7	59.7	59.7	59.9	60.2	
	29	60.9	60.8	60.7	60.7	60.7	60.7	60.6	60.6	60.7	60.8	61.1	61.02
	30	61.6	61.2	61.0	60.7	60.4	60.0	59.7	59.7	59.7	60.0	60.3	61.65
Hourly Means	58.92	58.78	58.65	58.50	58.38	58.26	58.13	58.08	58.11	58.25	58.47	58.93	

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.														
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 .	12 ^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.	
OCTOBER.	1	57.8	57.4	57.2	57.2	56.2	55.2	54.4	53.3	53.4	54.5	55.4	55.6	55.5
	2	60.6	59.6	59.4	58.5	57.6	56.7	56.4	56.4	56.7	56.9	56.9	57.4	57.9
	3	58.8	57.7	57.6	56.8	57.0	55.6	54.1	54.1	54.6	55.7	57.1	56.3	58.6
	4	60.2	59.1	59.6	59.5	58.6	57.7	57.1	57.1	57.0	57.1	57.2	57.6	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	58.4
	6	60.3	58.7	57.8	55.6	54.4	53.8	52.3	52.0	51.9	52.8	54.4	54.6	56.4
	7	55.4	55.8	56.4	56.4	56.4	56.6	54.6	54.5	55.4	55.7	55.5	55.7	55.8
	8	56.4	55.6	55.9	56.5	57.2	57.2	56.8	56.2	56.0	57.0	57.8	58.2	59.3
	9	59.6	59.3	58.8	60.2	60.4	58.6	57.7	56.7	57.0	56.5	54.2	53.2	55.2
	10	51.7	50.4	50.3	51.6	51.6	51.1	51.9	52.3	50.6	52.1	52.3	53.8	54.2
	11	53.5	52.6	52.6	53.2	52.6	53.3	52.4	53.2	53.7	53.7	54.1	54.7	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	55.4
	13	56.7	57.8	57.2	55.7	55.2	55.2	54.4	54.1	54.5	54.6	55.9	56.1	56.4
	14	58.2	56.9	55.9	55.4	55.8	54.4	54.2	54.0	54.2	54.2	55.3	55.2	55.4
	15	59.3	59.3	58.2	56.4	54.4	51.4	50.4	52.2	53.9	53.7	53.6	54.4	55.1
	16	57.8	57.7	56.9	56.1	55.1	54.4	53.9	53.6	53.4	54.1	55.0	56.1	57.1
	17	58.7	56.7	56.4	54.7	52.6	52.5	51.6	51.6	52.2	53.2	53.4	56.2	55.1
	18	56.0	56.7	57.4	57.3	56.3	55.5	55.2	55.4	54.5	55.1	55.8	56.0	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	58.4
	20	60.4	58.8	57.6	56.8	49.7	53.2	52.9	52.7	53.1	53.9	54.3	53.9	53.9
	21	50.3	51.6	51.5	51.0	51.4	52.8	52.4	52.3	52.9	54.2	54.2	53.3	53.9
	22	52.9	54.2	55.6	56.0	56.1	54.2	54.2	53.8	54.5	55.1	55.2	55.5	54.6
	23	55.5	56.1	55.8	56.1	55.9	55.9	55.4	54.8	54.8	55.1	55.2	55.3	55.6
	24	57.7	56.5	56.6	54.9	54.1	53.5	53.3	53.6	54.4	55.4	56.4	56.5	56.9
	25	56.5	55.4	55.4	54.7	54.5	54.6	54.0	53.9	54.5	55.8	55.0	55.9	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	56.2
	27	55.5	54.3	53.9	54.0	52.9	52.8	53.6	54.4	55.2	55.6	55.5	56.4	56.7
	28	57.2	58.1	57.6	58.7	58.6	58.2	57.8	57.3	56.8	56.6	56.6	56.6	57.0
	29	56.4	57.6	58.4	57.0	56.5	56.5	55.6	54.4	55.1	55.6	56.1	56.3	56.6
	30	59.0	59.4	58.7	58.6	58.8	58.5	57.6	57.2	57.8	58.4	59.0	59.4	59.4
	31	60.3	59.5	60.4	60.7	60.7	59.7	58.4	58.0	57.8	57.4	57.7	57.1	56.4
Hourly Means	57.14	56.77	56.63	56.28	55.58	55.15	54.54	54.41	54.66	55.19	55.52	55.83	56.35	
TEMPERATURE OF THE MAGNET.														
OCTOBER.	1	60.8	61.2	61.7	61.9	62.5	62.8	63.2	63.1	63.0	62.7	62.3	61.7	61.5
	2	60.9	61.6	62.0	62.5	62.7	63.0	63.2	62.9	62.7	62.4	62.2	61.9	61.8
	3	62.2	62.4	62.7	63.1	63.4	63.4	63.2	63.0	62.7	62.7	62.6	62.5	62.4
	4	62.5	62.7	63.2	63.4	63.5	63.6	63.3	63.2	62.7	62.3	62.1	62.2	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	63.3
	6	64.4	65.1	65.8	66.7	67.2	67.7	68.0	68.0	67.9	67.7	67.5	66.9	66.7
	7	64.8	65.1	65.3	65.3	65.4	65.4	65.1	64.9	64.8	64.7	64.6	64.4	64.2
	8	63.5	63.5	63.4	63.4	63.3	63.2	62.9	62.7	62.4	62.0	61.7	61.5	61.4
	9	62.0	62.7	63.5	64.0	64.7	65.0	65.0	65.2	65.0	64.9	64.7	64.6	64.4
	10	63.9	64.6	65.1	65.5	65.7	65.8	65.9	65.7	65.6	65.4	64.9	64.8	64.7
	11	65.0	65.7	66.2	66.4	66.7	66.7	66.4	66.2	65.8	65.5	65.1	64.7	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	63.8
	13	65.0	65.7	66.2	66.8	67.1	67.2	66.9	66.8	66.7	66.2	66.0	65.7	65.3
	14	65.7	66.5	67.1	67.6	67.8	67.8	67.7	67.4	67.0	66.7	66.5	66.3	66.2
	15	66.6	67.1	67.6	68.0	68.4	68.5	68.3	68.0	67.8	67.7	67.4	67.2	66.8
	16	66.3	66.7	66.9	67.0	67.2	67.4	67.3	67.3	67.1	66.7	66.5	66.2	66.0
	17	65.3	65.4	65.4	65.4	65.5	65.6	65.6	65.4	65.1	64.9	64.7	64.7	64.5
	18	64.7	65.1	65.4	65.7	65.8	65.9	66.3	66.3	66.1	65.7	65.3	65.0	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	64.3
	20	65.0	65.6	65.9	66.2	66.7	66.7	66.8	66.5	66.3	66.0	65.7	65.5	65.2
	21	63.5	63.7	63.9	64.2	64.3	64.4	64.0	63.9	63.7	63.6	63.4	63.2	62.9
	22	62.1	62.3	62.7	62.8	63.5	63.6	63.7	63.6	63.5	63.3	62.8	62.8	63.0
	23	63.3	63.3	63.6	63.7	63.7	63.8	63.9	63.9	63.9	63.9	63.7	63.0	62.5
	24	59.9	59.9	59.9	60.0	60.0	60.0	60.1	60.0	59.7	59.6	59.2	58.8	58.7
	25	59.1	59.7	60.3	60.6	60.7	61.0	60.9	60.8	60.7	60.4	60.2	60.1	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	61.7
	27	62.7	63.4	63.7	64.1	64.6	64.7	64.6	64.1	63.8	63.6	63.5	63.0	62.9
	28	63.7	64.3	64.8	65.2	65.5	65.6	65.3	65.2	64.9	64.7	64.2	63.9	63.7
	29	64.1	64.8	65.2	65.5	65.7	65.7	65.5	65.3	65.0	64.7	64.5	64.3	63.8
	30	62.4	62.4	62.7	62.7	62.8	62.7	62.7	62.3	62.0	61.7	61.7	61.5	61.3
	31	62.0	62.7	63.4	63.8	64.2	64.4	64.4	64.2	64.0	63.8	63.7	63.4	63.1
Hourly Means	63.39	63.82	64.21	64.50	64.76	64.87	64.82	64.66	64.44	64.20	63.95	63.70	63.56	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
OCTOBER.	1	55.7	57.2	56.7	58.4	57.4	58.1	59.2	59.9	60.6	59.2	59.1	56.86
	2	58.1	58.2	58.6	58.6	58.4	59.2	59.5	59.4	58.9	58.4	59.4	58.24
	3	58.1	60.4	60.4	60.8	58.7	58.8	59.5	60.6	60.6	60.8	60.5	58.05
	4	—	—	—	—	—	—	—	—	—	—	—	59.08
	5	58.4	58.7	58.7	58.6	59.2	60.6	61.7	62.1	61.7	60.8	61.3	
	6	55.7	56.2	56.1	56.2	56.7	58.2	58.4	59.2	59.0	57.7	56.2	56.03
	7	58.3	56.9	56.6	56.8	57.0	58.0	59.4	60.4	59.4	58.2	57.2	56.77
	8	58.3	57.9	59.9	60.5	60.7	61.6	63.4	63.6	62.7	60.7	59.6	58.71
	9	52.1	54.1	53.7	53.7	55.7	57.6	59.3	59.6	54.9	54.1	54.2	56.52
	10	54.5	54.6	54.9	54.8	54.7	54.8	56.7	56.7	55.9	54.2	55.8	53.40
	11	—	—	—	—	—	—	—	—	—	—	—	55.30
	12	56.2	56.2	56.7	56.5	56.5	57.7	58.7	59.4	59.1	57.7	57.6	
	13	56.5	56.4	56.5	56.5	56.6	57.3	59.2	59.1	59.0	59.3	58.7	56.62
	14	55.4	55.7	55.8	56.3	56.3	57.4	58.4	58.5	58.2	58.3	58.4	56.16
	15	55.3	56.4	55.4	55.3	55.4	55.7	56.2	57.4	57.3	57.2	57.3	55.47
	16	57.2	57.2	57.1	58.2	59.0	58.7	58.4	58.4	57.5	57.0	57.3	56.55
	17	54.5	54.7	55.2	56.9	57.3	58.2	57.7	56.6	56.5	54.7	55.9	55.13
	18	—	—	—	—	—	—	—	—	—	—	—	58.32
	19	61.4	59.8	59.3	58.6	58.9	60.3	59.6	61.0	62.4	66.5	62.3	
	20	56.4	55.4	54.9	55.6	56.4	56.4	56.5	58.2	56.4	56.2	55.0	55.36
	21	54.5	57.4	56.1	57.1	56.8	57.4	57.6	56.6	54.6	52.3	52.0	53.93
	22	55.3	55.3	55.6	55.5	56.0	57.1	57.9	57.8	57.6	56.6	55.6	55.51
	23	55.8	56.2	56.7	57.4	58.3	58.4	59.4	60.1	60.3	59.0	58.9	56.75
	24	57.1	57.0	57.6	57.8	58.6	60.4	61.3	60.6	59.7	58.9	57.0	56.91
	25	—	—	—	—	—	—	—	—	—	—	—	56.50
	26	56.7	55.8	56.9	57.6	58.4	59.7	60.7	60.2	59.0	57.6	56.9	
	27	56.8	57.1	57.0	56.9	57.4	58.6	59.7	59.7	59.2	58.0	56.4	56.15
	28	57.4	56.5	56.8	56.9	57.4	59.6	61.4	61.3	59.9	58.2	57.6	57.92
	29	56.6	56.5	57.0	57.7	58.2	58.8	59.9	59.4	59.2	58.5	58.6	57.19
	30	60.1	61.2	60.8	60.4	61.6	62.4	63.2	63.1	62.2	61.4	60.5	59.95
	31	56.3	56.8	59.0	58.4	59.2	61.7	65.0	64.1	63.7	59.0	59.6	59.45
Hourly Means	56.62	56.88	57.04	57.33	57.66	58.62	59.55	59.74	59.09	58.17	57.74	56.77	

TEMPERATURE OF THE MAGNET.

OCTOBER.	1	61.2	60.8	60.4	60.0	59.7	59.7	59.6	59.6	59.7	60.0	60.5	61.23
	2	61.7	61.7	61.7	61.5	61.3	61.3	61.2	61.2	61.4	61.4	61.7	61.91
	3	62.1	61.9	61.7	61.5	61.2	61.2	61.2	61.2	61.5	61.7	61.9	62.23
	4	—	—	—	—	—	—	—	—	—	—	—	62.78
	5	63.0	62.9	62.7	62.7	62.4	62.2	62.0	62.1	62.3	62.8	63.6	
	6	66.4	66.0	65.8	65.6	65.5	65.1	65.0	64.9	64.8	64.9	64.8	66.18
	7	64.0	63.9	63.7	63.5	63.2	63.1	62.8	62.8	62.9	62.9	63.2	64.17
	8	61.1	60.8	60.7	60.5	60.1	60.0	60.0	60.1	60.3	60.8	61.5	61.70
	9	64.0	63.7	63.3	62.9	62.7	62.6	62.5	62.5	62.7	62.9	63.6	63.71
	10	64.4	64.1	63.9	63.8	63.7	63.7	63.7	63.8	63.8	64.2	64.7	64.64
	11	—	—	—	—	—	—	—	—	—	—	—	64.71
	12	63.7	63.7	63.5	63.4	63.4	63.1	63.1	63.2	63.4	63.9	64.5	
	13	65.0	64.8	64.7	64.5	64.2	64.3	64.1	64.1	64.5	64.7	65.0	65.48
	14	66.1	65.7	65.7	65.2	65.0	64.9	64.9	64.9	65.2	65.7	66.2	66.24
	15	66.6	66.5	66.1	66.0	65.8	65.7	65.5	65.5	65.5	65.7	65.9	66.84
	16	65.8	65.7	65.5	65.4	65.3	65.4	65.3	65.2	65.4	65.1	65.1	66.16
	17	64.2	64.0	64.2	64.1	64.0	63.8	63.7	63.7	63.7	64.0	64.3	64.63
	18	—	—	—	—	—	—	—	—	—	—	—	64.75
	19	64.2	64.1	63.7	63.7	63.7	63.5	63.5	63.6	63.7	64.0	64.6	
	20	64.9	64.7	64.2	63.7	63.7	63.4	63.1	63.0	63.0	63.0	63.2	64.92
	21	62.7	62.5	62.2	61.7	61.6	61.5	61.2	61.2	61.5	61.6	61.8	62.84
	22	63.1	63.1	63.0	62.7	62.7	62.3	62.3	62.2	62.3	62.6	62.7	62.86
	23	62.0	61.7	61.4	61.1	60.7	60.1	59.8	59.8	59.7	59.7	59.7	62.16
	24	58.3	58.2	57.9	57.7	57.7	57.7	57.6	57.6	57.7	58.0	58.7	58.87
	25	—	—	—	—	—	—	—	—	—	—	—	60.78
	26	61.5	61.4	61.4	60.9	60.7	60.7	60.6	60.7	61.0	61.6	62.1	
	27	62.7	62.6	62.4	62.2	62.1	61.8	61.8	62.0	62.5	62.7	63.2	63.11
	28	63.4	63.0	62.8	62.9	62.7	62.7	62.7	62.9	63.3	63.5	63.7	63.94
	29	63.7	63.7	63.6	63.3	63.0	62.7	62.5	62.4	62.3	62.3	62.4	64.00
	30	61.0	60.9	60.7	60.5	60.3	60.6	60.5	60.7	60.7	61.0	61.6	61.56
	31	63.0	62.9	62.7	62.5	62.3	62.3	62.3	62.4	62.7	63.3	63.7	63.22
Hourly Means	63.33	63.15	62.95	62.72	62.54	62.42	62.31	62.34	62.50	62.74	63.11	63.54	

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.														
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 .	12 ^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.	
NOVEMBER.	1	53.5	55.4	55.7	54.6	52.6	51.6	50.5	51.2	49.6	49.4	49.2	50.6	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	56.6
	3	56.3	56.9	56.9	55.9	56.8	56.2	55.4	54.6	54.7	55.3	55.4	56.9	56.1
	4	57.1	56.5	55.9	55.7	56.0	54.4	54.9	54.7	54.4	53.9	54.3	53.2	55.2
	5	56.1	57.4	57.2	56.6	47.2	44.6	44.0	43.2	51.6	49.4	50.7	52.9	53.9
	6	57.6	56.9	57.1	57.4	56.8	56.1	55.2	54.4	54.4	54.4	55.6	55.3	55.6
	7	51.6	51.3	51.0	51.1	51.1	50.3	48.9	48.7	50.0	50.8	52.4	53.3	52.2
	8	57.4	57.3	56.7	56.9	57.4	56.9	56.4	55.6	55.8	56.4	56.7	56.9	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	56.5
	10	59.4	59.3	58.4	58.6	58.2	57.9	55.8	53.9	54.6	55.6	56.1	55.9	56.1
	11	57.8	57.4	58.1	57.2	55.7	54.4	54.4	54.4	54.4	54.8	55.8	56.1	55.9
	12	58.4	59.2	58.8	58.2	57.0	55.7	54.0	52.8	53.0	53.7	53.6	53.7	54.1
	13	54.4	54.5	54.6	54.4	53.5	52.4	52.3	52.3	52.6	53.2	53.4	54.0	54.3
	14	54.9	54.9	55.4	54.4	53.5	52.5	52.3	51.6	52.3	52.4	52.8	53.1	53.3
	15	53.5	53.8	54.5	54.4	54.4	53.8	53.2	52.9	53.2	53.2	53.6	53.7	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	56.6
	17	48.8	49.5	51.3	49.4	48.3	48.6	49.5	45.8	46.5	46.2	50.4	51.2	52.7
	18	51.4	51.4	52.2	50.4	50.5	49.0	52.7	50.9	51.4	51.6	51.4	52.8	52.7
	19	50.8	50.2	48.9	47.6	48.5	49.4	50.4	49.6	49.6	50.2	50.3	50.2	50.1
	20	49.6	50.3	49.7	50.8	51.4	51.2	50.5	50.1	49.5	50.2	50.4	50.4	50.8
	21	53.4	53.6	53.2	52.5	51.5	52.2	51.9	51.1	51.5	52.0	52.3	52.3	52.6
	22	54.1	53.9	54.4	54.2	53.2	53.3	53.5	53.3	53.7	53.6	53.1	53.9	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	53.6
	24	53.6	53.6	54.0	53.6	51.3	51.4	52.0	51.4	51.5	54.1	52.6	52.8	53.2
	25	55.6	56.6	56.1	55.5	55.2	54.2	53.9	52.8	53.4	54.7	55.9	54.3	54.6
	26	53.1	53.7	54.3	53.1	53.6	54.4	54.4	54.2	54.6	55.2	55.2	56.4	58.5
	27	58.3	58.6	58.4	58.4	58.0	57.3	56.2	55.5	55.4	56.3	56.4	56.1	56.3
	28	46.1	48.4	50.8	51.2	52.2	51.6	55.7	56.3	51.3	51.2	51.6	52.1	53.0
	29	52.5	52.2	50.6	50.7	52.5	49.4	49.6	49.4	50.1	50.2	50.7	51.5	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	54.4
Hourly Means	54.21	54.51	54.57	54.11	53.46	52.75	52.70	52.03	52.37	52.72	53.20	53.58	54.36	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	64.0	64.5	64.7	64.7	64.9	65.0	64.9	64.7	64.5	64.3	64.3	64.1	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	63.1
	3	62.8	63.4	63.8	64.0	64.5	64.7	64.9	64.9	64.7	64.5	63.8	63.5	63.2
	4	63.6	64.3	64.7	65.2	65.7	65.9	65.9	65.9	65.7	65.4	65.0	64.7	64.2
	5	64.6	65.0	65.5	65.7	66.2	66.6	66.7	66.8	66.8	66.8	66.7	66.1	65.7
	6	64.6	65.1	65.4	65.7	66.1	66.3	66.4	66.4	66.2	66.0	65.8	65.7	65.6
	7	64.7	64.7	64.8	64.8	64.8	64.8	64.6	64.5	64.0	63.7	63.6	63.2	62.7
	8	61.4	61.7	62.0	62.3	62.6	62.7	62.8	62.7	62.5	62.3	61.8	61.7	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	63.3
	10	63.4	63.7	64.2	64.6	64.9	65.2	65.1	65.0	64.9	64.8	64.5	64.0	63.7
	11	63.7	64.1	64.7	65.0	65.5	65.7	65.7	65.6	65.4	65.0	64.7	64.3	64.2
	12	65.7	66.4	67.0	67.7	68.0	68.6	68.8	68.8	68.7	68.4	68.4	68.4	68.0
	13	68.7	69.5	69.9	70.4	70.7	70.7	70.6	70.0	69.7	69.2	69.2	68.7	68.5
	14	69.3	70.0	70.7	71.1	71.5	71.7	71.7	71.7	71.4	70.9	70.4	69.9	69.6
	15	68.7	68.7	68.9	69.1	69.2	69.2	68.9	68.7	68.2	67.7	67.2	66.9	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	64.7
	17	64.7	65.0	65.2	65.3	65.4	65.4	64.9	64.9	64.8	64.8	64.8	64.3	63.8
	18	65.0	65.8	66.7	67.5	68.2	68.6	68.8	69.0	68.7	68.6	68.4	68.1	68.1
	19	69.4	69.9	70.2	70.7	70.8	70.9	70.9	70.9	70.8	70.8	70.6	70.2	69.9
	20	69.7	70.0	70.7	71.2	71.6	72.0	72.2	72.0	71.7	71.4	70.9	70.5	70.0
	21	69.1	69.7	70.3	70.7	70.9	71.1	71.1	70.8	70.7	70.3	69.8	69.6	69.0
	22	67.3	67.3	67.2	67.2	67.3	67.2	67.5	67.4	67.1	66.7	66.3	66.1	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	65.4
	24	66.5	66.8	67.4	67.7	68.0	68.3	68.3	68.2	67.8	67.5	67.1	66.7	66.6
	25	66.7	67.1	67.4	67.8	68.1	68.1	68.1	68.0	67.8	67.7	67.6	67.4	67.2
	26	65.5	65.6	65.7	65.8	66.0	66.0	66.1	65.9	65.6	65.5	65.1	64.8	64.7
	27	64.5	64.8	65.1	65.5	65.6	65.8	65.8	65.7	65.5	65.1	64.8	64.7	64.4
	28	65.2	65.7	66.0	66.7	67.0	67.5	68.1	68.4	68.2	68.1	67.7	67.6	67.7
	29	66.7	66.7	67.3	67.6	67.9	68.3	68.4	68.7	68.7	68.7	68.6	68.1	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	64.6
Hourly Means	65.82	66.22	66.62	66.96	67.26	67.45	67.49	67.42	67.20	66.97	66.68	66.37	65.92	

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.													
Mean Göttingen Time.	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.	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	54.48	
	2	56.8	56.5	59.7	58.5	58.1	58.6	58.6	55.6	54.6	54.3	55.8	
	3	56.2	56.0	56.2	56.4	57.1	58.2	58.4	57.3	57.4	57.6	57.7	56.50
	4	55.6	55.1	55.6	55.5	56.4	57.5	59.2	59.5	59.6	56.7	57.4	56.01
	5	54.3	53.9	54.3	55.2	55.8	56.7	59.4	60.6	59.5	58.5	58.4	53.81
	6	55.4	55.7	55.0	57.4	58.4	57.8	58.7	58.5	56.9	53.9	51.6	56.09
	7	53.7	54.1	54.1	55.9	57.1	58.6	59.4	59.0	59.1	59.3	57.7	53.78
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	56.8	57.1	57.2	57.2	57.6	58.7	59.3	60.4	59.2	56.9	57.3	57.28
	10	57.4	58.1	58.2	58.8	58.4	60.4	62.0	60.7	59.4	58.4	57.4	57.88
	11	56.2	56.5	56.4	56.5	57.4	59.4	60.2	59.4	58.1	56.4	56.5	56.65
	12	54.3	54.4	54.9	55.4	56.6	58.7	59.5	57.7	54.4	53.4	54.3	55.66
	13	54.3	54.7	54.7	55.0	55.5	57.1	59.1	59.3	57.3	56.0	56.1	54.79
	14	53.4	53.5	53.7	54.2	54.7	56.3	57.6	57.3	54.6	52.4	52.6	53.90
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	57.0	57.7	58.4	59.2	59.7	62.2	63.6	63.4	61.4	54.1	53.4	56.29
	17	52.7	51.7	51.7	52.2	54.2	56.0	56.5	56.6	57.1	55.1	53.6	51.48
	18	53.5	52.8	53.4	52.9	53.2	55.3	55.8	53.1	49.7	48.5	48.5	51.88
	19	50.7	51.3	51.9	50.6	51.9	53.4	53.9	53.6	53.0	51.6	49.6	50.72
	20	50.8	51.2	51.1	51.6	52.7	54.9	55.4	56.2	56.3	55.5	54.4	51.88
	21	53.0	52.8	52.9	53.3	54.4	55.3	55.6	56.4	57.0	56.4	54.9	53.42
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	54.1	54.3	54.6	55.0	55.9	56.9	57.9	58.1	57.7	56.3	55.3	54.75
	24	53.7	55.1	55.0	56.0	57.4	59.8	60.7	60.2	57.4	55.6	55.4	54.64
	25	54.4	54.5	55.1	55.4	56.5	57.4	57.2	57.1	55.2	53.5	52.5	55.07
	26	58.1	59.4	62.2	61.8	60.4	61.1	61.8	61.3	60.8	59.9	58.5	57.33
	27	59.2	59.1	58.1	59.1	59.9	60.6	60.2	58.7	55.9	52.7	50.4	57.30
	28	52.7	53.3	54.6	53.8	56.1	57.1	56.7	56.3	54.6	52.6	53.2	53.02
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	54.6	54.7	55.3	55.2	55.8	57.3	58.5	58.4	57.4	56.4	56.1	53.48
Hourly Means	54.76	54.94	55.37	55.68	56.45	57.81	58.61	58.19	56.94	55.28	54.74	54.72	
TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	63.32	
	2	62.8	62.6	62.3	62.0	61.7	61.6	61.5	61.5	61.7	61.9	62.4	
	3	62.8	62.7	62.7	62.4	62.1	62.1	61.9	62.1	62.3	62.6	63.1	63.31
	4	64.0	63.8	63.8	63.6	63.5	63.0	63.0	63.1	63.4	63.7	64.1	64.38
	5	65.1	64.7	64.2	63.7	63.5	63.3	63.0	63.0	63.5	63.7	64.2	65.05
	6	65.5	65.4	65.0	64.7	64.7	64.4	64.2	64.1	64.1	64.3	64.5	65.26
	7	62.6	62.2	61.7	61.4	61.0	60.7	60.7	60.7	60.8	60.9	61.0	62.86
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	63.1	63.0	63.0	62.9	62.7	62.7	62.7	62.7	62.7	62.7	63.0	62.54
	10	63.1	63.0	62.9	62.6	62.4	62.1	62.0	62.2	62.3	62.7	63.1	63.60
	11	63.8	63.6	63.4	63.0	62.9	63.0	63.0	63.4	63.6	64.1	64.8	64.26
	12	67.7	67.4	67.1	66.7	66.5	66.2	66.2	66.3	66.7	67.5	68.2	67.48
	13	68.1	67.7	67.3	67.1	66.8	66.7	66.7	66.7	66.7	67.1	67.7	68.59
	14	69.3	68.9	68.8	68.7	68.5	68.5	68.4	68.4	68.5	68.5	68.5	69.79
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	64.2	63.9	63.7	63.6	63.5	63.2	63.2	63.4	63.7	64.1	64.4	66.13
	17	63.6	63.4	63.2	63.0	62.8	63.0	63.1	63.4	63.7	63.9	64.5	64.20
	18	68.0	67.7	67.7	67.6	67.3	67.2	67.2	67.5	68.0	68.5	68.9	67.80
	19	69.6	69.4	68.8	68.7	68.7	68.5	68.2	68.3	68.6	68.7	69.1	69.69
	20	69.7	69.3	68.9	68.7	68.4	68.3	68.0	68.0	68.1	68.1	68.6	69.92
	21	68.7	68.6	68.4	68.1	67.9	67.7	67.6	67.6	67.6	67.5	67.4	69.18
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	65.2	65.0	64.9	64.7	64.7	64.8	64.7	65.0	65.2	65.7	66.0	66.08
	24	66.2	66.1	65.9	65.7	65.5	65.5	65.4	65.5	65.7	65.8	66.3	66.69
	25	66.9	66.7	66.5	66.3	66.2	65.9	65.8	65.7	65.7	65.4	65.4	66.90
	26	64.4	64.2	63.9	63.8	63.7	63.5	63.5	63.4	63.5	63.7	64.0	64.75
	27	64.0	64.0	64.2	64.0	64.0	63.7	63.8	63.9	64.0	64.4	64.9	64.68
	28	67.7	67.4	67.2	66.9	66.7	66.1	66.0	66.0	66.0	66.3	66.4	66.94
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	64.5	64.4	64.1	64.0	63.7	63.7	63.6	63.6	63.6	63.7	63.8	65.96
Hourly Means	65.62	65.40	65.18	64.96	64.78	64.62	64.54	64.62	64.80	65.04	65.40	65.97	

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.														
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 .	12 ^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.	
DECEMBER.	1	55.6	54.3	53.4	53.3	53.9	54.0	53.7	53.2	52.9	52.6	53.4	53.6	54.4
	2	54.4	53.6	53.5	52.6	52.8	53.1	52.5	52.2	52.3	52.4	53.0	53.6	53.7
	3	47.7	45.1	48.7	44.7	33.7	29.3	25.2	23.6	23.9	36.5	33.0	34.6	38.6
	4	48.8	47.4	48.3	48.5	47.5	45.5	44.4	45.4	45.5	46.4	47.1	47.4	47.4
	5	47.4	45.4	44.9	43.4	42.7	42.4	42.5	44.1	45.4	46.1	46.4	46.8	47.2
	6	48.1	46.7	46.6	46.9	46.0	46.6	46.5	46.6	46.7	47.2	47.5	48.1	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	47.3
	8	48.9	49.4	48.1	48.0	47.6	47.4	47.4	46.6	47.3	47.6	48.3	48.4	48.9
	9	48.8	49.2	48.4	47.5	47.6	48.3	48.7	48.7	48.7	49.0	49.2	49.4	50.4
	10	55.1	54.2	50.4	50.1	50.4	50.1	51.4	50.5	51.2	52.2	52.1	53.1	53.4
	11	54.6	55.4	55.4	55.2	54.1	53.8	52.4	52.2	51.6	52.4	52.4	52.7	53.2
	12	51.4	53.6	53.6	52.6	51.8	51.0	49.2	47.9	45.9	47.9	49.2	49.7	50.4
	13	45.8	43.4	44.3	45.4	45.4	44.1	43.4	44.3	43.5	44.2	44.6	44.9	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	48.4
	15	46.0	46.5	46.9	46.1	48.6	49.6	49.1	45.7	46.7	47.4	48.5	49.6	48.5
	16	50.4	49.4	48.9	48.5	48.7	47.5	46.3	47.9	48.5	48.4	48.7	48.8	50.4
	17	49.3	48.2	48.4	48.1	48.1	47.4	48.1	48.7	47.9	49.7	49.2	49.2	50.2
	18	47.9	49.1	49.9	47.9	47.4	47.9	48.3	47.8	48.1	48.1	48.4	48.3	48.3
	19	49.2	49.6	49.8	50.4	50.6	50.4	49.9	49.4	49.4	49.6	49.6	50.1	50.2
	20	51.5	52.3	52.4	52.0	51.1	51.1	51.1	50.6	50.2	50.4	50.6	50.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	52.9
	22	52.4	53.4	52.9	52.6	53.2	51.7	50.6	51.1	51.2	51.3	51.9	51.1	51.4
	23	51.4	52.9	53.3	52.9	52.3	50.8	48.7	49.4	49.8	51.5	53.2	52.4	53.3
	24	46.4	47.9	47.2	47.1	47.0	48.5	48.8	47.8	48.4	47.6	48.4	49.3	49.7
	25	47.4	48.4	48.8	49.8	49.5	49.4	49.7	48.3	48.1	48.3	48.2	48.2	48.3
	26	51.2	52.3	52.6	52.6	52.9	51.9	50.4	50.1	50.6	50.2	50.4	50.5	51.4
	27	50.4	49.5	49.0	46.4	45.5	46.3	46.9	46.4	46.6	46.9	47.6	48.5	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	49.6
	29	52.2	52.2	51.7	50.4	50.1	50.1	49.8	50.2	50.2	50.4	50.4	50.6	51.3
	30	49.6	43.4	39.4	42.3	41.4	42.4	42.6	39.2	42.6	44.1	45.4	45.4	45.0
	31	43.4	43.3	44.5	46.1	46.1	45.9	46.2	45.7	46.2	46.4	46.6	46.6	46.8
Hourly Means	49.83	49.49	49.31	48.94	48.37	48.02	47.55	47.17	47.39	48.33	48.64	48.94	49.65	
TEMPERATURE OF THE MAGNET.														
DECEMBER.	1	64.2	64.5	64.9	65.0	65.3	65.4	65.3	65.0	64.8	64.5	64.4	64.1	63.8
	2	64.2	64.9	65.6	65.9	66.2	66.2	66.0	65.8	65.7	65.4	65.3	64.9	64.8
	3	66.7	67.0	67.4	67.7	67.7	67.7	67.7	67.7	67.4	67.2	66.9	66.8	66.7
	4	66.1	66.5	67.2	67.7	68.4	68.7	68.9	68.8	68.7	68.5	68.0	67.7	67.1
	5	66.8	67.3	67.8	68.2	68.4	68.8	69.1	69.1	69.2	69.0	68.7	68.6	68.4
	6	68.9	69.5	69.7	70.1	70.5	70.7	70.9	71.0	70.9	70.7	70.7	70.4	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	70.8
	8	70.4	70.7	71.2	71.6	72.1	72.4	72.7	72.8	72.7	72.6	72.1	71.7	71.4
	9	70.8	71.3	71.7	72.2	72.5	72.5	72.3	71.9	71.7	71.2	70.7	70.3	69.8
	10	67.9	68.2	68.2	68.4	68.5	68.6	68.0	67.7	67.1	66.7	66.4	65.9	65.6
	11	65.5	65.9	66.4	66.9	67.2	67.3	67.7	67.5	67.4	67.2	67.0	66.7	66.5
	12	67.6	68.3	68.8	69.6	70.1	70.8	70.8	70.7	70.7	70.3	70.0	69.6	69.1
	13	68.7	68.9	69.2	69.6	69.8	70.0	70.4	70.5	70.5	70.4	70.0	69.9	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	70.0
	15	68.0	68.4	68.8	68.8	68.8	68.9	69.1	69.0	68.8	68.4	68.0	67.7	67.3
	16	67.1	68.3	68.5	68.7	69.4	69.6	69.7	69.6	69.2	68.9	68.7	68.4	68.2
	17	68.0	68.5	68.7	69.0	69.4	69.6	69.5	69.4	69.2	69.0	68.8	68.7	68.7
	18	69.1	69.5	69.7	69.9	70.2	70.5	70.7	70.6	70.4	70.0	69.7	69.4	68.8
	19	67.7	67.9	68.6	68.7	69.0	69.3	69.4	69.4	69.2	69.0	68.7	68.3	67.9
	20	67.6	67.8	68.3	68.7	68.9	68.9	68.9	68.9	68.9	68.8	68.7	68.6	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	66.7
	22	66.7	67.3	67.7	68.1	68.5	68.7	68.7	68.7	68.5	68.2	67.7	67.5	67.3
	23	68.7	69.2	69.7	69.8	70.1	70.5	70.5	70.4	70.2	69.8	69.7	69.4	69.1
	24	70.1	70.7	71.1	71.7	71.9	72.3	72.2	72.1	71.9	71.7	71.6	71.6	71.7
	25	71.5	72.0	72.1	72.4	72.5	72.5	72.4	72.5	72.3	71.9	71.5	70.8	70.3
	26	69.7	69.9	70.6	70.8	71.0	71.1	71.3	71.3	71.2	71.2	70.9	70.8	70.7
	27	71.9	72.5	73.0	73.6	73.7	73.7	73.5	73.1	72.7	71.9	71.4	70.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	68.2
	29	67.4	67.7	68.0	68.3	68.4	68.5	68.7	68.4	68.1	67.7	67.4	67.1	67.1
	30	68.5	68.9	69.7	70.3	70.7	71.3	71.6	71.7	71.7	71.6	71.4	70.7	70.4
	31	69.5	69.9	70.1	70.2	70.4	70.5	70.2	69.9	69.5	69.1	68.7	68.1	67.7
Hourly Means	68.12	68.57	68.99	69.33	69.61	69.81	69.86	69.76	69.58	69.29	69.00	68.69	68.30	

HORIZONTAL FORCE.																																																																																																																																																																																																																																																																																																																																																																																																																			
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.																																																																																																																																																																																																																																																																																																																																																																																																																			
Mean Göttingen Time.	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.																																																																																																																																																																																																																																																																																																																																																																																																							
DECEMBER.	1	54.5	54.7	55.1	55.6	57.5	59.2	59.8	60.4	58.7	57.1	55.2	55.25																																																																																																																																																																																																																																																																																																																																																																																																						
	2	53.7	53.9	54.0	54.1	59.4	60.5	62.1	61.4	60.0	55.7	53.4	54.91																																																																																																																																																																																																																																																																																																																																																																																																						
	3	39.4	44.3	42.4	44.1	45.3	47.0	47.6	48.5	47.4	47.5	48.1	40.26																																																																																																																																																																																																																																																																																																																																																																																																						
	4	47.4	47.9	48.6	48.7	50.2	52.3	53.4	53.5	53.1	49.6	48.4	48.45																																																																																																																																																																																																																																																																																																																																																																																																						
	5	47.4	48.2	47.9	47.9	50.1	52.0	53.4	53.2	50.7	49.2	47.9	47.19																																																																																																																																																																																																																																																																																																																																																																																																						
	6	—	—	—	—	—	—	—	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																						
	7	48.0	47.9	48.0	48.4	49.4	50.6	50.8	50.5	50.5	49.7	48.7	48.05																																																																																																																																																																																																																																																																																																																																																																																																						
	8	48.4	49.4	49.8	49.5	50.4	50.9	51.2	52.6	52.7	51.1	49.4	49.14																																																																																																																																																																																																																																																																																																																																																																																																						
	9	50.2	50.2	51.3	51.9	52.3	54.1	54.9	55.6	56.0	56.5	57.3	51.01																																																																																																																																																																																																																																																																																																																																																																																																						
	10	54.4	55.1	55.4	55.5	56.0	58.5	59.3	57.9	56.2	54.7	53.9	53.80																																																																																																																																																																																																																																																																																																																																																																																																						
	11	53.2	54.6	54.4	54.9	56.6	57.9	57.9	56.4	55.1	53.1	51.1	54.19																																																																																																																																																																																																																																																																																																																																																																																																						
	12	50.5	51.4	51.2	51.9	53.6	54.9	56.2	55.1	54.2	53.6	49.2	51.50																																																																																																																																																																																																																																																																																																																																																																																																						
	13	—	—	—	—	—	—	—	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																						
	14	48.8	49.2	49.6	50.5	52.2	54.6	55.7	55.2	52.1	51.6	50.0	47.97																																																																																																																																																																																																																																																																																																																																																																																																						
	15	49.9	49.4	50.3	51.4	52.4	53.6	54.0	53.5	51.8	50.1	49.3	49.37																																																																																																																																																																																																																																																																																																																																																																																																						
	16	49.4	49.3	49.7	50.4	50.9	52.1	54.2	55.7	55.3	55.3	52.0	50.05																																																																																																																																																																																																																																																																																																																																																																																																						
	17	50.6	49.5	49.2	50.5	51.3	52.6	53.3	53.3	52.9	51.3	49.0	49.83																																																																																																																																																																																																																																																																																																																																																																																																						
	18	48.4	48.7	48.9	49.4	50.8	52.3	52.7	52.1	51.1	49.4	49.2	49.18																																																																																																																																																																																																																																																																																																																																																																																																						
	19	50.6	51.4	52.1	52.1	53.3	55.3	55.9	56.5	56.1	54.3	52.3	51.59																																																																																																																																																																																																																																																																																																																																																																																																						
	20	—	—	—	—	—	—	—	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																						
	21	53.2	53.5	53.5	54.1	55.3	56.6	58.2	59.2	59.3	56.9	53.6	53.33																																																																																																																																																																																																																																																																																																																																																																																																						
	22	52.1	52.5	51.9	52.7	54.2	55.3	54.7	54.8	53.6	51.6	50.9	52.46																																																																																																																																																																																																																																																																																																																																																																																																						
	23	54.4	52.8	52.4	51.6	52.8	53.7	53.7	53.9	52.1	51.4	48.3	52.04																																																																																																																																																																																																																																																																																																																																																																																																						
	24	50.2	50.2	50.1	49.4	50.9	52.3	53.0	53.1	52.4	49.9	47.6	49.30																																																																																																																																																																																																																																																																																																																																																																																																						
	25	48.5	48.9	49.4	50.5	52.2	54.4	57.5	58.1	58.2	54.6	51.2	50.66																																																																																																																																																																																																																																																																																																																																																																																																						
	26	51.7	52.2	52.8	53.4	55.5	54.8	54.6	54.4	53.8	52.1	51.2	52.23																																																																																																																																																																																																																																																																																																																																																																																																						
	27	—	—	—	—	—	—	—	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																						
	28	50.1	50.1	50.9	51.4	53.4	55.3	57.0	55.8	53.9	51.5	50.5	49.98																																																																																																																																																																																																																																																																																																																																																																																																						
	29	51.6	51.8	52.4	53.6	54.4	55.6	57.9	56.5	52.9	53.4	52.1	52.16																																																																																																																																																																																																																																																																																																																																																																																																						
	30	45.1	46.3	46.5	47.5	49.1	49.4	51.2	51.2	48.9	45.1	44.3	45.31																																																																																																																																																																																																																																																																																																																																																																																																						
	31	46.9	47.4	48.0	48.6	50.7	53.7	55.9	55.8	53.4	49.8	48.1	48.00																																																																																																																																																																																																																																																																																																																																																																																																						
Hourly Means	49.95	50.40	50.59	51.10	52.60	54.06	55.04	54.97	53.79	51.96	50.37	50.27																																																																																																																																																																																																																																																																																																																																																																																																							
TEMPERATURE OF THE MAGNET.																																																																																																																																																																																																																																																																																																																																																																																																																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Hourly Means																																																																																																																																																																																																																																																																																																																																																																																			
DECEMBER.	1	63.6	63.4	63.1	62.8	62.7	62.7	62.7	62.7	62.7	63.1	63.7	63.93	2	64.7	64.7	64.7	64.1	64.1	64.4	64.7	64.9	65.3	65.8	66.3	65.19	3	66.5	66.5	66.3	66.0	65.7	65.6	65.4	65.2	65.2	65.4	65.7	66.59	4	66.8	66.4	66.1	65.8	65.7	65.7	65.6	65.7	65.9	66.0	66.6	67.03	5	68.1	67.9	67.7	67.7	67.7	67.4	67.4	67.5	67.7	68.2	68.6	68.14	6	—	—	—	—	—	—	—	—	—	—	—	—	7	70.6	70.2	69.8	69.6	69.2	69.0	69.0	69.1	69.4	69.7	69.8	70.01	8	71.2	70.7	70.1	70.1	69.9	69.7	69.7	69.7	69.9	70.1	70.7	71.09	9	69.0	69.0	68.7	68.5	68.3	67.7	67.7	67.7	67.7	67.7	67.7	69.94	10	65.0	64.8	64.5	64.3	63.9	63.8	63.9	64.0	64.4	64.6	64.9	66.05	11	66.2	66.1	65.9	65.7	65.7	65.4	65.4	65.5	65.7	66.4	66.8	66.42	12	68.6	68.2	67.8	67.3	67.0	66.7	66.7	66.9	67.2	67.7	68.1	68.69	13	—	—	—	—	—	—	—	—	—	—	—	—	14	69.7	69.4	69.0	68.8	68.6	68.6	68.4	68.2	68.1	67.8	67.9	69.27	15	66.9	66.7	66.6	66.3	65.9	65.7	65.7	65.8	65.9	66.2	66.6	67.43	16	67.9	67.7	67.7	67.4	67.1	67.2	67.0	67.1	67.1	67.4	67.7	68.15	17	68.7	68.6	68.4	68.0	67.7	67.7	67.7	67.7	68.0	68.5	68.7	68.59	18	68.5	68.1	67.7	67.2	66.9	66.7	66.5	66.5	66.7	66.9	67.2	68.64	19	67.7	67.3	66.9	66.7	66.6	66.5	66.5	66.5	66.7	66.7	67.0	67.84	20	—	—	—	—	—	—	—	—	—	—	—	—	21	66.5	66.0	66.0	65.8	65.7	65.5	65.5	65.7	65.7	66.0	66.4	67.27	22	67.1	66.8	66.7	66.5	66.4	66.5	66.5	66.7	66.9	67.4	68.0	67.46	23	68.9	68.7	68.5	68.2	67.9	67.8	68.0	68.1	68.4	69.0	69.6	69.18	24	71.6	71.6	71.4	71.2	71.3	71.0	70.8	70.8	70.8	71.0	71.2	71.39	25	70.0	69.7	69.5	69.3	68.9	68.8	68.8	68.9	69.2	69.4	69.7	70.70	26	70.7	70.5	70.5	70.4	70.2	69.9	70.0	70.1	70.4	70.8	71.3	70.64	27	—	—	—	—	—	—	—	—	—	—	—	—	28	67.7	67.4	66.8	66.6	66.2	66.0	65.9	65.9	66.2	66.6	66.9	69.68	29	66.8	66.7	66.6	66.5	66.2	66.2	66.2	66.4	66.9	67.5	67.9	67.36	30	70.1	69.8	69.4	69.1	68.8	68.7	68.6	68.6	68.6	68.7	69.1	69.92	31	67.1	66.8	66.1	65.9	65.7	65.6	65.5	65.5	65.6	65.7	65.9	67.88
	Hourly Means	68.01	67.77	67.50	67.25	67.04	66.91	66.88	66.94	67.12	67.42	67.78	68.31																																																																																																																																																																																																																																																																																																																																																																																																						

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.														
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 .	12 ^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.	
JANUARY.	1	48.1	47.4	48.8	49.7	51.1	51.1	50.1	49.4	49.4	49.6	50.8	49.6	49.9
	2	48.9	48.4	47.3	47.4	48.2	49.2	49.6	48.7	48.3	48.5	48.4	48.9	48.7
	3	47.3	47.1	46.8	47.0	47.9	48.4	48.4	48.2	48.4	49.2	48.9	49.0	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	46.2
	5	48.2	48.3	48.6	48.6	47.9	47.4	47.4	47.5	47.7	47.8	47.7	46.5	48.6
	6	47.5	48.4	48.5	48.5	47.6	46.4	48.9	49.1	49.5	49.8	49.4	49.9	50.2
	7	48.3	52.0	52.4	51.9	50.3	50.3	46.4	46.6	48.2	46.8	48.5	48.8	49.4
	8	49.6	49.3	48.5	48.7	49.4	50.6	50.3	48.6	48.2	49.3	49.3	49.4	49.4
	9	51.6	51.5	51.4	50.4	50.1	47.4	49.1	48.9	48.9	49.1	49.0	49.2	50.4
	10	52.8	52.4	51.4	51.3	50.8	50.0	49.9	49.7	49.6	49.1	49.4	50.3	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	49.9
	12	49.8	47.0	45.1	46.0	47.1	47.7	47.2	47.1	45.4	46.5	47.2	48.1	48.2
	13	51.2	52.4	51.9	50.1	48.7	48.0	48.2	47.5	47.6	49.2	47.7	53.4	52.4
	14	44.6	44.3	46.2	46.2	46.4	45.9	44.3	43.5	41.7	42.2	45.9	44.9	44.9
	15	44.4	44.3	45.4	47.7	48.3	48.3	47.4	46.1	46.0	46.8	46.5	46.3	46.6
	16	43.5	45.6	45.6	45.2	46.4	46.2	45.0	44.8	45.2	46.2	45.4	44.4	46.1
	17	44.1	43.7	44.4	44.2	42.1	43.4	41.4	42.1	40.4	41.3	43.8	45.2	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	42.9
	19	41.6	43.4	45.5	47.5	47.7	47.4	46.0	44.1	44.4	44.6	45.2	45.4	46.2
	20	45.1	46.5	48.6	47.7	47.4	46.9	47.4	47.4	47.5	47.3	47.4	47.6	48.2
	21	47.0	48.1	48.4	47.4	47.3	47.4	46.6	46.4	46.2	45.8	46.1	46.4	46.4
	22	45.1	45.9	47.2	47.4	48.0	47.4	45.8	45.2	45.4	45.7	46.5	47.4	47.3
	23	44.0	43.6	45.7	46.5	47.5	47.9	48.4	47.2	47.6	48.9	53.3	50.0	44.6
	24	45.6	44.2	42.7	42.4	42.0	42.3	41.6	39.4	44.3	41.5	40.8	41.4	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	43.4
	26	44.8	42.4	42.3	43.2	43.5	43.4	43.4	43.3	43.4	43.6	44.0	44.3	44.9
	27	47.4	47.4	47.3	46.7	46.5	45.9	46.0	46.4	45.9	45.8	46.2	46.3	47.2
	28	46.5	44.6	43.8	43.5	43.0	42.7	43.4	43.4	43.5	45.4	45.5	46.4	46.7
	29	43.9	42.6	43.2	44.0	44.4	44.4	43.4	44.5	46.3	46.2	46.2	45.7	46.0
	30	41.5	40.9	41.3	42.5	44.6	46.4	44.7	42.9	42.1	43.6	43.1	42.8	43.1
Hourly Means	46.63	46.60	46.86	46.99	47.08	47.02	46.55	46.08	46.20	46.53	47.01	47.22	47.22	
TEMPERATURE OF THE MAGNET.														
JANUARY.	1	66.1	66.9	67.0	67.4	67.6	67.7	67.7	67.7	67.5	67.1	66.9	66.7	66.6
	2	67.8	68.6	69.2	69.9	70.3	70.6	70.8	70.6	70.4	70.1	69.6	69.2	68.9
	3	69.9	70.3	70.3	70.7	70.9	71.1	71.1	71.0	70.9	70.7	70.4	70.1	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	70.7
	5	70.7	70.9	71.1	71.7	71.7	71.8	71.8	71.7	71.4	70.9	70.7	70.4	70.0
	6	67.9	68.0	68.3	68.1	67.7	67.7	67.4	67.1	66.8	66.7	66.7	66.3	66.1
	7	65.6	65.7	65.9	66.1	66.3	66.5	66.4	66.3	66.0	65.7	65.6	65.2	65.0
	8	64.9	65.2	65.5	65.7	65.9	66.2	66.6	66.5	66.4	66.1	66.0	65.8	65.6
	9	64.9	65.3	65.6	65.9	66.0	66.2	66.3	66.2	66.2	66.1	65.9	65.9	65.8
	10	66.0	66.4	66.5	66.7	66.9	67.2	67.3	67.2	67.0	66.7	66.6	66.5	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	66.4
	12	66.1	66.7	67.2	67.6	67.9	68.1	68.1	67.8	67.6	67.2	66.7	66.5	66.1
	13	67.4	67.8	68.4	68.9	69.3	69.5	69.7	69.6	69.3	69.0	68.7	68.6	68.5
	14	70.0	70.5	71.0	71.7	71.9	72.0	72.4	72.3	71.7	71.5	70.8	70.6	70.2
	15	70.7	71.3	71.8	72.4	72.6	72.7	72.7	72.5	72.2	71.7	71.6	71.4	71.7
	16	71.7	72.4	72.7	73.0	73.1	73.5	73.4	73.1	72.7	72.4	72.0	71.7	71.5
	17	72.0	72.7	73.4	73.7	73.9	74.0	74.0	73.7	73.5	73.3	72.9	72.7	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	72.5
	19	69.7	69.9	70.2	70.4	70.4	70.4	70.0	69.7	69.6	69.2	68.9	68.7	68.7
	20	67.8	68.0	67.9	67.9	68.0	67.8	67.9	67.7	67.7	67.6	67.5	67.4	67.4
	21	67.3	67.7	68.0	68.6	69.0	69.5	69.7	69.7	69.7	69.5	69.3	69.4	69.4
	22	70.2	70.7	70.9	71.4	71.7	71.9	72.0	72.2	72.5	72.7	72.6	72.4	71.9
	23	69.5	69.7	69.8	69.9	70.0	70.0	69.9	69.7	69.4	69.1	68.8	68.5	68.1
	24	69.0	69.6	70.0	70.6	70.8	71.1	71.1	71.2	70.9	70.6	70.1	70.0	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	71.1
	26	71.0	71.2	71.5	71.5	71.5	71.2	70.7	70.2	69.8	69.0	68.7	68.3	67.9
	27	67.6	67.8	68.1	68.6	68.7	68.9	68.9	68.8	68.7	68.5	68.3	68.0	67.8
	28	69.5	70.3	70.8	71.7	71.9	72.2	72.2	72.0	71.7	71.3	70.9	70.6	70.4
	29	69.9	70.2	70.3	70.5	70.7	70.7	70.7	70.6	70.3	69.9	69.7	69.3	69.0
	30	70.7	71.6	72.5	73.1	73.7	74.0	74.2	74.3	74.1	74.0	73.7	73.5	73.0
Hourly Means	68.61	69.05	69.38	69.76	69.94	70.10	70.12	69.98	69.77	69.48	69.22	68.99	68.83	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JANUARY.	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	50.4	50.6	51.2	51.6	53.4	55.5	55.9	55.4	53.4	51.0	49.2	50.94
	2	48.5	49.5	49.9	50.6	51.1	51.9	52.6	53.2	52.2	50.4	49.4	49.58
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	46.9	47.3	47.3	47.7	48.6	49.1	49.4	49.5	49.8	48.7	49.0	48.17
	5	48.4	49.3	50.4	50.5	51.7	52.1	52.2	53.2	50.4	47.2	46.0	48.90
	6	50.6	49.7	50.1	49.8	52.3	53.1	52.1	51.1	50.4	51.5	47.9	49.68
	7	49.3	50.2	50.2	50.6	52.4	53.8	52.6	50.6	48.4	47.4	48.4	49.74
	8	49.4	49.1	50.0	50.3	51.9	54.1	55.2	55.5	55.4	53.8	52.6	50.75
	9	50.4	50.0	50.3	50.4	51.7	52.2	52.6	52.0	51.5	51.4	52.3	50.49
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	50.9	51.5	51.9	52.4	54.4	55.0	54.9	56.4	56.6	51.8	52.0	51.85
	12	48.4	48.5	48.8	49.1	50.0	51.3	51.2	51.4	51.3	50.8	50.7	48.50
	13	50.3	53.6	48.5	49.5	50.8	50.6	51.9	50.5	48.4	46.0	47.0	49.81
	14	46.7	46.9	47.0	47.4	47.6	48.2	49.9	49.3	46.6	43.0	42.6	45.68
	15	48.3	48.6	52.6	50.3	51.6	51.2	51.4	52.1	48.2	45.2	44.1	47.82
	16	45.8	45.6	46.0	48.2	50.8	52.2	52.2	51.2	47.5	44.2	42.7	46.50
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	43.1	43.4	45.2	45.3	47.6	49.4	50.4	50.2	48.0	45.7	42.6	44.58
	19	46.6	46.8	47.8	48.4	48.8	49.3	49.3	48.6	48.1	47.4	45.4	46.48
	20	48.4	48.4	48.2	49.7	50.0	51.4	51.2	49.7	48.9	49.0	47.6	48.23
	21	46.6	46.9	47.1	47.4	48.1	50.0	50.4	50.9	49.9	47.4	45.5	47.49
	22	47.2	47.3	45.2	45.6	46.4	47.7	48.6	49.3	48.2	46.7	45.1	46.73
	23	47.6	50.6	48.8	46.7	45.6	48.7	47.3	47.6	46.6	46.7	45.4	47.37
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	43.4	43.4	43.4	43.5	45.0	46.6	48.6	48.4	47.2	46.6	46.2	43.91
	26	45.1	45.8	45.9	46.7	48.0	49.4	49.4	48.1	47.2	47.4	47.5	45.29
	27	48.2	48.8	48.6	48.7	49.7	51.9	51.7	49.2	49.5	48.7	47.2	47.80
	28	47.3	47.4	47.4	47.2	48.6	50.2	50.2	48.2	51.1	45.7	45.9	46.15
	29	46.0	46.4	47.6	45.9	47.8	48.3	48.1	44.4	42.5	41.6	40.6	45.00
30	43.4	44.7	45.5	45.4	46.5	47.1	47.4	46.6	42.9	39.5	39.5	43.67	
Hourly Means	47.58	48.09	48.27	48.42	49.63	50.78	51.03	50.48	49.24	47.48	46.63	47.53	

TEMPERATURE OF THE MAGNET.

JANUARY.	1	66.4	66.0	66.0	65.9	65.7	65.5	65.5	65.6	65.9	66.4	67.0	66.62
	2	68.7	68.5	68.4	68.2	68.1	68.0	68.0	68.4	68.6	69.1	69.6	69.15
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	70.7	70.6	70.4	70.1	70.0	69.9	69.7	69.7	69.7	70.0	70.4	70.39
	5	69.7	69.5	69.2	68.8	68.7	68.6	68.3	68.1	68.1	67.9	67.9	69.98
	6	65.9	65.9	65.7	65.7	65.6	65.4	65.2	65.2	65.2	65.3	65.4	66.47
	7	64.7	64.7	64.6	64.5	64.4	64.0	64.0	64.0	64.2	64.2	64.6	65.18
	8	65.4	64.9	64.4	64.3	64.1	64.1	64.2	64.2	64.5	64.5	64.7	65.24
	9	65.8	65.8	65.8	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.81
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	66.0	65.7	65.4	65.2	64.8	64.7	64.7	64.7	64.9	65.3	65.7	66.02
	12	65.9	65.8	65.8	65.7	65.6	65.7	65.7	65.7	66.1	66.5	66.8	66.62
	13	68.5	68.5	68.4	68.4	68.4	68.1	68.0	68.1	68.6	68.9	69.4	68.67
	14	70.0	69.7	69.6	69.3	69.2	69.0	68.9	69.0	69.5	69.7	70.3	70.45
	15	70.8	70.7	70.6	70.4	70.0	69.9	70.0	70.0	70.3	70.7	71.3	71.23
	16	71.2	70.9	70.8	70.7	70.3	70.0	70.0	70.1	70.6	70.8	71.4	71.67
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	72.2	71.8	71.4	71.1	70.7	70.3	70.0	69.7	69.7	69.7	69.7	72.03
	19	68.5	68.1	67.7	67.6	67.5	67.3	67.2	67.3	67.5	67.6	67.7	68.74
	20	67.2	67.1	67.2	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.45
	21	69.5	69.5	69.6	69.6	69.7	69.4	69.1	69.1	69.3	69.6	70.0	69.22
	22	71.6	71.4	70.9	70.7	70.3	69.8	69.8	69.7	69.7	69.5	69.5	71.08
	23	68.0	67.9	67.9	67.8	68.0	67.7	67.7	67.7	67.9	68.0	68.6	68.73
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	71.0	70.7	70.7	70.5	70.3	69.9	69.8	69.8	69.9	70.2	70.7	70.40
	26	67.8	67.4	67.0	66.7	66.6	66.5	66.5	66.5	66.5	66.7	67.1	68.66
	27	67.7	67.5	67.5	67.2	67.0	66.9	66.9	67.1	67.4	68.1	68.7	67.95
	28	70.2	70.0	69.8	69.5	69.1	69.0	69.0	69.0	69.2	69.5	69.7	70.40
	29	68.7	68.7	68.5	68.4	68.4	68.5	68.6	68.7	68.9	69.5	70.0	69.53
	30	72.7	72.5	72.4	72.1	71.7	71.5	71.4	71.4	71.8	72.5	73.2	72.73
Hourly Means	68.65	68.45	68.30	68.12	67.96	67.79	67.73	67.75	67.95	68.19	68.55	68.86	

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.														
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 .	12 ^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.	
January 31	41.3	42.2	41.2	41.2	41.3	41.6	40.6	40.9	40.6	40.9	40.6	41.1	—	
FEBRUARY.	1	—	—	—	—	—	—	—	—	—	—	—	41.9	
	2	42.4	41.4	40.7	39.8	40.9	41.0	40.6	40.2	41.0	41.4	42.3	44.0	
	3	45.4	45.6	44.8	43.8	42.8	44.4	44.4	43.6	43.6	43.4	43.3	43.5	
	4	50.4	50.4	48.2	45.4	42.8	42.6	42.7	41.9	41.7	42.9	42.4	43.2	
	5	45.4	45.1	42.9	42.7	43.1	43.4	43.3	42.9	42.3	43.0	43.4	43.4	
	6	48.9	48.4	48.3	47.0	45.6	44.5	44.1	43.2	43.4	43.6	43.7	44.4	
	7	44.9	45.2	44.1	44.0	41.0	39.4	38.6	38.8	40.2	40.7	41.9	41.7	
	8	—	—	—	—	—	—	—	—	—	—	—	—	47.9
	9	37.6	38.4	38.7	29.6	35.3	36.3	36.2	36.2	36.1	36.6	36.3	37.4	37.6
	10	36.7	37.1	43.4	44.4	44.1	43.0	40.4	39.4	41.1	41.4	41.5	42.0	42.1
	11	35.3	36.7	40.2	42.0	41.4	41.5	41.1	41.6	41.4	42.7	42.6	43.3	43.5
	12	40.4	39.4	40.0	40.7	41.3	41.4	41.4	41.5	41.7	42.2	43.7	42.9	42.2
	13	41.3	41.3	41.9	42.6	42.4	42.2	42.1	41.8	41.7	41.9	41.2	40.9	41.2
	14	40.6	39.7	39.4	40.2	41.4	41.8	42.7	42.6	44.4	44.6	42.0	44.3	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	43.2
	16	39.0	39.0	40.5	41.6	41.9	41.5	40.3	39.6	42.9	41.4	40.2	42.1	42.1
	17	42.5	41.3	39.6	41.3	41.2	40.6	40.7	41.4	40.2	44.8	42.2	40.7	41.5
	18	43.9	45.1	44.8	43.2	43.3	42.8	43.4	41.3	39.7	40.4	43.4	42.1	43.1
	19	41.5	41.6	42.8	43.1	43.3	43.2	43.0	42.8	42.4	42.8	43.4	43.4	43.9
	20	45.4	44.1	43.6	43.6	43.2	43.2	43.5	43.0	42.9	42.9	43.5	43.7	42.6
	21	39.7	39.3	40.3	41.3	40.3	38.9	38.2	40.4	39.4	40.0	41.2	41.4	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	43.7
	23	41.3	41.6	41.6	41.4	41.6	41.8	41.9	42.0	42.2	42.6	42.7	43.4	43.2
	24	43.1	43.9	43.4	43.4	43.6	43.3	43.2	42.8	42.8	42.9	42.9	43.1	43.3
	25	44.3	44.6	44.6	44.3	44.4	43.0	39.6	37.8	38.0	37.5	34.4	35.6	36.8
	26	42.5	41.3	41.2	39.4	37.5	38.6	37.2	34.4	35.0	37.7	38.3	38.4	39.3
	27	41.6	39.4	38.6	38.6	39.4	39.4	40.4	40.4	40.4	39.4	39.7	40.0	40.2
Hourly Means	42.31	42.17	42.28	41.86	41.79	41.64	41.23	40.85	41.05	41.57	41.53	41.92	42.39	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
January 31	73.7	74.6	74.9	75.7	75.9	76.2	76.5	76.5	76.2	76.0	75.7	75.4	—	
FEBRUARY.	1	—	—	—	—	—	—	—	—	—	—	—	74.4	
	2	73.0	73.3	73.4	73.5	73.5	73.4	73.6	73.2	72.8	72.5	72.0	71.7	
	3	70.8	71.1	71.4	71.6	71.7	71.7	71.7	71.7	71.4	71.1	71.1	70.8	
	4	71.4	71.9	72.4	72.7	73.0	73.4	73.4	73.1	72.9	72.7	72.4	72.0	
	5	72.2	72.4	72.7	72.7	72.7	72.7	72.6	72.3	71.8	71.5	70.9	70.8	
	6	70.7	71.0	71.7	72.0	72.4	72.6	72.5	72.5	72.0	71.7	71.7	71.3	
	7	71.8	72.5	73.0	73.5	73.8	74.1	74.1	74.1	73.9	73.7	73.4	73.1	
	8	—	—	—	—	—	—	—	—	—	—	—	—	72.9
	9	73.1	73.6	73.8	74.2	74.7	74.7	74.7	74.9	75.0	74.7	74.6	74.1	
	10	72.0	72.1	72.2	72.4	72.7	72.7	72.7	72.6	72.3	71.9	71.7	71.3	
	11	71.7	71.9	72.4	72.5	72.4	72.4	72.2	71.8	71.5	71.2	70.8	70.7	
	12	70.5	71.0	71.6	71.9	72.6	72.7	73.1	73.2	72.9	72.7	72.4	72.2	
	13	72.1	72.6	72.9	73.5	73.7	73.9	73.9	73.9	73.7	73.4	73.2	72.8	
	14	71.6	72.0	72.4	72.7	72.8	73.0	73.1	73.1	73.2	73.2	73.3	73.1	
	15	—	—	—	—	—	—	—	—	—	—	—	—	72.6
	16	71.4	71.6	71.7	71.7	71.7	71.6	71.6	71.5	71.3	71.0	70.7	70.7	
	17	69.9	70.3	70.7	70.7	70.9	70.9	70.7	70.5	70.1	69.8	69.7	69.3	
	18	68.3	68.6	68.7	68.9	68.9	69.0	69.0	68.8	68.5	68.4	67.8	67.4	
	19	67.7	68.3	69.2	69.8	70.6	70.7	71.0	71.0	70.8	70.5	70.1	70.0	
	20	70.4	71.1	71.5	71.9	72.1	72.3	72.3	72.1	71.9	71.7	71.6	71.5	
	21	70.9	71.7	72.2	72.6	72.7	73.1	72.9	72.7	72.4	72.1	71.7	71.5	
	22	—	—	—	—	—	—	—	—	—	—	—	—	70.7
	23	70.4	70.7	70.9	71.5	71.7	71.6	71.4	71.1	70.7	70.5	70.1	70.0	
	24	68.7	68.8	69.1	69.4	69.5	69.6	69.6	69.7	69.6	69.3	69.0	68.7	
	25	67.7	68.3	68.7	69.0	69.2	69.2	69.1	68.9	68.7	68.5	68.2	68.1	
	26	68.7	69.2	69.5	69.9	70.1	70.3	70.2	70.1	70.1	70.0	69.8	69.6	
	27	68.6	68.9	69.3	69.7	70.0	70.2	70.4	70.4	70.2	69.9	69.5	69.5	
Hourly Means	70.72	71.15	71.51	71.83	72.05	72.17	72.18	72.07	71.83	71.58	71.31	71.07	70.78	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
January 31	—	—	—	—	—	—	—	—	—	—	—	42·21
1	42·1	42·2	42·1	42·6	43·3	44·4	45·6	45·5	44·0	42·9	43·0	42·66
2	42·7	43·4	43·1	43·6	43·8	44·4	45·3	45·5	44·4	43·4	46·1	45·09
3	44·5	44·5	46·2	45·0	44·8	45·5	46·7	47·3	46·2	48·3	50·1	44·11
4	43·4	43·8	43·6	43·8	43·8	43·9	43·6	43·0	42·5	43·9	45·4	44·31
5	43·8	43·8	44·3	44·3	43·3	44·8	46·1	47·1	46·9	46·4	48·2	45·56
6	44·1	45·4	47·2	46·4	46·6	47·1	46·6	44·9	45·6	45·5	44·6	43·90
7	—	—	—	—	—	—	—	—	—	—	—	38·17
8	47·4	47·9	50·6	49·4	48·5	49·1	49·0	47·7	43·6	34·4	37·5	41·76
9	40·4	40·0	44·4	40·1	40·1	41·6	42·3	42·2	39·6	37·2	35·9	43·24
10	42·0	42·0	42·9	43·3	43·3	43·5	44·3	43·4	42·2	40·5	38·2	42·34
11	43·6	44·6	45·4	45·7	45·4	46·6	48·4	48·4	47·0	45·7	43·6	42·69
12	41·9	42·4	42·5	42·7	43·0	43·0	43·8	44·8	46·4	44·4	42·5	42·84
13	43·9	42·9	44·2	43·7	43·6	44·5	45·4	45·4	44·3	42·8	41·4	41·80
14	—	—	—	—	—	—	—	—	—	—	—	42·82
15	42·2	42·8	43·6	43·9	43·7	44·9	44·9	46·0	43·7	44·0	41·5	43·63
16	41·0	42·2	42·2	42·0	42·1	42·9	44·1	44·3	43·7	43·6	43·0	42·84
17	42·9	42·6	42·6	43·2	43·5	44·4	45·6	46·6	47·4	46·4	44·4	43·00
18	43·7	43·7	43·9	44·0	44·2	45·0	46·2	46·4	46·3	44·3	43·0	43·75
19	43·6	43·4	43·2	43·2	43·4	44·3	44·6	45·3	46·5	47·3	46·4	41·15
20	41·7	41·4	42·0	42·2	42·6	43·1	43·1	43·0	42·4	41·6	39·8	40·15
21	—	—	—	—	—	—	—	—	—	—	—	40·11
22	43·6	43·5	43·8	43·7	43·6	43·6	45·4	45·9	44·7	43·3	41·4	42·66
23	43·4	43·4	43·5	43·8	43·6	44·3	44·7	45·2	45·2	44·4	43·3	42·66
24	43·1	43·5	44·6	44·8	44·0	44·3	45·1	45·2	44·9	44·6	44·1	42·66
25	37·9	42·4	41·4	41·7	42·4	44·2	42·4	42·4	41·9	43·4	42·6	40·15
26	38·5	41·5	43·0	41·9	41·3	42·1	42·6	42·6	43·8	43·0	42·6	40·15
27	40·3	40·7	41·4	41·4	40·7	40·6	42·1	42·1	40·3	38·2	37·4	40·11
Hourly Means	42·57	43·08	43·82	43·60	43·53	44·25	44·91	45·01	44·31	43·31	42·75	42·66

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
January 31	—	—	—	—	—	—	—	—	—	—	—	74·15
1	73·7	73·0	72·8	72·5	72·3	72·0	71·9	71·9	72·2	72·7	72·8	71·86
2	71·3	71·1	70·9	70·6	70·5	70·5	70·4	70·3	70·4	70·5	70·7	70·70
3	70·5	70·3	69·9	69·7	69·7	69·7	69·7	69·7	69·7	70·4	70·7	71·89
4	71·4	71·2	71·1	70·9	70·9	70·8	70·8	70·8	71·0	71·6	71·9	71·00
5	70·3	70·1	70·0	69·8	69·6	69·4	69·4	69·5	69·7	69·9	70·4	71·21
6	70·9	70·7	70·5	70·2	70·0	70·3	70·3	70·4	70·5	70·8	71·3	72·95
7	—	—	—	—	—	—	—	—	—	—	—	73·32
8	72·8	72·7	72·7	72·6	72·3	72·2	72·1	72·2	72·2	72·5	72·7	71·53
9	73·1	73·0	72·7	72·4	72·3	71·9	71·7	71·7	71·7	71·7	71·7	70·81
10	71·0	70·9	70·8	70·7	70·7	70·7	70·6	70·7	70·7	70·8	71·3	71·67
11	70·2	70·0	70·0	69·9	69·7	69·4	69·4	69·5	69·7	69·7	70·0	72·48
12	71·7	71·4	71·0	70·9	70·8	70·7	70·7	70·7	70·7	71·2	71·6	72·06
13	72·5	72·2	72·0	71·7	71·7	71·6	71·3	71·1	71·1	70·9	71·2	70·53
14	—	—	—	—	—	—	—	—	—	—	—	69·21
15	72·4	72·0	71·7	71·3	71·1	70·7	70·7	70·7	70·7	70·8	71·2	67·51
16	70·3	70·1	69·9	69·7	69·6	69·3	69·1	69·1	69·3	69·6	69·7	69·59
17	68·7	68·7	68·5	68·4	68·1	67·7	67·7	67·6	67·6	67·7	68·0	71·08
18	66·9	66·7	66·7	66·4	66·3	66·0	65·9	65·9	66·2	66·7	67·0	71·05
19	69·6	69·4	69·0	68·9	68·7	68·8	68·7	68·7	69·3	69·6	70·0	70·02
20	71·0	70·9	70·7	70·4	70·2	70·0	70·0	69·9	70·1	70·3	70·7	68·28
21	—	—	—	—	—	—	—	—	—	—	—	68·10
22	70·5	70·4	70·0	69·8	69·7	69·7	69·6	69·4	69·4	69·7	69·9	69·15
23	69·7	69·7	69·6	69·5	69·3	68·7	68·7	68·7	68·7	68·7	68·7	69·33
24	68·2	67·9	67·7	67·3	66·9	66·9	66·7	66·7	66·7	66·9	67·4	68·28
25	67·7	67·7	67·7	67·5	67·5	67·2	67·2	67·1	67·3	67·7	68·3	68·10
26	69·1	69·0	68·7	68·7	68·4	68·4	68·2	67·9	68·0	68·0	68·2	69·15
27	69·5	69·3	69·1	69·1	69·1	68·9	68·9	68·7	68·6	68·4	68·3	69·33
Hourly Means	70·54	70·35	70·15	69·95	69·81	69·65	69·57	69·54	69·65	69·87	70·15	70·81

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.													
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 .	12 ^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.
Feb. 28	37.1	37.2	37.7	39.1	40.7	40.5	41.1	41.5	42.1	41.7	41.4	41.4	—
1	—	—	—	—	—	—	—	—	—	—	—	—	41.3
2	41.3	40.6	41.6	42.0	41.4	42.6	43.2	43.0	43.2	43.2	43.8	43.4	43.4
3	43.8	43.2	42.4	42.4	43.1	40.9	43.2	43.6	43.5	43.6	44.3	44.2	44.6
4	43.5	43.4	43.7	43.3	42.3	39.6	41.4	41.3	41.5	41.6	43.3	43.2	43.1
5	42.4	40.9	40.5	38.5	40.3	40.8	41.2	41.1	41.2	41.4	41.4	41.6	41.9
6	41.6	41.3	41.0	41.4	41.6	41.9	42.2	41.4	40.6	40.6	40.9	41.4	42.0
7	40.1	40.5	40.6	40.6	40.4	41.2	41.3	40.6	40.4	40.2	39.7	40.1	—
8	—	—	—	—	—	—	—	—	—	—	—	—	41.0
9	40.6	40.5	40.4	40.6	40.8	40.0	39.8	39.9	40.8	41.4	41.8	42.2	42.9
10	42.9	44.0	44.5	44.4	43.4	42.2	41.4	41.4	42.4	42.4	42.6	43.3	43.9
11	44.2	44.9	44.8	45.1	44.2	42.4	41.6	41.0	40.5	40.6	41.3	43.2	43.4
12	40.6	38.8	39.7	39.3	40.4	40.5	39.2	38.8	39.6	40.2	40.4	40.3	40.6
13	46.2	41.0	35.3	31.4	29.4	26.7	24.4	29.3	30.2	32.3	31.9	32.7	33.1
14	35.7	32.8	32.3	30.6	32.6	31.7	32.0	33.4	34.8	34.8	39.2	41.9	—
15	—	—	—	—	—	—	—	—	—	—	—	—	38.0
16	40.6	39.8	39.9	38.4	38.0	38.2	37.2	37.6	34.8	34.2	38.4	34.3	40.4
17	35.4	30.4	29.5	31.3	35.4	35.3	35.8	35.9	35.5	36.4	41.0	38.4	39.0
18	34.9	37.8	35.9	37.9	37.9	38.4	38.0	37.6	37.8	38.4	41.5	39.4	40.7
19	37.3	37.6	39.4	38.3	39.4	38.6	37.6	37.4	37.7	38.0	39.5	39.4	39.5
20	38.4	38.2	39.2	40.2	40.3	39.6	38.7	38.0	38.0	39.1	39.7	40.0	40.1
21	36.4	36.5	35.9	35.4	34.6	34.9	34.9	34.1	33.6	32.6	33.4	34.5	—
22	—	—	—	—	—	—	—	—	—	—	—	—	37.7
23	40.6	40.2	39.9	39.7	39.4	39.1	39.3	37.7	37.3	37.7	38.7	39.2	39.4
24	42.5	41.4	41.3	40.4	39.4	39.4	37.4	36.0	36.9	38.1	38.5	39.4	39.4
25	41.2	41.0	41.2	41.3	41.6	41.4	40.6	40.6	40.4	41.0	41.2	41.4	41.5
26	38.9	40.3	41.8	37.9	38.8	38.7	38.2	36.8	37.8	36.5	37.0	38.7	38.5
27	40.4	39.6	40.2	40.2	37.0	37.7	37.7	36.2	37.6	37.7	38.3	37.9	40.3
28	37.4	37.8	38.0	38.6	37.5	37.4	36.7	37.5	37.3	36.7	37.4	37.8	—
29	—	—	—	—	—	—	—	—	—	—	—	—	37.4
30	37.7	38.4	39.4	39.6	38.5	37.0	37.0	36.9	35.9	37.1	37.1	37.6	37.9
31	37.0	38.0	38.2	38.6	39.4	39.3	38.9	39.1	39.2	39.6	39.1	38.4	40.8
Hourly Means	39.95	39.49	39.42	39.13	39.18	38.74	38.52	38.43	38.54	38.78	39.73	39.81	40.44
TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	°
Feb. 28	68.4	68.5	68.6	68.6	68.3	68.4	68.2	68.4	68.3	68.0	67.9	67.9	—
1	—	—	—	—	—	—	—	—	—	—	—	—	65.9
2	65.3	65.5	65.7	65.8	65.9	65.9	65.7	65.7	65.7	65.7	65.3	65.2	64.9
3	64.7	65.2	65.2	65.7	65.8	66.0	65.9	65.8	65.7	65.5	65.5	65.2	65.1
4	66.1	66.7	67.7	68.0	68.7	68.7	68.7	68.7	68.5	68.4	68.4	68.2	68.1
5	68.7	69.7	70.3	70.7	71.2	71.5	71.3	71.2	70.8	70.7	70.5	70.3	70.1
6	70.0	70.5	70.7	70.7	70.9	70.9	70.8	70.7	70.5	70.4	70.0	69.9	69.7
7	69.4	70.0	70.7	71.2	71.7	71.8	72.1	72.0	71.8	71.6	71.3	71.0	—
8	—	—	—	—	—	—	—	—	—	—	—	—	71.0
9	69.5	69.7	69.7	69.8	69.9	69.9	69.7	69.3	69.1	68.7	68.3	67.8	67.7
10	66.0	66.5	67.0	67.4	67.7	67.9	67.8	67.7	67.5	67.0	67.0	66.8	66.6
11	66.6	67.1	67.7	68.0	68.5	68.6	68.7	68.7	68.5	68.5	68.1	67.9	67.7
12	68.4	68.8	69.5	69.8	70.3	70.5	70.4	70.3	70.0	69.9	69.7	69.6	69.1
13	68.2	68.5	68.9	68.9	69.4	69.7	69.8	70.0	69.9	69.6	69.2	68.9	68.4
14	67.7	67.8	68.4	68.5	68.4	68.4	68.1	68.2	68.0	67.7	67.6	67.4	—
15	—	—	—	—	—	—	—	—	—	—	—	—	67.7
16	66.8	66.9	66.9	66.9	67.0	67.0	66.9	66.9	66.7	66.7	66.6	66.5	66.4
17	65.7	66.2	66.8	67.5	67.7	67.7	67.7	67.4	67.0	66.7	66.1	65.8	65.7
18	65.0	65.6	66.0	66.3	66.7	66.7	66.7	66.7	66.7	66.4	66.1	66.0	66.3
19	66.9	67.3	67.7	68.3	68.3	68.6	68.5	68.5	68.1	67.8	67.9	67.4	67.0
20	67.2	67.9	68.7	69.0	69.5	69.7	69.7	69.6	69.5	69.4	69.5	69.4	69.5
21	70.7	71.6	71.9	72.7	73.0	73.7	73.7	73.7	73.5	73.3	73.4	72.9	—
22	—	—	—	—	—	—	—	—	—	—	—	—	70.6
23	67.7	67.9	68.4	68.7	69.0	69.2	69.5	69.4	68.9	68.6	68.1	67.7	67.2
24	66.1	66.7	67.0	67.7	67.9	68.5	68.7	68.7	68.7	68.7	68.5	68.4	68.0
25	67.6	68.0	68.6	68.7	69.1	69.5	69.2	69.2	69.0	68.8	68.7	68.7	68.5
26	68.4	68.6	68.7	69.0	69.1	69.2	69.2	69.2	69.0	68.7	68.7	68.4	67.9
27	66.7	67.4	67.7	68.4	68.7	69.0	69.0	69.0	69.0	68.8	68.9	68.8	68.7
28	68.9	69.4	70.0	70.4	70.7	71.1	71.5	71.4	71.3	70.9	70.7	70.5	—
29	—	—	—	—	—	—	—	—	—	—	—	—	70.1
30	69.1	69.4	69.7	69.9	69.8	69.7	69.5	69.4	69.2	68.9	68.8	68.7	68.7
31	67.7	67.8	68.1	68.3	68.4	68.4	68.1	68.0	67.8	67.7	67.4	67.1	66.8
Hourly Means	67.54	67.97	68.38	68.70	68.95	69.12	69.08	69.03	68.84	68.63	68.45	68.24	67.90

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
Feb. 28	—	—	—	—	—	—	—	—	—	—	—	—
1	42.3	42.4	42.9	43.6	44.3	45.1	46.0	46.7	45.4	44.4	43.4	42.05
2	44.1	44.7	45.0	45.2	45.4	46.5	48.3	49.4	49.5	45.3	45.0	44.34
3	44.9	44.8	44.6	45.2	46.2	45.8	47.1	47.8	47.4	45.6	44.5	44.45
4	43.3	43.4	43.4	43.5	43.4	43.7	45.1	46.0	46.1	44.8	43.1	43.21
5	42.1	42.2	42.2	42.0	42.2	42.6	44.4	45.5	43.9	42.1	41.2	41.82
6	42.5	42.4	42.4	43.1	43.2	43.2	44.6	45.8	45.7	44.1	42.4	42.39
7	—	—	—	—	—	—	—	—	—	—	—	—
8	40.9	40.7	41.0	41.0	41.6	42.3	43.1	43.6	42.4	41.2	40.5	41.04
9	43.2	43.8	44.1	44.1	44.2	45.1	46.3	47.3	45.5	43.4	41.6	42.51
10	44.4	44.4	43.9	43.9	44.4	45.2	46.2	47.4	46.6	45.4	44.8	43.98
11	43.8	44.4	42.8	43.2	43.4	45.4	44.9	47.0	45.9	44.3	41.1	43.48
12	41.3	40.3	41.5	42.3	42.4	44.0	44.8	45.0	45.6	45.4	46.5	41.56
13	35.4	36.4	38.5	40.2	38.5	40.2	40.5	41.4	40.3	37.6	36.2	35.38
14	—	—	—	—	—	—	—	—	—	—	—	—
15	38.1	38.0	38.6	38.3	38.9	38.9	40.4	41.6	40.9	39.8	39.5	36.78
16	42.5	38.3	38.5	38.7	39.1	40.6	42.4	43.5	41.4	40.2	39.0	39.00
17	40.8	41.4	40.9	41.6	40.1	42.3	41.4	40.5	40.6	40.7	38.1	37.82
18	42.6	39.6	39.5	40.2	40.3	41.2	42.4	43.0	41.7	40.1	38.3	39.38
19	39.5	39.6	39.5	39.7	39.9	40.7	42.4	43.6	43.2	41.4	40.0	39.55
20	39.5	39.2	39.4	39.0	39.4	40.7	41.9	41.4	39.9	37.5	36.4	39.33
21	—	—	—	—	—	—	—	—	—	—	—	—
22	37.9	38.3	38.0	37.8	37.7	38.5	39.4	40.6	40.4	40.1	40.4	36.82
23	39.7	40.0	40.4	40.8	40.8	41.4	43.3	43.6	44.1	42.6	42.9	40.33
24	40.2	40.1	40.4	40.4	40.4	41.5	42.6	43.4	41.5	41.1	40.8	40.10
25	42.1	42.8	42.2	42.7	42.8	43.6	43.4	43.3	42.6	42.4	43.3	41.90
26	39.0	39.1	39.2	38.6	38.8	39.8	40.6	40.4	40.4	41.3	40.6	39.07
27	39.3	39.3	39.4	39.2	38.9	39.6	40.4	40.2	40.5	38.9	36.4	38.87
28	—	—	—	—	—	—	—	—	—	—	—	—
29	37.4	37.8	39.2	38.4	38.0	39.1	39.8	39.8	38.6	37.4	36.4	37.89
30	38.0	38.5	38.8	38.9	39.3	39.9	41.0	40.4	38.7	38.1	37.5	38.30
31	39.1	39.2	40.4	40.3	40.6	41.5	42.9	42.5	42.0	41.6	41.3	39.88
Hourly Means	40.89	40.78	40.99	41.18	41.27	42.16	43.17	43.73	42.99	41.84	40.79	40.41

TEMPERATURE OF THE MAGNET.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
Feb. 28	—	—	—	—	—	—	—	—	—	—	—	—
1	65.7	65.6	65.5	65.3	65.1	64.8	64.7	64.7	64.7	64.9	65.0	66.73
2	64.7	64.7	64.7	64.6	64.4	64.5	63.7	63.7	63.9	64.3	64.6	65.00
3	65.1	65.0	64.9	64.7	64.7	64.7	64.7	64.7	64.7	65.2	65.6	65.22
4	67.9	67.9	67.7	67.7	67.4	67.0	67.2	67.0	67.5	67.7	68.4	67.85
5	70.0	69.8	69.7	69.7	69.7	69.7	69.6	69.6	69.7	69.7	69.8	70.17
6	69.4	69.1	69.0	68.7	68.5	68.0	67.9	67.7	68.1	68.4	68.8	69.55
7	—	—	—	—	—	—	—	—	—	—	—	—
8	70.8	70.6	70.3	70.0	69.7	69.6	69.1	69.0	68.8	69.0	69.3	70.49
9	67.5	67.4	66.9	66.5	66.1	66.0	65.7	65.7	65.6	65.7	65.7	67.83
10	66.5	66.4	66.0	65.8	65.7	65.7	65.5	65.5	65.7	65.8	66.2	66.57
11	67.7	67.7	67.4	67.4	67.3	67.2	67.2	67.1	67.3	67.6	67.8	67.76
12	68.8	68.7	68.6	68.4	68.0	67.7	67.7	67.6	67.5	67.6	67.9	68.95
13	68.2	67.7	67.7	67.2	67.1	66.9	66.9	66.9	66.9	67.0	67.3	68.30
14	—	—	—	—	—	—	—	—	—	—	—	—
15	67.7	67.5	67.2	66.9	66.8	66.7	66.7	66.7	66.7	66.7	66.7	67.51
16	66.2	66.0	65.8	65.5	65.2	65.0	64.9	64.9	64.9	65.0	65.5	66.13
17	65.3	65.2	64.9	64.9	64.7	64.7	64.4	64.4	64.5	64.6	64.7	65.85
18	66.1	66.3	66.6	66.6	66.6	66.3	66.1	66.1	66.1	66.3	66.5	66.29
19	66.7	66.6	66.5	66.3	66.1	66.2	66.2	66.2	66.3	66.5	66.7	67.19
20	69.5	69.2	69.0	68.9	68.8	68.9	68.9	68.9	69.2	69.7	70.4	69.17
21	—	—	—	—	—	—	—	—	—	—	—	—
22	70.3	69.9	69.7	69.2	68.9	68.5	67.9	67.7	67.7	67.7	67.7	70.83
23	66.8	66.5	65.9	65.7	65.6	65.6	65.4	65.3	65.5	65.6	65.7	67.25
24	67.8	67.7	67.7	67.6	67.5	66.9	66.7	66.7	66.7	66.8	67.2	67.62
25	68.3	68.2	67.9	67.8	67.7	67.7	67.7	67.6	67.6	67.7	67.9	68.32
26	67.7	67.6	67.2	66.8	66.7	66.4	66.3	66.0	66.0	66.3	66.6	67.82
27	68.5	68.4	68.3	67.8	67.7	67.7	67.7	67.7	67.7	68.1	68.5	68.26
28	—	—	—	—	—	—	—	—	—	—	—	—
29	69.9	69.7	69.1	69.0	68.9	68.8	68.8	68.8	68.7	68.7	68.8	69.84
30	68.5	68.3	68.4	68.2	68.0	67.7	67.7	67.7	67.7	67.7	67.7	68.68
31	66.7	66.4	66.0	65.8	65.5	65.6	65.3	65.0	65.1	65.1	65.4	66.81
Hourly Means	67.71	67.56	67.36	67.15	66.98	66.83	66.70	66.63	66.70	66.87	67.13	67.85

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.														
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 .	12 ^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.	Sc. Div.	
	1	40.0	40.7	40.5	40.0	39.3	38.6	37.4	38.3	39.0	39.5	38.8	39.8	40.0
	2	41.4	41.4	39.3	38.7	40.7	41.4	41.6	41.7	41.1	41.7	42.3	42.7	42.4
	3	40.6	40.4	40.1	39.6	39.9	39.8	39.4	38.4	37.7	38.4	38.6	38.6	39.2
	4	40.7	42.4	43.4	42.4	41.2	39.6	36.7	35.6	36.9	37.8	37.5	38.1	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	38.9
	6	36.4	33.1	29.0	25.9	31.6	27.4	27.1	25.5	25.5	22.7	26.1	31.1	33.4
	7	35.5	35.2	32.9	33.7	33.6	33.2	31.9	32.0	31.9	32.5	32.4	33.6	36.4
	8	38.8	37.8	35.4	35.7	34.3	35.5	33.6	33.0	34.8	33.2	34.4	35.3	35.6
	9	34.4	34.5	34.6	35.4	35.7	34.9	34.3	34.3	33.7	34.3	35.5	36.2	— ^a
	10	—	—	—	—	—	—	—	—	—	—	—	—	34.4
	11	35.2	32.7	31.8	32.3	33.3	32.2	33.2	31.2	33.1	32.2	34.5	36.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	38.1
	13	39.1	40.1	38.8	36.4	37.2	35.8	31.5	29.4	32.4	32.3	39.6	36.3	37.4
	14	40.6	37.8	36.5	36.7	37.2	36.3	36.7	35.7	32.1	33.4	36.3	35.0	34.6
	15	40.9	37.9	38.2	37.9	35.8	36.4	36.5	35.3	33.6	36.9	33.6	32.3	33.6
	16	29.4	32.4	30.3	25.4	25.1	27.4	25.4	30.7	28.4	29.4	33.4	30.1	35.8
	17	38.5	36.5	34.7	31.2	34.4	35.2	30.8	33.6	34.3	33.0	36.6	33.4	34.6
	18	35.9	35.4	34.9	35.1	35.3	35.2	34.9	35.0	35.6	35.6	35.6	35.4	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	36.9
	20	35.5	35.4	35.7	36.0	35.4	37.1	35.9	34.8	34.6	34.1	34.2	34.6	34.2
	21	39.3	38.0	36.2	35.3	35.4	36.6	37.4	36.6	36.6	36.8	37.3	37.4	37.6
	22	43.9	39.7	39.1	38.0	37.4	36.4	36.2	34.4	33.9	33.5	36.0	36.7	37.3
	23	41.3	40.6	39.7	38.5	38.5	38.3	38.1	38.0	37.4	39.3	38.6	39.4	41.4
	24	38.3	39.5	39.2	37.7	38.0	38.2	38.2	38.9	38.1	38.7	39.0	39.4	39.4
	25	36.4	37.4	39.0	38.1	37.0	37.4	37.0	37.1	35.2	36.6	36.4	40.5	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	37.1
	27	34.6	35.4	35.4	32.2	32.6	34.9	34.8	35.2	35.2	35.4	35.3	36.3	36.5
	28	36.4	36.2	35.9	35.4	35.5	35.8	36.4	36.4	36.4	35.9	36.3	36.4	36.4
	29	36.8	37.3	38.1	38.4	37.9	36.8	36.8	37.1	37.2	37.0	36.9	37.4	37.0
	30	37.0	37.1	37.0	34.4	35.4	35.8	35.4	34.8	34.7	35.1	34.8	35.0	35.2
Hourly Means	37.88	37.40	36.63	35.62	35.91	35.85	35.09	34.92	34.78	35.01	36.00	36.30	36.94	
TEMPERATURE OF THE MAGNET.														
APRIL.	°	°	°	°	°	°	°	°	°	°	°	°	°	
	1	65.7	65.9	66.3	66.7	66.8	66.7	66.7	66.5	66.2	65.8	65.7	65.3	65.1
	2	64.5	64.7	64.9	65.4	65.6	65.7	65.8	65.9	65.4	65.3	65.4	65.3	65.2
	3	65.4	65.9	66.5	67.0	67.4	67.5	67.6	67.5	67.3	66.9	66.7	66.6	66.4
	4	65.7	65.9	66.4	66.9	67.3	67.5	67.6	67.5	67.4	67.1	66.8	66.7	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	66.5
	6	65.1	65.2	65.4	65.5	65.6	65.6	65.6	65.6	65.6	65.5	65.1	65.0	64.8
	7	63.6	63.7	63.7	63.9	63.9	63.8	63.7	63.4	63.2	62.9	62.7	62.7	62.5
	8	62.6	63.1	63.7	64.3	64.8	65.1	65.5	65.5	65.5	65.3	65.4	65.3	65.3
	9	65.7	66.7	67.5	68.0	68.7	69.0	69.6	69.5	69.2	68.9	68.5	68.1	— ^a
	10	—	—	—	—	—	—	—	—	—	—	—	—	68.8
	11	67.5	67.7	67.9	68.0	68.0	68.0	67.7	67.7	67.5	67.2	66.9	66.9	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	61.7
	13	60.3	60.7	60.9	61.5	61.7	61.7	61.7	61.7	61.6	61.5	61.1	60.8	60.8
	14	61.7	61.9	62.7	63.6	63.8	64.3	64.2	64.2	64.1	64.0	63.8	63.7	63.7
	15	63.7	64.2	64.9	65.7	65.9	66.1	66.1	65.9	65.8	65.7	65.5	65.1	64.8
	16	63.5	63.7	64.0	64.3	64.5	64.6	64.4	64.2	64.0	63.8	63.7	63.3	63.0
	17	62.6	63.0	63.2	63.7	63.7	64.1	64.2	64.1	64.1	63.9	63.9	63.7	63.7
	18	63.3	63.4	63.7	63.8	63.9	64.1	63.9	63.7	63.7	63.6	63.2	63.1	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	63.0
	20	63.0	63.0	63.5	63.7	63.9	64.2	64.2	64.0	64.0	63.7	63.8	63.7	63.5
	21	62.6	63.0	63.0	63.3	63.8	63.8	63.8	63.7	63.6	63.5	63.4	63.3	62.9
	22	61.7	61.8	62.3	62.7	63.0	63.2	63.6	63.6	63.5	63.5	63.0	63.2	63.4
	23	63.6	63.6	63.7	63.8	63.9	64.3	64.3	64.4	64.3	64.2	64.1	63.7	63.5
	24	62.1	62.5	62.5	62.7	63.0	63.1	63.2	63.2	62.7	62.6	62.5	61.7	61.3
	25	60.8	61.5	61.7	62.2	62.6	62.8	62.9	62.9	62.7	62.7	62.6	62.5	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	62.7
	27	63.7	64.0	64.3	64.5	64.7	64.7	64.7	64.5	64.4	64.2	64.4	64.3	64.1
	28	62.8	63.0	63.7	63.8	64.0	64.1	64.0	64.0	63.8	63.7	63.5	63.3	63.2
	29	63.0	63.6	63.7	64.3	64.8	64.8	65.1	65.2	65.2	65.1	65.0	64.8	64.9
	30	65.0	65.5	66.0	66.7	66.9	67.2	67.6	67.4	67.0	66.7	66.3	65.9	65.7
Hourly Means	63.57	63.89	64.24	64.64	64.89	65.04	65.11	65.03	64.87	64.69	64.52	64.32	64.02	

^a Good Friday.

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
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	40.3	40.7	41.3	41.5	41.6	43.0	44.4	45.0	43.1	41.3	40.5	40.61
	2	42.4	42.7	43.5	44.3	43.7	45.0	46.6	45.4	45.1	42.9	40.2	42.43
	3	39.6	40.0	40.6	40.8	41.0	42.3	44.3	44.4	43.3	42.4	40.8	40.43
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	38.2	39.6	41.3	40.4	40.5	39.2	41.1	41.4	40.4	41.4	40.4	39.80
	6	33.4	33.9	35.2	34.2	34.4	32.4	35.9	36.4	36.2	33.2	36.4	31.52
	7	36.8	37.6	36.7	37.4	36.8	37.8	37.7	39.2	38.2	37.8	38.4	35.38
	8	35.5	36.2	36.4	37.5	37.4	37.0	38.4	38.9	38.3	37.1	35.0	36.05
	9 ^a	—	—	—	—	—	—	—	—	—	—	—	—
	10	32.3	34.4	37.2	36.0	34.4	35.4	38.2	37.1	35.6	36.7	36.6	35.25
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	40.8	40.7	41.6	39.5	40.2	41.4	41.6	41.6	41.9	41.9	42.1	37.07
	13	37.8	38.7	41.1	41.6	40.7	40.4	42.7	41.7	40.8	42.1	42.1	38.17
	14	36.6	36.9	37.2	38.2	39.4	40.3	40.1	41.1	40.5	39.9	41.4	37.52
	15	37.8	37.4	36.9	37.5	37.9	39.1	37.3	39.0	36.4	36.1	32.2	36.52
	16	35.8	37.8	36.5	35.1	34.1	35.0	35.7	34.1	33.7	36.0	37.6	32.28
	17	35.2	35.7	35.5	35.6	36.4	36.8	39.4	39.7	39.4	36.4	36.7	35.57
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	37.1	36.1	37.8	36.9	35.8	36.9	37.4	38.3	36.9	36.8	36.2	36.13
	20	34.4	35.9	36.6	37.6	38.0	38.4	39.5	39.4	39.9	40.4	40.1	36.57
	21	37.6	37.8	37.7	38.5	37.9	38.1	41.4	41.9	41.8	41.6	40.9	38.15
	22	35.8	36.7	35.8	36.1	36.2	37.2	39.1	39.9	40.2	39.7	41.2	37.52
	23	41.2	39.4	40.2	39.5	40.6	41.4	41.3	40.4	39.4	38.4	38.4	39.55
	24	39.4	39.2	40.1	40.1	41.3	39.5	40.4	39.4	38.1	36.7	35.5	38.85
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	37.1	37.6	39.6	37.6	37.3	38.4	40.6	41.4	40.1	38.4	36.1	37.89
	27	37.3	36.5	37.1	37.4	37.4	37.9	39.4	39.4	39.4	38.2	36.4	36.26
	28	36.8	37.6	38.4	37.5	37.7	38.1	39.3	40.1	39.3	38.2	37.2	37.07
	29	37.2	37.0	37.2	38.0	38.5	38.1	39.4	40.2	39.6	39.0	38.4	37.80
	30	36.4	36.4	36.9	37.2	37.4	37.5	38.5	37.9	37.9	37.3	38.3	36.39
Hourly Means	37.31	37.70	38.34	38.24	38.26	38.66	39.99	40.13	39.42	38.80	38.36	37.23	

TEMPERATURE OF THE MAGNET.

APRIL.	1	64.8	64.5	64.0	63.9	63.7	63.7	63.4	63.4	63.4	63.7	64.0	65.08
	2	65.1	65.0	64.7	64.4	64.4	64.2	64.1	63.9	64.0	64.5	64.9	64.93
	3	66.2	65.9	65.7	65.7	65.7	65.6	65.4	65.2	65.2	65.1	65.5	66.25
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	66.2	66.1	66.1	65.8	65.6	65.0	64.9	64.7	64.7	64.8	64.9	66.17
	6	64.7	64.4	63.9	63.8	63.6	63.7	63.5	63.1	63.0	63.4	63.5	64.59
	7	62.3	62.0	61.7	61.7	61.7	61.7	61.6	61.6	61.7	61.7	61.9	62.64
	8	65.1	64.9	64.7	64.3	64.1	63.8	63.8	63.7	63.8	64.3	64.9	64.53
	9 ^a	—	—	—	—	—	—	—	—	—	—	—	—
	10	68.5	68.3	67.9	68.0	67.9	67.7	67.6	67.3	67.3	67.2	67.4	68.05
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	61.1	60.7	60.7	60.6	60.5	60.1	59.9	59.9	59.9	59.7	60.0	63.99
	13	60.7	60.6	60.5	60.4	60.3	60.2	60.2	60.0	60.5	60.8	61.2	60.89
	14	63.6	63.5	63.2	63.0	62.7	62.7	62.7	62.5	62.6	62.7	63.0	63.25
	15	64.6	64.5	64.0	63.9	63.7	63.6	63.4	63.0	62.9	63.0	63.5	64.56
	16	62.7	62.6	62.6	62.3	62.2	62.0	61.9	61.9	62.0	62.1	62.4	63.15
	17	63.7	63.7	63.7	63.7	63.6	63.5	63.5	63.6	63.5	63.4	63.5	63.64
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	63.1	63.0	62.7	62.7	62.7	62.9	62.8	62.7	62.7	62.7	62.7	63.21
	20	63.3	63.1	62.7	62.7	62.5	62.1	61.8	61.8	61.8	62.1	62.4	63.10
	21	62.7	62.6	62.4	62.0	61.7	61.4	60.9	60.8	60.8	61.0	61.0	62.54
	22	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.7	63.30
	23	62.8	62.7	62.6	62.5	62.3	62.0	61.7	61.7	61.6	61.7	61.7	63.11
	24	61.2	60.7	60.7	60.3	60.0	60.1	59.9	59.9	59.9	59.9	60.5	61.51
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	62.5	62.3	62.3	62.3	62.2	62.2	62.3	62.4	62.4	62.9	63.4	62.41
	27	64.1	63.9	63.7	63.6	63.3	63.1	62.9	62.9	62.8	62.8	62.8	63.85
	28	63.1	62.8	62.8	62.7	62.5	62.5	62.4	62.3	62.3	62.4	62.7	63.14
	29	64.8	64.7	64.8	64.6	64.4	64.0	63.9	63.7	63.7	64.1	64.4	64.44
	30	65.4	64.9	64.3	64.1	63.9	63.7	63.6	63.2	63.2	63.6	63.7	65.31
	Hourly Means	63.84	63.64	63.44	63.31	63.16	63.01	62.87	62.76	62.78	62.94	63.18	63.91

a Good Friday.

HORIZONTAL FORCE.													
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00022.													
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 .	12 ^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.
MAY. 1	36.4	35.8	35.0	34.5	34.7	35.4	35.4	35.7	35.4	35.4	35.8	35.8	36.1
2	35.2	35.5	35.8	35.4	35.8	36.5	36.6	36.4	35.8	35.6	35.3	34.7	—
3	—	—	—	—	—	—	—	—	—	—	—	—	32.7
4	34.2	32.9	33.2	32.2	30.9	22.7	24.3	26.4	22.5	22.2	22.0	23.2	28.2
5	32.3	31.0	29.6	30.0	30.6	29.3	26.9	28.4	27.0	26.7	25.6	26.9	28.2
6	29.6	29.7	28.9	29.2	29.4	29.4	29.4	29.2	30.8	31.2	31.4	31.2	31.4
7	32.6	31.6	32.8	32.7	33.2	31.4	28.9	27.8	28.1	28.0	30.0	30.8	32.0
8	33.6	32.6	32.1	33.0	33.2	31.4	29.7	28.6	28.8	28.2	29.9	31.6	31.5
9	35.4	33.4	33.6	32.3	30.5	28.9	31.4	33.3	29.4	26.6	29.5	32.1	—
10	—	—	—	—	—	—	—	—	—	—	—	—	38.4
11	36.2	35.0	36.1	36.7	37.5	38.4	37.3	36.6	36.4	34.8	35.4	36.4	40.1
12	28.2	28.4	29.2	27.4	25.2	26.8	23.4	30.2	23.8	25.1	26.4	27.4	29.9
13	30.4	29.6	28.5	28.9	30.4	28.7	27.7	30.9	29.1	32.5	30.5	30.0	31.6
14	35.4	32.9	30.7	30.3	29.4	30.7	31.3	30.6	32.4	32.9	32.4	32.3	32.5
15	33.4	32.4	31.2	31.2	31.6	31.9	32.5	32.4	32.1	32.3	34.2	34.1	33.8
16	37.4	35.7	34.8	34.8	34.9	35.4	35.2	34.6	34.4	33.9	33.7	33.2	—
17	—	—	—	—	—	—	—	—	—	—	—	—	35.4
18	39.7	39.1	39.3	38.5	37.6	37.5	37.3	36.6	37.1	37.2	36.9	38.0	38.1
19	36.0	34.5	36.0	35.0	35.4	33.9	34.2	32.6	31.9	33.4	34.1	34.4	35.1
20	34.1	34.4	34.0	31.8	30.8	30.2	32.0	32.9	32.2	32.2	33.4	33.3	34.2
21	34.4	34.2	35.6	30.8	31.9	33.9	34.4	33.3	33.2	33.6	34.2	34.7	35.2
22	39.0	36.8	34.6	33.5	35.1	35.4	34.4	32.9	34.4	34.6	34.8	35.6	35.6
23	41.2	39.5	37.4	35.5	35.4	32.4	34.3	34.6	34.4	35.0	35.5	36.4	—
24	—	—	—	—	—	—	—	—	—	—	—	—	36.1
25	36.0	34.7	33.9	31.1	31.2	34.8	34.9	33.4	35.2	33.4	34.4	34.4	37.6
26	39.3	38.6	37.7	37.9	38.1	38.2	37.6	37.3	37.7	37.6	37.4	37.6	37.8
27	42.4	41.2	38.4	37.3	37.4	37.3	36.9	36.0	36.1	36.2	36.1	36.4	36.6
28	38.7	38.2	38.2	38.1	38.4	38.4	37.9	36.5	37.1	36.6	36.8	37.4	37.4
29	40.2	39.8	38.4	39.4	40.2	40.2	40.3	40.4	39.4	40.1	40.1	38.6	37.1
30	40.0	40.4	39.1	36.8	38.6	38.4	35.0	33.9	35.4	35.6	35.2	41.4	—
31	—	—	—	—	—	—	—	—	—	—	—	—	37.0
Hourly Means	35.82	34.92	34.39	33.63	33.75	33.37	33.05	33.13	32.70	32.73	33.12	33.77	34.60
TEMPERATURE OF THE MAGNET.													
	1	2	3	4	5	6	7	8	9	10	11	12	13
MAY. 1	64.1	64.7	64.9	65.7	65.9	66.2	66.3	66.1	65.7	65.6	65.3	65.0	64.8
2	63.7	63.8	63.9	64.1	64.5	64.6	64.5	64.4	64.3	64.1	64.3	64.0	—
3	—	—	—	—	—	—	—	—	—	—	—	—	64.5
4	63.7	64.7	65.2	65.8	66.2	66.3	66.8	67.0	67.0	67.0	66.7	66.7	66.7
5	65.5	65.7	65.9	66.5	66.7	66.7	67.1	67.0	67.1	66.8	66.7	66.7	66.5
6	65.7	66.0	66.3	66.6	66.8	66.8	67.1	66.9	66.7	66.5	66.2	66.2	66.0
7	64.9	64.9	65.1	65.5	65.7	65.7	65.7	65.7	65.5	65.3	65.3	65.2	65.1
8	64.0	64.0	63.8	63.8	63.7	63.6	63.6	63.2	62.8	62.7	62.6	62.3	61.9
9	60.2	60.3	60.6	60.7	60.8	60.8	61.1	60.7	60.5	60.2	59.7	59.4	—
10	—	—	—	—	—	—	—	—	—	—	—	—	57.0
11	55.8	56.1	56.8	57.5	57.7	58.0	58.0	58.1	57.9	57.8	57.7	57.7	57.7
12	58.2	58.6	58.8	59.0	59.5	59.7	59.7	59.7	59.8	60.1	60.0	59.9	59.9
13	60.7	60.9	60.9	60.9	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.7	60.6
14	60.0	60.3	60.7	60.7	60.9	61.0	60.7	60.7	60.7	60.6	60.6	60.5	60.4
15	59.9	60.1	60.7	60.8	60.8	60.9	61.0	60.9	60.8	60.7	60.7	60.5	60.3
16	60.4	60.7	60.9	61.1	61.4	61.6	61.7	61.6	61.3	61.1	60.8	60.8	—
17	—	—	—	—	—	—	—	—	—	—	—	—	60.7
18	60.9	60.9	61.3	61.3	61.3	61.3	61.1	61.0	61.0	61.0	61.2	61.1	61.1
19	60.8	60.8	60.8	60.8	60.7	60.7	60.8	60.8	60.8	60.8	60.9	60.9	60.9
20	61.2	61.0	60.9	60.9	60.9	60.9	60.8	60.8	60.8	60.7	60.8	60.8	60.8
21	59.9	59.8	59.8	59.8	59.7	59.6	59.5	59.4	59.1	58.8	58.6	58.2	58.0
22	57.3	57.5	57.7	57.8	57.9	58.0	57.9	57.7	57.7	57.3	57.1	56.8	56.8
23	56.1	56.6	56.7	56.9	57.2	57.4	57.6	57.6	57.7	57.7	57.7	57.8	—
24	—	—	—	—	—	—	—	—	—	—	—	—	56.2
25	55.7	55.8	56.0	56.5	56.7	57.0	57.1	57.0	56.9	56.7	56.6	56.6	56.3
26	55.8	56.0	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.9	56.8	56.7
27	56.7	56.8	57.2	57.4	57.6	57.6	57.6	57.7	57.7	57.6	57.3	57.0	57.0
28	56.0	56.4	56.7	56.7	56.8	56.8	56.9	56.9	56.8	56.8	56.7	56.7	56.7
29	54.8	54.8	55.0	55.2	55.3	55.3	55.5	55.4	55.1	55.0	54.6	54.7	54.9
30	54.7	54.7	54.7	55.3	55.6	55.7	56.0	56.0	55.9	55.9	55.8	55.6	—
31	—	—	—	—	—	—	—	—	—	—	—	—	54.8
Hourly Means	59.87	60.07	60.29	60.54	60.68	60.76	60.83	60.76	60.66	60.55	60.45	60.33	60.09

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.

Mean Göttingen Time.	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.
MAY. 1	36.2	36.5	37.2	37.0	37.4	37.8	39.0	38.7	38.1	37.3	35.3	36.33
2	—	—	—	—	—	—	—	—	—	—	—	35.84
3	32.3	32.5	34.7	34.9	35.0	35.6	39.8	40.1	39.6	37.8	36.5	29.63
4	29.4	32.0	31.7	33.2	33.0	31.3	33.3	33.7	32.4	32.8	33.4	29.97
5	29.1	29.7	32.2	31.5	31.3	32.6	32.4	33.6	31.5	32.0	30.9	31.58
6	33.7	32.4	32.2	32.6	32.8	34.3	34.9	35.2	34.3	32.6	32.0	32.61
7	32.3	32.4	34.1	33.7	36.6	34.7	36.1	35.4	35.4	36.5	35.6	32.55
8	32.4	32.4	32.2	32.0	32.2	35.7	36.2	36.4	37.2	35.7	34.7	35.56
9	—	—	—	—	—	—	—	—	—	—	—	36.93
10	38.2	38.2	39.1	39.0	39.2	40.1	40.9	41.6	41.3	40.9	40.1	29.83
11	38.6	39.5	39.5	38.5	40.4	40.1	43.4	39.8	31.4	28.6	29.6	32.23
12	31.7	29.4	30.4	32.4	33.2	31.4	34.5	37.3	37.4	35.6	31.2	33.32
13	35.0	36.6	32.6	32.9	34.9	34.2	33.5	35.4	37.3	36.4	35.9	34.33
14	34.3	34.5	34.9	35.7	35.0	35.6	35.3	35.4	36.3	35.0	33.8	36.56
15	33.5	33.7	34.2	34.5	34.9	36.4	37.7	38.9	39.0	39.4	38.6	37.54
16	—	—	—	—	—	—	—	—	—	—	—	35.23
17	36.2	36.6	36.7	37.3	37.5	38.4	39.6	40.6	40.9	40.4	39.9	34.45
18	36.2	37.7	38.0	38.4	37.3	38.2	35.5	37.3	38.0	35.8	35.6	35.78
19	35.5	35.7	35.7	35.3	35.6	36.0	36.8	37.7	38.7	36.2	35.8	37.11
20	34.4	34.4	33.9	34.1	34.5	36.0	38.3	38.9	39.6	38.9	38.2	37.01
21	35.5	35.6	36.0	36.4	37.4	38.2	39.1	40.8	41.3	39.8	39.2	36.35
22	36.3	37.0	37.3	38.3	38.5	39.2	40.9	40.7	42.2	42.0	41.6	38.66
23	—	—	—	—	—	—	—	—	—	—	—	38.03
24	38.0	37.4	37.0	37.2	38.4	38.8	37.1	38.2	39.5	40.3	38.7	38.50
25	37.2	37.1	37.3	37.4	37.9	38.6	39.6	40.9	41.2	40.4	39.9	40.07
26	38.1	37.5	38.4	38.5	38.4	38.6	39.6	40.5	41.7	41.8	41.9	37.75
27	37.2	37.4	37.6	37.9	38.0	38.2	39.3	40.2	39.9	39.4	39.4	35.10
28	37.5	37.8	38.3	38.3	38.4	38.8	40.2	41.5	41.5	41.3	40.6	37.11
29	38.8	39.2	39.4	40.8	41.5	42.6	42.1	42.2	41.2	40.4	39.3	37.01
30	—	—	—	—	—	—	—	—	—	—	—	36.35
31	35.0	35.7	35.7	35.8	37.9	37.4	40.4	40.4	42.4	40.3	38.5	38.03
Hourly Means	35.10	35.34	35.63	35.91	36.43	36.88	37.90	38.52	38.43	37.60	36.78	37.14

TEMPERATURE OF THE MAGNET.

MAY. 1	64.6	64.3	64.0	63.7	63.7	63.4	63.3	63.2	63.0	63.3	63.4	64.59
2	—	—	—	—	—	—	—	—	—	—	—	63.76
3	64.3	64.0	63.8	63.5	63.3	62.8	62.7	62.6	62.6	62.7	63.3	66.06
4	66.7	66.5	66.4	66.3	66.2	66.2	65.8	65.6	65.5	65.2	65.3	66.17
5	66.2	65.9	66.0	65.9	65.7	65.7	65.6	65.5	65.5	65.4	65.7	65.88
6	65.7	65.7	65.4	65.4	65.1	65.3	65.1	65.1	65.0	64.8	64.8	64.97
7	64.9	64.8	64.7	64.7	64.6	64.6	64.5	64.5	64.3	63.9	64.1	62.09
8	61.7	61.6	61.4	61.3	61.0	60.5	60.2	60.2	60.1	60.1	60.1	58.12
9	—	—	—	—	—	—	—	—	—	—	—	57.49
10	56.7	56.7	56.5	55.9	55.8	55.5	55.1	55.0	54.9	55.1	55.6	59.79
11	57.7	57.5	57.6	57.6	57.6	57.3	57.3	57.3	57.5	57.7	57.9	60.42
12	59.9	59.7	59.7	59.7	59.7	60.4	60.4	60.6	60.6	60.7	60.7	60.28
13	60.5	60.4	60.1	59.9	59.9	60.0	59.9	59.8	59.7	59.7	59.8	60.28
14	60.4	60.4	60.4	59.9	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.93
15	60.2	60.0	60.0	60.1	60.0	59.7	59.7	59.7	59.7	59.7	59.8	61.04
16	—	—	—	—	—	—	—	—	—	—	—	60.86
17	60.7	60.7	60.8	60.8	60.8	60.7	60.7	60.7	60.8	60.7	60.8	60.72
18	61.1	61.0	60.9	60.9	60.9	61.1	61.1	60.9	60.9	60.8	60.8	58.27
19	60.9	60.9	60.9	60.8	60.9	60.8	60.8	60.9	61.0	60.8	61.2	56.80
20	60.8	60.7	60.7	60.7	60.6	60.6	60.5	60.5	60.3	60.5	60.0	56.46
21	57.8	57.7	57.6	57.5	57.3	57.0	56.7	56.7	56.6	56.7	56.7	56.12
22	56.7	56.3	56.4	56.2	56.0	55.8	55.7	55.6	55.6	55.7	55.7	56.51
23	—	—	—	—	—	—	—	—	—	—	—	56.77
24	55.9	55.9	55.7	55.7	55.6	55.6	55.6	55.5	55.5	55.3	55.6	56.13
25	56.3	55.9	55.8	55.8	55.7	55.5	55.3	55.3	55.2	55.5	55.6	54.84
26	56.7	56.6	56.4	56.1	56.1	56.3	56.3	56.5	56.5	56.7	56.7	55.06
27	56.7	56.7	56.5	56.4	56.2	56.0	55.9	55.7	55.7	55.7	55.8	59.97
28	56.4	56.2	56.2	55.9	55.7	55.4	55.0	54.9	54.9	54.7	54.8	59.84
29	54.9	54.9	54.9	54.7	54.7	54.7	54.7	54.7	54.3	54.4	54.4	59.02
30	—	—	—	—	—	—	—	—	—	—	—	60.02
31	54.7	54.8	54.7	54.7	54.7	54.6	54.5	54.5	54.5	54.3	54.7	
Hourly Means	59.97	59.84	59.75	59.62	59.52	59.43	59.31	59.26	59.22	59.23	59.35	60.02

HORIZONTAL FORCE.														
One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00022.														
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 .	12 ^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.	
JUNE.	1	37.0	35.4	34.9	35.6	35.8	36.1	33.7	34.9	35.2	34.6	34.4	36.1	35.4
	2	34.4	33.4	32.6	32.2	33.3	33.2	32.3	30.3	29.0	31.4	31.6	32.4	32.8
	3	37.3	35.4	32.4	33.4	33.9	33.2	32.9	32.7	33.1	32.4	32.6	35.7	35.4
	4	34.4	33.1	31.6	30.9	31.5	31.0	30.6	30.4	32.4	32.6	33.4	34.0	34.8
	5	36.6	35.9	35.4	35.4	36.4	36.2	34.4	33.1	33.9	33.7	33.7	36.8	36.3
	6	38.4	37.1	36.9	35.0	36.1	35.0	33.2	31.6	30.1	32.6	31.1	31.3	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	38.1
	8	37.4	37.1	36.4	35.9	37.0	36.5	35.5	35.5	35.3	35.1	35.4	35.0	34.4
	9	34.6	33.7	33.7	33.4	32.5	29.6	32.2	29.4	29.0	29.1	29.6	29.9	31.8
	10	34.7	34.8	33.9	32.6	32.3	31.2	31.3	32.1	31.4	31.0	32.0	32.2	33.4
	11	36.2	36.4	37.1	37.1	36.5	37.5	36.2	35.8	35.4	34.9	34.6	34.7	34.9
	12	35.1	34.1	34.4	35.4	35.1	34.1	35.2	34.2	33.2	33.2	33.4	34.3	34.3
	13	47.1	42.8	30.6	33.4	35.4	35.3	34.1	33.7	33.6	33.4	34.2	34.0	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	35.6
	15	34.4	34.6	35.4	35.1	35.5	32.9	32.4	30.4	30.8	31.4	34.7	33.2	32.6
	16	33.0	30.2	31.5	30.3	33.2	33.3	33.2	33.9	32.2	35.3	34.1	31.8	35.8
	17	35.8	33.9	33.6	33.7	32.8	33.9	33.0	32.6	33.2	32.8	34.0	32.6	34.1
	18	37.5	36.1	34.6	33.9	34.6	34.2	34.6	34.5	33.6	35.5	34.9	35.4	35.3
	19	34.6	33.6	33.1	33.1	33.7	32.7	34.4	33.6	33.8	33.7	33.8	34.3	34.6
	20	37.4	35.6	35.1	35.2	35.5	36.3	35.7	34.5	35.2	35.3	35.0	35.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	35.6
	22	38.3	36.5	34.8	33.8	32.4	33.5	33.7	34.4	33.6	33.4	32.5	32.8	33.4
	23	35.8	34.2	33.2	33.3	32.0	32.7	33.8	32.5	32.3	31.6	32.5	33.6	34.4
	24	35.1	33.3	31.5	31.4	33.0	32.8	31.6	32.2	33.1	32.2	32.4	34.3	33.8
	25	36.6	35.2	33.3	32.5	34.7	35.4	34.9	34.4	34.2	32.4	32.5	33.1	32.9
	26	37.6	37.2	36.5	36.7	37.1	36.7	36.6	35.3	36.7	36.8	33.8	34.6	35.0
	27	37.1	37.0	36.4	36.6	37.3	37.0	35.2	33.7	31.9	30.5	31.0	31.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	36.2
	29	36.5	35.5	35.2	35.4	36.3	36.1	35.2	33.1	32.3	33.8	31.1	32.2	33.2
	30	33.6	34.1	34.6	34.6	35.0	34.2	34.3	32.6	33.2	33.4	33.5	33.3	34.2
Hourly Means	36.40	35.24	34.18	34.07	34.57	34.25	33.85	33.13	32.99	33.16	33.15	33.65	34.55	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	1	54.9	55.5	55.7	56.0	56.6	56.8	57.2	57.2	57.1	57.0	57.1	56.9	56.8
	2	57.5	57.9	58.5	58.7	58.9	59.0	59.5	59.4	59.1	58.8	58.5	58.1	57.7
	3	56.8	57.2	57.7	57.7	58.0	58.4	58.6	58.7	58.7	58.7	58.7	58.7	58.7
	4	58.0	57.9	57.8	57.9	57.9	58.0	58.4	58.2	57.9	57.6	57.2	56.7	56.4
	5	55.2	55.5	55.7	55.9	56.3	56.7	56.7	56.6	56.3	56.2	56.1	55.9	55.8
	6	56.3	56.7	56.9	57.3	57.7	57.9	58.2	58.2	58.3	58.3	58.5	58.5	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	58.0
	8	58.2	58.3	58.7	58.8	58.8	59.0	59.3	59.3	59.2	59.0	58.7	58.5	58.3
	9	57.8	58.0	58.6	58.7	58.9	59.1	58.9	58.9	58.9	58.8	58.7	58.7	58.7
	10	58.4	58.7	58.9	59.2	59.5	59.7	59.7	59.7	59.7	59.6	59.2	59.0	58.7
	11	56.7	56.7	57.2	57.6	57.8	58.2	58.0	58.2	58.2	58.3	58.6	58.5	58.5
	12	59.3	59.4	59.8	59.7	59.7	59.7	59.8	59.8	59.7	59.7	59.7	59.7	59.6
	13	58.8	59.0	59.7	59.7	59.8	60.0	59.7	59.7	59.5	59.1	59.1	58.9	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	57.7
	15	58.4	58.5	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
	16	57.7	57.7	57.8	58.0	58.2	58.3	58.0	58.0	58.0	58.1	58.2	58.1	58.1
	17	58.2	58.6	58.7	59.0	59.2	59.4	59.3	59.1	58.8	58.6	58.4	58.1	58.0
	18	57.0	57.5	57.7	58.0	58.4	58.7	58.7	58.7	58.6	58.2	58.0	57.8	57.5
	19	55.8	56.2	56.7	57.1	57.5	57.9	58.1	58.0	57.8	57.6	57.1	56.8	56.6
	20	55.5	55.7	56.5	56.9	57.4	57.6	57.4	57.5	57.2	56.9	56.7	56.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	57.7
	22	58.4	58.7	58.9	59.4	59.6	59.8	59.8	59.9	59.7	59.7	59.7	59.7	59.7
	23	58.7	58.9	59.3	59.5	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.6
	24	58.7	58.8	58.8	59.0	59.3	59.4	59.4	59.4	59.2	59.1	59.3	59.5	59.6
	25	58.9	59.0	59.4	59.5	59.7	59.8	59.8	59.9	59.9	60.0	60.0	59.7	59.7
	26	58.5	58.6	58.5	58.6	58.7	58.7	58.7	58.5	58.2	57.9	57.7	57.7	57.7
	27	57.2	57.4	57.7	57.8	57.7	57.7	58.0	57.9	57.7	57.6	57.3	57.0	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	57.7
	29	58.6	58.6	58.6	58.5	58.5	58.4	58.3	58.3	58.3	58.2	58.2	58.1	58.1
	30	57.3	57.5	57.5	57.6	57.7	57.7	57.7	57.7	57.4	56.9	57.0	56.7	56.6
Hourly Means	57.57	57.79	58.07	58.26	58.47	58.63	58.68	58.66	58.53	58.40	58.31	58.16	58.08	

HORIZONTAL FORCE.

One Scale Division = .00022 parts of the H. F. Change in the Magnetic moment of the Bar for 1° of Fah°. = .00022.

Mean Göttingen Time.	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.
JUNE. 1	36.1	35.4	—	—	—	40.0	37.6	38.3	39.8	37.2	33.4	36.04
2	33.4	33.6	35.4	37.8	36.9	36.3	35.4	37.1	36.3	36.9	37.3	33.97
3	33.4	33.2	33.4	33.4	34.1	34.4	35.3	36.4	37.4	36.4	35.9	34.32
4	34.8	35.1	36.2	36.0	36.4	36.8	37.5	39.9	39.9	40.0	39.3	34.69
5	36.1	36.8	36.7	37.3	38.3	38.8	38.3	39.5	39.3	39.1	39.9	36.58
6	—	—	—	—	—	—	—	—	—	—	—	—
7	34.2	34.9	34.4	34.9	35.8	37.2	38.4	39.3	40.2	39.7	38.4	35.58
8	34.0	33.8	34.9	34.2	34.5	36.9	35.6	35.7	34.4	34.3	34.9	35.40
9	33.3	34.9	35.4	36.5	35.9	33.7	35.3	37.4	37.2	36.4	36.1	33.36
10	33.4	35.0	35.4	35.4	35.6	34.7	36.2	37.3	38.0	38.2	37.3	34.14
11	34.4	34.7	35.3	35.3	35.6	36.2	36.9	37.2	36.6	36.2	35.5	35.88
12	34.4	34.5	35.3	35.9	36.6	38.2	40.9	41.4	42.8	44.6	44.2	36.45
13	—	—	—	—	—	—	—	—	—	—	—	—
14	35.4	36.6	37.2	39.2	39.2	35.9	36.4	37.2	37.2	35.4	33.4	36.10
15	36.0	34.7	33.4	34.4	34.7	34.6	34.4	35.2	36.0	36.7	36.6	34.17
16	39.3	34.8	33.9	34.0	34.4	36.2	36.2	37.6	38.7	37.9	35.8	34.44
17	34.1	34.0	33.8	34.4	35.1	35.9	36.8	38.1	39.1	38.5	37.7	34.73
18	34.9	35.4	36.2	35.9	35.5	35.2	37.6	37.9	38.6	38.3	37.6	35.74
19	35.1	35.2	35.4	35.4	35.5	36.2	36.7	37.6	38.3	39.3	38.6	35.10
20	—	—	—	—	—	—	—	—	—	—	—	—
21	35.6	35.6	36.2	36.4	36.2	37.1	37.5	37.4	38.7	37.3	38.5	36.18
22	36.4	35.9	34.2	35.7	34.2	34.3	34.7	35.4	35.8	35.6	35.7	34.63
23	34.7	33.7	34.2	34.7	34.6	34.2	36.2	37.9	37.7	35.4	34.4	34.15
24	34.1	33.5	33.8	34.1	34.4	34.6	35.6	36.8	38.1	38.3	39.7	34.15
25	36.4	35.4	36.4	35.0	35.2	35.2	35.5	36.8	37.5	37.5	38.1	35.05
26	35.6	36.2	37.3	37.5	38.3	37.6	37.4	39.0	39.4	39.8	38.8	36.98
27	—	—	—	—	—	—	—	—	—	—	—	—
28	34.9	35.2	37.6	35.6	35.6	35.1	36.1	37.4	36.6	36.2	38.0	35.42
29	33.6	33.4	38.5	37.4	36.8	37.0	36.4	37.1	36.9	36.9	33.5	35.14
30	33.5	34.2	34.7	35.7	36.8	37.8	38.6	40.0	40.5	39.4	36.8	35.36
Hourly Means	34.89	34.83	35.41	35.68	35.85	36.16	36.67	37.73	38.12	37.75	37.13	35.14

TEMPERATURE OF THE MAGNET.

JUNE. 1	56.8	56.7	—	—	—	56.6	56.7	56.7	56.7	56.7	57.1	56.61
2	57.5	56.9	57.1	56.8	56.7	56.7	56.6	56.6	56.6	56.6	56.7	57.77
3	58.7	58.7	59.0	59.1	59.1	58.7	58.7	58.7	58.7	58.2	58.2	58.43
4	56.2	55.9	55.7	55.7	55.5	55.2	54.8	54.7	54.7	54.7	54.8	56.58
5	55.8	55.7	55.7	55.7	55.6	55.6	55.6	55.7	55.7	55.7	55.8	55.90
6	—	—	—	—	—	—	—	—	—	—	—	—
7	58.0	57.9	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.8	57.75
8	58.2	58.1	58.2	58.2	58.1	57.7	57.7	57.7	57.7	57.7	57.7	58.38
9	58.7	58.6	58.6	58.5	58.4	57.9	57.8	58.1	58.2	58.3	58.5	58.51
10	58.3	58.1	57.8	57.5	57.1	56.8	56.6	56.1	56.0	56.0	56.0	58.18
11	58.6	58.6	58.7	58.7	58.7	58.9	59.0	59.0	59.1	58.9	59.1	58.33
12	59.6	59.5	59.3	59.2	59.1	58.9	58.7	58.7	58.5	58.7	58.7	59.35
13	—	—	—	—	—	—	—	—	—	—	—	—
14	57.7	57.7	57.7	57.7	57.8	57.7	57.7	57.7	57.7	57.9	58.1	58.59
15	58.5	58.4	58.4	58.3	58.2	57.9	57.8	57.7	57.7	57.7	57.6	58.36
16	58.1	58.2	58.3	58.2	58.0	58.2	58.0	57.7	57.6	57.6	57.7	57.99
17	57.8	57.6	57.3	57.1	56.9	56.7	56.7	56.4	56.3	56.6	56.7	57.90
18	57.2	56.9	56.6	56.2	55.9	55.7	55.5	55.3	55.1	55.2	55.6	57.08
19	56.4	56.0	56.2	56.0	55.7	55.4	55.1	55.0	54.9	55.0	55.2	56.42
20	—	—	—	—	—	—	—	—	—	—	—	—
21	57.5	57.5	57.5	57.5	57.5	57.3	57.3	57.3	57.4	57.7	57.9	57.16
22	59.4	59.3	59.2	58.9	58.9	59.0	58.9	58.7	58.7	58.7	58.7	59.23
23	59.4	59.3	59.0	58.8	58.7	58.7	58.6	58.4	58.3	58.6	58.6	59.16
24	59.7	59.7	59.6	59.5	59.4	59.4	59.4	59.3	59.2	59.1	59.0	59.28
25	59.4	59.3	59.1	58.8	58.8	58.8	58.7	58.6	58.4	58.1	58.1	59.23
26	57.5	57.4	57.4	57.4	57.3	56.8	56.8	56.7	56.7	56.7	56.8	57.73
27	—	—	—	—	—	—	—	—	—	—	—	—
28	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.9	58.6	57.69
29	58.0	57.8	57.6	57.6	57.4	57.1	56.8	56.7	56.7	56.9	57.0	57.85
30	56.6	56.5	56.2	56.0	55.8	55.8	55.7	55.6	55.5	55.4	55.7	56.67
Hourly Means	57.97	57.85	57.82	57.71	57.60	57.42	57.33	57.25	57.21	57.24	57.37	57.93

CAPE OF GOOD HOPE, 1842 to 1846.

VERTICAL FORCE.

VERTICAL FORCE.														
One Scale Division = ·00005 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = ·00005.														
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 .	12 ^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.	
JANUARY.	1 ^a	49·6	86·7	95·8	69·2	92·0	44·2	85·1	90·0	29·8	85·9	88·7	87·4	
	2 ^a	—	—	—	—	—	—	—	—	—	—	—	77·2	
	3	67·4	41·5	53·3	64·2	62·9	66·4	72·2	70·3	68·6	80·5	88·7	88·1	86·4
	4	42·5	32·0	46·5	47·0	64·2	78·9	81·3	88·1	80·6	80·5	80·0	80·0	81·2
	5	54·0	59·7	63·5	67·6	64·5	66·2	70·7	68·2	66·2	75·9	83·0	87·0	67·8
	6	47·9	52·3	62·5	61·4	61·5	67·7	76·5	75·4	71·4	67·4	70·4	73·7	79·9
	7	64·7	68·3	74·9	71·2	60·2	63·7	74·1	70·0	65·1	68·5	73·2	67·2	65·3
	8	41·5	61·9	48·6	48·1	43·2	52·1	58·7	66·0	68·1	64·7	69·3	70·3	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	69·8
	10	25·7	38·6	54·5	55·5	55·2	51·1	53·4	46·6	45·7	50·3	51·8	58·8	61·4
	11	25·6	30·9	38·3	56·9	68·4	66·8	61·2	48·6	46·3	54·7	63·6	62·8	68·2
	12	19·2	17·4	34·6	38·3	37·7	33·3	32·2	31·2	32·4	38·0	38·0	41·6	43·6
	13	4·6 ^a	1·1 ^a	25·2	32·1	38·5	42·1	41·3	43·1	44·5	43·6	45·1	44·5	47·9
	14 ^b	24·3	16·1	22·4	34·8	38·2	37·5	37·8	35·2	34·1	38·7	38·7	44·1	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	—
	17 ^c	23·0	32·6	42·9	44·0	40·6	44·9	38·6	46·6	41·2	43·1	40·8	41·1	43·4
	18	15·4	22·6	27·0	33·7	44·7	52·2	56·7	59·5	51·6	42·5	43·8	43·5	31·6
	19	32·0	34·6	36·5	38·2	36·5	42·8	44·8	44·8	48·6	47·0	46·8	47·5	46·1
	20	40·1	36·7	34·9	34·8	37·9	39·8	44·8	46·2	45·5	48·6	48·1	49·0	48·9
	21	40·0	39·4	41·9	44·8	43·4	46·2	48·7	51·6	53·4	50·3	47·3	52·5	56·1
	22	37·2	38·6	44·6	44·7	44·2	41·6	42·1	43·7	43·1	44·5	42·4	45·3	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	45·4
	24	19·5	37·1	30·8	41·2	46·7	49·5	44·1	43·1	44·7	47·7	65·4	70·0	53·6
	25	41·4	42·3	46·6	43·4	51·1	45·3	45·9	47·5	50·6	43·8	46·2	50·6	48·2
	26	37·2	37·5	38·7	40·5	40·5	39·4	37·6	37·9	40·8	40·4	40·8	39·8	42·6
	27	25·1	24·0	30·3	34·5	40·0	44·2	43·9	46·0	42·3	47·5	47·2	46·7	43·6
	28	26·2	23·8	28·2	31·9	35·3	31·3	29·8	28·5	31·1	33·6	34·8	40·5	43·9
	29 ^b	20·5	24·6	34·4	32·4	34·0	37·1	36·6	31·0	31·1	31·8	35·8	36·3	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	36·01	38·59	43·06	46·38	48·44	50·74	52·31	52·52	51·51	53·00	55·56	57·17	55·95	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
JANUARY.	1 ^a	67·1	67·1	67·2	67·5	67·6	67·7	67·6	67·5	67·0	66·8	66·7	—	
	2 ^a	—	—	—	—	—	—	—	—	—	—	—	68·3	
	3	68·6	68·6	68·8	69·0	69·1	69·1	69·4	68·8	69·4	68·3	67·9	67·7	67·4
	4	66·6	66·8	67·1	67·4	67·7	67·8	68·2	68·1	67·8	67·3	67·2	67·2	67·2
	5	68·5	68·9	69·8	69·7	70·0	70·2	70·3	70·5	69·9	70·0	69·8	69·5	69·1
	6	69·2	69·2	69·6	69·6	69·8	69·7	69·7	69·4	69·2	68·8	68·5	68·0	67·8
	7	68·2	68·5	68·8	69·4	69·8	70·2	70·4	70·5	70·5	70·1	70·0	69·8	69·5
	8	70·0	70·3	70·5	70·8	71·0	71·2	71·3	70·3	69·6	69·4	69·0	68·9	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	67·9
	10	69·1	69·7	70·2	70·7	70·9	71·0	71·1	70·9	70·7	70·3	70·2	70·2	70·1
	11	70·6	70·8	71·0	71·4	71·6	71·8	72·0	71·8	71·7	71·7	71·6	71·5	71·2
	12	72·6	73·0	73·7	74·1	74·7	75·1	75·6	75·7	75·8	75·0	75·0	74·8	74·4
	13	73·5	73·5	73·7	73·9	73·8	74·0	73·8	73·6	73·4	72·9	72·6	72·4	72·0
	14 ^b	72·1	73·8	73·3	73·6	73·8	73·7	73·9	73·8	73·6	73·1	72·8	72·7	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	72·0	72·5	72·8	73·7	73·9	74·1	74·2	74·7	74·6	74·3	74·0	73·8	73·7
	18	73·0	73·7	74·1	74·4	74·4	74·2	74·3	74·3	74·3	73·8	73·6	72·0	72·8
	19	71·8	72·2	72·2	72·6	72·2	72·6	72·6	72·6	72·4	72·0	71·8	71·6	71·7
	20	70·3	70·6	70·6	70·7	70·8	70·8	70·8	70·8	70·8	70·7	70·3	69·7	68·8
	21	67·8	68·1	68·1	68·4	68·6	68·6	68·8	68·7	68·5	68·5	68·2	67·8	67·6
	22	67·6	68·0	68·6	69·3	69·6	70·1	70·1	70·5	70·3	70·1	69·9	69·8	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	70·7
	24	69·2	69·1	69·0	68·9	68·8	68·7	68·6	68·6	68·4	68·1	68·0	67·7	68·0
	25	67·8	68·1	68·6	68·7	68·8	68·9	69·0	69·0	69·0	68·8	68·6	68·6	67·9
	26	68·6	68·9	69·4	69·8	70·2	70·5	70·5	70·5	70·4	70·3	69·9	69·8	69·6
	27	70·2	70·4	70·4	70·6	70·7	70·8	70·9	70·8	70·6	70·5	70·3	70·2	69·9
	28	70·9	71·6	72·2	72·2	72·6	72·7	72·7	72·6	72·5	72·3	72·1	71·8	71·6
	29 ^b	72·0	72·5	73·0	73·4	73·6	73·6	73·5	73·3	73·0	72·8	72·5	72·5	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	69·63	69·95	70·44	70·73	70·90	71·05	71·16	71·08	70·94	70·63	70·40	70·13	69·95	

^a Omitted in the means; readings irregular.

^b Omitted in the means.

^c New adjustment.

VERTICAL FORCE.														
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^h .	
FEBRUARY.	1 ^a	38.9	42.5	56.3	61.4	67.9	67.3	63.1	55.5	56.9	57.4	58.3	54.8	61.5
	2	49.2	48.8	53.6	53.2	58.7	62.7	60.0	57.5	57.2	57.5	57.3	56.8	58.6
	3	56.2	51.9	54.0	55.6	54.1	55.0	57.5	53.4	61.5	60.1	58.9	59.7	58.6
	4	55.8	51.8	48.9	50.5	50.5	52.4	56.1	56.8	56.1	57.4	57.9	56.3	58.5
	5	49.4	53.6	54.0	54.5	54.4	54.4	54.4	56.0	57.5	57.9	57.2	57.5	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	52.6
	7	53.2	53.7	55.8	63.4	65.1	56.3	54.3	55.9	54.8	53.8	50.2	49.9	56.6
	8	49.6	49.0	50.3	52.3	54.4	53.5	52.5	54.4	53.3	52.3	54.0	55.1	51.6
	9	48.8	51.6	51.2	51.6	51.0	51.0	51.4	52.0	50.4	50.0	48.7	50.8	51.9
	10	42.9	44.0	45.9	47.2	46.8	47.9	45.6	47.1	48.7	47.9	47.6	43.5	48.7
	11	43.9	45.4	51.2	52.2	53.6	53.5	53.7	55.5	59.6	55.1	63.5	61.5	56.4
	12	54.1	53.4	53.4	55.2	57.1	57.6	57.2	55.8	54.4	57.5	58.6	54.9	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	51.1
	14	45.9	43.4	44.7	46.2	47.0	48.5	49.2	51.1	55.5	58.9	54.4	51.6	49.9
	15	44.4	42.8	42.1	46.7	50.1	55.2	59.0	54.7	52.9	53.2	53.5	55.4	57.8
	16	46.4	44.0	43.4	45.2	50.9	55.2	54.6	54.3	50.3	50.0	50.8	49.8	49.5
	17	44.0	43.7	47.4	49.6	51.0	60.3	54.2	51.7	45.3	45.4	45.7	47.1	48.5
	18	41.1	39.6	39.1	45.9	50.8	57.6	53.3	46.1	51.3	52.2	53.9	51.9	44.8
	19	40.7	38.3	38.4	44.2	47.7	46.3	47.7	48.2	39.4	42.9	43.4	40.8	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	50.2
	21	43.9	43.4	44.4	46.4	48.0	50.5	48.8	48.3	48.2	49.8	50.1	50.3	48.9
	22	42.4	42.1	43.5	45.7	48.0	48.5	48.5	48.5	49.1	49.7	50.0	50.1	50.3
	23	36.9	37.8	40.4	44.0	46.3	46.9	48.3	48.7	49.0	49.8	49.9	50.2	50.1
	24	44.8	45.3	50.0	54.0	52.5	58.5	62.4	74.8	79.3	81.3	77.0	68.1	63.7
	25	37.8	39.8	42.7	46.3	50.8	50.8	47.6	46.2	50.9	51.8	46.2	49.4	48.8
	26	35.2	36.7	42.4	47.7	49.2	48.7	45.9	45.3	44.5	43.8	45.2	46.7	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	45.4
	28	29.8	29.2	31.4	37.3	41.6	46.2	44.2	42.5	42.2	43.7	40.1	41.3	41.1
Hourly Means	44.80	44.66	46.85	49.85	51.98	53.53	52.90	52.51	52.85	53.31	53.02	52.23	52.30	
TEMPERATURE OF THE MAGNET.														
FEBRUARY.	1	70.1	70.1	70.1	70.3	70.3	70.3	70.3	70.0	69.8	69.7	69.3	69.3	69.0
	2	69.3	69.3	69.6	69.6	69.8	69.8	69.9	70.1	70.4	70.2	70.0	69.9	69.4
	3	68.6	68.9	69.1	69.6	69.8	69.7	69.6	69.6	69.5	69.3	69.3	69.0	69.1
	4	70.0	70.5	70.8	71.1	71.1	71.1	71.6	71.0	70.8	70.7	70.4	70.1	69.8
	5	69.6	69.8	70.0	70.0	70.6	70.7	70.6	70.6	70.4	69.9	69.7	69.6	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	69.1
	7	69.6	69.0	70.5	70.8	71.0	71.3	71.6	71.3	71.2	71.0	70.7	70.9	70.7
	8	71.5	71.7	72.1	72.4	72.6	72.8	72.9	72.8	73.6	73.3	72.5	72.3	72.0
	9	72.3	72.7	73.1	73.5	73.7	73.8	73.9	74.1	74.2	74.3	74.4	74.0	73.9
	10	73.2	73.6	74.0	74.5	74.8	74.8	75.2	75.1	75.1	75.1	75.1	74.8	74.5
	11	71.4	71.5	71.5	71.5	71.4	71.5	71.3	71.0	70.8	70.2	69.9	69.6	69.2
	12	68.1	68.5	68.7	68.8	69.0	69.2	69.1	69.0	68.8	68.8	68.6	68.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	70.6
	14	71.4	71.8	72.2	72.4	72.5	72.6	73.7	73.7	72.6	72.6	71.9	71.8	71.6
	15	69.2	69.3	69.5	69.6	69.6	69.3	69.0	69.0	68.6	68.0	67.5	67.4	67.3
	16	67.3	68.0	68.8	69.4	70.6	70.7	70.7	71.9	71.2	71.2	71.1	70.7	70.2
	17	70.8	71.3	72.1	72.8	73.3	73.8	74.2	74.4	74.3	73.9	73.8	73.6	73.1
	18	72.1	72.6	73.2	73.9	74.6	75.1	75.3	75.3	75.1	74.8	74.3	74.5	74.0
	19	73.8	74.4	75.0	74.5	75.6	75.8	75.7	75.6	75.3	75.0	74.8	74.6	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	71.1
	21	70.8	71.1	71.5	71.8	72.1	72.0	71.8	71.8	71.1	70.9	70.6	70.5	70.3
	22	69.4	69.6	69.7	69.8	70.0	70.4	70.6	70.6	70.5	70.2	70.1	70.2	70.3
	23	69.6	69.8	70.2	70.5	70.5	70.2	70.0	70.0	70.1	69.8	69.6	68.9	68.2
	24	66.8	67.0	67.3	67.6	67.6	67.8	67.8	66.8	68.0	67.8	67.7	67.4	67.1
	25	67.2	67.8	68.2	68.9	69.3	69.5	69.6	69.6	69.6	69.6	69.4	69.5	69.2
	26	69.6	69.8	70.5	70.8	71.3	71.6	71.8	72.0	72.0	72.1	72.1	71.8	71.6
	27	—	—	—	—	—	—	—	—	—	—	—	—	71.6
	28	71.8	72.4	72.8	73.1	73.3	73.4	73.1	73.0	72.7	72.5	72.2	72.0	71.9
Hourly Means	70.07	70.35	70.77	71.05	71.35	71.47	71.57	71.53	71.43	71.23	70.99	70.83	70.55	

^a New adjustment.

HORIZONTAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
FEBRUARY.	1 ^a	60.9	58.1	60.6	59.9	63.2	67.0	70.0	70.0	63.5	58.3	52.2	59.40
	2	60.8	60.2	60.0	61.1	61.7	63.5	66.1	70.6	65.6	63.6	67.0	59.64
	3	58.6	59.8	59.7	59.6	60.3	61.8	64.0	63.0	59.6	59.0	59.0	58.37
	4	59.1	58.6	58.2	57.7	59.9	61.6	60.3	60.6	54.3	49.5	49.0	55.74
	5	—	—	—	—	—	—	—	—	—	—	—	57.23
	6	57.4	64.3	63.0	63.5	62.7	62.0	61.1	58.2	55.6	54.7	57.6	
	7	53.0	58.0	56.7	58.1	58.6	60.6	59.7	54.3	49.2	42.2	45.7	54.96
	8	56.1	54.5	54.2	54.4	56.0	57.7	58.6	56.1	48.9	44.4	43.8	52.79
	9	51.8	51.5	50.8	51.3	51.4	53.9	57.9	59.0	55.0	51.7	45.6	51.68
	10	49.6	51.0	51.8	52.1	54.6	54.7	57.8	57.0	49.7	46.2	44.7	48.88
	11	55.7	55.9	56.8	56.6	54.2	54.7	55.2	62.5	58.6	55.4	55.7	55.27
	12	—	—	—	—	—	—	—	—	—	—	—	54.03
	13	53.2	44.7	54.0	53.8	54.2	54.3	55.7	58.6	56.1	46.3	45.4	
	14	51.6	51.7	50.3	51.5	53.4	54.7	57.6	57.8	58.0	54.6	47.5	51.46
	15	56.5	55.1	55.9	56.9	58.2	57.7	57.0	57.8	55.9	53.1	48.8	53.36
	16	52.3	62.4	58.3	55.0	56.3	50.9	50.4	55.9	57.3	53.7	49.9	51.95
	17	46.5	46.8	46.4	49.1	50.2	50.0	53.5	53.1	51.1	46.1	46.5	48.88
	18	45.0	44.6	42.5	46.4	47.5	49.2	51.3	52.7	53.2	51.3	44.9	48.18
	19	—	—	—	—	—	—	—	—	—	—	—	46.43
	20	48.6	42.6	48.5	49.0	50.3	52.2	53.7	56.3	52.7	47.2	45.1	
	21	48.1	48.9	49.2	48.3	49.4	52.9	55.5	57.7	56.9	41.4	42.3	48.82
	22	50.4	49.1	48.3	48.8	49.2	51.2	54.1	54.5	50.2	38.8	36.4	47.81
	23	49.9	50.6	50.8	47.8	50.6	53.0	57.0	55.9	51.1	39.8	37.6	47.60
	24	38.1	52.0	49.1	49.9	50.0	52.2	52.6	54.9	51.3	47.8	43.3	56.37
	25	48.8	50.5	50.1	50.4	51.0	52.9	55.6	57.1	53.6	49.1	37.9	48.59
	26	—	—	—	—	—	—	—	—	—	—	—	44.82
	27	46.4	46.0	44.0	42.8	44.3	47.6	51.2	49.7	46.9	43.4	36.7	
	28	45.7	42.6	47.2	46.8	47.7	45.5	49.8	52.0	50.6	47.5	41.3	42.80
Hourly Means	51.84	52.48	52.77	52.95	53.95	55.08	56.90	57.72	54.37	49.38	46.83	51.88	

TEMPERATURE OF THE MAGNET.

FEBRUARY.	1	68.9	68.8	68.7	68.6	68.5	67.8	67.8	68.0	68.4	68.7	68.9	69.24	
	2	69.1	68.8	68.8	68.5	67.9	67.8	67.7	67.7	67.8	68.0	68.3	69.07	
	3	69.2	69.1	69.1	68.9	68.7	68.6	68.6	68.7	68.8	68.8	69.1	69.6	69.15
	4	69.5	69.3	69.6	69.4	68.8	68.7	68.5	68.8	68.8	68.8	69.1	69.2	69.95
	5	—	—	—	—	—	—	—	—	—	—	—	—	69.45
	6	69.0	68.8	69.0	68.7	68.5	68.4	68.5	68.6	68.7	68.8	69.2	69.2	
	7	70.6	70.6	70.7	70.6	70.3	70.2	70.3	70.3	70.5	70.6	71.1	71.1	70.64
	8	72.0	71.8	71.8	71.6	71.6	71.2	71.1	71.1	71.3	71.5	72.0	72.0	72.06
	9	73.8	73.8	73.6	73.3	72.7	72.5	72.5	72.3	72.6	72.6	72.9	72.9	73.35
	10	74.1	73.8	73.6	73.4	72.8	72.0	71.8	71.3	71.3	71.3	71.3	71.3	73.60
	11	68.8	68.6	68.6	68.1	67.8	67.7	67.5	67.5	67.6	67.8	67.9	67.9	69.53
	12	—	—	—	—	—	—	—	—	—	—	—	—	69.47
	13	70.3	70.3	70.4	70.1	69.8	69.7	69.6	69.7	70.2	70.5	70.8	70.8	
	14	71.3	70.9	71.0	70.8	70.6	70.4	70.0	69.7	69.3	69.3	69.1	69.1	71.38
	15	67.0	67.0	66.6	66.6	66.1	66.0	66.0	66.0	66.4	66.7	67.0	67.0	67.70
	16	69.8	69.7	70.0	69.6	69.1	68.9	68.9	69.1	69.4	69.8	70.3	70.3	69.85
	17	72.9	72.6	72.6	72.1	71.6	71.4	71.2	71.1	71.2	71.5	71.8	71.8	72.56
	18	73.8	73.6	73.7	73.3	72.9	72.8	72.6	72.6	73.0	73.2	73.4	73.4	73.74
	19	—	—	—	—	—	—	—	—	—	—	—	—	72.87
	20	71.0	70.8	71.0	70.9	70.8	70.6	70.5	70.5	70.5	70.5	70.6	70.6	
	21	70.2	69.9	70.1	69.8	69.4	9.1	68.9	68.8	68.9	69.0	69.1	69.1	70.40
	22	70.3	70.4	70.4	70.3	70.3	69.9	69.6	69.5	69.5	69.5	69.5	69.5	70.03
	23	67.7	67.3	67.4	66.8	66.6	66.1	66.8	65.6	65.7	65.8	66.3	66.3	68.31
	24	67.1	66.8	66.7	66.6	66.6	66.1	65.9	66.1	66.0	66.2	66.6	66.6	66.98
	25	69.1	69.0	69.0	68.8	68.8	68.6	68.3	68.2	68.3	68.6	68.9	68.9	68.87
	26	—	—	—	—	—	—	—	—	—	—	—	—	71.09
	27	71.5	71.4	71.3	70.8	70.4	70.4	70.2	70.4	70.6	70.9	71.3	71.3	
	28	71.8	72.2	72.2	71.8	71.6	71.1	71.3	71.6	71.8	71.8	72.1	72.1	72.23
Hourly Means	70.37	70.21	70.25	69.98	69.68	69.42	69.34	69.30	69.44	69.62	69.88	69.88	70.48	

* New adjustment.

VERTICAL FORCE.														
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^h .	
MARCH.	1	35.6	30.5	33.3	41.9	43.3	41.1	40.7	40.3	40.4	40.9	46.1	42.0	41.9
	2	30.2	30.6	33.4	36.1	40.3	39.2	40.8	42.4	37.1	39.8	40.2	40.8	40.6
	3	33.9	29.1	29.7	36.1	39.5	41.4	41.6	40.8	40.2	41.4	42.0	41.6	41.3
	4	39.0	35.9	36.2	38.8	39.1	43.5	43.8	44.5	42.1	41.1	42.1	44.2	45.1
	5	37.6	36.7	38.5	40.4	44.1	47.4	49.9	45.0	42.1	46.8	46.3	44.6	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	46.7
	7	38.4	40.1	41.4	42.6	43.7	42.8	42.4	44.0	43.4	45.3	44.4	43.3	43.1
	8	37.9	37.9	39.6	42.1	44.6	43.7	42.4	42.2	42.2	43.7	43.5	42.4	44.5
	9	33.1	33.9	35.4	38.2	40.1	44.6	43.1	42.7	42.8	44.1	40.7	41.4	41.5
	10	36.4	37.5	38.8	41.1	42.6	41.8	41.5	41.7	40.2	40.2	40.6	40.7	41.0
	11	28.7	31.9	35.9	38.4	40.6	40.0	40.1	39.7	39.4	38.8	39.3	40.0	39.4
	12	29.6	31.2	34.3	37.0	38.4	38.3	38.3	39.0	38.3	37.5	37.7	37.8	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	40.3
	14	33.7	34.2	34.3	35.8	38.5	39.9	40.5	40.5	41.1	40.8	41.2	41.6	42.3
	15	32.4	32.1	33.5	36.8	40.9	42.4	43.0	43.2	43.8	54.2	54.4	50.9	47.0
	16	31.8	30.8	31.6	34.7	40.1	47.3	44.0	53.3	51.7	48.6	53.9	39.9	39.8
	17	32.8	31.2	32.7	35.4	38.4	40.2	39.9	38.9	38.6	37.0	39.3	40.6	41.2
	18	30.4	31.5	34.1	38.0	41.0	41.7	40.7	40.3	40.3	40.0	41.7	40.1	40.5
	19	33.0	36.1	43.3	44.4	45.6	45.6	46.1	45.2	46.2	46.2	48.1	43.2	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	40.8
	21	33.4	34.2	35.4	39.8	42.5	43.3	41.8	41.8	43.1	44.8	42.7	41.4	42.5
	22	32.0	34.9	39.0	41.2	43.8	45.2	48.8	44.7	44.8	43.8	44.2	43.1	42.3
	23	36.0	35.9	37.6	43.1	42.6	39.6	38.2	38.2	39.5	41.4	48.0	44.4	43.8
	24	35.1	36.2	34.3	36.2	37.9	40.0	41.3	40.9	41.8	34.8	39.7	42.7	41.1
	25	33.6	35.5	39.1	41.4	46.7	42.1	40.4	42.3	42.5	42.5	42.3	40.7	42.7
	26	23.8	28.2	34.1	38.6	43.7	40.8	39.9	40.0	39.6	39.6	39.5	40.2	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	42.5
	28	34.0	36.6	40.9	42.9	45.0	41.3	40.7	41.6	41.4	40.6	42.7	41.1	39.9
	29	30.6	34.1	34.9	37.5	41.2	42.7	45.1	46.7	44.0	41.6	39.1	39.8	39.6
	30	28.7	32.1	38.6	40.4	41.4	43.1	44.1	39.3	41.5	39.8	38.3	34.0	40.7
	31	29.0	31.9	35.5	36.3	40.5	41.1	39.8	38.1	39.2	40.5	41.5	40.5	40.0
Hourly Means	32.99	33.73	36.13	39.08	41.71	42.23	42.18	42.12	41.75	42.07	42.94	41.59	41.93	

TEMPERATURE OF THE MAGNET.														
MARCH.	1	72.6	73.0	73.6	74.1	74.2	74.3	74.4	74.3	74.2	74.2	73.8	74.0	73.8
	2	73.5	73.6	74.1	74.6	74.9	74.9	74.8	74.8	74.8	74.7	74.3	74.0	73.8
	3	71.2	71.7	72.2	72.2	73.3	73.4	73.8	73.8	73.8	73.8	73.7	73.3	73.0
	4	71.5	71.6	71.8	72.3	72.5	72.6	72.8	72.7	72.6	72.6	72.6	72.0	71.9
	5	71.1	71.3	71.6	71.8	72.1	72.2	72.4	72.4	72.3	71.8	71.7	71.6	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	67.8
	7	69.0	69.4	69.8	70.4	70.8	71.0	71.5	71.5	71.5	71.5	71.2	71.2	70.9
	8	70.5	70.8	70.9	71.2	71.3	71.1	71.0	70.8	70.6	70.3	70.1	70.1	70.1
	9	69.8	70.2	70.4	70.7	70.9	70.9	70.8	70.9	70.9	70.8	70.7	70.3	69.9
	10	69.0	69.4	69.8	70.0	70.8	70.8	70.9	71.0	71.0	70.9	70.8	70.7	70.6
	11	70.1	70.5	71.0	71.6	72.0	72.6	72.8	72.8	72.6	72.1	71.9	71.7	71.3
	12	70.2	70.7	71.0	71.6	72.0	72.3	72.3	72.3	72.1	72.1	71.8	71.4	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	70.6
	14	69.5	69.6	69.5	69.6	69.6	69.5	69.3	68.9	68.7	68.0	67.8	67.6	67.5
	15	67.5	67.7	68.0	68.2	68.1	67.9	67.7	67.5	67.3	67.0	67.1	67.1	67.1
	16	67.0	67.4	67.6	67.9	68.2	68.5	68.7	69.0	68.8	68.8	68.8	68.8	68.6
	17	68.3	68.7	69.2	69.7	70.0	70.1	70.0	69.9	69.8	69.6	69.3	69.0	68.8
	18	67.2	67.3	67.4	67.6	67.7	68.0	68.0	67.9	67.9	68.0	67.8	67.8	67.6
	19	67.5	67.7	67.9	68.3	68.4	68.5	68.5	68.4	68.3	67.8	67.7	67.5	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	67.4
	21	66.1	66.4	66.6	66.7	66.6	66.6	66.5	66.5	66.5	66.4	66.3	66.0	65.8
	22	64.1	64.2	64.4	64.7	65.0	65.2	65.2	65.2	65.0	64.7	64.8	65.1	65.1
	23	65.3	65.6	65.9	65.9	66.0	66.3	66.5	66.7	66.7	66.8	66.8	66.8	66.9
	24	66.9	67.0	67.1	67.1	67.0	66.8	66.8	66.7	66.7	66.4	66.3	65.8	65.0
	25	64.3	64.5	64.7	64.9	65.0	65.1	65.0	64.9	64.8	64.6	64.3	64.2	64.3
	26	63.8	64.3	64.5	64.9	65.4	65.6	66.0	66.1	66.0	65.9	65.8	65.8	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	64.8
	28	65.2	65.3	65.5	65.4	65.4	64.9	64.9	64.8	64.7	64.6	64.4	64.2	64.2
	29	64.3	64.5	64.8	65.3	65.5	65.5	65.3	65.0	64.9	64.7	64.3	64.4	64.3
	30	64.3	64.6	64.6	64.9	65.0	65.2	65.4	65.5	65.6	65.5	65.4	65.0	64.5
	31	63.8	64.0	64.5	65.0	65.5	65.5	65.5	65.5	65.4	65.3	65.0	65.0	65.0
Hourly Means	67.91	68.18	68.46	68.76	69.01	69.08	69.14	69.10	69.02	68.85	68.67	68.53	68.18	

VERTICAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MARCH.	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	43.2	41.8	42.2	42.2	41.9	41.4	44.2	45.7	44.0	38.7	33.4	40.70
	2	40.6	40.9	41.1	41.5	41.9	45.6	46.1	47.1	44.8	38.6	37.2	39.87
	3	40.7	39.9	41.0	41.7	41.8	43.2	45.7	45.5	42.7	39.2	39.7	39.99
	4	41.0	39.7	40.0	41.2	44.8	42.7	45.1	45.9	43.6	40.5	37.6	41.56
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	44.7	47.4	47.0	47.7	47.4	49.2	50.4	50.5	46.8	39.4	37.8	44.77
	7	43.2	41.2	41.3	42.7	43.9	46.0	50.8	50.3	40.5	39.1	38.8	43.03
	8	43.3	43.0	42.8	42.9	43.0	46.1	50.6	50.2	40.0	32.1	32.0	42.20
	9	41.5	41.7	41.3	41.6	42.7	44.8	46.1	45.0	40.4	36.0	35.6	40.76
	10	40.9	41.0	41.0	41.2	41.3	42.6	43.9	43.9	39.7	33.4	28.9	40.08
	11	39.7	37.5	39.0	40.9	40.7	41.7	43.1	42.2	38.3	30.8	28.9	38.12
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	41.8	40.3	40.7	40.3	39.6	38.9	41.5	40.5	38.7	35.7	33.6	37.89
	14	42.9	43.1	41.6	41.7	42.1	44.4	45.3	44.7	41.9	37.5	33.4	40.12
	15	42.2	41.4	40.7	39.4	40.4	39.5	44.4	44.6	41.6	38.0	34.9	41.74
	16	42.8	39.2	38.5	39.3	41.0	42.5	43.2	46.1	45.7	42.6	36.0	41.85
	17	40.7	38.6	39.2	39.7	40.5	41.8	45.1	45.2	42.8	37.8	33.8	38.81
	18	40.8	41.2	40.7	40.6	40.6	40.9	43.7	44.3	39.8	37.5	31.6	39.25
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	36.7	40.7	42.6	41.8	40.5	40.6	39.9	42.4	41.0	36.8	35.3	41.75
	21	39.1	41.1	42.3	43.1	43.1	44.0	43.6	43.9	41.0	35.0	31.8	40.61
	22	42.5	43.4	41.9	42.8	39.0	38.7	39.1	41.0	40.4	35.7	33.1	41.02
	23	43.1	39.2	41.4	41.3	39.2	40.5	43.2	42.5	38.0	33.9	34.1	40.20
	24	38.6	40.2	40.7	41.6	42.1	43.6	45.9	44.1	41.2	36.3	33.1	39.56
	25	42.1	41.5	42.2	42.0	42.5	44.7	47.1	45.5	39.0	30.8	25.0	40.59
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	37.7	39.1	41.6	42.5	40.4	39.9	41.3	44.1	38.5	31.9	30.5	38.25
	28	39.0	39.3	41.1	38.6	41.4	43.1	43.3	43.1	39.5	37.1	31.4	40.23
	29	41.0	37.6	38.4	38.8	38.9	39.8	43.2	44.1	43.1	37.4	31.3	39.60
	30	39.1	40.8	38.9	39.2	42.1	44.2	44.6	42.0	38.8	34.9	29.2	38.99
31	39.4	39.4	38.7	39.7	40.0	40.0	42.2	43.1	40.0	35.2	27.1	38.28	
Hourly Means	41.05	40.71	41.03	41.33	41.60	42.61	44.54	44.72	41.18	36.37	33.15	40.36	

TEMPERATURE OF THE MAGNET.

MARCH.	1	73.8	73.7	73.6	73.3	73.4	73.3	72.7	72.7	72.8	73.0	73.2	73.54
	2	73.6	73.2	72.8	72.5	71.5	71.1	70.8	70.6	70.6	70.7	70.8	73.13
	3	72.8	72.8	72.6	72.4	71.9	72.0	71.6	71.1	71.1	71.2	71.3	72.50
	4	71.8	71.7	71.5	71.3	71.4	71.2	71.0	71.0	70.9	70.9	71.0	71.79
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	67.8	67.8	67.7	67.6	67.4	67.6	67.6	67.4	67.8	68.1	68.5	69.81
	7	70.7	70.6	70.2	70.0	69.9	70.0	69.8	69.7	69.8	70.0	70.3	70.45
	8	70.1	69.8	69.8	69.6	69.3	69.0	69.0	68.8	69.0	69.3	69.6	70.09
	9	69.6	69.4	69.2	68.8	68.4	68.4	68.1	67.9	68.1	68.3	68.7	69.67
	10	70.5	70.3	69.9	69.6	69.5	69.4	68.8	68.8	69.0	69.2	69.6	70.01
	11	71.1	70.9	70.7	70.1	69.7	69.9	69.4	69.1	69.3	69.5	69.8	70.94
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	70.4	70.1	70.0	69.8	69.6	69.6	69.3	69.0	69.1	69.2	69.3	70.66
	14	67.2	66.8	66.8	66.7	66.5	66.8	66.7	66.6	66.7	66.8	67.0	67.90
	15	66.9	66.9	67.0	66.9	66.7	66.6	66.2	66.2	66.3	66.5	66.7	67.13
	16	68.3	68.0	67.8	67.7	67.6	67.8	67.5	67.4	67.5	67.7	68.1	68.06
	17	68.7	68.6	68.5	68.1	67.8	67.8	67.6	67.3	67.2	67.2	67.1	68.68
	18	67.5	67.2	67.1	67.0	67.0	67.4	67.1	67.0	67.0	67.0	67.3	67.45
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	67.0	66.8	66.4	66.1	66.0	66.0	65.8	65.7	65.7	65.8	65.9	67.13
	21	65.3	65.3	64.9	64.7	64.2	64.0	63.7	63.6	63.4	63.8	63.9	65.45
	22	65.1	65.0	65.0	65.1	65.1	65.1	64.8	64.5	64.6	64.7	65.0	64.86
	23	66.8	66.9	66.9	66.9	66.9	66.9	66.8	66.8	66.8	66.8	66.8	66.56
	24	64.8	64.6	64.1	63.9	63.9	64.1	63.8	63.7	63.8	63.9	64.0	65.43
	25	64.1	63.8	63.7	63.6	63.0	63.3	63.0	62.8	62.8	63.1	63.5	64.05
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	64.8	65.0	64.9	64.8	64.8	64.8	64.8	64.7	65.0	65.0	65.1	65.11
	28	64.1	64.0	63.8	63.6	63.8	64.0	63.8	63.8	63.7	63.8	64.1	64.42
	29	64.0	63.9	63.9	63.9	64.0	64.0	63.8	63.7	63.8	63.9	64.0	64.40
	30	64.1	63.9	63.7	63.5	63.4	63.7	63.4	63.2	63.2	63.3	63.5	64.35
	31	64.8	64.7	64.6	64.4	64.2	64.5	64.4	64.3	64.6	64.7	65.0	64.80
Hourly Means	67.99	67.84	67.67	67.48	67.29	67.34	67.09	66.94	67.02	67.15	67.37	68.09	

VERTICAL FORCE.														
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^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.	
APRIL.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	—	—	55.0	58.2	60.9	68.3	63.7	63.3	63.7	63.0	64.0	64.6	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	56.9	58.0	59.5	60.1	65.0	68.7	70.9	65.3	64.7	64.2	66.0	66.0	66.0
	5	56.4	58.1	60.9	65.2	66.5	66.4	66.5	65.3	67.6	74.3	70.7	67.6	66.6
	6	58.5	62.1	62.5	64.3	65.5	66.7	65.6	65.4	65.9	65.7	66.6	67.5	64.8
	7	54.3	54.4	57.9	60.4	62.7	64.4	64.3	63.8	64.7	64.2	64.0	65.1	62.1
	8	51.9	54.8	58.7	59.2	59.9	58.9	59.9	60.6	60.9	63.1	65.1	64.0	64.8
	9	50.9	53.4	55.1	58.0	62.2	63.3	63.6	62.9	62.9	62.3	62.9	64.0	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	63.2
	11	59.2	57.9	62.4	63.1	64.2	62.5	62.5	61.0	58.3	57.4	56.3	58.5	56.3
	12	55.9	62.6	66.8	62.8	63.8	59.7	59.5	60.3	61.0	61.2	61.4	55.8	53.4
	13	58.5	60.9	66.4	71.0	62.2	56.0	58.2	63.6	53.9	57.1	58.7	59.1	58.7
	14	46.1	53.3	58.6	61.8	63.6	62.4	63.1	61.8	61.5	61.5	61.9	61.2	59.6
	15 ^b	56.5	55.4	58.5	62.4	71.6	68.5	65.8	67.3	66.2	59.0	55.2	58.2	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	—
	19 ^{ab}	—	—	—	—	—	—	—	—	—	—	—	—	49.1
	20	43.4	49.4	51.8	50.3	50.9	52.7	53.9	49.3	49.8	50.5	49.4	49.1	48.5
	21	48.1	48.8	49.4	51.9	55.8	54.5	50.5	53.4	50.6	47.5	50.6	49.8	—
	22 ^a	—	—	—	—	—	—	—	—	—	—	—	—	50.0
	23	44.9	50.6	52.6	53.6	54.0	54.1	52.9	52.8	52.8	54.4	55.2	53.6	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	56.0
	25	47.2	49.0	52.2	53.9	54.9	54.5	52.7	53.4	52.7	53.1	53.3	53.2	52.6
	26	40.1	45.9	48.6	51.1	52.9	51.5	51.4	50.4	49.8	50.0	53.3	51.8	50.7
	27	44.3	48.1	48.7	50.0	48.5	50.7	52.1	52.2	56.3	53.3	49.2	50.0	50.0
	28	41.8	41.5	44.2	46.6	46.5	50.0	51.0	49.6	48.3	48.4	47.8	47.5	48.3
	29	40.6	45.2	48.5	46.0	49.5	52.3	53.5	54.9	56.0	61.1	57.4	53.9	49.9
Hourly Means	49.94	53.00	55.78	57.24	58.40	58.82	58.73	58.38	57.97	58.54	58.62	58.02	56.92	
TEMPERATURE OF THE MAGNET.														
APRIL.	1	°	°	°	°	°	°	°	°	°	°	°	°	
	2	—	—	68.2	68.6	69.1	69.3	69.5	69.5	69.5	69.5	69.5	69.3	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	68.8
	4	67.3	67.3	67.4	67.4	67.4	67.0	66.8	66.7	66.5	66.1	65.9	65.8	65.5
	5	65.2	65.3	65.5	65.7	65.7	65.6	65.6	65.5	65.3	65.1	65.1	65.2	65.2
	6	64.0	64.3	64.6	64.8	64.9	64.9	65.5	65.5	65.5	65.1	65.0	64.5	64.4
	7	63.9	64.4	64.9	65.4	66.0	65.9	66.0	66.0	66.0	66.0	66.0	65.9	65.7
	8	66.0	66.3	66.7	67.2	67.7	68.0	68.0	68.0	68.0	67.8	67.7	67.5	67.4
	9	66.4	66.4	66.7	66.8	66.8	66.8	66.6	66.5	66.3	65.8	65.6	65.1	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	64.4
	11	65.1	65.6	66.0	66.7	67.3	67.6	68.0	68.1	68.2	68.4	68.3	68.2	67.8
	12	67.3	67.8	68.3	68.5	68.7	68.9	69.1	69.3	69.3	69.3	69.3	69.3	69.8
	13	69.2	69.2	69.3	69.4	69.5	69.6	69.7	69.7	69.6	69.7	69.8	69.6	69.2
	14	67.0	67.0	67.0	67.1	67.1	67.0	67.0	67.0	67.0	66.8	66.8	66.6	66.6
	15 ^b	67.7	68.0	68.2	68.5	68.6	68.8	68.9	69.0	68.7	68.8	68.8	68.8	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	—
	19 ^b	—	—	—	—	—	—	—	—	—	—	—	—	71.0
	20	69.4	69.6	69.7	69.8	69.9	70.0	70.1	70.1	70.1	70.0	70.1	70.0	69.9
	21	69.5	69.7	69.9	70.0	70.1	70.1	70.5	70.3	70.1	69.9	69.8	69.3	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	68.1
	23	67.1	67.2	67.4	67.5	67.4	67.2	67.0	66.6	66.6	66.1	66.0	65.8	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	63.8
	25	63.7	64.1	64.7	65.4	65.7	65.8	65.8	65.8	65.7	65.6	65.6	65.5	65.3
	26	65.5	65.8	66.1	66.6	67.1	67.2	67.8	67.8	67.7	67.6	67.3	67.6	67.6
	27	67.1	67.6	67.8	68.3	68.8	69.0	69.3	69.5	69.5	69.4	69.2	68.8	68.4
	28	68.1	68.6	68.9	69.3	69.6	69.6	69.4	69.5	69.5	69.3	69.3	69.1	69.1
	29	68.4	68.6	68.6	68.6	68.6	68.5	68.3	68.0	67.8	67.8	67.8	67.7	67.6
Hourly Means	66.68	66.93	67.25	67.53	67.76	67.79	67.89	67.86	67.80	67.65	67.58	67.41	67.08	

^a New adjustment.

^b Omitted in the means.

VERTICAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	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.
1	—	—	—	—	—	—	—	—	—	—	—	—
2 ^a	—	—	—	—	—	—	—	—	—	—	—	—
3	59.7	60.9	60.6	61.4	60.8	60.9	61.9	63.3	62.1	57.4	55.0	61.30
4	66.0	65.2	55.8	64.5	65.8	66.7	67.5	67.0	66.2	63.3	59.2	64.10
5	61.0	66.4	67.4	67.1	69.9	64.6	66.1	66.4	67.1	61.2	58.8	65.34
6	66.3	67.1	66.7	66.6	66.2	66.0	65.7	67.2	67.3	61.5	57.2	64.95
7	63.8	61.7	63.8	64.1	63.6	64.0	64.7	66.7	64.9	58.5	53.4	62.15
8	63.0	62.9	61.0	60.1	60.1	61.2	62.0	63.1	61.4	58.1	54.6	60.39
9	—	—	—	—	—	—	—	—	—	—	—	—
10	66.4	64.0	64.8	63.5	64.5	64.2	66.2	69.5	66.5	64.8	61.2	62.51
11	56.8	60.8	58.4	57.6	58.6	59.3	62.3	65.0	63.4	59.3	56.0	59.88
12	51.8	51.6	55.5	55.9	55.7	56.6	56.9	57.0	61.9	59.5	60.8	58.64
13	58.3	57.4	57.0	57.3	57.4	57.9	57.7	58.6	57.1	52.0	51.9	58.62
14	54.2	59.1	58.1	57.0	55.4	57.8	70.4	71.4	67.5	66.6	67.3	60.88
15 ^b	—	—	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—
19 ^{ab}	49.3	49.6	49.6	48.4	50.0	48.5	49.1	52.3	52.9	50.6	46.9	—
20	47.4	44.8	49.7	52.9	48.0	50.3	51.8	54.0	54.9	50.9	46.1	49.99
21	—	—	—	—	—	—	—	—	—	—	—	—
22 ^a	49.6	49.6	49.8	50.5	47.7	49.5	51.6	55.2	54.0	51.2	45.0	50.61
23	—	—	—	—	—	—	—	—	—	—	—	—
24	55.2	55.3	55.7	56.3	56.2	54.3	57.1	60.8	60.2	55.1	48.9	54.28
25	52.3	53.1	52.5	52.7	51.9	55.4	55.4	59.0	55.2	44.3	41.3	52.33
26	50.1	48.7	49.7	49.1	46.1	48.7	48.7	54.0	48.7	42.4	39.2	48.87
27	50.5	50.0	49.5	49.3	49.3	48.0	49.7	52.6	51.9	48.6	44.7	49.90
28	48.8	48.5	48.3	48.0	47.7	46.4	48.3	53.4	53.9	50.1	44.6	47.90
29	48.8	50.1	50.4	50.8	49.8	50.1	51.3	55.3	54.7	54.7	49.1	51.41
Hourly Means	56.32	56.70	56.56	57.09	56.56	56.94	58.70	61.03	59.94	55.76	52.33	57.04

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
1 ^a	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	68.8	68.6	68.3	68.3	68.1	68.3	67.9	67.6	67.4	67.3	67.3	68.58
4	65.3	65.3	65.2	65.1	65.0	65.3	65.1	64.9	65.0	65.0	65.1	65.98
5	65.0	65.1	65.0	64.8	64.7	64.7	64.1	63.8	63.7	63.8	63.9	64.94
6	64.1	63.8	63.7	63.5	63.3	63.6	63.1	63.0	63.1	63.4	63.7	64.22
7	65.6	65.6	65.4	65.2	65.0	65.1	64.9	65.0	65.2	65.3	65.6	65.42
8	67.0	66.8	66.6	66.3	66.3	66.5	66.2	66.0	65.8	65.9	66.1	66.91
9	—	—	—	—	—	—	—	—	—	—	—	—
10	64.2	64.3	64.1	63.9	63.7	63.9	63.9	63.7	64.0	64.3	64.6	65.20
11	67.5	67.0	66.8	66.7	66.7	66.8	66.7	66.6	66.6	66.6	66.9	67.09
12	70.0	70.0	69.4	69.1	69.2	69.2	69.2	68.8	68.8	68.9	69.1	69.03
13	68.8	68.6	68.1	68.1	67.8	67.8	67.5	67.1	67.0	66.9	66.9	68.67
14	66.6	66.4	66.4	66.3	66.5	66.6	66.7	66.8	67.0	67.2	67.5	66.83
15 ^b	—	—	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—
19 ^b	70.9	70.9	70.9	70.8	70.6	70.3	69.3	69.3	69.4	69.5	69.3	—
20	69.7	69.5	69.5	69.4	69.5	69.6	69.5	69.1	69.0	69.0	69.3	69.66
21	—	—	—	—	—	—	—	—	—	—	—	—
22	68.1	68.0	67.8	67.8	67.6	67.5	67.3	67.1	67.1	67.0	67.1	68.74
23	—	—	—	—	—	—	—	—	—	—	—	—
24	63.7	63.6	63.5	63.1	62.6	62.9	62.6	62.5	62.6	62.8	63.3	64.95
25	65.0	64.9	64.6	64.8	64.7	64.6	64.3	64.1	64.3	64.7	65.0	64.99
26	67.5	67.5	67.4	67.3	67.1	67.0	66.7	66.3	66.3	66.5	66.7	67.00
27	68.2	68.0	67.9	67.8	67.7	67.6	67.5	67.4	67.5	67.6	67.9	68.21
28	68.9	68.8	68.8	68.6	68.6	68.3	68.2	68.1	68.1	68.2	68.2	68.84
29	67.2	67.0	66.7	66.4	66.6	66.2	66.0	66.0	65.9	66.0	66.0	67.35
Hourly Means	66.90	66.78	66.59	66.45	66.35	66.40	66.18	65.99	66.02	66.13	66.33	66.97

^a New adjustment.

Omitted in the means.

VERTICAL FORCE.													
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.													
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 .	12 ^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.
April 30	46.3	49.2	51.3	45.9	55.4	54.8	55.3	55.2	53.4	52.1	51.5	51.8	—
1	—	—	—	—	—	—	—	—	—	—	—	—	53.8
2	47.2	48.2	50.6	53.3	51.0	53.5	53.2	53.5	54.4	53.8	53.3	53.0	53.4
3	47.2	48.1	51.3	51.9	55.8	56.2	54.7	54.2	54.2	54.3	53.3	51.1	49.7
4	40.1	41.7	47.2	48.3	46.5	47.4	47.2	49.7	50.4	50.0	51.3	51.2	51.7
5	47.5	50.0	50.9	53.1	56.5	55.1	54.9	54.4	54.2	53.4	52.9	50.4	54.3
6	52.2	50.7	50.5	47.1	57.1	64.1	63.6	61.5	61.2	60.4	57.8	52.8	50.5
7	53.8	51.1	54.6	54.1	55.4	55.8	58.1	56.5	56.6	58.1	52.7	52.4	—
8	—	—	—	—	—	—	—	—	—	—	—	—	50.9
9	43.8	44.7	44.8	47.0	46.9	50.3	50.6	50.6	49.3	49.5	48.1	48.9	48.1
10	39.4	43.4	45.8	47.6	52.0	50.6	51.0	47.9	48.9	50.0	53.4	48.7	47.9
11	45.2	47.5	49.9	52.7	53.4	50.9	50.6	50.0	50.0	49.5	50.5	50.7	50.6
12	48.2	49.4	52.3	52.7	52.8	51.9	52.2	52.1	51.1	50.7	51.4	51.2	51.2
13	52.9	48.3	49.1	49.8	50.6	49.4	51.8	51.9	51.2	51.8	50.6	49.4	49.9
14	46.2	45.1	45.4	47.1	49.8	51.1	51.2	52.3	51.1	50.7	49.7	50.5	—
15	—	—	—	—	—	—	—	—	—	—	—	—	50.1
16	56.8	65.0	68.9	68.2	62.9	60.0	56.7	54.9	54.3	52.7	51.1	52.7	51.2
17	54.6	53.0	52.6	51.8	55.5	60.3	56.2	51.8	53.2	53.4	52.8	51.7	51.0
18	47.5	46.4	49.6	48.6	48.8	49.8	49.8	49.2	50.3	49.3	48.4	49.2	47.3
19	49.3	50.9	54.1	55.7	53.3	53.5	53.8	50.9	50.5	50.5	50.4	50.8	51.0
20	46.1	47.8	48.6	50.2	51.2	50.3	52.3	50.0	50.1	50.5	50.5	50.5	50.0
21	46.5	45.7	45.8	48.3	49.8	50.1	50.7	50.4	50.3	50.4	50.9	49.6	—
22	—	—	—	—	—	—	—	—	—	—	—	—	50.4
23	46.1	49.1	49.0	50.2	50.3	47.8	49.1	49.1	50.1	49.7	50.0	49.9	48.3
24	44.9	43.5	44.7	50.2	50.4	52.3	49.6	49.5	49.7	50.0	49.9	47.9	48.3
25	43.4	44.8	47.6	50.0	50.3	49.4	48.7	48.6	48.7	47.5	49.2	50.6	50.6
26	44.7	45.4	48.7	50.4	53.2	55.1	53.4	52.5	52.2	52.9	52.7	53.0	52.1
27	47.1	47.7	50.3	52.6	53.6	53.8	53.2	53.0	52.9	51.6	52.7	48.9	50.9
28	43.6	42.4	44.9	49.4	49.4	50.3	50.6	50.3	49.3	—	48.6	48.3	—
29	—	—	—	—	—	—	—	—	—	—	—	—	50.7
30	49.1	49.6	49.6	49.9	51.5	51.6	51.5	51.8	51.1	50.6	49.4	50.4	50.2
31	46.8	48.4	50.8	48.4	52.8	51.4	52.2	51.7	51.5	51.1	50.3	50.7	51.4
Hourly Means	47.28	48.04	49.96	50.91	52.45	52.84	52.67	51.98	51.86	51.71	51.24	50.60	50.57
TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	°
April 30	66.1	66.1	66.1	66.1	66.2	66.1	66.0	65.9	65.8	65.8	65.9	65.6	—
1	—	—	—	—	—	—	—	—	—	—	—	—	64.5
2	64.1	64.5	64.8	65.2	65.5	65.6	65.7	65.8	65.7	65.5	65.3	65.0	64.8
3	63.8	64.1	64.5	64.9	65.0	65.2	65.0	65.0	64.9	64.9	64.8	65.1	65.3
4	65.4	65.6	65.9	66.9	66.2	66.6	66.7	66.6	66.5	66.2	66.0	65.8	65.4
5	62.9	63.0	63.1	63.4	63.7	63.6	63.6	63.6	63.5	63.3	63.2	62.9	62.8
6	62.0	62.6	62.8	63.1	63.5	64.3	64.6	64.7	64.7	64.6	64.6	64.7	64.7
7	63.5	64.6	63.8	64.0	64.2	64.0	63.8	63.5	63.2	63.1	63.0	62.9	—
8	—	—	—	—	—	—	—	—	—	—	—	—	65.3
9	66.2	66.5	66.7	66.9	67.6	67.3	67.1	67.0	66.9	66.8	66.8	66.7	66.6
10	65.9	66.0	66.2	66.5	66.6	66.6	66.8	66.8	66.7	66.5	66.3	66.3	66.2
11	65.0	65.0	65.3	65.5	65.5	65.6	65.8	65.7	65.6	65.5	65.6	65.0	64.7
12	62.9	63.1	63.5	63.8	63.9	64.1	64.3	64.3	64.1	64.0	64.0	63.9	63.7
13	63.8	64.0	64.4	64.7	64.8	65.0	64.9	64.8	64.6	64.6	64.3	64.1	63.9
14	63.2	63.5	63.7	64.3	64.4	64.5	64.5	64.5	64.4	64.1	64.0	63.9	—
15	—	—	—	—	—	—	—	—	—	—	—	—	63.3
16	62.9	62.9	62.7	62.9	63.2	63.5	64.0	63.7	63.8	63.8	63.8	63.2	63.2
17	62.6	62.9	63.3	63.6	63.6	63.7	63.6	63.6	63.4	63.3	63.4	63.7	63.8
18	63.8	63.8	64.1	64.6	64.8	65.2	65.2	65.3	65.3	65.3	65.2	64.8	64.4
19	63.0	63.3	63.5	63.8	64.1	64.0	64.2	64.2	63.9	63.9	63.8	63.6	63.4
20	62.8	63.1	63.5	63.7	63.8	64.0	63.9	63.8	63.8	63.8	63.7	63.6	63.5
21	62.8	63.2	63.3	63.7	64.2	64.2	64.3	64.2	64.0	63.8	63.5	63.2	—
22	—	—	—	—	—	—	—	—	—	—	—	—	62.6
23	61.8	62.0	62.3	62.7	63.0	63.3	63.1	63.3	63.2	63.2	63.5	63.5	63.5
24	63.0	63.0	63.0	63.3	63.3	63.3	63.1	63.2	63.0	62.8	62.8	62.8	63.0
25	62.1	62.3	62.5	62.7	62.9	63.0	63.5	63.7	63.6	63.5	63.1	62.7	62.3
26	61.6	61.5	61.5	61.5	61.4	61.0	60.9	60.8	60.7	60.6	60.3	60.1	59.9
27	59.6	59.8	60.1	60.4	60.4	60.6	60.4	60.4	60.3	60.2	60.3	60.9	61.1
28	61.1	61.2	61.3	61.3	61.6	61.8	62.0	62.2	62.2	—	62.5	61.8	—
29	—	—	—	—	—	—	—	—	—	—	—	—	60.2
30	59.7	59.7	59.5	59.8	59.9	59.7	59.8	59.8	59.7	59.6	59.4	59.3	59.2
31	59.1	59.2	59.5	59.8	59.8	59.9	59.6	59.5	59.4	59.4	59.5	59.7	59.8
Hourly Means	62.99	63.20	63.37	63.67	63.82	63.91	63.94	63.92	63.81	63.77	63.65	63.51	63.37

VERTICAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00035.

Mean Göttingen Time.	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.
April 30	—	—	—	—	—	—	—	—	—	—	—	52.91
1	53.3	53.3	53.6	54.6	53.2	52.0	53.8	58.2	58.0	55.5	48.3	53.13
2	52.9	52.7	53.0	53.0	53.5	50.6	52.5	56.5	60.1	58.6	53.4	51.98
3	49.3	50.1	50.3	49.9	49.4	48.6	49.9	56.1	59.5	55.9	46.5	50.64
4	53.0	53.1	52.6	53.0	53.0	49.9	54.0	57.7	59.7	54.1	52.5	53.85
5	53.9	54.1	53.1	53.4	53.6	51.9	52.8	57.2	59.7	61.3	53.9	54.16
6	48.8	50.2	49.3	49.2	48.9	49.0	50.1	56.6	58.9	56.4	53.0	52.23
7	—	—	—	—	—	—	—	—	—	—	—	48.28
8	49.7	48.7	48.7	48.6	47.5	46.8	48.4	52.5	53.5	52.8	46.3	48.33
9	48.7	47.6	47.9	47.5	46.9	46.9	49.6	52.9	52.9	51.2	44.1	50.65
10	47.4	—	46.3	45.1	49.0	47.6	49.4	54.2	44.3	53.2	48.6	51.31
11	48.4	50.8	52.8	52.6	51.2	49.8	52.5	55.6	53.5	50.4	46.6	50.91
12	51.3	51.0	51.3	50.9	51.0	47.7	49.2	52.6	55.9	54.0	49.3	49.39
13	51.3	52.1	51.8	50.0	51.1	46.7	50.4	53.8	55.5	52.7	49.8	55.52
14	—	—	—	—	—	—	—	—	—	—	—	52.30
MAY. 15	49.4	50.7	49.0	45.9	46.8	47.6	46.3	54.8	53.8	51.8	49.0	49.43
16	52.0	52.0	49.6	53.2	52.3	49.0	49.7	54.2	57.0	59.8	48.2	51.64
17	48.5	48.5	50.6	50.4	48.0	47.8	52.3	53.5	53.7	53.5	50.6	50.37
18	49.1	50.4	49.1	50.1	50.9	49.3	50.7	53.0	52.8	49.8	46.9	50.07
19	50.5	50.5	51.1	52.0	51.1	49.5	50.6	53.9	53.8	52.6	49.0	48.58
20	49.1	50.4	49.8	49.7	49.6	49.3	50.3	54.6	54.7	54.0	49.2	48.20
21	—	—	—	—	—	—	—	—	—	—	—	49.10
22	51.0	50.6	50.4	50.7	49.8	48.3	50.7	54.6	55.3	52.8	48.5	52.24
23	48.9	48.5	48.9	48.2	47.6	46.9	46.7	50.0	51.3	48.9	41.2	50.70
24	47.3	47.2	46.9	47.3	48.4	45.9	45.7	48.0	51.7	51.4	46.2	48.90
25	51.0	50.0	50.3	50.9	50.0	47.6	48.1	51.2	52.7	50.8	46.4	50.19
26	53.0	53.7	52.9	52.5	52.5	50.9	51.1	54.1	57.3	56.3	53.2	50.98
27	49.3	50.6	49.4	48.0	48.0	48.1	50.0	53.7	55.0	49.3	47.1	50.96
28	—	—	—	—	—	—	—	—	—	—	—	50.96
29	50.8	50.7	50.3	50.4	49.8	49.0	49.0	49.2	51.1	48.7	48.0	50.96
30	50.7	51.1	50.5	51.1	50.2	48.9	47.7	51.5	47.0	51.0	48.6	50.96
31	51.2	51.4	51.6	51.1	51.0	49.2	48.1	52.3	55.9	54.4	49.9	50.96
Hourly Means	50.36	50.39	50.41	50.34	50.16	48.70	49.99	53.80	54.61	53.38	48.68	50.96

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
April 30	—	—	—	—	—	—	—	—	—	—	—	65.01
1	64.4	64.3	64.1	64.2	64.2	64.1	64.0	63.6	63.5	63.8	63.9	64.53
2	64.5	64.3	64.0	63.9	63.7	63.9	63.5	63.2	63.3	63.2	63.6	65.02
3	65.3	65.2	65.4	65.4	65.4	65.5	65.6	65.0	65.0	65.0	65.2	64.89
4	64.8	64.4	64.0	63.6	63.3	63.5	63.0	62.6	62.7	62.8	62.8	62.70
5	62.7	62.6	62.2	61.9	61.8	62.0	61.9	61.6	61.6	61.8	62.0	63.80
6	64.6	64.1	63.9	63.7	63.6	63.5	63.4	63.4	63.4	63.3	63.4	64.69
7	—	—	—	—	—	—	—	—	—	—	—	66.48
8	65.5	65.5	65.7	65.8	65.9	66.0	65.9	65.8	65.8	65.8	66.0	65.94
9	66.5	66.4	66.5	66.3	66.2	66.0	65.8	65.7	65.7	65.7	65.7	64.32
10	66.0	—	66.0	65.8	65.7	65.6	65.3	64.7	64.6	64.7	64.8	63.62
11	64.2	63.9	63.5	63.3	63.0	63.0	62.8	62.5	62.5	62.5	62.6	63.90
12	63.6	63.6	63.5	63.5	63.3	63.4	63.3	63.2	63.2	63.3	63.4	63.60
13	63.8	63.6	63.6	63.5	63.3	63.6	63.1	62.8	62.7	62.8	63.0	62.99
14	—	—	—	—	—	—	—	—	—	—	—	63.54
MAY. 15	63.2	63.2	63.2	63.3	63.4	63.2	63.0	63.0	62.8	62.9	62.9	63.99
16	63.0	62.8	62.8	62.6	62.5	62.6	62.5	62.4	62.4	62.2	62.4	63.27
17	63.9	63.9	63.8	63.9	63.9	63.9	63.6	63.4	63.3	63.4	63.5	63.20
18	63.9	63.8	63.7	63.5	63.1	62.9	62.7	62.5	62.4	62.7	62.8	62.71
19	63.2	63.0	63.0	62.9	62.8	62.7	62.5	62.4	62.3	62.4	62.5	63.05
20	63.4	63.3	63.2	63.0	62.8	62.5	62.3	62.0	62.2	62.5	62.7	62.78
21	—	—	—	—	—	—	—	—	—	—	—	62.37
22	62.4	62.5	62.0	61.8	61.5	61.5	61.2	61.0	61.1	61.4	61.6	60.23
23	63.5	63.5	63.2	63.3	63.1	63.2	63.1	63.0	62.9	63.0	63.0	60.77
24	62.9	62.8	62.8	62.6	62.6	62.5	62.5	62.2	62.1	62.0	62.0	60.73
25	62.0	62.0	61.9	61.8	61.7	61.9	61.6	61.5	61.5	61.6	61.5	59.33
26	59.7	59.6	59.6	59.5	59.4	59.6	59.3	59.1	59.2	59.3	59.5	59.58
27	61.2	61.3	61.3	61.3	61.3	61.6	61.6	61.4	61.1	60.9	61.0	59.33
28	—	—	—	—	—	—	—	—	—	—	—	59.58
29	60.1	60.0	59.9	59.8	59.5	59.8	59.8	59.7	59.6	59.7	59.7	59.33
30	59.0	58.9	58.8	59.0	59.1	59.1	59.0	59.0	58.9	58.9	59.0	59.33
31	59.8	59.8	59.8	59.8	59.8	59.8	59.7	59.4	59.2	59.2	59.3	59.58
Hourly Means	63.26	63.01	63.01	62.93	62.77	62.85	62.67	62.45	62.41	62.47	62.59	63.22

VERTICAL FORCE.														
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
JUNE.	1	45.0	46.0	46.0	49.4	51.3	50.4	52.0	52.3	52.6	54.0	51.0	48.2	48.9
	2	52.1	50.6	49.8	55.7	52.2	52.5	52.6	53.3	53.0	53.1	53.1	53.4	53.0
	3	56.8	50.8	52.0	53.3	57.6	59.2	55.6	58.3	56.8	56.0	54.7	51.9	52.6
	4	51.1	51.8	53.5	54.2	44.8	49.6	53.0	68.4	86.8	67.1	58.6	67.9	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	56.7
	6	53.3	54.4	52.6	54.0	55.3	55.4	54.2	54.1	54.7	55.7	56.3	55.7	56.1
	7	52.9	51.0	50.1	50.0	53.2	53.6	53.9	53.2	53.3	53.5	53.5	54.7	53.9
	8	50.1	52.6	55.6	54.7	54.4	53.3	54.8	56.5	56.5	55.8	54.3	53.2	49.8
	9	46.9	50.8	52.4	52.7	53.0	54.2	55.2	56.7	57.4	57.1	56.2	54.3	53.1
	10	46.8	39.4	47.1	51.1	55.0	56.4	54.0	58.8	59.2	58.2	56.0	54.9	55.1
	11	52.7	50.7	50.4	51.1	52.1	53.2	52.0	52.1	50.9	50.9	53.3	53.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	52.9
	13	50.1	48.3	55.0	61.5	55.2	54.3	53.8	53.7	53.2	56.5	55.0	55.2	51.8
	14	54.0	54.9	52.9	52.4	53.1	57.8	56.0	52.4	55.6	56.0	47.5	49.7	52.4
	15	50.3	47.9	46.4	50.8	53.4	52.8	52.4	51.6	51.6	49.8	50.4	50.9	51.0
	16	50.8	51.4	50.5	50.3	53.8	55.2	53.7	53.5	53.2	52.7	51.8	51.8	52.3
	17	50.0	49.3	49.9	50.6	50.8	52.3	50.8	51.5	51.3	51.4	51.1	51.4	51.1
	18	53.2	47.0	47.3	48.2	49.3	49.4	50.3	50.5	50.5	50.3	50.5	51.3	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	51.2
	20	47.5	45.0	43.7	46.7	47.2	46.6	46.3	46.3	47.1	47.7	47.6	47.5	48.5
	21	44.7	44.2	44.9	45.4	46.4	47.0	46.6	47.2	47.5	46.8	46.7	46.0	45.9
	22	44.6	42.5	43.7	45.3	44.3	42.7	41.6	43.8	44.2	43.2	43.1	42.0	40.6
	23	45.6	47.3	46.7	47.0	47.6	47.6	47.2	47.6	49.1	47.9	49.6	43.6	47.2
	24	53.2	50.7	50.4	49.8	50.2	50.1	49.2	50.0	51.2	49.7	50.2	49.8	48.8
	25	45.1	46.8	46.2	47.6	48.2	49.1	49.4	48.8	49.4	50.1	47.2	47.6	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	50.5
	27	49.3	47.8	47.4	49.1	49.6	51.0	50.3	51.8	49.9	49.9	49.5	49.3	49.2
	28	47.9	47.8	46.9	47.6	50.4	50.3	50.6	50.2	50.0	49.6	49.3	48.9	49.8
	29	48.0	47.9	45.6	47.7	49.4	49.4	49.1	49.4	48.6	48.7	47.6	48.2	49.3
	30	52.3	53.7	53.5	54.9	54.3	56.6	56.7	55.8	54.7	54.7	55.9	54.4	55.0
Hourly Means	49.78	48.87	49.25	50.81	51.23	51.92	51.59	52.61	53.40	52.55	51.54	51.36	51.03	
TEMPERATURE OF THE MAGNET.														
JUNE.	1	59.5	59.7	60.0	60.4	60.6	60.8	61.0	61.3	61.3	61.4	61.2	60.9	60.8
	2	59.0	59.0	58.7	58.9	58.9	58.5	58.5	58.3	58.1	57.9	57.7	57.8	57.8
	3	56.4	56.5	56.5	56.7	56.8	57.0	56.8	56.8	56.6	56.3	56.3	56.0	55.9
	4	55.1	55.3	55.6	55.8	56.1	56.0	55.9	55.9	56.4	56.6	56.8	56.8	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	56.4
	6	56.1	56.5	56.8	57.1	57.5	57.5	57.8	57.8	57.8	57.8	57.8	57.6	57.6
	7	57.5	57.8	58.0	58.3	58.3	58.2	58.4	58.4	58.3	58.2	57.9	58.1	58.2
	8	57.5	57.6	57.7	57.7	57.6	58.1	58.1	58.2	58.2	58.1	58.2	57.8	57.8
	9	56.6	56.7	57.4	57.6	58.0	58.2	57.9	57.9	57.8	57.7	57.6	57.4	57.1
	10	55.8	55.8	56.0	56.1	56.4	56.5	56.9	56.7	56.6	56.5	56.5	56.5	56.3
	11	55.9	56.4	56.9	57.6	57.8	58.0	58.0	58.0	58.0	58.0	58.0	57.8	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	57.0
	13	55.6	56.2	56.7	57.0	57.5	57.8	57.8	57.8	57.8	57.7	57.3	57.1	57.1
	14	56.8	57.3	57.5	57.8	58.2	58.5	58.2	58.5	58.5	58.6	58.8	59.1	59.4
	15	59.0	59.1	59.2	59.2	59.0	59.2	59.5	59.3	59.2	59.0	58.8	58.5	57.9
	16	56.5	56.8	57.1	57.5	57.6	57.7	57.7	57.6	57.5	57.3	57.4	57.2	57.2
	17	57.1	57.3	57.9	58.5	58.5	58.5	58.4	58.1	57.9	57.7	57.6	57.5	57.0
	18	56.3	57.0	57.6	58.0	58.6	58.7	58.8	58.8	58.8	58.8	58.8	58.5	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	60.6
	20	60.3	60.5	60.8	61.1	61.4	61.5	61.5	61.5	61.5	61.4	61.2	61.4	61.2
	21	60.5	60.6	60.8	61.0	61.1	61.3	61.2	61.2	61.1	61.2	61.4	61.7	61.8
	22	61.8	61.9	62.1	62.3	62.5	62.8	63.0	63.0	63.0	63.0	62.9	62.8	62.7
	23	61.2	61.3	61.4	61.5	61.3	61.5	61.6	61.6	61.5	61.5	61.6	61.3	61.2
	24	59.8	59.9	59.8	59.8	59.8	59.9	60.0	60.0	59.9	59.9	59.7	59.7	59.7
	25	59.5	59.8	60.0	60.2	60.5	60.5	60.6	60.7	60.6	60.5	60.5	60.3	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	60.3
	27	59.5	59.6	59.7	60.1	60.4	60.4	60.3	60.2	60.1	60.0	60.1	60.2	60.1
	28	59.8	60.0	60.0	60.4	60.6	60.5	60.2	60.2	60.1	60.1	60.1	60.4	60.5
	29	60.8	60.8	61.1	61.2	61.3	61.5	61.6	61.7	61.6	61.5	61.3	60.8	60.3
	30	58.0	58.0	57.9	58.0	58.0	57.8	57.7	57.6	57.1	57.0	56.8	56.6	56.4
Hourly Means	58.15	58.36	58.58	58.84	59.01	59.11	59.13	59.12	59.05	58.99	58.92	58.83	58.78	

VERTICAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JUNE.	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	47.9	47.5	46.4	49.0	47.8	47.2	47.2	49.5	55.8	56.6	55.0	49.88
	2	53.1	52.0	49.9	53.0	54.2	52.8	54.7	57.4	52.3	55.3	55.2	53.10
	3	53.6	53.7	52.7	54.0	54.8	54.2	56.0	58.7	59.8	57.8	52.5	55.14
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	56.0	54.6	55.7	54.8	55.2	55.4	54.4	59.3	59.2	58.0	53.6	57.49
	6	54.1	52.2	52.4	55.4	53.8	52.2	49.7	53.8	60.3	56.3	54.0	54.42
	7	52.5	51.7	52.1	51.2	50.5	49.8	49.3	54.4	58.0	54.6	52.5	52.64
	8	52.8	52.8	52.6	51.8	51.2	49.9	49.8	52.4	54.3	56.6	53.6	53.31
	9	49.9	49.9	51.5	55.1	52.9	51.2	51.5	54.0	53.8	51.2	50.7	52.99
	10	54.0	53.8	55.1	54.2	53.1	52.2	52.3	55.9	57.2	56.3	52.9	53.71
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	52.5	53.1	51.9	52.0	51.8	50.8	50.8	52.1	54.2	52.5	50.6	52.03
	13	55.9	53.0	57.3	54.7	54.4	53.0	52.0	50.4	52.0	52.4	52.6	53.80
	14	47.3	49.3	47.4	46.9	50.3	49.1	45.4	48.9	53.8	51.7	50.3	51.46
	15	50.4	50.8	52.5	52.7	52.5	51.4	50.9	55.0	56.8	56.2	53.0	51.73
	16	52.4	52.8	53.4	53.5	52.7	51.3	50.3	53.5	57.0	57.0	52.6	52.81
	17	51.6	52.2	51.3	52.1	52.5	51.9	52.6	54.3	56.5	54.1	49.8	51.68
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	47.8	45.1	45.0	46.2	47.7	46.0	45.2	45.3	48.4	48.5	46.9	48.38
	20	48.1	47.9	47.4	47.3	47.5	46.4	46.3	47.6	48.0	47.7	44.6	46.94
	21	44.8	44.5	44.0	44.3	44.2	41.7	41.0	43.4	46.8	47.4	45.1	45.27
	22	42.1	45.6	45.6	45.3	46.8	41.5	41.3	47.6	50.9	49.4	46.8	44.35
	23	46.0	46.7	46.3	46.0	45.8	43.7	40.9	49.7	52.4	51.4	52.5	47.31
	24	50.0	47.9	48.4	49.5	48.2	48.8	45.7	48.5	49.5	49.3	48.6	49.45
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	48.9	50.4	49.7	58.8	48.5	47.0	45.0	46.6	48.9	48.7	49.1	48.65
	27	49.4	49.4	49.4	50.1	49.9	47.5	45.8	47.1	50.0	48.6	48.5	49.16
	28	48.9	49.0	49.0	48.0	48.2	47.7	45.3	47.1	48.3	48.5	47.6	48.62
	29	49.4	50.1	47.9	48.0	47.0	47.5	47.8	50.5	52.1	50.6	48.5	48.68
30	53.9	54.5	55.6	52.4	56.6	56.3	52.4	55.4	— ^a	58.2	57.0	52.70	
Hourly Means	50.51	50.40	50.40	51.01	50.70	49.48	48.60	51.48	53.45	52.88	50.93	51.07	

TEMPERATURE OF THE MAGNET.

JUNE.	1	60.7	60.6	60.7	60.8	60.8	60.7	60.3	60.1	59.8	59.6	59.3	60.51
	2	57.7	57.6	57.0	56.8	56.8	56.9	56.8	56.6	56.6	56.5	56.4	57.72
	3	55.7	55.6	55.2	55.0	55.0	54.9	54.8	55.0	55.0	55.1	55.0	55.87
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	56.2	56.1	56.0	56.0	56.0	55.8	55.6	55.6	55.5	55.6	55.8	55.95
	6	57.5	57.4	57.4	57.3	57.2	57.2	57.1	57.0	57.0	57.1	57.3	57.28
	7	58.3	58.2	58.5	58.2	58.2	58.0	57.8	57.8	57.6	57.6	57.6	58.06
	8	57.6	57.4	56.9	56.8	56.7	56.3	56.2	56.0	56.0	56.0	56.5	57.29
	9	56.9	56.8	56.5	56.3	56.2	56.1	56.3	56.0	56.0	55.8	55.8	56.94
	10	56.2	56.2	56.1	56.0	55.9	55.5	55.4	55.3	55.3	55.4	55.5	56.06
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	56.8	56.7	56.5	56.3	56.0	56.1	55.8	55.4	55.2	55.2	55.3	56.78
	13	57.0	56.9	56.7	56.5	56.4	56.3	56.2	56.0	56.0	56.2	56.5	56.84
	14	59.3	59.5	59.4	59.4	59.5	59.6	59.6	59.5	59.3	59.1	59.1	58.77
	15	57.8	57.6	57.1	56.9	56.5	56.7	56.2	55.9	55.7	55.8	56.1	57.88
	16	57.1	57.0	56.9	56.9	56.8	56.8	56.7	56.7	56.7	56.8	57.0	57.10
	17	56.8	56.7	56.6	56.3	56.0	56.0	55.6	55.4	55.4	55.5	55.8	57.00
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	60.5	60.5	60.5	60.5	60.4	60.0	60.0	60.0	60.0	60.1	60.2	59.23
	20	61.0	60.9	60.8	60.6	60.6	60.4	60.3	60.3	60.4	60.4	60.4	60.59
	21	62.0	62.0	62.0	61.9	62.0	62.0	62.0	62.0	62.0	61.8	61.8	61.52
	22	62.6	62.6	62.5	62.4	62.3	62.1	61.9	61.6	61.5	61.4	61.3	62.33
	23	61.1	60.8	60.7	60.5	60.3	60.6	60.2	60.1	59.9	59.7	59.7	60.92
	24	59.6	59.5	59.5	59.5	59.5	59.5	59.3	59.2	59.2	59.2	59.5	59.64
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	60.2	60.0	59.8	59.8	59.6	59.4	59.2	59.1	59.1	59.2	59.3	59.95
	27	60.0	60.0	59.9	59.8	59.8	59.8	59.7	59.6	59.6	59.6	59.7	59.93
	28	60.6	60.7	60.7	60.7	60.7	60.8	60.9	60.8	60.8	60.8	60.8	60.47
	29	60.0	59.8	59.8	59.6	59.3	59.4	58.9	58.5	58.3	58.2	58.1	60.23
	30	56.2	56.0	55.8	55.6	55.7	55.6	55.4	55.2	—	55.0	55.2	56.64
Hourly Means	58.67	58.58	58.44	58.32	58.24	58.17	58.01	57.87	57.92	57.80	57.88	58.53	

^a Magnet vibrating.

VERTICAL FORCE.														
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
JULY.	1	57.1	55.9	55.4	55.2	59.8	55.5	61.8	61.3	68.8	59.4	60.1	58.7	55.9
	2	73.3	80.2	54.3	63.8	65.1	62.9	75.3	73.4	71.9	72.6	68.4	55.8	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	54.8
	4	63.2	69.4	71.2	65.7	71.3	65.0	61.4	55.7	55.6	57.2	54.4	55.4	53.2
	5	58.0	53.7	53.8	54.5	56.7	56.8	56.5	56.6	57.7	57.2	57.9	57.6	57.6
	6	57.8	59.4	57.7	55.9	58.2	58.3	57.4	57.4	58.3	58.7	57.9	58.5	60.8
	7	56.2	55.8	55.9	57.4	58.1	58.7	58.5	57.4	58.1	57.9	57.3	57.4	55.8
	8	54.2	53.1	52.8	55.0	56.8	56.8	56.8	57.3	58.1	57.2	56.8	58.4	57.6
	9	56.2	64.2	61.5	62.4	59.5	62.4	63.4	62.0	65.6	60.0	63.8	53.4	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	61.8
	11	64.9	62.5	61.7	59.3	61.2	61.6	63.0	63.3	61.8	62.0	59.8	60.4	61.0
	12	59.0	57.8	58.3	60.8	61.6	62.7	62.8	63.6	63.2	61.1	59.6	60.3	60.9
	13	58.7	57.9	58.2	59.9	64.6	63.5	61.7	61.1	60.7	60.0	61.3	59.2	61.3
	14	59.4	58.7	60.4	61.7	63.9	64.1	63.4	62.7	64.4	62.0	61.9	61.7	61.7
	15	60.8	62.3	61.6	61.5	63.9	63.7	63.0	63.7	63.1	62.1	61.3	61.4	61.4
	16	64.5	65.7	63.4	62.5	62.0	61.9	61.1	60.5	60.8	60.8	60.2	60.6	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	60.2
	18	59.1	59.0	58.9	59.7	59.1	61.1	60.6	60.9	60.6	59.9	59.4	58.5	59.0
	19	62.6	63.9	64.7	65.2	63.5	64.3	64.4	65.1	65.1	65.6	65.6	64.1	62.8
	20	64.8	64.0	62.2	62.3	63.1	65.5	63.9	64.4	64.4	65.1	66.0	63.1	63.3
	21	59.9	62.1	62.7	63.5	63.6	63.3	63.6	62.2	62.5	61.7	61.4	61.5	61.5
	22	59.2	60.2	61.8	62.8	64.7	64.6	64.8	63.4	63.2	63.4	65.5	64.9	64.1
	23	62.6	66.3	70.4	69.2	69.5	70.6	69.8	66.5	67.7	68.0	71.9	73.0	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	71.3
	25	69.2	69.5	64.8	67.6	68.6	72.2	71.5	70.8	70.8	70.9	71.0	71.3	71.2
	26	65.2	62.9	65.3	69.7	72.0	72.5	71.3	70.4	70.7	70.7	70.1	71.2	71.1
	27	67.6	64.4	65.9	69.4	72.6	70.3	71.6	70.6	69.8	68.4	66.9	66.8	67.4
	28	70.2	68.1	68.8	71.3	74.4	75.0	73.4	72.4	72.5	74.5	77.0	77.0	72.0
	29	73.9	65.1	67.0	72.0	77.4	79.8	79.3	78.4	79.5	81.4	79.3	77.7	70.9
	30 ^b	75.1	73.2	72.6	74.2	77.7	76.3	76.4	76.7	78.4	77.8	80.1	78.8	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	62.30	62.48	61.55	62.73	64.45	64.52	64.81	64.04	64.60	63.91	63.79	62.72	62.34	

TEMPERATURE OF THE MAGNET.														
	1	2	3	4	5	6	7	8	9	10	11	12	13	
JULY.	1	55.3	55.7	55.8	56.4	56.6	56.7	56.5	56.6	56.5	56.3	56.3	56.2	56.0
	2	55.6	55.7	56.8	55.9	56.1	56.7	56.8	56.8	56.8	56.8	57.0	57.0	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	56.9
	4	57.6	57.8	58.5	58.4	58.6	58.9	59.2	59.3	59.2	59.1	59.3	59.5	59.2
	5	57.5	57.8	58.1	58.5	58.6	59.0	59.2	59.2	59.2	59.1	58.8	58.7	58.6
	6	57.2	57.3	57.7	58.0	58.3	58.5	58.3	58.3	58.3	58.2	58.1	58.1	58.0
	7	58.2	58.5	58.7	59.0	59.4	59.5	59.5	59.6	59.5	59.4	59.6	59.6	59.5
	8	59.3	59.4	59.4	59.6	59.5	59.6	59.6	59.5	59.5	59.5	59.6	59.6	59.5
	9	58.7	58.7	58.5	58.6	58.6	58.5	58.5	58.2	57.9	57.7	57.5	57.2	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	56.2
	11	56.0	56.5	56.8	57.4	57.8	57.9	57.6	57.6	57.4	57.4	57.2	57.0	57.0
	12	56.6	57.0	57.5	57.8	57.8	57.9	57.8	57.8	57.8	57.8	57.6	57.6	57.5
	13	56.9	57.0	57.0	57.5	57.4	57.3	57.4	57.4	57.3	57.5	57.6	57.6	57.7
	14	57.6	57.7	57.9	58.1	58.2	58.0	57.9	57.7	57.6	57.2	57.2	56.9	56.8
	15	56.2	56.6	57.0	57.6	57.8	57.9	57.8	57.8	57.8	57.7	57.8	57.8	57.6
	16	57.8	58.3	58.7	59.1	59.3	59.5	59.7	59.7	59.7	59.6	59.5	59.4	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	59.6
	18	59.8	60.0	60.4	60.7	61.0	61.0	61.0	60.9	60.9	60.8	60.6	60.5	60.3
	19	58.6	58.6	58.9	59.1	59.2	59.2	59.4	59.4	59.3	59.1	59.0	58.9	58.8
	20	58.6	58.8	59.2	59.5	59.6	59.8	59.8	59.8	59.8	59.8	59.8	60.4	60.6
	21	60.7	60.7	60.9	61.0	61.0	61.4	61.4	61.6	61.6	61.7	61.9	61.5	61.3
	22	60.2	60.3	60.3	60.6	60.6	60.7	60.8	60.8	60.8	60.7	60.6	60.2	60.0
	23	59.1	59.2	59.4	59.6	59.6	59.6	59.7	59.6	59.5	59.1	58.3	58.6	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	57.5
	25	56.4	56.7	57.2	57.8	58.3	58.2	58.1	58.0	57.9	57.8	57.9	57.8	57.6
	26	56.8	57.3	57.7	58.3	58.7	59.1	59.2	59.4	59.6	59.6	59.7	59.6	59.5
	27	59.2	59.4	59.5	59.8	60.0	60.1	60.4	60.5	60.5	60.5	60.2	60.2	60.1
	28	58.4	58.5	58.4	58.5	58.3	58.1	57.9	57.6	57.5	57.2	56.9	56.7	56.6
	29	55.6	55.9	56.3	56.7	56.8	56.8	56.9	56.9	56.8	56.8	56.5	56.4	56.3
	30 ^b	56.6	56.7	56.8	57.0	56.9	56.8	56.9	56.8	55.6	56.5	56.3	56.5	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	57.76	57.98	58.24	58.54	58.68	58.80	58.82	58.80	58.75	58.65	58.60	58.52	58.35	

^a Magnet vibrating.

^b Omitted in the means.

VERTICAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JULY.	1	57.1	51.7	54.9	53.8	56.5	29.4	45.1	58.3	61.2	65.1	69.5	56.98
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	53.0	45.4 ^a	55.8	51.9	47.6	36.9	71.1	71.1	52.5	49.2	56.7	60.96
	4	54.2	52.9	54.3	53.9	55.8	54.3	56.0	59.1	60.9	61.0	59.1	59.18
	5	55.2	57.0	57.2	53.4	55.2	50.1	53.3	57.5	57.9	57.9	55.9	56.05
	6	58.5	61.8	58.6	58.1	57.6	55.5	54.0	54.0	57.9	58.7	54.3	57.72
	7	57.3	56.5	55.8	55.1	54.7	53.9	54.3	56.4	58.3	54.5	55.0	56.51
	8	59.9	52.2	54.4	55.5	52.8	53.6	47.8	51.5	54.5	57.1	56.2	55.27
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	61.0	59.6	59.3	60.5	59.9	60.5	57.4	59.4	59.1	60.8	62.3	60.67
	11	62.6	61.5	61.2	62.2	61.6	59.9	58.8	60.8	63.4	62.0	58.4	61.45
	12	59.8	61.9	60.5	61.0	61.0	60.0	57.6	58.1	60.1	59.9	58.3	60.41
	13	60.9	62.3	62.4	64.2	64.2	59.8	58.3	60.8	63.7	61.8	58.9	61.06
	14	62.2	63.2	64.2	65.0	63.8	62.5	59.8	60.8	62.8	59.2	59.2	62.03
	15	60.9	61.4	61.0	61.4	59.7	58.9	58.2	60.1	62.8	61.9	62.4	61.60
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	60.2	61.2	60.8	60.3	60.3	60.3	57.8	59.1	59.8	59.6	58.0	60.90
	18	59.2	61.3	61.1	60.4	62.2	61.4	60.9	62.8	65.5	66.9	63.6	60.88
	19	62.1	61.9	61.9	65.8	62.3	63.7	64.4	66.4	63.4	65.1	63.0	64.04
	20	58.1	60.6	62.1	61.3	61.4	60.6	60.5	62.3	64.8	64.0	62.2	62.92
	21	61.5	61.8	62.0	61.9	60.6	61.1	60.5	62.0	63.7	62.6	60.0	61.97
	22	62.6	62.7	63.7	63.4	62.6	64.4	62.5	64.8	67.9	68.8	63.9	63.75
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	70.1	70.1	69.7	64.9	68.3	70.5	71.5	73.1	73.9	67.3	71.8	69.50
	25	71.2	71.8	72.3	71.2	71.5	70.2	71.6	73.2	76.9	76.0	69.9	71.05
	26	70.7	70.7	68.9	69.4	69.4	69.3	70.3	74.9	76.8	75.3	71.9	70.45
	27	69.5	69.8	70.3	69.2	69.2	68.9	69.8	70.4	72.3	72.3	71.9	69.39
	28	76.6	70.2	76.4	75.8	75.4	73.9	75.1	75.7	78.1	78.0	76.7	74.10
	29	75.6	71.0	76.9	76.3	75.0	73.1	73.6	76.9	77.9	76.2	74.6	75.37
	30 ^b	—	—	—	—	—	—	—	—	—	—	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	62.40	61.62	62.63	62.24	61.94	59.71	61.21	63.58	64.64	64.05	62.95	62.97	

TEMPERATURE OF THE MAGNET.

JULY.	1	55.8	55.7	55.2	55.2	55.2	55.1	55.3	55.3	55.1	55.2	55.4	55.81
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	56.8	56.8	56.7	56.9	57.3	57.5	57.5	57.3	57.3	57.5	57.6	56.84
	4	59.0	58.8	58.7	58.5	58.1	57.9	57.7	57.5	57.4	57.2	57.3	58.43
	5	58.3	58.1	57.9	57.8	57.7	57.7	57.4	57.1	56.8	56.7	56.9	58.11
	6	57.9	58.0	58.0	58.0	57.9	57.9	57.8	57.8	57.8	57.8	58.1	57.97
	7	59.4	59.3	59.2	59.1	59.2	59.1	59.1	59.1	59.0	59.1	59.2	59.20
	8	59.6	59.5	59.2	59.1	59.0	59.0	59.0	58.8	58.7	58.6	58.7	59.28
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	56.1	56.1	56.1	56.1	56.1	55.8	55.6	55.6	55.5	55.6	55.7	57.05
	11	56.8	56.8	56.7	56.7	56.5	56.5	56.1	56.0	56.0	56.0	56.2	56.83
	12	57.4	57.4	57.4	57.4	57.2	57.3	57.1	57.0	57.0	56.8	56.9	57.39
	13	57.6	57.6	57.6	57.3	57.3	57.4	57.2	57.2	57.1	57.3	57.4	57.36
	14	56.6	56.4	56.0	55.8	55.8	56.0	55.8	55.7	55.6	55.7	55.8	56.83
	15	57.6	57.6	57.7	57.7	57.6	57.3	57.3	57.2	57.4	57.6	57.7	57.50
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	59.6	59.6	59.7	59.7	59.7	59.6	59.5	59.5	59.5	59.5	59.6	59.39
	18	59.9	59.5	59.4	59.0	58.8	59.0	58.7	58.5	58.3	58.1	58.3	59.81
	19	58.7	58.7	58.6	58.6	58.3	58.2	58.2	58.1	58.1	58.3	58.5	58.74
	20	60.8	60.8	60.8	61.0	61.0	61.0	60.9	61.0	60.9	60.7	60.7	60.21
	21	61.1	61.0	60.9	60.8	60.7	60.6	60.6	60.5	60.4	60.1	60.1	60.98
	22	59.9	59.8	59.7	59.6	59.5	59.3	59.1	59.0	59.0	59.0	59.0	59.98
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	57.5	57.2	57.0	56.8	56.6	56.7	56.2	55.9	55.8	55.9	56.2	57.96
	25	57.6	57.4	57.0	56.8	56.6	56.2	56.1	56.1	56.0	56.3	56.6	57.18
	26	59.4	59.2	59.0	58.9	58.9	58.8	58.9	58.8	58.8	58.8	59.0	58.88
	27	59.8	59.7	59.6	59.4	59.0	58.9	58.8	58.6	58.5	58.3	58.4	59.56
	28	56.2	56.1	56.0	55.8	55.7	55.8	55.5	55.4	55.5	55.3	55.5	56.81
	29	56.2	56.2	56.2	56.2	56.2	56.1	56.1	56.1	56.1	56.3	56.5	56.37
	30 ^b	—	—	—	—	—	—	—	—	—	—	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	58.22	58.13	58.01	57.93	57.84	57.79	57.66	57.56	57.50	57.51	57.65	58.18	

^a Magnet vibrating.

^b Omitted in the means.

VERTICAL FORCE.														
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
AUGUST.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	—	
	8 ^a	62.2	60.2	69.9	61.1	64.1	65.2	65.0	64.3	64.5	64.6	66.1	66.3	62.6
	9	65.6	61.7	60.1	63.4	66.1	65.9	65.2	65.2	65.4	65.6	65.2	65.8	65.7
	10	64.0	62.2	62.7	64.6	67.8	66.0	65.6	65.5	65.3	66.1	68.7	67.0	66.5
	11	65.1	65.1	63.3	64.8	66.2	66.9	67.4	67.8	66.9	66.4	65.9	65.8	66.7
	12	67.8	62.8	61.4	64.1	69.6	69.8	70.9	73.5	68.3	67.8	68.7	65.0	65.7
	13	63.2	60.9	61.9	64.7	66.4	66.2	64.8	65.5	65.2	65.0	63.6	65.0	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	66.3
	15	63.4	62.2	65.0	64.8	65.3	65.8	65.1	65.1	65.2	65.7	64.7	64.7	65.3
	16	62.2	62.2	63.6	62.5	63.7	64.6	64.7	65.1	66.0	66.6	66.5	65.6	64.9
	17	67.5	64.8	63.2	63.1	66.6	66.8	66.2	67.6	67.1	66.7	66.0	65.6	65.4
	18	67.9	66.2	64.1	67.6	69.6	71.2	69.7	73.9	65.9	65.9	67.7	69.5	65.6
	19	68.1	58.7	67.7	76.9	78.7	81.7	73.8	76.4	72.0	67.7	64.8	73.6	66.7
	20	67.5	67.7	69.0	69.2	70.4	70.8	69.6	69.6	70.3	70.6	74.3	72.1	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	70.4
	22	67.1	66.9	65.5	64.1	66.0	67.8	69.3	67.0	66.5	67.3	68.6	68.4	70.1
	23	68.1	67.1	64.9	64.1	66.4	67.7	67.9	67.6	68.3	67.6	67.4	67.8	68.8
	24	64.7	66.1	69.1	65.5	67.7	74.5	69.8	66.6	66.6	66.4	67.7	68.7	68.7
	25	65.3	64.4	63.6	65.1	68.3	68.2	66.2	67.0	66.3	65.6	67.4	64.9	68.6
	26	63.3	64.1	67.3	67.6	66.4	69.4	68.5	69.0	69.3	68.3	70.2	69.1	66.8
	27	67.2	67.0	66.7	66.1	66.7	67.2	67.4	66.7	67.4	67.7	67.4	69.1	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	65.1
	29	68.8	67.5	69.0	70.3	71.8	72.8	72.2	71.5	71.8	72.2	71.3	71.1	72.6
	30	69.0	68.4	68.7	69.2	70.2	72.1	71.6	71.8	72.1	71.6	71.9	71.1	71.4
	31	70.7	65.9	66.2	68.8	70.7	72.1	72.6	72.9	72.2	71.8	71.3	71.5	70.5
Hourly Means	66.13	64.39	65.38	66.08	68.03	69.18	68.26	68.55	67.74	67.49	67.88	67.99	67.35	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
AUGUST.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	—	
	8	55.8	56.1	56.5	56.7	56.9	57.0	57.0	56.9	56.9	56.8	57.0	57.0	57.1
	9	57.5	57.7	57.9	58.1	58.3	58.2	58.2	58.3	58.2	58.1	58.0	58.0	57.9
	10	58.1	58.2	58.5	58.6	58.6	58.6	58.7	58.7	58.7	58.7	58.4	58.3	58.3
	11	58.3	58.6	58.6	58.9	59.0	58.9	59.0	59.0	58.9	58.9	58.8	58.6	57.5
	12	58.1	58.6	58.9	59.6	59.7	60.1	60.0	60.0	60.0	59.9	59.8	59.8	59.6
	13	59.8	60.2	60.7	61.3	61.5	61.6	61.6	61.5	61.5	61.5	61.5	61.5	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	60.4
	15	60.1	60.6	60.6	60.9	61.3	61.3	61.3	61.3	61.2	61.0	60.9	60.8	60.8
	16	60.1	60.5	60.8	61.3	61.3	61.4	61.3	61.1	61.0	61.0	60.8	60.7	60.5
	17	60.2	60.3	60.5	60.8	61.0	61.1	61.4	61.4	61.4	61.4	61.2	61.1	61.0
	18	60.7	60.7	60.7	60.8	60.9	60.8	60.7	60.6	60.4	60.1	60.0	59.9	59.7
	19	58.6	58.7	58.9	59.1	59.1	59.1	59.7	59.6	59.6	59.0	58.8	58.9	58.9
	20	57.4	57.6	57.7	58.0	58.2	58.3	58.2	58.2	58.0	57.8	57.7	57.6	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	58.5
	22	58.8	59.2	59.8	60.4	60.5	60.7	60.7	60.7	60.4	60.0	59.9	59.7	59.5
	23	59.0	59.4	59.5	59.7	59.8	60.2	60.0	59.9	59.9	59.8	59.8	59.7	59.8
	24	58.5	58.6	58.7	58.8	58.8	58.8	59.3	59.5	59.2	58.8	58.8	58.6	58.5
	25	57.6	58.0	58.6	59.1	59.6	59.8	59.8	60.0	60.0	60.1	60.1	60.1	60.0
	26	59.3	59.3	59.4	59.5	59.6	59.6	59.5	59.5	59.4	59.3	59.3	59.6	59.8
	27	60.2	60.4	60.6	60.6	60.7	60.8	60.9	60.9	60.8	60.8	60.6	60.2	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	56.9
	29	57.5	57.7	57.7	58.0	58.1	58.1	58.4	58.5	58.5	58.5	58.4	58.4	58.4
	30	59.0	59.1	59.5	59.8	59.9	60.0	60.0	59.9	59.9	59.8	59.9	59.9	59.8
	31	59.4	59.6	59.8	60.0	60.1	60.1	59.9	59.9	59.8	59.8	59.8	59.6	59.6
Hourly Means	58.76	59.00	59.23	59.52*	59.66	59.74	59.79	59.78	59.70	59.58	59.50	59.43	59.17	

* New adjustment. From 1st to the 7th employed in making temperature experiments.

VERTICAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	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.	
AUGUST.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	
	8 ^a	62.1	62.5	59.8	58.6	62.0	61.9	62.6	65.6	68.1	68.6	64.4	64.68
	9	65.4	66.0	64.7	63.8	64.0	62.8	62.7	67.4	71.3	70.8	69.6	65.39
	10	65.4	65.4	65.0	63.9	64.3	63.2	63.4	68.3	70.2	69.7	67.1	65.75
	11	66.6	65.8	65.0	65.8	65.6	64.4	65.3	68.0	69.1	67.4	66.8	66.17
	12	66.6	65.9	65.5	66.5	65.4	64.5	65.5	66.9	66.3	73.0	70.4	67.16
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	65.7	65.9	65.1	65.9	66.0	64.5	64.5	68.2	69.4	69.5	67.3	65.45
	15	63.1	65.2	65.3	64.6	64.8	64.8	63.8	65.6	67.2	67.0	64.9	64.94
	16	65.7	65.5	66.0	65.6	64.9	63.0	63.8	66.2	67.5	65.8	63.2	64.81
	17	66.6	63.2	64.7	64.4	63.3	62.9	64.6	69.4	70.1	67.7	66.4	65.83
	18	65.2	65.7	65.3	66.4	62.7	61.7	61.6	69.9	71.3	71.4	70.8	67.37
	19	67.7	66.8	66.9	67.5	63.4	62.4	64.0	72.1	75.0	73.8	72.9	69.55
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	67.8	65.4	66.5	67.9	69.0	66.2	67.0	73.1	75.4	75.7	73.5	69.96
	22	68.2	68.3	67.9	67.9	67.8	65.5	65.2	68.1	69.7	69.7	68.8	67.15
	23	68.2	65.6	65.3	66.3	66.1	62.1	63.4	70.3	73.7	73.3	69.3	67.39
	24	68.3	66.7	67.1	66.6	66.8	65.0	65.6	68.4	70.4	69.0	65.8	67.58
	25	68.3	65.8	67.6	68.5	68.3	66.7	66.2	70.5	72.5	72.9	68.1	67.35
	26	65.9	66.0	65.2	66.4	66.0	64.2	65.1	67.5	68.1	68.4	65.3	66.98
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	68.6	68.6	67.3	67.3	67.5	64.9	66.8	69.8	71.7	73.1	70.3	67.82
	29	72.4	72.0	71.4	71.9	71.6	69.4	68.5	71.3	73.3	73.3	70.2	71.18
	30	71.8	70.8	70.9	70.9	70.1	67.8	68.6	71.0	72.9	73.1	70.3	70.72
	31	70.1	70.0	70.2	69.9	69.5	68.7	69.7	72.5	73.8	74.6	68.7	70.62
Hourly Means		67.13	66.53	66.32	66.50	66.15	64.60	65.14	69.05	70.81	70.85	68.29	67.34

TEMPERATURE OF THE MAGNET.

	1	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	
	8	57.1	57.1	57.2	57.3	57.2	57.3	57.4	57.4	57.5	57.4	57.5	57.00
	9	57.8	57.8	57.8	57.9	57.9	57.7	57.7	57.7	57.7	57.8	57.9	57.92
	10	58.3	58.2	58.2	58.2	58.1	58.2	58.0	58.0	58.0	58.0	58.3	58.33
	11	58.4	58.2	58.0	57.8	57.6	57.3	57.1	57.0	57.0	57.3	57.6	58.18
	12	59.5	59.3	59.0	59.0	58.9	58.9	59.0	59.0	59.1	59.3	59.5	59.36
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	60.5	60.5	60.4	60.2	60.0	59.9	59.7	59.6	59.6	59.7	59.9	60.61
	15	60.8	60.4	60.3	60.2	60.0	60.0	59.8	59.8	59.8	59.8	60.0	60.54
	16	60.3	60.0	60.0	60.0	59.8	59.7	59.7	59.7	59.7	59.8	59.8	60.43
	17	61.0	60.9	60.8	60.8	60.8	60.5	60.6	60.4	60.4	60.6	60.6	60.84
	18	59.6	59.4	58.9	58.8	58.5	58.7	58.5	58.2	58.2	58.2	58.4	59.64
	19	58.6	58.3	57.9	57.8	57.6	57.5	57.3	57.0	57.1	57.0	57.2	58.39
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	58.3	58.3	58.3	58.3	58.3	58.0	58.0	58.0	58.0	58.2	58.5	58.06
	22	59.3	59.1	59.1	58.8	58.7	58.9	58.7	58.3	58.3	58.6	58.8	59.45
	23	59.8	59.6	59.2	58.8	58.6	58.4	58.1	58.0	58.0	58.1	58.3	59.23
	24	58.2	57.8	57.6	57.4	57.1	57.5	57.0	56.8	56.9	57.0	57.3	58.15
	25	60.0	59.9	59.8	59.9	59.8	59.7	59.7	59.6	59.5	59.3	59.3	59.55
	26	59.8	59.9	60.1	60.2	60.3	60.0	59.9	59.9	59.8	59.9	60.2	59.71
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	56.9	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	57.0	57.3	58.75
	29	58.5	58.4	58.3	58.3	58.3	58.5	58.6	58.6	58.7	58.6	58.8	58.33
	30	59.7	59.7	59.3	59.3	59.2	59.2	59.2	59.1	59.1	59.1	59.3	59.53
	31	59.5	59.4	59.2	59.1	59.0	58.8	58.8	58.8	58.8	58.9	59.1	59.45
Hourly Means		59.14	59.00	58.89	58.80	58.69	58.64	58.55	58.46	58.48	58.55	58.74	59.12

* New adjustment. From 1st to the 7th employed in making temperature experiments.

VERTICAL FORCE.														
One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4 ^a	—	—	—	—	—	—	—	—	—	—	—	—	
	5 ^b	33.2	29.3	28.1	29.9	34.3	37.4	37.2	37.6	35.5	37.5	34.7	38.2	34.8
	6	36.7	34.1	33.7	36.7	37.4	37.5	37.0	37.1	37.0	38.3	37.7	37.7	35.7
	7	35.5	34.8	33.7	34.9	36.9	37.1	36.4	36.1	36.1	35.7	36.5	36.5	37.7
	8	34.7	35.4	34.5	34.4	35.7	36.1	37.2	36.6	36.4	36.6	36.2	35.8	36.8
	9	35.6	33.2	32.3	34.0	36.8	40.0	40.6	40.9	39.8	35.8	35.1	35.6	37.9
	10	34.1	30.8	31.5	32.9	33.0	34.6	34.9	35.4	36.4	37.4	37.4	34.9	35.1
	11	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	30.0	31.2	32.1	32.9	34.4	36.2	36.5	37.4	36.5	37.5	40.0	40.0	36.2
	13	33.1	30.8	33.1	35.3	37.9	34.8	33.2	32.3	33.0	33.5	35.2	32.8	35.5
	14	31.5	30.0	31.1	31.9	32.4	33.4	33.6	34.2	34.1	33.7	33.8	33.4	37.1
	15	29.3	29.1	30.6	34.0	35.4	35.9	35.7	36.1	36.4	36.5	35.0	33.4	33.3
	16	30.9	30.5	32.1	32.3	33.0	34.0	34.4	35.5	35.5	33.8	33.7	34.4	32.7
	17	31.3	30.2	31.5	33.1	34.0	35.0	36.0	34.0	34.1	33.3	30.3	30.6	33.0
	18	—	—	—	—	—	—	—	—	—	—	—	—	—
	19	33.2	26.5	29.7	31.9	33.7	34.8	34.3	34.1	35.6	41.2	41.5	34.9	35.8
	20	28.6	28.2	29.1	31.1	37.2	37.4	36.7	36.3	34.4	33.9	35.9	34.4	33.6
	21	36.1	33.1	33.5	35.3	39.4	36.3	35.1	36.1	32.3	31.6	35.0	35.4	34.1
	22	29.9	26.5	28.5	29.5	30.8	31.7	31.1	35.3	33.0	33.3	30.6	29.5	35.1
	23	31.4	30.0	29.4	30.8	31.5	32.0	32.6	32.5	31.2	29.0	31.4	31.0	30.2
	24	29.2	27.4	27.0	29.1	32.7	34.1	33.7	31.9	32.5	28.8	30.4	30.3	30.0
	25	—	—	—	—	—	—	—	—	—	—	—	—	—
	26	25.1	24.9	25.7	26.7	29.6	31.2	30.9	30.1	30.3	30.5	29.6	30.3	30.9
	27	25.2	24.5	26.0	29.1	32.7	33.7	33.6	32.0	31.8	31.4	31.6	31.5	30.6
	28	20.8	20.6	24.0	27.4	29.5	30.6	29.5	28.5	30.4	30.0	29.5	26.9	28.7
	29	28.2	28.2	28.1	30.7	34.6	32.4	29.2	27.7	27.6	27.8	27.9	28.4	30.6
	30	18.4	20.9	25.0	29.0	31.6	32.2	31.2	28.0	28.5	27.8	27.9	27.4	28.1
Hourly Means	30.52	29.14	30.01	31.87	34.11	34.71	34.37	34.16	33.84	33.69	33.82	33.24	33.31	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
	4 ^a	—	—	—	—	—	—	—	—	—	—	—	—	
	5	58.7	58.9	59.0	59.3	59.6	59.5	59.7	59.6	59.6	59.5	59.5	59.5	58.9
	6	58.1	57.9	57.7	57.7	57.6	57.5	57.7	57.6	57.5	57.5	57.3	57.3	59.4
	7	57.2	57.6	57.9	58.5	58.5	58.4	58.2	58.1	57.8	57.8	57.6	57.5	57.2
	8	57.0	57.2	57.6	57.7	57.8	57.8	57.9	57.9	57.9	57.9	58.0	57.9	58.0
	9	57.5	57.7	58.0	58.1	58.2	58.0	58.2	58.1	58.1	58.0	57.9	57.8	57.8
	10	58.1	58.5	58.7	59.0	59.2	59.1	58.8	58.8	58.7	58.6	58.4	58.0	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	57.8	58.2	58.6	58.9	58.9	59.0	58.9	58.8	58.6	58.5	58.4	58.2	58.1
	13	57.0	57.6	58.0	58.6	59.0	59.1	59.3	59.3	59.2	59.1	59.0	58.8	57.8
	14	58.8	59.2	59.7	60.0	60.2	60.0	60.4	60.3	60.0	59.8	59.5	59.3	58.7
	15	59.0	59.4	59.6	59.1	60.3	60.4	60.2	60.0	60.0	60.0	59.9	59.8	59.1
	16	59.9	60.4	60.7	61.0	61.1	61.0	61.1	61.0	60.8	60.6	60.6	60.4	59.6
	17	60.3	60.5	60.9	61.2	61.2	61.2	61.4	61.4	61.3	61.1	60.7	60.7	60.1
	18	—	—	—	—	—	—	—	—	—	—	—	—	—
	19	58.5	58.7	58.8	59.1	58.8	59.2	59.0	59.0	58.8	58.7	58.7	58.7	59.2
	20	58.2	58.4	58.8	59.1	59.6	59.7	59.6	59.5	59.4	59.3	59.1	58.9	58.5
	21	58.1	58.3	58.2	58.3	58.3	58.4	58.6	58.6	58.6	58.6	58.7	59.0	58.8
	22	60.7	61.0	61.4	61.6	61.8	62.1	62.3	62.6	62.6	62.6	62.6	62.2	59.2
	23	60.8	61.0	61.1	61.4	61.5	61.6	61.8	61.8	61.8	61.8	61.6	61.6	61.8
	24	61.3	61.7	61.9	62.4	62.4	62.6	62.5	62.5	62.3	62.1	62.0	61.8	61.5
	25	—	—	—	—	—	—	—	—	—	—	—	—	—
	26	61.3	61.6	62.3	62.6	63.0	63.1	63.0	62.8	62.8	62.5	62.3	62.1	61.8
	27	61.6	61.8	62.0	62.5	62.5	62.5	62.1	62.0	61.9	61.7	61.8	61.7	61.9
	28	62.2	62.7	63.1	63.6	64.1	64.4	64.5	64.6	64.6	64.5	64.6	64.5	61.5
	29	63.6	64.0	64.3	64.7	64.8	65.0	65.6	65.7	65.5	65.0	64.8	64.6	64.2
	30	64.0	64.4	65.1	65.6	65.8	65.6	65.5	65.3	65.3	65.1	64.9	64.8	64.4
Hourly Means	59.55	59.86	60.15	60.43	60.62	60.66	60.71	60.67	60.57	60.45	60.34	60.22	60.02	

^a Omitted in the means.

^b New adjustment.

VERTICAL FORCE.

One Scale Division = .00011 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah° = .00005.

Mean Göttingen Time.	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.
1	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—
4 ^a	34.9	33.9	33.3	33.6	33.2	30.7	30.8	38.0	40.9	41.0	35.9	35.17
5	35.1	34.7	34.9	34.2	33.0	30.2	32.0	36.7	41.5	42.4	40.9	
6	36.6	36.6	37.1	35.4	34.8	33.5	34.8	38.5	43.6	43.7	39.1	37.18
7	36.8	37.3	36.5	36.0	35.4	31.6	33.1	37.9	41.7	44.2	40.2	36.57
8	38.4	36.1	35.1	35.2	35.1	32.7	33.1	36.6	39.8	41.7	40.1	36.31
9	35.9	36.5	36.3	36.3	35.3	33.0	35.1	39.6	41.8	42.2	39.2	36.92
10	—	—	—	—	—	—	—	—	—	—	—	—
11	35.9	36.4	37.7	36.5	36.5	32.7	34.2	39.5	41.5	40.0	34.5	35.62
12	34.8	35.9	32.8	33.2	32.9	35.7	39.4	41.7	40.7	38.7	37.3	
13	36.2	34.4	32.2	29.2	33.7	33.2	36.1	37.3	37.1	36.1	33.0	34.19
14	33.3	33.9	33.6	33.3	32.1	31.3	32.8	36.5	37.6	33.1	30.3	33.09
15	32.9	32.8	32.5	32.5	32.6	31.0	32.4	34.4	37.5	35.6	32.1	33.65
16	33.8	33.4	33.3	31.7	31.0	29.2	30.0	34.5	37.5	36.3	32.1	33.16
17	—	—	—	—	—	—	—	—	—	—	—	—
18	35.3	35.8	34.9	33.5	33.3	33.6	35.3	37.9	40.8	38.5	32.4	34.19
19	35.5	31.9	34.6	34.3	34.2	31.9	31.6	32.7	35.1	36.4	33.3	
20	27.7	32.3	35.6	35.2	33.3	32.1	32.3	36.2	38.5	38.6	38.1	34.05
21	31.5	30.1	33.4	32.8	32.0	31.2	33.4	36.8	38.0	38.0	34.6	34.42
22	28.6	28.2	28.8	31.1	30.7	30.2	34.2	37.4	39.5	40.2	35.3	31.84
23	—	30.7	30.7	30.7	29.5	28.5	31.2	34.6	35.7	33.4	31.9	29.99
24	—	—	—	—	—	—	—	—	—	—	—	—
25	31.5	31.8	31.2	31.1	30.8	30.3	32.4	34.8	35.7	33.5	28.9	31.25
26	31.3	31.3	30.7	30.7	29.6	27.7	29.5	32.6	34.5	31.1	28.5	
27	30.9	30.8	30.7	31.1	30.9	28.5	29.8	31.2	30.1	27.6	24.1	29.98
28	29.7	28.0	29.7	30.0	29.5	24.4	24.3	30.0	28.9	28.6	30.8	27.93
29	27.7	26.3	27.5	29.6	29.6	29.1	29.9	30.9	27.2	28.9	19.4	28.54
30	27.5	27.0	27.9	29.4	29.9	30.7	31.9	31.6	28.5	24.1	22.9	27.78
Hourly Means	33.04	32.70	32.94	32.74	32.42	30.97	32.56	35.65	37.08	36.21	33.00	33.17

TEMPERATURE OF THE MAGNET.

1	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—
4 ^a	58.8	58.6	58.6	58.4	58.4	58.4	58.4	58.3	58.3	58.5	58.6	58.90
5	59.2	59.0	58.6	58.5	58.3	58.1	58.0	58.0	58.0	57.9	58.1	
6	57.1	57.0	56.9	56.8	56.7	56.5	56.5	56.4	56.5	56.7	57.0	57.20
7	57.1	56.9	56.8	56.7	56.6	56.5	56.4	56.4	56.4	56.5	56.7	57.30
8	58.0	57.9	57.8	57.8	57.6	57.6	57.5	57.5	57.5	57.4	57.5	57.70
9	57.7	57.6	57.3	57.4	57.2	57.2	57.2	57.1	57.2	57.6	57.8	57.70
10	—	—	—	—	—	—	—	—	—	—	—	—
11	57.9	57.8	57.5	57.4	57.2	57.1	56.9	57.0	57.1	57.4	57.6	58.04
12	57.6	57.5	57.0	57.0	56.7	56.7	56.5	56.5	56.6	56.7	56.8	
13	58.6	58.3	58.5	58.3	58.2	58.0	58.0	58.0	58.4	58.2	58.5	58.47
14	58.9	58.8	58.8	58.7	58.6	58.7	58.6	58.6	58.7	58.7	58.8	59.26
15	59.6	59.5	59.2	59.0	58.8	58.7	58.8	58.7	59.0	59.4	59.6	59.48
16	59.9	59.8	59.5	59.4	59.4	59.4	59.4	59.4	59.5	59.6	59.9	60.16
17	—	—	—	—	—	—	—	—	—	—	—	—
18	58.9	58.6	58.4	58.1	57.9	57.7	57.6	57.5	57.6	57.7	58.0	59.55
19	58.3	58.2	58.4	58.2	58.0	58.0	57.8	57.8	57.8	58.0	58.1	
20	58.5	58.5	58.4	58.3	58.2	58.0	58.0	57.9	57.9	58.0	58.0	58.67
21	59.5	59.6	59.7	59.7	59.8	59.7	59.8	59.6	59.8	60.2	60.5	59.12
22	61.5	61.3	60.9	60.6	60.5	60.4	60.4	60.4	60.5	60.6	60.6	61.38
23	—	61.2	61.2	61.0	60.9	60.9	60.8	60.9	60.9	61.0	61.1	61.27
24	—	—	—	—	—	—	—	—	—	—	—	—
25	61.6	61.2	61.1	60.9	60.6	60.3	60.1	60.1	60.3	60.5	60.8	61.45
26	61.7	61.6	61.5	61.4	61.2	60.9	61.0	61.0	61.0	61.1	61.4	
27	61.5	61.2	61.0	60.9	60.8	61.0	61.0	61.2	61.4	61.6	61.8	61.63
28	64.0	63.9	63.6	63.4	63.2	63.1	63.0	63.0	63.0	63.2	63.4	63.68
29	64.2	63.9	63.8	63.6	63.4	63.1	63.0	62.9	63.1	63.3	63.7	64.17
30	64.5	64.3	64.2	64.1	63.9	63.5	63.5	63.3	63.2	63.2	63.2	64.46
Hourly Means	59.81	59.70	59.55	59.44	59.29	59.18	59.12	59.10	59.20	59.33	59.52	59.90

^a New adjustment. Omitted in the means.

VERTICAL FORCE.														
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	—	—	—	—	—	—	—	—	—	—	—	50.1	
	3	42.0	41.5	46.5	50.2	50.9	51.1	50.7	50.3	50.3	51.2	52.0	51.2	51.2
	4	42.2	43.0	43.8	47.7	51.2	48.6	46.8	47.2	47.9	48.2	50.9	48.7	48.3
	5	37.5	36.8	39.5	43.2	46.2	48.5	46.3	45.4	43.7	43.7	44.2	44.5	44.3
	6	35.9	34.5	37.8	41.2	43.5	43.5	41.1	39.6	39.3	39.4	39.6	40.0	40.0
	7	32.5	31.8	34.2	37.3	39.9	39.9	38.7	38.6	40.4	39.5	39.0	38.2	39.3
	8	32.4	31.7	32.6	36.5	40.1	40.2	40.2	41.9	38.8	39.0	33.5	38.0	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	42.9
	10	37.6	35.6	35.8	37.3	39.6	41.2	41.2	40.8	40.6	39.7	40.6	40.2	40.3
	11	33.0	33.3	34.4	37.2	39.9	42.1	42.1	41.2	41.0	39.9	39.9	40.3	40.7
	12	36.5	35.1	36.2	37.6	40.3	40.1	41.6	40.5	40.3	40.0	39.9	39.9	39.9
	13	29.9	31.4	34.4	38.8	43.1	47.0	43.2	43.0	45.1	46.0	38.6	36.4	35.3
	14	32.7	33.4	35.0	37.7	42.7	44.7	41.4	37.0	35.1	35.1	35.6	35.9	36.2
	15	31.8	34.4	35.3	39.2	39.2	38.9	39.1	39.5	38.4	40.4	40.6	39.8	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	40.3
	17	41.9	40.3	40.6	39.3	41.3	44.2	41.3	45.6	42.8	41.9	41.6	41.6	40.2
	18	36.5	36.9	38.5	39.8	41.8	42.6	41.8	42.8	40.8	43.6	38.7	41.9	44.5
	19	35.1	37.7	39.1	38.9	39.8	39.2	40.9	38.4	37.3	38.7	41.2	37.6	37.7
	20	29.4	32.5	32.1	34.5	35.8	34.9	34.5	35.2	33.6	35.1	35.1	33.8	34.3
	21	26.3	26.6	30.7	34.8	38.1	36.8	35.0	34.3	35.2	36.9	35.3	35.7	35.4
	22	31.1	31.1	33.7	36.8	33.2	37.5	35.9	35.6	35.2	35.2	35.4	37.1	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	37.3
	24	31.6	32.3	34.8	36.1	38.6	38.4	37.1	36.2	35.5	36.7	37.1	36.8	37.2
	25	29.2	29.3	32.3	36.1	39.5	41.0	39.9	40.4	41.1	40.4	38.7	37.4	38.5
	26	31.5	33.8	34.4	37.3	37.9	38.6	37.7	36.8	38.5	40.6	41.5	41.5	40.3
	27	32.9	35.1	36.5	42.6	44.0	40.9	38.3	38.3	40.6	40.6	39.0	37.7	37.7
	28	32.6	33.5	36.5	39.9	41.2	42.0	41.1	39.7	41.9	39.8	38.1	38.0	38.2
	29	35.6	38.3	38.9	39.0	39.0	41.0	40.8	39.9	38.9	39.4	39.9	41.1	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	41.0
	31	33.3	34.2	34.4	36.1	39.4	39.4	38.8	37.8	37.4	37.0	37.4	37.8	37.9
Hourly Means	34.04	34.58	36.40	39.00	41.05	41.69	40.62	40.24	39.99	40.32	39.74	39.64	39.96	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	—	—	—	—	—	—	—	—	—	—	—	58.8	
	3	57.9	58.1	58.1	58.2	58.4	58.2	58.2	57.9	57.6	57.4	57.2	56.8	56.8
	4	56.6	57.2	57.8	58.6	58.9	59.3	59.5	59.7	59.7	59.7	59.7	59.7	59.6
	5	60.6	61.1	61.6	62.1	62.6	63.8	62.8	62.9	63.0	62.6	62.8	62.8	62.6
	6	63.4	63.8	64.3	65.1	65.7	66.0	66.3	66.2	66.2	66.0	65.7	65.4	65.2
	7	65.3	65.9	66.6	67.2	67.4	67.4	67.3	66.9	66.7	66.4	65.8	65.5	65.1
	8	64.8	65.2	65.6	66.0	66.7	66.9	67.0	67.0	66.9	66.7	66.6	66.2	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	61.5
	10	62.1	62.5	63.0	63.4	63.5	63.5	63.4	63.1	63.0	62.9	62.9	62.7	62.6
	11	62.4	62.5	62.7	62.8	62.8	62.8	62.4	62.3	62.1	61.8	61.8	61.6	61.4
	12	61.7	62.0	62.6	62.9	62.9	63.0	62.9	62.8	62.6	62.6	62.2	62.0	61.9
	13	62.4	62.8	63.3	63.8	64.1	64.6	65.0	65.3	65.2	65.1	64.8	64.6	64.3
	14	64.5	65.1	65.7	66.2	66.6	66.8	67.1	67.0	67.1	67.8	66.7	66.5	66.1
	15	64.7	64.8	64.8	65.1	65.6	65.4	65.5	65.4	65.3	65.2	65.0	64.8	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	63.1
	17	62.2	62.2	62.2	62.4	62.4	62.3	62.3	62.2	62.1	62.0	61.8	61.8	61.7
	18	61.3	61.7	61.8	62.0	62.1	62.1	62.0	61.8	61.7	61.5	61.3	61.0	60.9
	19	61.5	62.0	62.6	63.3	63.7	64.0	64.0	64.0	64.0	63.9	63.8	64.0	64.1
	20	65.2	65.7	66.2	66.8	67.2	67.6	68.1	68.5	68.6	68.5	68.4	68.1	67.8
	21	66.1	66.2	66.2	66.6	66.8	67.0	67.3	67.5	67.3	67.2	67.0	66.8	66.7
	22	65.6	65.6	65.8	66.1	66.3	66.5	66.3	66.3	66.1	65.9	65.8	65.4	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	64.5
	24	65.0	65.0	65.5	65.7	65.8	65.6	65.3	65.1	64.9	64.7	64.6	64.5	64.4
	25	63.6	63.8	64.0	64.1	64.1	64.1	64.0	63.9	63.8	63.7	63.4	63.2	62.9
	26	63.1	63.3	63.7	64.1	64.3	64.4	64.2	64.0	63.8	63.6	63.4	63.0	62.8
	27	62.2	62.3	62.5	62.7	63.0	63.2	63.4	63.4	63.4	63.3	63.5	63.3	63.1
	28	63.0	63.1	63.3	63.3	63.1	63.0	62.8	62.6	62.4	62.1	61.9	61.8	61.6
	29	61.3	61.5	61.6	61.9	62.1	62.2	62.3	62.2	62.1	62.0	61.8	61.7	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	61.9
	31	62.5	62.9	63.5	63.8	64.1	64.3	64.4	64.4	64.1	63.9	63.5	63.4	63.3
Hourly Means	62.76	63.05	63.40	63.77	64.01	64.16	64.15	64.10	63.98	63.86	63.66	63.46	63.04	

* New adjustment. Omitted in the means.

VERTICAL FORCE.														
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
NOVEMBER.	1	28.5	30.1	32.5	34.5	36.2	36.6	36.4	37.0	36.7	37.2	37.4	37.0	
	2	31.1	31.6	33.8	36.5	37.9	35.8	34.2	33.5	33.8	37.3	41.1	40.6	
	3	28.9	28.9	27.0	28.9	35.0	35.7	38.9	38.3	38.8	35.4	35.1	33.2	
	4	29.7	29.7	32.6	33.5	35.6	35.5	34.9	34.1	34.5	33.6	34.6	34.6	
	5	27.7	28.2	30.0	32.8	35.5	37.1	35.8	35.0	35.3	35.1	35.9	36.5	
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	29.5	27.5	29.0	33.3	35.1	36.4	36.3	34.7	35.9	36.4	36.2	35.7	
	8	28.2	27.5	28.9	31.0	32.9	34.2	33.7	33.7	34.2	34.2	33.6	33.2	
	9	22.2	28.9	32.1	34.8	35.1	35.5	34.9	35.0	35.4	36.7	37.9	37.4	
	10	34.4	38.3	40.2	39.6	44.5	39.0	42.2	40.9	37.8	35.2	35.9	37.7	
	11	30.9	34.4	37.2	39.1	39.6	40.3	39.6	37.6	37.4	38.0	39.3	37.2	
	12	34.7	32.5	34.0	35.4	35.9	37.0	36.9	36.7	36.7	36.8	37.0	36.0	
	13	—	—	—	—	—	—	—	—	—	—	—	—	—
	14	32.0	29.2	28.6	32.2	33.5	34.4	34.3	33.6	34.4	34.4	34.4	34.3	
	15	25.8	27.1	29.9	31.6	32.7	33.4	34.2	34.2	33.8	33.6	33.6	33.9	
	16	32.5	33.1	34.9	36.1	34.3	34.5	35.3	37.3	38.5	35.6	33.5	33.5	
	17	29.1	30.2	33.1	34.8	34.8	34.9	34.8	35.0	35.2	36.2	36.3	36.2	
	18	30.9	30.2	30.6	32.4	32.9	33.2	33.4	33.2	34.0	34.3	33.6	35.6	
	19	28.7	29.4	31.0	32.1	32.8	33.0	32.1	31.4	31.4	31.1	30.5	30.5	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—
	21	29.9	30.5	32.8	33.5	34.0	33.6	32.0	32.1	33.9	35.4	38.0	38.3	
	22	29.2	28.8	33.4	32.3	37.6	35.0	30.3	29.1	29.9	27.8	30.7	31.6	
	23	29.0	27.4	28.7	31.2	33.3	33.9	32.0	32.4	30.8	31.0	30.8	31.5	
	24	25.9	27.5	29.2	30.0	31.1	34.2	32.7	30.1	31.0	30.5	29.8	31.2	
	25	26.1	24.6	24.9	26.8	28.6	29.4	29.2	29.4	29.4	29.8	28.9	28.4	
	26	23.9	24.4	26.3	26.3	27.1	28.2	29.5	27.7	27.5	27.3	27.2	28.2	
	27	—	—	—	—	—	—	—	—	—	—	—	—	—
	28	25.3	26.3	25.8	24.9	23.9	23.6	25.3	25.9	26.9	27.0	27.4	27.2	
	29	22.5	22.5	26.7	24.2	21.9	22.5	24.6	25.9	25.8	25.8	24.7	25.5	
	30	23.5	24.3	26.9	26.2	25.6	25.4	26.4	25.7	24.7	25.7	26.4	26.1	
Hourly Means	28.47	28.97	30.77	32.08	33.36	33.55	33.46	33.06	33.22	33.13	33.45	33.50	33.58	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	63.2	63.6	64.0	64.6	64.7	64.7	64.5	64.4	64.2	64.1	64.0	63.8	
	2	64.6	65.0	65.5	66.1	66.4	66.5	66.6	66.6	66.3	66.2	66.3	66.1	
	3	66.8	67.3	67.8	68.5	68.6	68.8	68.7	68.7	68.6	68.4	68.4	68.1	
	4	66.7	66.8	66.9	67.3	67.4	67.4	67.3	67.1	67.0	66.9	66.7	66.4	
	5	65.3	65.4	65.7	65.8	65.8	65.7	65.6	65.6	65.4	65.2	64.9	64.6	
	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	7	63.8	64.1	64.8	65.5	65.8	66.1	66.0	66.0	65.9	65.7	65.6	65.5	
	8	65.5	65.9	66.3	66.8	67.0	67.1	67.0	67.0	67.0	66.8	66.8	66.8	
	9	65.1	65.4	65.5	65.8	66.0	66.0	66.0	65.9	65.6	65.2	64.9	64.6	
	10	63.0	63.1	63.6	63.9	64.1	64.1	64.1	64.0	63.8	63.5	63.0	62.7	
	11	61.8	62.1	62.5	62.7	62.7	62.7	62.6	62.3	62.3	62.3	62.3	62.1	
	12	62.7	63.1	63.3	63.7	63.8	63.9	64.0	64.0	63.9	63.8	63.8	63.7	
	13	—	—	—	—	—	—	—	—	—	—	—	—	—
	14	63.8	64.1	64.6	65.0	65.4	65.7	65.8	65.8	65.8	65.7	65.6	65.4	
	15	64.3	64.6	64.7	65.1	65.3	65.4	65.6	65.6	65.6	65.5	65.3	65.2	
	16	64.5	64.7	65.0	65.3	65.6	65.7	65.8	65.7	65.5	65.3	65.0	64.8	
	17	63.6	63.9	64.2	64.6	64.7	64.7	64.6	64.3	63.9	63.8	63.4	63.2	
	18	63.0	63.3	63.6	63.8	63.9	63.8	63.8	63.7	63.6	63.4	63.1	62.8	
	19	63.8	64.2	64.6	64.9	65.2	65.3	65.1	64.9	64.8	64.8	64.8	64.7	
	20	—	—	—	—	—	—	—	—	—	—	—	—	—
	21	64.1	64.4	64.7	65.0	65.2	65.3	65.1	65.0	64.9	64.6	64.5	64.3	
	22	64.6	65.0	65.5	65.9	65.9	66.0	66.2	66.3	65.8	65.4	64.9	64.8	
	23	65.1	65.2	65.4	65.6	65.7	65.8	65.8	65.8	65.6	65.4	64.9	64.7	
	24	65.0	65.4	65.8	66.4	66.6	66.7	66.6	66.5	66.3	65.9	65.8	65.6	
	25	65.4	65.7	65.8	66.1	66.5	66.6	66.7	66.6	66.6	66.6	66.6	66.7	
	26	66.6	66.8	67.0	67.2	67.5	67.6	67.6	67.7	67.7	67.6	67.4	66.7	
	27	—	—	—	—	—	—	—	—	—	—	—	—	—
	28	66.1	66.5	66.7	67.1	67.3	67.3	67.5	67.3	67.1	66.9	66.7	66.5	
	29	67.2	67.5	67.8	68.5	68.7	68.8	68.7	68.6	68.5	68.3	68.2	67.9	
	30	68.0	68.3	68.8	69.3	69.6	69.8	69.8	70.0	69.9	69.7	69.5	69.2	
Hourly Means	64.75	65.05	65.39	65.79	65.98	66.06	66.05	65.97	65.82	65.65	65.48	65.27	65.01	

VERTICAL FORCE.

One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	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.																			
NOVEMBER.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	37.3	36.4	34.3	35.3	—	37.8	35.9	34.0	36.0	38.6	38.0	—	37.4	34.5	33.8	34.3	36.3	35.7	—	32.4 ^a	40.7	32.4	31.5	30.4	28.8	—	28.8	28.0	26.7	24.1	
	37.5	36.1	33.9	35.3	—	38.0	36.6	30.8	35.0	38.6	39.3	—	37.2	34.7	34.1	34.3	36.4	36.2	—	34.1	39.7	32.2	31.7	31.3	28.6	—	28.9	27.9	25.9	25.5	
	36.3	36.5	34.5	35.7	—	37.9	36.9	32.7	36.2	39.7	39.0	—	37.7	34.4	34.3	35.0	37.1	36.0	—	34.4	33.4	32.2	32.8	32.5	29.1	—	29.5	28.5	25.9	25.5	
	36.8	36.9	35.4	35.6	—	38.4	37.6	33.4	36.6	39.6	39.6	—	37.7	34.8	34.7	36.3	38.2	36.0	—	34.0	33.4	33.0	33.8	33.2	29.4	—	30.5	29.5	27.7	25.5	
	38.4	32.9	37.0	36.4	—	39.8	37.4	34.6	39.6	40.9	40.9	—	37.9	36.6	36.3	38.8	39.8	37.6	—	36.3	33.1	36.8	35.3	34.1	29.9	—	32.1	30.8	28.2	26.3	
	40.7	37.9	36.8	37.6	—	42.4	39.7	36.6	40.9	43.5	40.2	—	39.7	39.2	38.1	40.5	41.3	40.4	—	38.6	39.2	33.5	36.0	35.8	31.7	—	31.2	28.3	27.5	27.5	
	43.1	37.6	34.5	39.5	—	44.5	41.1	38.5	38.6	42.4	39.8	—	41.1	40.2	39.8	40.6	42.2	40.4	—	36.8	37.3	32.9	35.3	37.4	31.8	—	29.8	27.3	28.1	28.1	
	42.1	34.8	31.9	37.4	—	44.0	42.0	37.4	36.1	41.0	38.4	—	40.6	37.8	37.9	40.6	41.3	41.0	—	31.4	35.4	30.0	32.8	36.9	30.7	—	28.3	23.1	24.9	25.9	
	37.3	32.3	31.5	33.4	—	40.9	38.6	31.5	36.6	39.5	36.4	—	37.8	32.9	35.2	34.2	37.2	37.3	—	27.4	31.0	28.8	29.8	34.3	29.1	—	28.0	21.5	23.7	22.0	
	34.0	31.0	30.1	31.1	—	39.4	33.4	27.7	32.8	36.9	36.9	—	33.8	29.0	34.2	32.5	34.7	34.6	—	24.5	28.4	28.3	26.2	32.3	26.1	—	26.7	23.6	22.8	20.4	
	31.8	29.4	29.9	29.2	—	35.2	30.0	28.1	33.8	33.0	35.7	—	31.7	26.3	32.9	30.7	32.7	30.3	—	25.9	28.8	31.4	25.0	28.7	24.2	—	26.3	27.1	22.7	22.4	
	36.69	35.45	32.66	34.35	—	36.69	35.45	32.66	35.15	38.99	38.05	—	36.66	33.76	33.70	35.33	36.00	34.78	—	31.73	33.98	31.62	31.43	31.74	28.49	—	28.00	26.38	25.14	25.23	
Hourly Means	33.82	33.84	33.99	34.38	35.68	36.97	37.24	35.42	32.62	30.44	29.35	33.08																			

TEMPERATURE OF THE MAGNET.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
NOVEMBER.	63.6	65.8	67.7	65.9	—	63.1	64.9	66.4	63.9	61.9	61.9	—	63.7	64.8	64.9	64.1	62.6	62.5	—	64.4	63.7	64.3	64.1	65.2	66.8	—	65.6	66.0	67.6	68.8
	63.4	65.7	67.5	65.8	—	62.9	64.8	66.1	63.8	61.7	61.8	—	63.5	64.8	64.8	63.9	62.4	62.3	—	64.0	63.6	64.1	63.9	64.9	66.8	—	64.0	65.8	67.5	68.7
	63.0	65.5	67.1	65.8	—	62.7	64.5	65.8	63.7	61.5	61.7	—	63.0	64.5	64.8	63.7	62.7	62.0	—	63.6	63.0	63.8	63.8	64.6	66.6	—	63.6	65.8	67.5	68.3
	63.0	65.1	66.8	65.6	—	62.6	64.3	65.5	63.5	61.1	61.6	—	62.8	64.3	64.7	63.3	62.1	61.9	—	63.4	63.5	64.6	64.3	64.3	66.6	—	63.4	65.8	67.4	68.0
	63.0	65.0	66.8	65.5	—	62.5	64.1	65.4	63.5	60.8	61.6	—	62.6	64.1	64.6	62.9	61.8	61.9	—	63.3	62.9	63.7	63.5	64.2	66.6	—	63.3	65.7	67.2	67.9
	62.9	64.8	66.5	65.2	—	62.5	63.9	65.2	62.5	60.7	61.5	—	62.4	63.2	64.6	62.7	61.8	62.0	—	63.1	63.0	64.6	63.3	64.1	66.3	—	63.1	65.5	67.0	68.0
	62.9	64.9	66.3	65.0	—	62.5	64.0	65.0	62.5	60.6	61.4	—	62.5	63.3	64.6	62.6	61.8	62.1	—	63.0	63.0	64.6	63.3	64.2	66.1	—	63.0	65.6	67.0	68.0
	63.1	65.0	66.3	65.0	—	62.6	64.0	64.8	62.5	60.7	61.5	—	62.6	63.4	64.5	62.6	62.0	62.3	—	63.3	63.2	64.5	63.6	64.3	66.1	—	63.3	65.8	67.2	68.1
	63.3	65.2	66.4	64.9	—	62.8	64.2	64.8	62.8	61.0	61.7	—	63.0	63.6	64.5	62.8	62.3	62.5	—	63.6	63.5	64.5	63.8	64.5	66.2	—	63.6	65.5	67.4	68.2
	63.7	65.7	66.5	65.0	—	62.9	64.7	64.9	62.9	61.2	62.0	—	63.3	63.7	64.3	63.1	62.3	62.8	—	63.6	63.7	64.3	64.1	64.8	66.3	—	63.6	66.4	67.6	68.6
	64.0	66.2	66.6	65.1	—	63.3	65.0	64.9	62.9	61.5	62.4	—	63.6	64.0	64.3	63.3	62.6	63.4	—	63.8	64.0	64.5	64.5	65.1	66.5	—	63.8	66.7	67.7	68.8
	63.73	65.71	67.55	66.20	—	64.12	64.93	66.06	64.28	62.41	62.06	—	63.37	64.57	64.92	64.27	63.16	62.93	—	64.20	64.10	64.84	64.62	65.34	66.40	—	66.23	66.43	67.82	68.83
Hourly Means	64.78	64.60	64.37	64.17	64.03	63.89	63.88	63.97	64.15	64.38	64.67	64.96																		

^a Needle vibrating.

VERTICAL FORCE.														
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
DECEMBER.	1	20.9	19.8	19.9	21.1	24.7	24.7	23.9	23.4	22.6	23.2	23.1	23.7	
	2	15.8	18.6	20.6	21.4	21.3	21.2	21.4	22.3	22.8	23.4	23.1	23.2	
	3	14.7	22.3	23.6	24.5	24.8	24.4	23.5	23.7	24.5	24.3	24.3	24.7	
	4	—	—	—	—	—	—	—	—	—	—	—	—	24.0
	5	15.5	16.8	19.5	20.1	19.5	18.8	19.0	19.9	20.8	19.3	19.4	20.4	21.2
	6	16.4	19.7	22.5	23.9	23.0	21.6	21.8	22.7	23.6	23.9	23.8	23.7	24.5
	7	19.1	18.1	21.0	25.4	26.0	26.7	26.5	25.4	24.8	22.8	24.7	25.6	20.0
	8	17.7	16.9	19.7	23.0	22.7	22.4	22.1	21.9	23.3	22.2	20.9	20.5	21.4
	9	15.7	16.6	19.8	22.0	23.9	24.8	26.5	30.2	26.3	27.0	20.3	21.2	18.4
	10	16.7	16.5	18.1	20.4	21.2	20.8	19.8	20.7	21.5	21.5	19.9	18.1	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	21.0
	12	18.4	17.0	16.2	17.6	17.8	18.6	19.2	19.6	19.3	19.5	19.6	19.7	20.0
	13	13.1	13.6	15.1	13.8	14.5	15.0	16.0	17.4	20.5	23.2	24.6	23.0	22.9
	14	19.5	17.2	17.9	18.6	18.1	18.1	19.1	19.3	19.5	20.0	19.7	20.1	20.4
	15	14.4	14.7	16.3	18.5	18.7	16.4	17.5	19.3	18.4	19.2	18.3	18.3	19.3
	16	14.5	13.4	14.3	16.2	15.7	14.8	15.5	16.7	17.5	16.9	16.4	16.4	16.7
	17	8.3	8.6	11.6	13.2	12.6	12.4	12.7	14.2	13.5	14.0	14.7	14.7	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	14.5
	19	5.9	5.9	8.2	10.4	12.4	12.4	12.8	11.4	11.4	12.5	11.9	13.5	12.4
	20	0.6	2.1	7.9	9.7	9.4	9.3	9.7	9.4	9.8	10.5	11.2	11.4	12.0
	21	5.7	5.7	8.9	11.8	12.7	13.9	14.4	12.5	12.5	14.1	14.1	13.6	14.0
	22	9.4	8.0	10.0	10.7	11.4	11.4	12.1	11.6	12.8	11.6	11.2	12.4	14.0
	23	10.5	12.0	14.3	16.0	15.6	15.0	15.0	14.2	14.1	13.7	14.1	14.6	15.1
	24	13.4	11.3	12.7	13.7	13.9	15.5	17.0	16.4	15.9	16.1	15.9	16.4	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	15.0
	26	13.0	11.5	11.5	12.1	12.7	12.5	14.0	14.3	13.8	13.6	13.9	14.1	14.8
	27	11.3	11.1	12.6	15.1	14.1	12.6	12.7	14.7	12.7	12.7	13.7	14.4	13.3
	28	12.9	10.4	10.9	12.0	11.7	11.6	11.6	13.7	15.7	14.2	13.5	12.8	13.4
	29	9.1	7.7	8.6	9.3	9.5	11.4	14.3	14.6	14.6	14.3	14.5	13.6	14.9
	30	12.7	11.6	14.1	11.9	10.1	11.2	9.9	10.3	10.7	10.4	10.3	10.6	11.1
	31 ^a	10.5	10.9	10.4	11.7	10.2	9.8	9.6	9.5	9.2	9.9	10.5	10.5	—
Hourly Means	13.28	13.37	15.22	16.63	16.85	16.83	17.23	17.68	17.80	17.85	17.58	17.70	17.74	
TEMPERATURE OF THE MAGNET.														
	1	2	3	4	5	6	7	8	9	10	11	12	13	
	69.4	69.8	70.0	70.6	70.7	70.8	70.9	70.8	70.6	70.4	70.1	69.8	69.7	
DECEMBER.	1	69.4	69.8	70.0	70.6	70.7	70.8	70.9	70.8	70.6	70.4	70.1	69.8	69.7
	2	69.8	70.1	70.3	70.6	70.8	70.9	71.0	70.8	70.7	70.5	70.1	69.8	69.5
	3	68.6	68.7	69.0	69.2	69.4	69.5	69.3	69.0	68.8	68.5	68.2	68.0	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	67.8
	5	69.0	69.7	70.5	71.0	71.7	71.9	71.8	71.8	71.7	71.6	71.3	71.0	70.6
	6	69.4	69.3	69.1	69.1	69.1	69.0	68.8	68.4	68.0	67.6	67.3	67.0	66.7
	7	66.2	66.5	66.8	67.1	67.6	67.8	68.1	68.1	68.0	67.8	67.8	67.8	67.6
	8	67.5	68.0	68.4	68.9	69.3	69.6	69.9	69.9	69.9	69.8	69.7	69.6	69.5
	9	69.5	69.8	70.1	70.5	70.8	71.1	71.1	71.4	71.5	71.3	70.8	70.6	70.0
	10	69.4	69.6	69.8	70.3	70.7	70.7	70.7	70.5	70.2	70.0	69.8	69.7	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	68.1
	12	67.9	68.2	68.7	69.0	69.3	69.6	69.6	69.8	69.6	69.5	69.5	69.1	68.9
	13	68.9	69.2	69.3	69.5	69.6	69.5	69.4	69.0	68.6	68.2	67.8	67.4	67.0
	14	66.6	67.1	67.7	68.2	68.6	68.9	69.0	68.8	68.8	68.6	68.3	68.0	67.7
	15	68.2	68.8	69.1	69.5	69.6	69.6	69.7	69.5	69.3	69.0	68.7	68.3	67.9
	16	69.2	69.8	70.6	71.0	71.4	71.5	71.4	71.0	70.8	70.6	70.3	70.1	69.9
	17	71.7	72.2	72.5	72.6	72.9	73.0	73.0	72.8	72.6	72.6	72.4	72.2	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	74.3
	19	74.5	74.8	75.0	75.3	75.6	75.6	75.7	75.6	75.2	74.9	74.8	74.7	74.5
	20	75.6	76.0	76.6	76.9	76.9	77.0	77.0	76.7	76.3	75.8	75.5	75.1	74.6
	21	72.7	72.8	73.1	73.2	73.3	73.4	73.3	73.0	72.7	72.4	71.9	72.0	71.9
	22	71.7	72.1	72.3	72.5	72.6	72.7	72.8	72.9	72.8	72.7	72.4	71.9	71.5
	23	70.4	70.7	71.0	71.3	71.5	71.6	71.6	71.5	71.3	71.0	70.7	70.5	70.1
	24	68.8	68.9	69.1	69.3	69.3	69.3	69.2	69.2	68.8	68.6	68.4	68.0	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	69.0
	26	68.7	69.0	69.3	69.6	69.9	70.1	70.2	70.2	69.9	69.7	69.4	69.0	68.6
	27	67.8	68.2	68.8	69.3	69.6	69.7	69.8	69.9	69.8	69.6	69.4	69.1	68.9
	28	69.0	69.2	69.4	69.7	69.8	69.9	70.0	70.0	69.9	69.8	69.6	69.5	69.5
	29	69.6	69.9	70.1	70.6	70.7	70.7	70.8	70.6	70.3	69.9	69.6	69.2	68.8
	30	69.0	69.5	69.9	70.5	70.9	71.2	71.6	71.6	71.5	71.3	71.3	71.0	70.9
	31 ^a	70.6	70.9	71.2	71.6	71.8	71.8	71.7	71.5	71.2	70.9	70.7	70.5	—
Hourly Means	69.58	69.92	70.25	70.59	70.83	70.95	70.99	70.88	70.68	70.45	70.20	69.94	69.75	

^a Omitted in the means.

VERTICAL FORCE.													
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.													
Mean Göttingen Time.	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.	
DECEMBER.	1	24.1	23.7	23.9	25.4	26.9	28.0	26.5	24.5	22.9	19.3	16.0	23.14
	2	23.8	24.1	24.8	25.3	26.9	28.6	28.9	27.3	22.1	17.2	17.8	22.72
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	24.5	25.2	25.5	26.0	25.9	26.6	26.2	25.8	22.1	19.6	16.3	23.63
	5	20.9	21.0	21.4	21.5	24.5	24.1	24.8	21.9	18.2	17.0	15.4	20.04
	6	24.7	25.5	26.3	25.1	25.1	25.6	26.2	25.4	22.2	17.3	20.3	23.12
	7	24.9	23.8	23.6	24.2	25.8	22.3	26.4	22.2	18.3	17.7	16.7	23.00
	8	21.7	21.5	22.5	22.8	23.4	23.9	23.0	21.9	17.0	14.9	15.3	20.94
	9	21.3	20.9	21.9	21.8	24.1	25.3	25.8	22.9	20.1	17.1	16.0	22.08
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	21.0	21.0	21.0	21.7	22.9	26.2	24.9	23.5	20.6	15.9	17.3	20.51
	12	19.7	20.9	20.9	20.9	21.9	23.5	22.4	19.0	13.9	11.0	12.3	18.70
	13	22.9	24.1	24.4	23.3	22.6	21.8	22.1	18.2	16.7	15.8	20.1	19.36
	14	19.7	20.1	20.7	21.6	22.7	23.1	20.9	18.8	16.0	14.4	14.1	19.15
	15	18.3	19.9	20.6	19.8	20.9	20.7	17.7	14.9	12.8	11.7	14.3	17.54
	16	16.4	16.0	16.6	17.0	17.3	17.6	17.7	17.3	15.4	12.7	10.3	15.80
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	13.6	14.2	14.8	14.6	15.5	16.0	15.0	12.8	9.7	7.6	7.1	12.75
	19	12.4	13.6	13.8	13.0	14.1	14.2	13.0	10.5	8.9	6.1	2.6	10.97
	20	12.1	12.6	12.8	12.7	14.2	14.2	13.2	11.0	10.5	10.5	8.0	10.20
	21	13.8	14.3	13.8	14.5	15.6	16.9	17.8	17.5	15.0	12.4	11.0	13.19
	22	14.1	15.1	15.4	17.7	15.2	15.6	14.6	11.8	9.8	9.6	10.5	12.33
	23	15.3	16.1	16.6	16.9	17.2	17.8	17.6	18.0	18.3	18.7	16.6	15.55
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	15.5	15.1	15.3	16.2	17.6	17.6	16.4	14.5	11.8	11.4	11.4	14.83
	26	15.3	15.6	15.8	16.2	16.7	17.0	18.2	18.5	17.3	17.1	14.7	14.76
	27	14.6	14.9	16.9	15.8	16.7	15.7	14.3	13.5	11.9	13.4	15.3	13.92
	28	13.1	12.6	13.9	14.8	14.8	13.8	12.0	11.3	10.1	11.1	11.1	12.63
	29	13.4	13.4	13.4	14.3	15.7	17.0	14.9	13.8	13.0	13.9	15.2	13.10
	30	12.0	10.7	10.8	11.1	12.3	13.3	13.4	12.1	10.1	9.4	10.4	11.27
	31 ^a	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	18.04	18.30	18.75	19.01	19.87	20.25	19.77	18.03	15.57	13.99	13.70	17.12	
TEMPERATURE OF THE MAGNET.													
DECEMBER.	1	69.5	69.1	68.7	68.5	68.4	68.3	68.5	68.6	68.8	69.2	69.5	69.61
	2	69.2	69.0	68.7	68.5	68.0	67.9	67.8	67.8	68.0	68.0	68.1	69.41
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	67.6	67.4	67.4	67.3	67.1	67.1	67.2	67.4	67.7	68.0	68.4	68.19
	5	70.4	70.0	69.9	69.9	69.6	69.3	69.2	69.2	69.2	69.5	69.4	70.39
	6	66.5	66.2	65.9	65.8	65.5	65.5	65.4	65.4	65.5	65.8	65.9	67.18
	7	67.4	67.1	66.8	66.5	66.4	66.3	66.3	66.4	66.6	66.8	67.1	67.12
	8	69.4	69.2	68.8	68.6	68.4	68.1	68.1	68.3	68.4	68.8	69.0	68.96
	9	69.3	69.2	68.9	68.8	68.6	68.4	68.4	68.5	68.6	68.8	69.1	69.80
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	67.9	67.7	67.6	67.5	67.4	67.1	67.0	67.1	67.3	67.6	67.7	68.81
	12	68.8	68.7	68.4	68.1	68.0	68.0	67.9	67.9	68.1	68.3	68.6	68.73
	13	66.8	66.5	66.0	65.6	65.4	65.3	65.1	65.2	65.5	65.7	66.1	67.36
	14	67.4	67.0	66.7	66.5	66.3	66.3	66.4	66.6	66.9	67.1	67.8	67.55
	15	67.7	67.5	67.4	67.3	67.2	67.3	67.3	67.6	67.8	68.2	68.6	68.38
	16	69.9	69.6	69.6	69.5	69.3	69.3	69.4	69.7	70.0	70.6	71.1	70.23
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	74.2	74.0	73.8	73.8	73.7	73.5	73.5	73.5	73.6	73.8	74.1	73.18
	19	74.4	74.1	73.9	73.8	73.7	73.6	73.7	73.8	74.0	74.6	75.0	74.62
	20	74.3	74.0	73.6	73.1	72.9	72.7	72.6	72.5	72.4	72.3	72.5	74.70
	21	71.7	71.5	71.6	71.5	71.0	70.8	70.8	70.8	71.1	71.3	71.4	72.05
	22	71.1	70.8	70.6	70.3	70.0	69.8	69.8	69.8	69.9	70.0	70.2	71.38
	23	69.8	69.5	69.0	68.8	68.6	68.3	68.2	68.3	68.3	68.5	68.6	69.96
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	68.8	68.7	68.4	68.1	67.7	67.6	67.6	67.6	67.9	68.2	68.5	68.54
	26	68.2	67.8	67.4	66.9	66.7	66.5	66.6	66.6	66.9	67.0	67.5	68.40
	27	68.8	68.8	68.6	68.5	68.3	68.1	68.1	68.3	68.5	68.6	68.8	68.89
	28	69.4	69.3	69.2	69.1	69.0	68.8	68.8	68.8	68.8	69.0	69.4	69.37
	29	68.5	68.2	67.8	67.6	67.4	67.6	67.6	67.7	68.0	68.4	68.8	69.10
	30	70.8	70.6	70.3	70.1	69.9	69.8	69.7	69.8	70.0	70.1	70.5	70.49
	31 ^a	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	69.53	69.29	69.04	68.85	68.63	68.51	68.50	68.58	68.77	69.01	69.30	69.71	

^a Omitted in the means.

VERTICAL FORCE.														
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^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.	
JANUARY.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	43.1	44.3	50.2	53.8	57.1	53.2	47.3	46.6	49.3	45.8	46.7	48.4	47.3
	3	38.2	36.4	40.0	43.5	43.6	43.2	43.1	41.7	40.2	41.8	42.9	43.9	44.3
	4	36.6	38.3	41.3	42.5	42.9	43.0	44.0	43.4	42.8	43.8	43.9	44.8	44.8
	5	39.7	41.7	43.9	44.5	44.2	44.2	43.7	42.7	42.5	43.1	44.1	44.3	45.0
	6	40.9	40.2	43.1	46.0	45.2	43.8	44.1	43.4	42.4	43.0	43.0	43.6	43.9
	7	34.6	34.6	39.7	40.8	43.4	43.6	43.8	42.7	43.3	42.6	43.0	43.7	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	42.4
	9	36.9	37.0	38.1	39.8	40.0	39.0	41.2	43.0	42.6	41.5	41.5	41.2	41.8
	10	42.6	40.6	39.6	40.6	41.2	42.5	41.5	42.5	42.0	42.3	42.3	43.7	45.6
	11	42.3	40.6	41.0	40.8	39.7	41.6	44.4	47.7	51.2	47.5	42.9	44.7	44.5
	12	42.5	40.9	41.8	43.3	43.7	44.0	44.0	44.6	44.6	45.0	45.3	46.1	45.6
	13	47.5	48.3	48.2	47.7	46.3	45.4	46.1	46.1	46.3	46.5	47.2	47.9	48.1
	14	44.8	44.8	46.0	44.6	42.9	41.8	41.9	43.2	43.2	44.2	44.9	44.9	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	44.5
	16	43.5	44.6	43.3	44.2	43.5	43.5	41.2	41.3	40.1	41.3	43.0	44.7	44.3
	17	41.8	39.9	40.9	43.8	44.8	45.0	44.9	44.1	43.0	43.0	44.0	44.5	44.8
	18	38.6	36.2	37.8	40.3	39.9	38.4	40.2	41.3	41.8	41.6	42.1	43.6	41.9
	19	37.5	36.2	35.7	36.1	37.3	37.9	38.9	40.1	38.9	38.3	38.3	39.9	39.9
	20	37.0	36.2	36.5	37.7	40.1	41.2	41.1	40.7	40.2	40.2	40.3	40.8	41.3
	21	37.6	35.8	38.5	41.1	41.1	40.5	41.4	42.1	42.3	42.0	42.4	43.1	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	46.1
	23	41.1	36.7	35.8	38.0	41.0	41.7	41.7	42.5	42.5	41.1	40.6	42.2	40.3
	24	41.5	38.2	37.9	37.8	35.5	37.3	39.4	40.3	40.6	40.5	39.9	39.9	42.3
	25	41.0	38.5	35.9	35.7	35.7	35.2	36.2	37.8	37.7	37.0	37.8	38.7	38.7
	26	37.5	37.4	40.4	41.0	37.8	35.1	37.1	38.5	39.2	38.9	39.0	38.9	39.3
	27	37.2	38.2	40.9	40.9	39.5	38.3	37.7	38.2	39.4	40.4	39.8	39.4	39.1
	28	36.8	38.8	40.6	40.1	39.1	44.5	43.9	46.5	44.7	45.3	44.3	45.1	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	41.9
	30	42.0	42.6	44.1	42.7	42.1	40.6	39.3	38.7	38.9	39.2	39.7	39.8	39.9
	31	35.6	35.6	36.3	37.4	37.9	37.7	37.9	35.7	36.8	36.8	37.2	37.8	38.1
Hourly Means	39.94	39.33	40.67	41.72	41.75	41.62	41.77	42.13	42.17	42.03	42.16	42.91	42.91	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
JANUARY.	1	—	—	—	—	—	—	—	—	—	—	—	—	
	2	68.6	69.0	69.6	70.3	70.7	71.1	71.5	71.5	71.3	71.1	70.9	70.8	70.7
	3	72.4	73.1	73.8	74.7	75.2	75.8	76.1	76.2	76.1	76.0	75.9	75.7	75.5
	4	73.5	73.7	73.7	73.9	74.3	74.6	74.5	74.5	74.4	74.1	73.9	73.6	73.1
	5	72.5	72.7	73.3	73.9	74.4	74.7	74.8	74.8	74.6	74.4	74.1	73.8	73.6
	6	72.8	73.1	73.4	74.0	74.2	74.4	74.6	74.6	74.5	74.2	73.9	73.6	73.3
	7	72.9	73.5	73.8	74.1	74.5	74.6	74.6	74.4	74.0	73.8	73.3	73.0	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	74.4
	9	73.7	74.1	74.5	74.9	75.4	75.7	75.8	75.8	75.8	75.6	75.3	74.9	74.3
	10	73.8	74.1	74.6	75.2	75.3	75.6	75.6	75.3	74.9	74.5	74.2	73.7	73.2
	11	72.8	73.1	73.5	73.8	73.8	73.9	74.0	73.9	73.7	73.8	73.7	73.3	72.8
	12	72.2	72.4	72.6	73.0	73.3	73.4	73.6	73.2	72.8	72.7	72.4	72.0	71.8
	13	70.7	70.7	70.9	71.0	71.1	71.1	70.7	70.4	70.1	69.7	69.3	69.0	68.8
	14	70.3	70.9	71.6	72.1	72.6	72.8	72.9	72.8	72.7	72.3	72.1	71.8	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	71.9
	16	70.5	70.9	71.3	71.8	72.1	72.4	72.6	72.5	72.4	72.2	71.8	71.6	71.3
	17	70.5	70.8	71.0	71.5	71.6	71.8	72.0	71.8	71.6	71.3	71.1	70.9	70.7
	18	70.8	71.4	72.0	72.4	72.6	72.9	72.9	72.9	72.8	72.5	72.3	72.3	72.2
	19	72.1	72.8	73.5	73.8	74.0	74.2	74.2	74.3	74.2	74.1	73.8	73.1	72.8
	20	71.7	72.0	72.3	72.7	72.7	72.7	72.7	72.7	72.6	72.4	72.0	71.9	71.5
	21	69.5	69.5	69.4	69.6	69.7	69.6	69.5	69.3	69.0	68.8	68.5	67.9	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	67.3
	23	67.1	67.7	68.2	68.7	69.0	69.3	69.5	69.3	69.0	68.8	68.7	68.6	68.3
	24	68.3	68.8	69.3	69.8	70.2	70.5	70.5	70.3	70.1	69.9	69.7	69.5	69.2
	25	70.0	70.6	71.1	71.7	71.8	72.0	72.0	71.8	71.6	71.2	70.8	70.6	70.0
	26	70.1	70.4	70.9	71.3	71.7	71.8	71.8	71.8	71.7	71.5	70.9	70.8	70.5
	27	69.3	69.5	69.7	69.9	70.0	70.1	70.1	70.0	69.9	69.7	69.6	69.3	68.8
	28	67.0	67.1	67.3	67.5	67.6	67.6	67.6	67.5	67.0	66.8	66.5	66.1	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	66.6
	30	66.4	66.9	67.3	67.6	68.1	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.6
	31	68.7	68.9	69.5	69.9	70.4	70.6	70.6	70.5	70.3	70.0	69.7	69.4	69.1
Hourly Means	70.70	71.07	71.47	71.89	72.17	72.37	72.44	72.34	72.15	71.93	71.66	71.38	71.17	

^a New adjustment.

VERTICAL FORCE.														
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^h .	
FEBRUARY.	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.	
	1	37.1	38.8	37.2	37.4	39.0	39.5	38.9	38.3	38.3	38.0	38.2	38.9	39.0
	2	31.1	32.4	31.8	32.3	33.8	33.2	32.5	32.1	32.6	32.7	32.6	32.9	33.4
	3	23.2	24.7	26.0	26.2	30.5	32.1	31.9	31.0	31.0	30.7	31.2	31.9	32.1
	4	24.2	24.8	26.9	29.9	32.3	33.7	32.7	30.7	31.7	32.0	33.0	34.4	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	35.7
	6	25.0	24.3	26.5	30.0	29.7	30.9	34.1	36.1	36.6	37.4	42.1	30.4	29.6
	7	26.5	26.5	29.5	27.7	27.2	33.5	32.0	32.1	29.9	30.2	30.4	30.4	30.5
	8	26.8	26.4	28.5	30.8	30.6	31.7	32.6	32.2	32.5	32.3	32.7	34.4	33.5
	9	30.9	31.1	33.5	35.8	36.2	36.4	34.8	34.0	34.0	34.0	34.1	34.6	34.6
	10	27.5	28.7	30.7	32.5	33.0	33.2	33.9	34.3	33.5	32.7	31.8	32.4	33.2
	11	27.9	26.5	27.6	28.9	29.9	30.4	30.4	29.8	30.8	31.4	30.8	31.3	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	31.3
	13	23.6	27.7	31.0	34.5	36.6	35.6	33.5	32.4	32.2	33.5	36.3	31.9	31.9
	14	25.3	28.3	33.5	34.2	36.0	35.5	33.3	31.5	31.9	33.4	31.6	31.0	30.5
	15	20.3	23.6	27.2	30.4	33.5	32.2	31.7	31.3	30.5	31.4	30.1	30.5	32.1
	16	24.9	25.7	28.8	32.0	34.8	35.8	34.8	33.7	34.1	34.4	34.3	33.9	34.1
	17	25.9	26.5	29.9	33.4	37.5	38.9	38.9	36.9	36.0	35.3	35.1	36.7	36.2
	18	32.8	27.7	27.9	30.4	32.5	35.8	36.0	35.3	34.7	34.2	33.8	33.1	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	35.0
	20	25.4	23.4	25.6	28.2	30.8	33.4	34.6	33.7	30.9	30.1	30.2	30.7	32.4
	21	20.4	17.8	20.8	25.4	28.8	30.8	30.2	30.2	30.4	30.0	29.9	29.4	29.3
	22	21.4	20.8	22.7	25.5	28.1	29.2	30.0	30.0	30.2	30.4	30.4	30.7	32.1
	23	26.6	29.2	30.8	33.2	34.6	34.3	33.8	33.5	33.7	33.3	33.3	33.0	33.8
	24	30.6	29.6	33.5	34.6	37.5	38.6	38.2	40.4	42.7	39.0	37.9	38.2	35.1
	25	31.0	31.7	33.1	34.7	36.1	36.4	36.5	37.0	36.4	36.6	37.3	37.8	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	41.3
	27	31.6	30.5	32.7	36.4	38.4	40.6	40.6	39.9	41.1	41.3	42.4	42.1	41.7
28	31.0	32.1	34.6	36.9	38.5	38.9	38.8	38.2	38.5	38.8	39.0	39.0	39.1	
Hourly Means	27.13	27.45	29.60	31.72	33.58	34.61	34.36	33.94	33.93	33.88	34.10	33.73	34.06	
TEMPERATURE OF THE MAGNET.														
FEBRUARY.	°	°	°	°	°	°	°	°	°	°	°	°	°	
	1	67.8	68.1	68.6	68.9	69.0	69.1	69.1	68.9	68.8	68.6	68.2	68.2	68.0
	2	69.8	70.4	71.4	72.1	72.6	73.2	73.4	73.5	73.4	73.2	72.7	72.5	72.2
	3	72.7	73.1	73.5	73.7	73.9	74.0	73.9	73.7	73.3	72.8	72.7	72.5	72.3
	4	71.3	71.4	71.5	71.5	71.1	70.8	70.5	70.1	69.9	69.5	69.2	68.9	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	68.5
	6	69.7	70.1	70.8	71.4	71.9	72.2	72.4	72.3	72.1	72.0	71.8	71.8	71.7
	7	72.5	73.0	73.4	73.7	73.8	74.1	74.0	73.9	73.8	73.7	73.3	72.9	72.6
	8	70.6	71.0	71.1	71.7	71.8	72.0	72.0	71.9	71.7	71.5	71.2	70.9	70.6
	9	68.8	69.0	69.3	69.6	69.7	69.8	69.8	69.7	69.3	68.9	68.8	68.6	68.4
	10	68.1	68.5	69.0	69.4	69.7	70.0	70.1	70.1	70.0	69.8	69.7	69.6	69.5
	11	69.6	69.9	70.6	71.1	71.7	72.0	72.2	72.5	72.4	72.2	71.8	71.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	70.8
	13	70.1	70.2	70.1	70.3	70.3	70.0	69.9	69.8	69.7	69.6	69.3	69.0	68.7
	14	68.1	68.5	68.6	69.2	69.4	69.6	69.8	69.8	69.7	69.6	69.4	69.2	68.8
	15	67.3	67.5	67.8	68.3	68.6	69.0	69.1	69.3	69.1	69.1	69.0	68.8	68.6
	16	68.2	68.4	68.3	68.4	68.5	68.4	68.6	68.5	68.3	67.9	67.8	67.6	67.4
	17	66.6	66.8	66.9	67.4	67.5	67.6	67.8	67.8	67.6	67.6	67.3	67.1	67.0
	18	68.0	68.5	69.1	69.7	70.0	70.3	70.5	70.5	70.2	69.9	69.7	69.5	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	69.3
	20	69.8	70.5	71.2	71.7	72.4	72.7	72.8	72.9	72.8	72.9	72.9	73.0	72.8
	21	73.8	74.3	74.7	75.0	75.2	75.3	75.4	75.3	75.1	75.0	74.8	74.8	74.8
	22	74.6	75.0	75.5	76.1	76.2	76.3	76.3	76.0	75.8	75.6	75.1	74.8	74.5
	23	73.5	73.6	73.8	73.9	73.9	73.8	73.7	73.5	73.3	73.0	72.7	72.5	72.1
	24	71.6	71.9	72.3	72.7	72.8	73.0	72.7	72.8	73.1	73.3	73.3	73.3	73.1
	25	71.4	71.5	71.7	71.8	71.8	71.7	71.9	71.9	71.9	71.8	71.7	71.2	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	65.1
	27	64.9	65.2	65.4	65.6	65.9	66.0	65.8	65.7	65.3	65.1	65.1	64.9	64.8
28	64.9	65.4	65.7	66.0	66.4	66.7	66.8	66.9	66.9	66.7	66.8	66.5	66.4	
Hourly Means	69.74	70.08	70.43	70.80	71.00	71.15	71.19	71.14	70.98	70.80	70.60	70.40	69.92	

VERTICAL FORCE.

One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	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.	
FEBRUARY.	1	39.1	39.1	39.1	39.1	39.7	41.1	42.4	41.8	38.2	36.5	35.0	38.74
	2	33.5	34.1	34.4	34.4	35.8	37.8	37.7	34.7	30.5	27.3	23.2	32.78
	3	32.6	33.3	33.4	33.5	34.2	36.3	38.2	40.1	34.7	30.2	26.3	31.47
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	35.0	37.0	36.9	36.3	37.5	37.9	39.7	40.4	39.3	34.3	28.3	33.53
	6	31.3	32.8	31.3	32.8	33.7	35.9	38.0	39.0	35.6	31.8	29.0	32.66
	7	31.0	32.6	33.0	33.2	33.8	34.8	36.0	36.6	37.1	35.4	30.7	31.69
	8	33.9	34.8	34.8	33.7	35.6	38.0	40.4	40.6	37.8	35.3	32.4	33.43
	9	36.1	35.8	35.4	35.3	36.1	38.3	39.3	37.2	33.2	27.8	26.3	34.37
	10	33.9	33.9	33.0	34.1	34.6	36.1	35.1	34.2	32.1	31.1	30.1	32.73
	11	—	—	—	—	—	—	—	—	—	—	—	
	12	31.3	30.3	31.5	30.3	33.5	35.1	37.6	35.3	30.2	25.4	22.4	30.41
	13	29.6	32.8	33.8	33.8	34.7	35.8	38.2	36.1	34.6	30.5	28.0	32.86
	14	30.8	31.8	32.6	32.6	33.6	35.1	36.5	35.9	32.8	26.3	22.8	31.95
	15	34.0	30.8	31.7	32.5	33.3	34.1	35.9	38.2	33.7	26.6	25.7	30.89
	16	34.9	35.2	35.2	35.2	35.1	—	39.8	43.1	39.9	34.0	28.8	34.02
	17	36.2	36.3	38.4	38.5	37.4	38.7	40.7	45.1	47.0	46.6	41.5	37.23
	18	—	—	—	—	—	—	—	—	—	—	—	
	19	35.6	34.9	36.0	35.6	35.7	35.6	36.4	39.7	41.2	38.2	31.6	34.57
	20	28.0	31.7	32.1	32.7	33.2	32.9	34.2	37.2	36.5	33.0	27.9	31.20
	21	29.4	29.9	30.1	30.2	30.5	30.7	32.8	34.1	32.4	26.8	23.2	28.48
	22	32.6	32.3	32.3	32.8	33.1	34.2	36.8	35.8	28.1	20.7	23.5	29.32
	23	34.7	34.7	35.9	36.9	36.7	37.7	38.9	39.4	36.6	30.4	29.4	33.93
	24	32.2	34.1	34.9	36.4	35.7	36.9	41.6	40.3	37.0	31.8	28.4	36.05
	25	—	—	—	—	—	—	—	—	—	—	—	
	26	41.0	40.7	41.1	41.6	41.3	41.8	45.4	47.4	46.9	42.6	36.3	38.83
	27	41.7	41.7	41.7	41.2	40.8	41.9	45.0	48.3	48.8	42.0	34.7	40.30
	28	39.6	39.6	39.5	38.4	38.3	39.6	41.9	44.6	43.5	39.0	34.0	38.39
Hourly Means	34.08	34.59	34.92	35.05	35.58	36.80	38.69	39.38	36.99	32.65	29.15	33.74	

TEMPERATURE OF THE MAGNET.

	1	67.9	67.7	67.7	67.5	67.5	67.5	67.5	67.7	68.0	68.5	69.0	68.24
	2	72.0	71.6	71.2	70.9	70.9	70.7	70.6	70.6	71.0	71.6	72.2	71.82
	3	71.9	71.8	71.5	71.2	70.8	70.8	70.6	70.6	70.8	70.9	71.1	72.25
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	68.5	68.3	68.2	68.1	68.0	68.0	68.1	68.4	68.6	68.8	69.2	69.43
	6	71.5	71.4	71.5	71.1	71.0	70.9	70.9	71.1	71.3	71.5	72.1	71.44
	7	72.5	72.3	72.0	71.6	71.3	71.0	70.8	70.6	70.5	70.2	70.5	72.42
	8	70.3	69.9	69.5	69.0	68.8	68.6	68.3	68.3	68.3	68.6	68.7	70.26
	9	68.0	67.8	67.5	67.3	67.1	67.0	67.0	67.0	67.2	67.5	67.8	68.37
	10	69.4	69.2	69.0	68.8	68.6	68.4	68.3	68.3	68.5	68.8	69.1	69.16
	11	—	—	—	—	—	—	—	—	—	—	—	
	12	70.6	70.5	70.5	70.3	70.0	69.8	69.7	69.6	69.6	69.6	69.9	70.77
	13	68.5	68.3	68.2	67.8	67.6	67.5	67.5	67.4	67.5	67.7	67.8	68.87
	14	68.5	68.0	67.6	67.2	66.8	66.6	66.4	66.5	66.6	66.6	67.0	68.23
	15	68.4	68.0	67.8	67.6	67.5	67.6	67.3	67.5	67.6	67.8	68.0	68.19
	16	67.1	66.8	66.5	66.1	65.8	—	65.5	65.5	65.7	65.9	66.3	67.28
	17	67.0	66.8	66.8	66.8	66.8	66.7	66.8	66.8	67.0	67.3	67.5	67.14
	18	—	—	—	—	—	—	—	—	—	—	—	
	19	69.1	69.0	68.8	68.6	68.5	68.3	68.3	68.5	68.7	68.9	69.3	69.22
	20	72.7	72.6	72.6	72.5	72.3	72.3	72.4	72.4	72.6	72.8	73.5	72.38
	21	74.7	74.5	74.0	73.9	73.6	73.6	73.4	73.4	73.6	73.8	74.1	74.42
	22	74.2	73.9	73.7	73.6	73.5	73.0	72.9	72.9	72.8	73.0	73.3	74.53
	23	71.8	71.7	71.6	71.4	71.0	70.8	70.6	70.6	70.7	70.9	71.4	72.33
	24	72.9	72.7	72.6	72.4	72.0	71.8	71.5	71.3	71.2	71.3	71.3	72.37
	25	—	—	—	—	—	—	—	—	—	—	—	
	26	64.9	64.7	64.5	64.2	64.1	64.1	64.1	64.0	64.1	64.4	64.6	68.05
	27	64.7	64.5	64.2	64.0	63.8	63.7	63.6	63.6	63.8	64.1	64.6	64.76
	28	66.2	66.1	66.0	65.9	65.8	65.8	65.8	65.8	65.8	66.1	66.3	66.15
Hourly Means	69.72	69.50	69.31	69.08	68.88	68.89	68.66	68.68	68.81	69.03	69.36	69.92	

VERTICAL FORCE.														
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^h .	
MARCH.	1	31.3	31.0	31.8	33.8	35.5	36.9	37.8	37.0	37.0	37.7	38.2	38.2	37.5
	2	26.9	27.5	31.5	33.6	34.8	36.0	35.2	34.1	34.1	34.2	34.4	34.9	35.2
	3	24.9	25.1	27.9	30.8	33.2	34.7	34.3	34.3	33.9	34.0	33.9	33.5	34.5
	4	23.8	22.8	25.1	29.6	33.7	35.9	35.9	35.7	37.0	38.3	39.2	36.4	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	32.7
	6	30.9	29.4	29.4	31.6	32.2	35.8	37.4	38.0	37.8	38.7	39.5	43.3	41.2
	7	33.7	34.4	33.6	35.3	38.7	43.1	43.1	42.2	43.3	35.2	33.8	34.2	34.2
	8	31.9	30.3	29.8	30.9	31.9	33.3	34.9	34.6	34.2	33.7	33.7	33.7	33.9
	9	31.1	31.3	31.2	31.5	32.9	33.8	35.5	38.3	35.6	34.7	33.0	34.4	35.1
	10	28.9	30.2	31.7	32.9	33.3	31.3	31.5	33.2	33.8	32.3	32.3	33.1	33.1
	11	24.1	25.2	27.9	30.1	30.7	31.0	30.9	29.6	30.6	30.7	33.1	30.5	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	36.8
	13	30.7	30.7	30.0	31.5	33.4	34.4	34.3	33.8	34.3	33.6	33.6	33.8	33.8
	14	28.3	29.6	33.0	34.6	36.0	37.7	36.1	36.1	35.8	36.8	35.8	36.0	36.2
	15	31.8	30.2	30.8	33.1	35.0	35.1	35.3	35.5	36.5	36.8	36.0	35.7	35.5
	16	31.2	29.6	30.9	33.7	35.8	36.6	36.4	36.2	36.2	37.5	36.2	36.7	36.1
	17	30.1	30.1	33.4	34.3	34.8	35.3	36.3	37.6	38.2	38.2	38.3	37.7	37.0
	18	29.7	32.1	35.0	36.9	40.8	40.2	40.0	37.8	35.9	35.9	38.1	37.5	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	38.4
	20	31.1	30.6	32.0	33.8	35.2	35.4	35.0	35.6	34.9	35.3	37.9	37.1	36.3
	21	30.8	31.4	33.2	35.8	37.5	38.3	39.1	40.0	40.5	38.1	38.9	39.1	38.7
	22	35.1	35.1	36.3	41.1	43.0	41.7	40.4	40.4	39.4	39.4	40.2	38.7	38.4
	23	31.7	30.4	33.6	35.2	37.0	38.4	38.9	38.6	35.1	36.2	35.6	36.5	35.1
	24	32.9	32.5	33.5	35.9	36.4	36.3	36.5	36.7	36.5	36.4	36.2	36.2	36.1
	25	29.3	28.2	29.0	32.5	34.6	36.6	37.3	37.0	37.2	37.4	37.5	37.6	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	36.0
	27	29.7	28.1	30.5	32.5	33.8	34.1	34.1	33.8	32.5	32.8	33.4	33.9	34.0
	28	27.3	27.1	29.2	30.6	31.2	31.5	31.5	31.9	31.9	31.9	32.3	32.3	31.8
	29	23.4	25.9	31.0	36.1	37.6	36.2	35.6	38.8	40.3	37.8	35.2	32.0	30.8
	30	26.7	26.5	29.1	31.1	32.7	34.9	34.8	34.8	34.0	31.7	33.1	33.1	34.4
	31 ^a	25.0	27.2	30.4	32.9	32.9	32.9	32.9	32.5	32.5	32.2	32.4	32.7	—
Hourly Means	29.90	29.43	31.17	33.42	35.07	35.94	36.08	36.22	36.02	35.59	35.75	35.62	35.49	
TEMPERATURE OF THE MAGNET.														
MARCH.	1	66.5	66.8	67.2	67.6	67.9	68.0	68.3	68.3	68.1	67.8	67.6	67.3	67.0
	2	67.1	67.6	68.0	68.6	69.0	69.5	69.7	69.8	69.8	69.8	69.6	69.5	69.3
	3	68.6	68.8	69.1	69.5	69.8	70.0	70.1	70.1	69.9	69.6	69.3	69.0	68.7
	4	67.9	68.5	68.6	69.1	69.3	69.4	69.2	69.0	68.9	68.8	68.8	68.7	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	69.7
	6	68.8	69.0	69.2	69.3	69.3	69.0	68.6	68.4	68.0	67.5	67.4	67.0	66.7
	7	66.1	66.7	67.2	67.6	68.2	68.2	68.6	68.8	68.8	68.8	68.8	68.6	68.0
	8	68.2	68.5	69.1	69.7	69.8	69.9	69.8	69.8	69.6	69.3	69.2	69.0	68.7
	9	68.5	68.7	68.9	69.1	69.0	69.0	69.0	68.7	68.5	68.4	68.2	67.9	67.6
	10	67.8	68.4	68.7	69.2	69.5	69.8	69.8	69.8	69.7	69.5	69.5	69.2	69.0
	11	69.4	69.8	70.3	70.6	71.1	71.2	71.2	71.0	70.9	70.8	70.7	70.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	67.4
	13	66.0	66.3	66.8	67.2	67.6	67.6	67.6	67.6	67.5	67.3	67.0	66.8	66.7
	14	66.3	66.6	67.0	67.3	67.5	67.6	67.6	67.5	67.3	67.0	66.8	66.6	66.5
	15	66.5	66.8	67.4	67.8	68.1	68.3	68.4	68.3	68.3	68.2	68.1	67.9	67.8
	16	67.2	67.5	67.9	68.2	68.4	68.5	68.4	68.3	68.2	67.9	67.9	67.8	67.6
	17	66.9	67.2	67.4	67.8	68.2	68.3	68.5	68.5	68.5	68.5	68.2	68.2	68.0
	18	67.7	67.7	67.9	68.4	68.6	68.7	68.6	68.5	68.4	68.0	67.7	67.3	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	67.8
	20	67.3	67.5	67.8	68.1	68.1	68.2	68.5	68.1	67.8	67.7	67.4	67.2	67.1
	21	65.6	65.5	65.5	65.6	65.6	65.6	65.4	65.1	65.0	64.5	64.5	64.2	63.8
	22	62.2	62.5	62.8	63.1	63.2	63.5	63.6	63.5	63.5	63.4	63.3	63.6	63.6
	23	63.8	64.3	64.6	65.2	65.4	65.7	65.9	66.0	66.1	66.0	66.0	65.8	65.5
	24	65.2	65.4	65.8	66.3	66.6	66.8	66.9	67.0	66.8	66.6	66.6	66.6	66.3
	25	65.7	65.8	66.1	66.2	66.4	66.3	65.9	65.8	65.6	65.1	65.1	64.9	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	65.4
	27	65.1	65.5	65.9	66.3	66.7	67.0	67.3	67.5	67.7	67.5	67.4	67.1	67.0
	28	66.6	67.0	67.5	68.4	68.6	68.8	68.7	68.7	68.6	68.6	68.7	68.6	68.4
	29	67.8	68.1	68.5	68.7	68.7	68.7	68.4	68.1	68.2	68.1	68.0	67.8	67.7
	30	65.8	66.0	66.3	66.5	66.5	66.5	66.5	66.5	66.4	66.2	65.8	65.8	65.7
	31 ^a	65.5	66.0	66.3	66.7	67.0	67.3	67.6	67.6	67.6	67.5	67.3	67.0	—
Hourly Means	66.72	67.02	67.37	67.75	67.97	68.08	68.10	68.03	67.93	67.73	67.60	67.42	67.19	

^a Omitted in the means.

VERTICAL FORCE.													
One Scale Division = .00015 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah° = .00005.													
Mean Göttingen Time.	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.	
MARCH.	1	37.5	38.0	38.7	38.2	38.0	38.7	41.6	43.5	41.9	35.2	29.3	36.85
	2	35.5	35.9	35.5	35.3	35.3	36.9	39.6	41.8	40.1	34.7	28.1	34.63
	3	34.7	35.1	35.4	35.3	35.3	36.1	38.0	39.5	38.7	34.3	27.6	33.54
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	32.7	33.1	35.4	34.5	34.6	36.3	37.1	38.3	39.3	38.5	35.2	34.21
	6	39.0	36.1	35.9	38.7	36.4	39.1	41.7	40.9	40.9	39.0	37.3	37.09
	7	34.7	34.9	33.5	34.5	34.8	35.1	36.3	37.9	37.6	36.4	34.2	36.45
	8	34.1	34.9	35.2	36.5	35.2	36.7	38.0	39.6	37.8	35.6	32.8	34.30
	9	35.5	35.8	36.1	35.2	36.8	37.1	38.0	39.1	37.3	33.9	30.5	34.74
	10	32.9	33.5	33.2	32.4	32.2	33.0	33.8	36.9	36.5	31.1	26.0	32.46
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	32.4	31.8	33.9	33.4	36.6	37.5	38.8	40.8	40.0	37.6	34.8	32.87
	13	34.1	33.1	33.6	33.6	34.9	37.4	34.5	39.6	39.6	35.9	29.6	33.91
	14	36.2	35.6	35.6	35.1	35.1	36.3	38.0	40.8	40.2	38.0	35.7	35.78
	15	35.4	35.3	35.3	35.3	35.7	36.3	38.2	40.9	40.9	37.9	34.5	35.54
	16	35.9	36.2	35.7	35.5	34.8	35.7	35.8	37.8	37.9	34.5	30.7	35.15
	17	35.7	35.7	36.8	35.5	35.7	34.9	35.8	37.7	36.3	31.0	29.4	35.24
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	37.0	35.7	36.4	36.4	36.5	36.8	37.2	39.6	40.1	37.9	34.3	36.93
	20	34.6	36.7	36.9	36.9	36.9	37.5	39.6	41.7	41.2	37.1	32.6	35.91
	21	38.8	38.5	38.8	40.2	40.5	40.8	41.5	43.7	42.7	39.8	36.3	38.46
	22	39.2	35.7	38.8	39.2	38.2	39.2	39.1	39.3	37.9	35.6	33.2	38.53
	23	35.6	35.6	36.2	37.2	36.2	38.1	38.6	40.6	41.3	39.9	36.2	36.58
	24	36.0	36.0	36.0	35.8	35.6	37.3	38.4	39.4	36.8	35.1	32.2	35.86
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	36.5	36.8	36.8	36.8	36.3	37.0	38.7	40.9	39.5	33.9	31.3	35.61
	27	33.8	33.3	33.3	33.5	33.5	34.9	37.5	39.1	38.3	33.6	29.6	33.48
	28	31.8	31.8	31.8	32.0	32.3	33.1	35.5	35.5	34.9	29.7	26.4	31.47
	29	31.0	31.5	33.0	33.4	34.0	35.9	37.0	37.5	34.8	30.4	29.2	33.68
	30	33.9	33.9	33.9	33.9	33.6	34.8	36.8	37.5	36.0	29.6	25.8	32.78
	31 ^a	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	35.17	35.02	35.45	35.55	35.58	36.63	37.89	39.61	38.39	35.24	31.65	35.08	

TEMPERATURE OF THE MAGNET.														
	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.		
MARCH.	1	66.8	66.8	66.7	66.6	66.5	66.1	66.1	66.2	66.3	66.5	66.8	67.08	
	2	69.1	68.9	68.8	68.6	68.5	68.5	68.4	68.3	68.3	68.1	68.3	68.80	
	3	68.5	68.2	67.8	67.6	67.3	67.2	67.1	67.1	67.1	67.2	67.5	68.57	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	69.4	69.3	69.0	68.7	68.5	68.2	68.1	68.2	68.2	68.6	68.6	68.7	68.80
	6	66.5	66.2	65.8	65.6	65.4	65.4	65.1	65.2	65.2	65.5	65.7	65.8	67.10
	7	68.0	67.8	67.8	67.6	67.5	67.2	67.1	67.1	67.2	67.2	67.4	67.6	67.78
	8	68.5	68.3	68.1	67.8	67.7	67.6	67.5	67.5	67.5	67.6	67.7	68.1	68.63
	9	67.3	67.2	66.9	66.8	66.6	66.5	66.5	66.5	66.6	66.7	67.0	67.5	67.80
	10	68.8	68.8	68.4	68.3	68.3	68.1	68.1	68.1	68.1	68.5	68.6	68.9	68.87
	11	—	—	—	—	—	—	—	—	—	—	—	—	—
	12	67.0	66.7	66.5	66.2	65.9	65.7	65.4	65.3	65.3	65.6	65.8	65.8	68.35
	13	66.6	66.3	66.3	66.2	65.9	65.8	65.6	65.6	65.6	65.7	66.0	66.2	66.59
	14	66.4	66.4	66.4	66.2	66.0	65.8	65.7	65.6	65.6	65.7	65.8	66.1	66.57
	15	67.6	67.5	67.1	66.8	66.8	66.7	66.6	66.6	66.6	66.6	66.5	67.0	67.40
	16	67.5	67.3	67.1	66.7	66.5	66.3	66.2	66.0	66.1	66.4	66.4	66.6	67.35
	17	67.9	67.8	67.6	67.6	67.5	67.2	67.3	67.2	67.2	67.3	67.1	67.5	67.76
	18	—	—	—	—	—	—	—	—	—	—	—	—	—
	19	67.7	67.6	67.5	67.4	67.0	67.0	66.8	66.7	66.6	66.8	67.2	67.2	67.65
	20	67.0	66.7	66.6	66.5	66.3	66.0	65.8	65.7	65.7	65.7	65.6	65.6	67.02
	21	63.6	63.2	62.8	62.3	62.0	61.7	61.5	61.4	61.4	61.7	61.8	61.8	63.72
	22	63.6	63.6	63.3	63.3	63.2	63.2	63.0	62.8	62.9	63.0	63.4	63.4	63.21
	23	65.3	65.1	64.8	64.8	64.7	64.5	64.4	64.5	64.5	64.6	64.7	64.9	65.11
	24	66.3	66.1	66.2	66.1	65.9	65.9	65.6	65.5	65.5	65.5	65.6	65.6	66.13
	25	—	—	—	—	—	—	—	—	—	—	—	—	—
	26	65.3	65.0	64.8	64.8	64.5	64.4	64.2	64.1	64.3	64.4	64.6	64.6	65.20
	27	66.8	66.6	66.0	65.9	65.8	65.5	65.3	65.3	65.3	65.4	65.7	66.0	66.35
	28	68.2	67.9	67.7	67.5	67.4	67.4	67.3	67.1	67.1	67.5	67.6	67.6	67.91
	29	67.1	66.8	66.5	66.1	65.8	65.7	65.4	65.3	65.3	65.3	65.6	65.6	67.15
	30	65.6	65.3	65.4	65.1	64.9	64.8	64.6	64.6	64.6	64.8	65.1	65.2	65.66
	31 ^a	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	67.02	66.82	66.61	66.43	66.25	66.09	65.95	65.91	66.01	66.15	66.38	67.02		

^a Omitted in the means.

THE OBSERVATIONS WERE SUSPENDED DURING THE MONTH OF APRIL, AND THE INSTRUMENTS READJUSTED ;
THE CONNEXION OF THE READINGS APPEARS TO HAVE BEEN BROKEN.

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VERTICAL FORCE.														
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
MAY.	1 ^a	45.1	46.7	48.9	50.2	50.8	50.0	49.4	50.3	50.7	49.8	49.9	50.6	50.0
	2	46.4	47.5	49.2	49.7	50.8	50.8	50.5	50.6	50.4	50.6	50.6	50.5	50.2
	3	45.2	46.5	48.1	49.2	49.5	49.4	49.4	49.4	49.3	49.6	49.3	49.3	49.3
	4	44.2	45.2	46.5	48.7	51.0	50.7	51.2	50.7	50.9	50.5	49.6	50.1	50.4
	5	45.1	45.4	46.5	47.7	49.4	49.9	49.8	49.8	49.8	49.4	49.4	49.4	49.4
	6 ^b	44.2	44.1	45.0	—	48.1	48.6	48.5	49.9	52.6	54.7	61.8	71.0	—
	7 ^b	—	—	—	—	—	—	—	—	—	—	—	—	50.7
	8	48.7	48.7	48.9	50.5	51.7	52.0	52.2	52.2	52.1	52.5	52.2	51.9	50.9
	9	50.1	50.4	51.1	51.6	53.1	52.0	52.3	52.5	54.2	53.0	50.3	50.6	50.8
	10	48.8	49.4	49.5	51.7	53.4	52.3	52.6	50.9	52.4	51.9	50.1	50.1	47.2
	11	48.8	49.4	49.8	50.2	50.9	51.4	51.9	51.6	50.7	50.6	50.7	50.7	50.4
	12	50.3	51.3	50.7	49.4	50.5	51.1	51.2	51.7	51.5	51.5	51.7	51.6	50.7
	13	47.5	48.4	50.0	50.4	50.4	50.6	51.5	51.2	51.2	50.7	50.5	50.3	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	50.8
	15	48.4	48.3	48.5	49.6	49.5	49.4	51.3	49.4	54.8	61.6	53.7	51.2	50.6
	16	50.2	49.8	50.2	52.1	53.2	50.9	51.2	50.9	50.8	51.8	51.2	50.8	52.5
	17	51.4	51.3	51.7	51.7	52.7	51.4	51.7	52.1	52.1	52.9	51.7	51.6	50.7
	18	49.4	49.7	50.0	50.8	51.7	52.1	51.8	52.0	51.8	51.0	51.2	50.9	51.2
	19	49.4	49.8	49.4	49.8	51.1	51.1	50.8	50.6	50.5	50.1	50.2	50.2	49.9
	20	48.3	48.3	49.3	49.7	50.8	50.7	50.2	50.1	50.1	49.9	49.4	49.0	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	49.7
	22	49.6	49.7	48.6	48.9	50.7	51.0	50.8	50.8	50.5	50.5	50.5	50.5	50.5
	23	50.1	50.9	51.1	51.6	52.2	51.6	51.4	51.1	50.8	50.5	50.3	50.7	50.3
	24	49.1	48.7	48.8	49.9	51.8	51.4	51.6	51.4	51.1	50.6	50.4	50.6	50.2
	25	49.1	48.6	47.8	48.4	49.0	49.8	49.8	49.8	49.7	50.2	49.1	49.1	48.9
	26	44.8	44.9	45.5	46.2	47.7	48.2	48.8	50.1	49.8	51.5	49.9	52.7	47.5
	27	47.5	48.6	48.1	47.9	47.5	47.4	46.7	47.1	47.3	47.4	47.3	47.8	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	46.7
	29	43.3	42.0	41.3	41.6	45.1	46.6	46.6	47.9	46.2	46.2	45.7	46.1	45.9
	30	44.9	44.0	43.8	44.6	45.3	45.5	45.9	45.5	45.3	45.3	45.0	45.2	45.3
	31	43.8	43.4	43.4	44.4	44.1	44.1	44.1	44.3	44.0	44.0	43.8	43.9	44.2
Hourly Means	47.67	47.96	48.33	49.10	50.15	50.05	50.18	50.15	50.31	50.52	49.76	49.82	49.39	

TEMPERATURE OF THE MAGNET.															
MAY.	1	61.2	61.3	61.4	61.5	61.5	61.5	61.3	61.6	61.6	61.0	61.2	61.1	60.9	
	2	58.9	58.9	59.1	59.3	59.3	59.4	59.1	59.1	59.4	59.4	59.3	59.3	59.4	
	3	60.2	60.6	61.2	61.2	61.4	61.4	61.3	61.2	61.0	61.0	61.0	60.8	60.7	
	4	60.5	60.7	60.8	61.0	61.2	61.1	61.1	61.0	61.0	60.9	60.8	60.7	60.6	
	5	60.0	60.4	60.9	61.3	61.5	61.6	61.5	61.5	61.4	61.3	61.1	61.0	61.0	
	6 ^b	61.6	62.0	62.0	—	62.7	62.8	62.9	62.9	62.8	62.8	62.8	62.8	62.6	—
	7 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—	62.4
	8	62.4	62.3	62.4	62.4	62.4	62.2	61.9	61.8	61.8	61.8	61.6	61.5	61.4	61.3
	9	61.0	61.3	61.5	61.5	61.5	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
	10	62.0	62.1	62.6	62.6	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.7	62.6	62.6
	11	61.7	62.0	62.0	62.1	62.1	62.1	62.4	62.3	62.0	62.0	61.9	61.5	61.5	61.5
	12	60.6	60.8	61.1	61.3	61.3	61.4	61.4	61.4	61.4	61.3	61.4	61.4	61.3	61.3
	13	61.4	61.5	61.5	61.5	61.6	61.7	61.8	61.7	61.7	61.6	61.7	61.7	61.7	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	—	60.2
	15	59.7	59.9	60.3	60.4	60.5	60.7	60.8	60.8	60.8	60.8	61.0	61.4	61.4	61.1
	16	60.0	60.1	60.5	60.8	61.1	61.2	61.1	61.0	60.9	60.6	60.5	60.0	59.9	59.9
	17	58.6	58.7	58.9	59.0	59.1	59.1	59.1	59.1	59.0	59.1	59.3	59.3	59.1	59.1
	18	58.9	59.2	59.1	59.3	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
	19	60.3	60.6	60.7	61.1	61.3	61.3	61.4	61.3	61.3	61.3	61.3	61.5	61.4	61.2
	20	60.6	60.9	61.2	61.4	61.6	61.7	61.8	61.9	61.9	61.8	61.8	61.8	61.8	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	—	61.5
	22	61.2	61.4	61.7	61.9	62.0	62.2	62.4	62.6	62.5	62.4	62.0	62.0	61.8	61.8
	23	62.0	62.0	62.3	62.4	62.4	62.4	62.6	62.6	62.6	62.6	62.3	62.3	62.1	62.1
	24	61.7	61.7	61.8	61.8	61.7	61.6	61.5	61.3	61.1	60.9	60.8	60.6	60.4	60.4
	25	59.9	60.1	60.5	60.7	61.1	61.2	61.0	61.0	61.0	60.8	60.9	60.9	60.8	60.8
	26	60.5	60.6	60.7	60.8	60.8	60.9	61.0	61.0	60.9	60.8	60.8	60.8	61.2	61.3
	27	60.8	61.0	61.4	61.9	62.4	62.6	62.8	63.0	62.9	62.7	62.6	61.9	—	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	—	61.6
	29	61.3	61.5	61.8	62.2	62.5	62.8	62.8	62.8	62.8	62.8	62.9	62.7	62.5	62.5
	30	62.3	62.5	62.7	62.9	63.0	63.2	63.5	63.5	63.4	63.2	63.1	62.8	62.5	62.5
	31	61.6	61.8	62.0	62.5	62.8	62.8	62.8	62.8	62.7	62.7	62.7	62.6	62.4	62.4
Hourly Means	60.74	60.92	61.16	61.34	61.48	61.54	61.57	61.57	61.52	61.43	61.42	61.31	61.13	61.13	

^a New adjustment.

^b Omitted in the hourly means; readings irregular.

VERTICAL FORCE.													
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.													
Mean Göttingen Time.	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.	
MAY.	1 ^a	49.3	49.3	48.5	48.5	49.2	49.2	50.5	52.4	52.4	49.6	46.8	49.50
	2	50.2	49.4	49.4	49.4	48.9	48.9	50.1	51.9	51.9	50.7	46.0	49.78
	3	49.2	49.2	49.4	49.2	49.2	48.4	48.8	51.2	52.4	50.7	47.4	49.11
	4	50.8	49.2	49.4	50.2	50.3	50.3	51.4	54.1	54.4	52.3	52.2	50.18
	5	49.4	49.2	49.0	48.8	48.8	48.7	49.8	51.4	51.9	48.8	46.0	48.87
	6 ^b	—	—	—	—	—	—	—	—	—	—	—	—
	7 ^b	49.1	49.7	49.5	50.8	50.1	48.8	50.2	52.3	50.2	50.9	51.7	50.98
	8	49.4	51.1	51.9	51.0	52.7	51.1	51.6	54.3	53.1	50.8	48.9	51.27
	9	50.6	50.3	49.6	49.8	49.8	50.3	52.7	54.0	54.8	53.8	51.6	51.64
	10	48.8	48.8	49.1	48.4	48.4	49.0	49.5	52.2	51.7	50.8	48.0	50.21
	11	49.0	49.7	50.6	50.8	50.8	50.9	51.6	52.5	52.3	51.6	50.3	50.72
	12	50.6	50.0	49.6	49.1	50.1	48.8	50.1	51.9	53.6	51.3	48.8	50.71
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	50.5	49.5	50.2	49.9	49.0	47.5	48.1	50.9	52.6	52.2	49.3	50.13
	15	50.4	51.7	51.9	48.9	50.1	49.5	51.0	51.4	51.8	51.6	48.9	50.98
	16	51.5	50.0	50.7	51.4	51.4	51.6	51.0	52.5	54.0	52.9	52.1	51.45
	17	51.4	51.5	51.2	51.4	51.4	50.3	49.9	52.4	53.8	53.5	51.3	51.71
	18	51.3	51.6	51.7	51.7	51.1	49.8	49.8	52.1	52.9	52.8	51.5	51.25
	19	49.8	49.8	50.5	50.3	50.3	49.1	48.6	51.1	52.3	51.6	49.1	50.23
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	50.1	50.4	50.8	50.5	49.9	49.0	49.4	51.0	51.9	52.2	50.9	50.07
	22	50.5	50.3	50.0	49.9	49.7	49.0	50.0	52.0	53.4	53.2	51.4	50.50
	23	50.7	50.6	50.1	50.1	50.3	49.7	48.9	50.6	51.9	52.1	51.1	50.78
	24	49.4	49.6	49.5	49.8	50.1	48.6	49.0	50.9	52.7	51.8	50.2	50.30
	25	48.6	48.2	48.4	48.3	48.5	47.7	47.4	49.2	50.8	51.0	49.2	49.03
	26	47.7	49.0	48.0	47.3	46.2	44.3	43.5	44.8	45.9	46.8	47.2	47.43
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	46.3	45.7	45.7	45.4	45.1	44.0	44.6	45.9	47.3	46.6	44.1	46.58
	29	44.8	45.5	44.7	45.0	44.6	42.2	43.3	45.1	47.2	46.9	46.1	45.00
	30	45.3	45.3	45.3	44.8	43.8	43.4	43.8	45.3	46.8	46.5	44.4	45.01
	31	44.2	44.4	44.7	44.4	43.8	43.7	43.1	44.8	46.0	45.0	41.4	44.04
Hourly Means	49.22	49.20	49.23	49.01	48.98	48.27	48.75	50.61	51.53	50.66	48.62	49.48	

TEMPERATURE OF THE MAGNET.													
MAY.	1	60.7	60.5	60.4	60.3	60.0	59.8	59.6	59.4	59.1	58.9	58.9	60.61
	2	59.4	59.4	59.2	59.2	59.2	59.4	59.4	59.4	59.5	59.6	59.8	59.31
	3	60.7	60.6	60.5	60.3	60.3	59.9	59.9	60.0	60.0	60.1	60.4	60.65
	4	60.5	60.4	60.0	59.8	59.7	59.5	59.5	59.5	59.5	59.7	59.8	60.39
	5	61.0	60.9	61.1	61.0	61.0	61.0	61.0	61.0	61.1	61.2	61.4	61.09
	6 ^b	—	—	—	—	—	—	—	—	—	—	—	—
	7 ^b	62.4	62.3	62.0	62.0	62.0	62.1	62.0	62.0	62.0	62.2	62.3	62.33
	8	61.0	60.9	60.8	60.7	60.5	60.4	60.4	60.5	60.5	60.6	60.9	61.36
	9	61.8	61.8	61.8	61.8	61.8	61.8	61.8	62.0	61.7	61.8	61.9	61.71
	10	62.6	62.6	62.6	62.6	62.5	62.4	62.1	61.9	61.8	61.6	61.6	62.43
	11	61.4	61.3	61.1	61.0	60.8	60.7	60.5	60.4	60.4	60.3	60.5	61.42
	12	61.3	61.4	61.0	61.0	61.0	61.1	61.2	61.1	61.2	61.2	61.3	61.20
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	60.1	60.1	59.9	59.8	59.6	59.4	59.5	59.5	59.5	59.3	59.6	60.66
	15	60.8	60.6	60.3	60.1	60.0	59.7	59.6	59.6	59.6	59.7	59.8	60.36
	16	59.6	59.4	59.3	59.0	58.8	58.4	58.3	58.3	58.3	58.4	58.5	59.75
	17	59.1	59.0	58.8	58.8	58.7	58.6	58.5	58.5	58.5	58.5	58.6	58.88
	18	59.8	59.7	59.7	59.5	59.5	59.6	59.5	59.4	59.6	59.7	60.0	59.60
	19	61.0	60.9	60.7	60.6	60.5	60.4	60.3	60.1	60.1	60.2	60.4	60.83
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	61.4	61.3	61.2	61.1	61.1	61.0	60.9	60.8	60.8	61.0	61.1	61.32
	22	61.8	61.8	62.0	62.0	61.9	61.8	61.9	61.8	61.8	61.8	61.8	61.94
	23	62.1	62.0	61.8	61.8	61.7	61.6	61.5	61.5	61.5	61.6	61.7	62.05
	24	60.3	60.1	60.0	59.8	59.7	59.6	59.6	59.4	59.5	59.6	59.7	60.59
	25	60.7	60.7	60.5	60.4	60.3	60.1	60.0	60.0	60.1	60.1	60.3	60.55
	26	61.3	61.3	61.1	61.2	61.2	61.3	61.1	60.8	60.6	60.5	60.6	60.93
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	61.3	61.2	61.3	61.2	61.1	60.9	60.8	60.7	60.7	60.9	61.1	61.62
	29	62.5	62.4	62.3	62.3	62.2	62.0	62.0	61.9	61.9	62.0	62.2	62.30
	30	62.3	62.0	61.8	61.7	61.6	61.6	61.4	61.3	61.2	61.2	61.4	62.34
	31	62.0	61.8	61.4	61.3	61.1	60.8	60.7	60.6	60.6	60.6	60.9	61.83
Hourly Means	61.02	60.93	60.79	60.70	60.61	60.49	60.42	60.36	60.35	60.38	60.55	60.99	

^a New adjustment.

^b Omitted in the hourly means; readings irregular.

VERTICAL FORCE.														
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^h .	
JUNE.	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.	
	1	41.7	42.7	42.1	43.0	44.9	44.5	44.2	44.0	43.9	43.9	44.4	44.3	44.3
	2	42.0	41.4	43.1	44.4	46.0	45.1	44.6	43.4	42.5	42.5	43.2	45.9	45.2
	3	44.6	43.4	42.7	44.2	46.2	45.5	45.1	45.8	45.4	44.2	43.1	43.5	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	43.7
	5	42.7	42.6	43.0	44.4	45.1	45.5	45.5	44.7	44.6	44.3	44.2	44.8	43.3
	6	43.3	43.0	42.8	43.7	44.2	43.9	43.9	43.9	43.6	43.7	43.4	43.5	42.9
	7	41.1	39.7	40.2	42.2	43.4	43.0	43.5	44.5	43.2	43.9	39.2	42.5	43.8
	8	40.5	40.5	40.8	41.5	43.0	43.0	43.3	42.6	43.0	42.5	42.6	42.0	42.0
	9	41.1	40.8	41.4	42.4	43.2	43.3	43.3	43.4	43.6	43.5	43.5	43.4	43.1
	10	43.9	43.7	44.5	44.5	44.6	45.4	45.4	45.4	46.1	46.6	43.4	45.7	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	43.1
	12	42.4	42.0	42.1	43.3	44.6	45.3	45.3	44.5	44.1	44.8	43.0	44.4	43.9
	13	42.3	42.6	43.3	43.5	41.8	42.6	43.9	40.3	41.6	41.6	40.8	40.8	41.5
	14	40.1	40.1	40.2	41.5	42.7	42.1	41.7	41.5	41.2	40.8	41.1	41.3	41.5
	15	40.7	40.4	40.9	41.0	40.8	40.6	40.6	40.5	40.2	39.8	39.7	39.5	39.8
	16	37.2	38.0	40.0	40.9	41.1	41.1	40.8	41.0	40.4	40.4	40.0	40.4	40.0
	17	38.4	38.8	41.2	42.5	42.0	41.7	42.0	42.1	41.7	41.6	41.5	41.5	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	42.6
	19	41.3	41.6	41.4	42.1	42.1	42.3	42.5	43.0	43.5	42.6	42.3	42.3	42.0
	20	40.1	40.0	39.6	40.5	41.2	41.5	41.7	41.8	42.0	42.5	41.1	41.1	41.0
	21	39.3	37.4	38.1	39.4	40.4	40.3	40.3	40.5	40.6	41.2	40.7	40.8	40.4
	22	39.2	39.0	38.2	39.4	39.9	39.9	40.0	39.7	39.6	39.7	39.6	38.9	38.5
	23	40.7	40.1	40.4	41.0	40.6	40.9	41.0	41.1	40.8	40.8	41.0	41.2	40.9
	24	40.4	39.3	40.1	41.0	41.5	42.8	43.0	42.8	42.8	42.4	42.3	42.3	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	42.5
	26	39.1	39.1	40.3	41.5	42.6	43.2	43.6	43.0	42.8	42.8	43.0	43.2	42.7
	27	40.8	40.1	40.8	42.1	42.3	42.3	42.9	42.7	42.7	42.9	43.2	43.3	43.3
	28	43.9	42.9	42.6	42.7	43.8	44.0	44.7	44.2	44.1	44.1	43.9	44.1	43.8
	29	43.5	42.3	42.3	43.3	43.0	43.9	44.1	44.1	43.1	43.2	43.8	44.6	44.6
30	41.8	42.1	41.2	41.4	42.7	45.3	45.9	45.0	46.6	45.9	44.1	46.2	41.5	
Hourly Means	41.23	40.91	41.28	42.21	42.83	43.04	43.18	42.90	42.83	42.78	42.23	42.75	42.38	
TEMPERATURE OF THE MAGNET.														
JUNE.	°	°	°	°	°	°	°	°	°	°	°	°	°	
	1	61.4	61.5	61.6	61.8	62.1	62.4	62.5	62.6	62.6	62.6	62.6	62.5	
	2	62.3	62.3	62.2	62.3	62.2	62.1	62.1	61.9	61.7	61.5	61.1	60.8	
	3	59.5	59.6	59.7	59.9	60.1	60.1	60.5	60.5	60.5	60.4	60.1	59.8	
	4	—	—	—	—	—	—	—	—	—	—	—	—	
	5	56.1	56.6	57.0	57.5	57.9	58.2	58.2	58.2	58.1	58.1	58.0	57.8	
	6	57.1	57.4	57.6	58.0	58.3	58.6	58.6	58.7	58.7	58.6	58.7	58.6	
	7	58.7	59.1	59.7	60.0	60.2	60.4	60.5	60.5	60.5	60.5	60.2	60.3	
	8	59.8	59.8	59.8	59.8	59.7	59.6	59.2	58.9	58.8	58.8	58.7	58.4	
	9	57.2	57.2	57.4	57.3	57.1	57.0	56.9	56.8	56.7	56.5	56.3	56.2	
	10	54.8	55.0	55.0	55.2	55.3	55.3	55.5	55.5	55.4	55.3	55.3	55.1	
	11	—	—	—	—	—	—	—	—	—	—	—	—	
	12	52.6	52.9	53.4	53.6	53.9	54.1	54.3	54.4	54.3	54.4	54.1	54.0	
	13	55.8	56.2	56.6	56.8	57.2	57.2	57.0	57.0	57.0	57.0	57.2	57.1	
	14	56.6	57.0	57.1	57.5	57.6	57.7	57.6	57.6	57.6	57.5	57.4	57.2	
	15	56.4	56.7	57.2	57.5	57.7	57.8	57.8	57.8	57.7	57.6	57.6	57.5	
	16	56.6	56.6	57.0	57.1	57.2	57.3	57.5	57.6	57.6	57.6	57.6	57.6	
	17	55.7	55.5	55.5	55.3	55.3	55.2	55.0	54.8	54.6	54.5	54.2	54.0	
	18	—	—	—	—	—	—	—	—	—	—	—	—	
	19	52.3	52.5	52.9	53.3	53.5	53.6	53.8	53.8	53.8	53.8	53.6	53.6	
	20	53.7	53.8	54.1	54.2	54.3	54.4	54.7	54.8	55.0	55.2	55.1	55.3	
	21	55.6	55.8	55.9	56.0	56.3	56.5	56.3	56.3	56.4	56.5	56.7	57.0	
	22	57.7	57.9	58.0	58.3	58.5	58.8	58.9	59.0	59.1	59.1	59.1	58.8	
	23	57.2	57.2	57.4	57.5	57.4	57.3	57.3	57.2	57.0	56.8	56.6	56.6	
	24	56.2	56.3	56.2	56.3	56.6	56.6	56.6	56.7	56.8	56.8	56.6	56.5	
	25	—	—	—	—	—	—	—	—	—	—	—	—	
	26	55.6	55.6	55.8	55.8	56.2	56.4	56.2	56.3	56.3	56.5	56.6	56.6	
	27	56.8	56.8	56.7	56.6	56.6	56.5	56.5	56.4	56.3	56.0	55.8	55.6	
	28	54.3	54.4	54.5	54.5	54.5	54.4	54.1	54.2	54.2	54.1	53.8	53.6	
	29	52.9	53.1	53.5	53.7	53.8	53.8	53.8	53.9	53.9	53.8	53.6	53.5	
30	53.2	53.6	54.1	54.6	55.3	55.5	55.5	55.5	55.6	55.5	55.4	55.3		
Hourly Means	56.39	56.55	56.77	56.94	57.11	57.18	57.19	57.19	57.16	57.12	57.00	56.90		

VERTICAL FORCE.
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahrt. = .00005.

Mean Göttingen Time.	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.
JUNE. 1	44.4	43.9	44.1	44.0	43.3	42.0	40.9	42.8	43.6	44.5	43.3	43.53
2	45.2	44.1	44.6	44.4	44.0	43.1	42.7	43.2	45.7	44.2	46.5	44.04
3	—	—	—	—	—	—	—	—	—	—	—	44.50
4	43.7	44.0	44.2	43.1	43.8	44.6	44.5	47.0	46.8	46.0	43.0	44.62
5	43.9	44.1	44.2	44.2	44.2	45.3	45.8	46.0	47.9	46.6	43.9	43.71
6	42.1	43.6	43.3	44.4	44.7	44.0	43.1	45.1	46.2	44.9	41.8	41.80
7	41.6	41.9	38.2	39.6	41.7	40.4	39.9	42.1	44.4	41.7	41.5	42.35
8	42.1	42.1	42.0	41.9	41.3	41.7	41.7	43.2	45.6	44.7	42.8	42.61
9	43.3	42.9	42.9	42.5	42.4	40.1	38.7	41.1	44.3	44.6	43.8	44.45
10	—	—	—	—	—	—	—	—	—	—	—	43.25
11	45.0	41.1	42.0	42.7	44.4	43.6	43.9	45.2	45.6	45.4	45.7	41.75
12	45.0	44.1	42.5	42.6	42.3	41.6	41.3	41.1	42.5	42.7	42.7	41.24
13	41.3	41.1	41.1	40.7	40.7	40.4	40.2	42.0	43.3	43.2	41.3	40.47
14	41.1	41.1	41.1	40.8	40.8	40.2	40.2	42.4	43.3	42.1	40.8	40.19
15	40.4	40.7	40.8	41.2	41.0	39.5	39.1	41.0	42.8	42.0	38.3	41.81
16	39.4	39.4	40.0	40.2	40.0	39.0	39.0	41.6	42.6	41.8	40.2	41.89
17	—	—	—	—	—	—	—	—	—	—	—	41.06
18	42.6	43.1	42.7	42.7	42.5	41.6	41.7	42.7	42.7	42.4	41.2	39.89
19	40.7	41.3	41.3	41.3	41.3	41.1	40.5	41.6	43.1	43.3	40.9	39.80
20	40.8	41.3	40.7	40.5	40.5	40.4	40.2	41.4	42.7	42.2	40.7	41.11
21	40.1	39.5	38.8	38.9	39.0	39.1	39.0	40.5	41.6	41.4	40.0	42.30
22	39.5	39.5	40.2	39.8	40.2	40.0	40.1	41.2	41.2	41.2	40.7	42.38
23	40.9	40.2	40.3	40.7	41.3	41.2	41.2	43.0	43.8	42.6	40.9	42.82
24	—	—	—	—	—	—	—	—	—	—	—	43.95
25	42.5	42.1	41.9	42.7	42.9	41.9	41.9	44.2	45.3	45.1	41.6	43.86
26	42.2	42.5	42.7	42.2	42.4	41.5	41.5	44.0	45.0	43.5	42.6	43.35
27	43.0	42.6	43.4	43.1	43.2	42.8	42.0	44.1	45.1	44.6	44.4	42.82
28	43.8	43.6	43.8	43.5	43.5	42.5	43.1	46.3	46.6	45.3	44.1	43.95
29	44.9	45.5	43.9	43.5	43.3	42.8	43.6	46.0	46.9	44.8	41.6	43.86
30	42.5	43.2	41.5	43.3	43.0	41.4	41.1	44.1	44.8	44.1	41.8	43.35
Hourly Means	42.38	42.25	42.01	42.10	42.22	41.61	41.42	43.19	44.36	43.65	42.16	42.41

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
JUNE. 1	62.5	62.5	62.5	62.5	62.5	62.4	62.3	62.3	62.1	62.1	62.2	62.28
2	60.4	60.1	60.1	59.9	59.7	59.5	59.3	59.1	59.0	59.1	59.3	60.78
3	—	—	—	—	—	—	—	—	—	—	—	58.34
4	57.6	57.5	57.2	56.9	56.5	56.2	56.0	55.9	55.8	55.9	56.0	57.29
5	57.5	57.2	57.0	56.8	56.8	56.8	56.7	56.6	56.7	56.7	56.8	58.25
6	58.6	58.5	58.3	58.3	58.2	57.9	58.0	58.0	58.0	58.1	58.6	60.18
7	60.3	60.3	60.6	60.5	60.5	60.4	60.3	60.4	60.2	60.0	59.9	58.53
8	58.3	58.3	58.3	58.0	57.9	57.7	57.6	57.4	57.3	57.2	57.1	55.98
9	55.8	55.7	55.4	55.1	55.0	54.8	54.7	54.6	54.6	54.6	54.7	53.97
10	—	—	—	—	—	—	—	—	—	—	—	54.25
11	53.6	53.4	53.2	52.9	52.6	52.4	52.2	52.0	52.0	52.1	52.4	56.70
12	54.0	54.0	54.4	54.5	54.6	54.6	54.9	55.1	55.1	55.3	55.5	56.93
13	56.9	56.9	56.8	56.7	56.6	56.4	56.3	56.1	56.1	56.3	56.5	56.92
14	57.0	56.9	56.8	56.6	56.5	56.5	56.3	56.0	56.0	56.1	56.1	57.05
15	56.9	56.8	56.5	56.4	56.3	56.0	56.0	56.0	56.0	56.2	56.4	53.59
16	57.6	57.5	57.5	57.3	57.0	56.8	56.6	56.4	56.1	55.8	55.7	53.37
17	—	—	—	—	—	—	—	—	—	—	—	54.95
18	52.4	52.4	52.4	52.4	52.4	52.2	52.0	51.9	51.9	52.0	52.2	56.90
19	53.5	53.4	53.4	53.4	53.4	53.3	53.3	53.2	53.3	53.3	53.4	58.11
20	55.2	55.2	55.1	55.3	55.3	55.4	55.4	55.4	55.6	55.5	55.6	56.57
21	57.4	57.5	57.4	57.5	57.6	57.6	57.7	57.7	57.4	57.5	57.6	55.96
22	58.3	58.0	57.8	57.6	57.5	57.4	57.3	57.3	57.3	57.1	57.2	56.45
23	56.1	56.0	56.1	56.1	56.0	56.0	55.9	55.9	55.8	55.8	56.1	55.46
24	—	—	—	—	—	—	—	—	—	—	—	53.57
25	55.5	55.4	55.5	55.4	55.4	55.4	55.4	55.4	55.4	55.2	55.4	53.16
26	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8	56.8	54.70
27	55.3	55.0	54.8	54.6	54.5	54.3	54.0	54.1	54.0	54.1	54.2	55.57
28	53.4	53.2	53.1	53.0	52.8	52.7	52.6	52.5	52.6	52.7	52.8	53.16
29	53.1	52.8	52.8	52.8	52.7	52.6	52.5	52.4	52.5	52.5	52.7	54.70
30	55.1	55.0	54.8	54.6	54.5	54.2	54.0	53.9	54.0	54.1	54.3	56.55
Hourly Means	56.50	56.39	56.33	56.22	56.13	56.01	55.93	55.86	55.83	55.85	55.98	56.55

VERTICAL FORCE.														
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^h .	
JULY.	1	42·8	42·4	42·4	42·4	43·2	43·6	43·6	45·1	42·7	42·6	42·4	42·1	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	42·1
	3	41·0	41·6	42·1	42·5	43·3	43·8	43·7	43·5	43·2	43·1	42·4	44·3	43·0
	4	41·2	41·8	42·1	42·1	42·5	42·8	42·7	42·3	42·0	40·3	40·2	40·8	41·7
	5	40·4	41·0	40·7	40·9	40·9	41·7	41·1	41·1	41·1	40·7	40·9	40·9	40·9
	6	40·4	39·9	40·1	41·5	42·4	42·9	42·7	42·7	42·0	41·9	42·1	42·4	42·6
	7	42·5	42·6	41·2	42·1	43·2	43·4	44·1	44·2	45·6	44·5	44·6	42·5	43·5
	8	43·3	42·7	42·5	43·4	44·6	47·4	45·4	45·4	44·9	44·3	43·4	43·2	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	44·3
	10	41·7	41·2	44·5	43·4	42·4	44·6	44·7	45·8	44·0	42·6	41·7	41·8	41·9
	11	37·1	37·1	38·1	39·6	40·4	40·8	40·9	41·3	42·8	41·9	43·1	42·4	38·9
	12	38·5	37·8	38·8	39·6	39·9	39·8	39·9	40·1	39·8	40·1	40·6	40·9	40·6
	13	38·8	37·7	38·3	38·9	39·2	38·4	40·0	41·0	41·6	41·4	41·0	38·2	39·2
	14	39·1	39·7	38·3	37·9	38·6	39·1	39·0	39·1	39·7	40·3	39·5	39·1	38·9
	15	37·0	38·1	37·3	37·1	38·2	38·6	38·5	39·2	39·3	37·3	37·5	38·5	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	38·3
	17	36·7	35·7	37·8	38·6	39·5	40·1	40·1	40·2	39·6	39·4	39·4	38·6	38·9
	18	36·9	36·0	35·9	37·4	39·1	39·4	39·6	39·5	39·6	39·2	39·0	38·5	38·5
	19	37·0	37·5	37·8	37·7	38·7	39·2	40·0	38·6	38·4	38·4	38·8	37·9	38·2
	20	37·0	37·1	37·6	37·8	38·7	38·7	38·3	38·4	38·1	37·9	37·9	37·7	37·7
	21	38·8	38·0	37·5	37·8	37·8	38·2	38·2	38·3	38·3	38·3	37·3	36·7	36·4
	22	37·5	37·5	37·5	38·3	39·5	38·6	38·7	38·4	38·4	38·5	38·7	38·7	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	38·1
	24	37·4	36·7	37·3	37·9	38·9	38·2	36·2	36·9	43·6	44·7	46·9	36·0	36·0
	25	48·0	47·8	48·0	49·0	48·2	48·3	49·0	48·8	47·4	45·9	42·8	41·3	36·3
	26	40·1	39·4	40·3	41·4	41·6	41·5	42·7	41·2	41·2	40·9	41·1	40·2	39·4
	27	40·7	40·1	41·9	42·0	42·4	41·0	41·0	41·1	39·9	40·8	40·5	41·7	41·4
	28	38·9	38·9	41·0	41·2	41·2	40·6	40·6	40·2	40·2	40·6	41·5	39·3	40·9
	29	37·9	38·9	38·7	39·8	40·7	39·9	40·4	41·9	39·1	41·1	39·2	39·4	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	34·1
	31	37·5	36·3	36·2	37·4	38·4	38·0	37·5	37·5	38·0	37·3	36·3	36·1	36·7
Hourly Means	39·55	39·37	39·77	40·30	40·90	41·10	41·10	41·22	41·17	40·92	40·72	39·97	39·56	

TEMPERATURE OF THE MAGNET.															
JULY.	1	54·6	55·1	55·5	55·9	56·1	56·3	56·5	56·8	56·9	56·8	56·8	56·7	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	56·5	
	3	55·5	55·8	56·2	56·5	56·8	56·8	56·8	56·8	56·8	56·6	56·5	56·6	56·4	56·3
	4	56·0	56·5	57·2	57·6	58·1	58·2	58·5	58·6	58·6	58·7	58·7	58·7	58·7	58·6
	5	58·7	58·8	59·1	59·2	59·5	59·5	59·6	59·6	59·6	59·5	59·4	59·1	59·1	59·0
	6	56·8	56·5	56·5	56·4	56·3	56·2	56·4	56·3	56·3	56·1	55·9	55·8	55·5	55·5
	7	54·7	54·7	54·7	54·7	54·7	54·7	54·8	54·8	54·9	55·0	55·0	55·0	55·0	55·0
	8	55·2	55·2	55·1	55·1	55·1	55·0	55·0	55·0	54·8	54·5	54·3	54·0	53·8	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	—	52·9
	10	53·6	54·0	54·4	54·9	55·2	55·4	55·4	55·5	55·5	55·3	55·3	55·2	55·2	55·1
	11	54·5	55·0	55·9	56·6	57·8	57·5	57·5	57·5	57·5	57·4	57·3	56·8	56·8	56·6
	12	56·2	56·5	57·0	57·4	57·7	58·0	57·8	57·8	57·8	57·8	57·7	57·6	57·5	57·3
	13	56·0	56·5	57·0	57·6	58·1	58·3	58·3	58·3	58·3	58·2	58·1	57·9	57·7	57·5
	14	57·4	57·9	58·6	58·8	58·8	58·8	59·2	59·2	59·2	59·2	59·1	59·0	59·0	58·8
	15	59·0	59·5	60·0	60·2	60·4	60·4	60·5	60·6	60·6	60·5	60·4	60·2	60·1	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	—	58·5
	17	57·0	57·1	57·5	57·5	57·5	57·6	57·5	57·6	57·5	57·5	57·5	57·4	57·2	57·3
	18	56·7	56·8	56·8	56·9	57·0	57·2	57·0	57·0	57·0	57·1	57·1	57·4	57·5	57·4
	19	57·9	58·2	58·5	58·6	58·9	59·0	59·2	59·1	59·1	59·0	58·9	58·9	59·1	59·2
	20	58·6	58·7	58·9	59·2	59·4	59·6	59·8	59·8	59·8	59·8	59·8	59·9	59·7	59·5
	21	59·0	59·3	59·7	59·9	60·6	60·7	60·8	60·8	60·8	60·7	60·6	60·5	60·3	60·1
	22	59·2	59·2	59·5	59·5	59·6	59·6	59·7	59·7	59·7	59·7	59·6	59·1	59·1	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	—	58·0
	24	58·2	58·3	58·3	58·5	58·6	58·7	58·7	58·7	58·7	58·7	58·7	58·7	58·5	58·1
	25	56·7	56·8	57·0	57·1	57·3	57·7	58·0	58·0	58·1	58·1	58·1	57·9	57·8	57·8
	26	55·6	55·7	55·7	56·0	56·0	56·1	56·0	56·0	56·0	56·0	56·1	56·3	56·4	56·4
	27	55·4	55·3	55·4	55·3	55·1	54·9	54·7	54·5	54·3	54·0	53·7	53·4	53·2	—
	28	52·2	52·6	53·1	53·5	53·8	53·8	53·9	53·8	53·8	53·6	53·5	53·1	53·0	—
	29	51·8	52·3	52·6	52·9	53·5	53·7	53·7	53·8	53·8	53·8	54·1	54·1	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	55·6
	31	55·3	55·5	55·7	56·0	56·1	56·1	56·4	56·3	56·2	56·1	55·9	55·7	55·6	—
Hourly Means	56·22	56·45	56·77	56·99	57·23	57·30	57·37	57·38	57·32	57·25	57·15	57·05	56·88	—	

VERTICAL FORCE.

One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	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.	
JULY.	1	41.9	39.7	42.3	43.0	42.5	40.6	41.6	42.5	42.7	41.5	40.4	42.34
	2	42.9	43.1	42.7	42.5	42.9	42.9	42.5	43.6	43.4	42.3	41.2	42.81
	3	40.9	40.3	41.2	41.8	42.4	41.7	42.1	42.6	42.6	40.6	40.0	41.61
	4	41.2	41.2	41.1	41.1	41.1	41.2	41.6	42.2	43.4	41.7	41.4	41.23
	5	42.7	42.3	41.8	41.8	42.1	42.1	42.1	44.1	45.6	44.9	42.5	42.32
	6	43.5	46.8	42.4	42.6	42.4	40.2	39.1	40.5	43.4	43.3	44.4	43.03
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	43.8	41.5	43.2	43.8	41.7	41.2	42.0	42.1	43.2	44.1	43.5	43.54
	9	41.1	40.3	42.1	41.8	41.4	40.9	41.0	43.3	44.3	44.1	41.2	42.58
	10	41.1	40.5	40.3	40.2	40.1	39.1	38.5	40.5	41.8	41.6	39.5	40.32
	11	40.1	40.6	40.6	39.1	39.3	39.3	38.3	40.0	41.2	41.4	40.1	39.85
	12	39.4	39.2	39.3	39.2	38.1	38.8	39.0	40.4	42.3	42.1	40.0	39.65
	13	38.9	39.1	38.7	38.1	38.4	38.4	38.5	39.0	40.6	39.9	38.3	39.01
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	38.5	38.7	39.0	39.0	38.3	38.0	38.0	39.5	40.8	40.7	39.3	38.53
	16	39.1	39.1	39.5	39.3	38.7	38.7	38.8	41.0	41.7	40.5	38.7	39.15
	17	38.3	38.8	38.9	38.9	38.4	38.1	37.9	40.7	42.6	40.7	38.0	38.75
	18	37.9	38.4	38.3	38.0	38.4	38.1	37.6	39.4	40.1	39.4	37.5	38.39
	19	37.9	38.3	38.0	37.7	37.8	37.3	36.8	37.4	38.9	39.3	38.7	37.96
	20	36.3	36.0	35.6	35.6	36.5	36.4	36.6	37.2	38.5	39.0	38.1	37.39
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	37.6	37.4	37.3	37.0	36.8	36.6	36.6	38.7	40.8	41.1	38.7	38.21
	23	38.2	38.4	38.4	36.7	37.1	36.4	36.0	38.0	44.7	46.2	46.1	39.29
	24	36.3	32.1	36.7	34.2	37.4	37.3	38.6	39.9	40.9	41.9	40.3	42.35
	25	39.4	40.1	40.2	39.9	39.1	38.0	36.6	40.1	43.4	44.2	42.4	40.60
	26	39.9	41.0	37.2	39.6	41.4	40.3	41.5	42.8	43.8	42.9	41.1	41.08
	27	40.5	40.5	39.7	39.6	39.6	39.0	39.0	40.9	42.5	42.1	39.2	40.32
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	35.2	37.0	38.1	37.4	36.6	36.9	35.7	38.2	39.4	40.5	38.8	38.54
	30	36.9	37.0	36.8	36.8	36.8	35.8	35.1	36.7	37.5	37.4	37.4	36.98
Hourly Means	39.60	39.52	39.59	39.41	39.43	38.97	38.89	40.43	41.93	41.67	40.26	40.22	

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°	
JULY.	1	56.3	56.2	55.8	55.7	55.4	55.2	55.0	54.5	54.5	54.9	55.2	55.80
	2	56.0	55.9	55.7	55.5	55.4	55.0	55.0	55.0	55.0	55.3	55.6	55.96
	3	58.6	58.6	58.5	58.6	58.5	58.4	58.4	58.3	58.3	58.3	58.6	58.21
	4	58.9	58.8	58.7	58.6	58.4	58.1	57.8	57.6	57.5	57.2	57.2	58.70
	5	55.3	55.3	55.1	55.1	54.8	54.8	54.5	54.4	54.6	54.6	54.6	55.55
	6	55.0	55.1	55.0	55.0	55.0	55.2	55.1	55.1	55.0	55.1	55.1	54.95
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	52.9	52.9	52.9	53.0	52.8	52.8	52.8	52.8	52.8	53.0	53.4	53.84
	9	55.0	54.8	54.5	54.3	54.1	53.9	53.8	53.6	53.6	53.8	53.9	54.58
	10	56.3	56.1	56.2	56.0	55.9	55.8	55.7	55.6	55.5	55.6	55.8	56.32
	11	57.1	56.9	56.7	56.3	56.2	55.9	55.8	55.6	55.5	55.5	55.7	56.81
	12	57.4	57.2	56.8	56.8	56.7	56.6	56.4	56.5	56.4	56.5	56.8	57.23
	13	58.8	58.7	58.5	58.5	58.5	58.1	58.1	58.2	58.2	58.5	58.6	58.60
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	58.4	58.3	58.0	57.9	57.7	57.7	57.5	57.3	57.2	57.0	57.0	58.93
	16	57.1	57.0	57.2	57.2	57.0	57.0	56.9	56.8	56.8	56.7	56.7	57.19
	17	57.6	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.7	57.8	57.29
	18	59.2	59.3	59.0	58.9	58.8	58.8	58.5	58.4	58.2	58.2	58.5	58.76
	19	59.3	59.1	58.9	58.7	58.5	58.5	58.4	58.3	58.3	58.4	58.6	59.07
	20	60.0	59.8	59.8	59.7	59.6	59.4	59.4	59.3	59.2	59.0	59.1	59.89
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.0	58.1	58.1	58.1	58.76
	23	57.8	57.5	57.5	57.2	56.9	56.8	56.6	56.4	56.4	56.5	56.5	57.78
	24	57.3	56.8	56.4	56.2	55.9	55.8	55.6	55.4	55.3	55.4	55.5	56.83
	25	56.5	56.5	56.5	56.5	56.5	56.3	56.1	56.0	55.7	55.5	55.5	56.08
	26	53.0	52.8	52.5	52.4	52.2	52.1	51.9	52.0	51.9	51.8	51.9	53.49
	27	52.7	52.5	52.3	52.0	51.7	51.4	51.1	50.9	50.8	51.2	51.4	52.57
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	55.5	55.4	55.4	55.3	55.2	55.1	55.1	55.0	55.0	55.1	55.2	54.29
	30	55.4	55.1	54.9	54.8	54.7	54.4	54.4	54.4	54.4	54.6	54.8	55.37
Hourly Means	56.75	56.62	56.48	56.38	56.23	56.10	55.98	55.88	55.83	55.90	56.04	56.65	

VERTICAL FORCE.														
One Scale Division = ·00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fabt. = ·00005.														
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 .	12 ^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.	
AUGUST.	1	35·0	34·0	35·2	36·0	37·6	37·6	37·3	36·9	36·8	36·3	36·2	36·7	
	2	37·2	37·1	37·0	37·2	37·4	37·6	36·8	36·9	36·2	36·2	36·2	36·1	
	3	37·4	36·6	36·1	34·6	34·7	35·3	34·8	35·5	35·1	36·2	35·5	35·1	
	4	38·0	37·2	37·3	35·5	37·1	38·0	35·1	34·6	35·8	35·9	33·5	35·3	33·0
	5	34·0	33·6	33·6	34·8	34·8	34·6	34·1	35·3	36·2	35·4	34·7	33·8	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	34·3
	7	35·2	33·9	34·8	34·5	34·5	34·0	34·3	34·7	34·7	34·7	34·6	33·4	33·6
	8	34·3	34·5	33·6	33·5	34·7	34·3	35·7	34·6	36·3	33·7	32·9	32·9	33·5
	9	33·3	31·0	35·4	34·9	34·5	33·2	33·2	33·8	34·8	34·5	34·5	34·3	34·3
	10	32·8	31·8	32·4	34·4	35·9	34·9	34·5	34·5	35·0	35·0	35·0	34·8	34·9
	11	35·2	34·2	34·8	37·3	36·4	35·4	36·3	37·9	35·1	35·5	35·1	34·3	36·2
	12	33·7	31·5	32·9	36·5	38·2	37·4	36·8	36·4	36·7	36·3	36·7	37·6	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	36·3
	14	34·4	32·7	34·3	36·2	37·3	37·0	35·8	35·4	35·4	32·8	34·7	34·7	34·7
	15	33·1	33·1	31·4	32·4	35·0	35·1	34·6	34·3	34·4	34·7	34·0	34·5	34·7
	16	35·8	34·8	34·1	35·0	36·6	36·4	35·6	34·9	35·3	35·0	34·5	34·6	34·6
	17	34·6	35·1	34·1	32·6	33·0	33·7	33·9	33·8	33·8	33·9	33·7	33·3	33·5
	18	30·9	31·3	32·4	33·1	33·5	33·5	33·2	33·4	32·2	31·9	32·0	32·0	32·0
	19	31·8	31·0	32·6	33·3	33·3	32·4	31·7	31·5	31·2	31·2	31·6	30·9	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	31·1
	21	26·6	25·6	26·8	27·5	27·3	27·9	27·0	26·4	26·4	26·7	26·7	26·4	26·4
	22	24·3	24·7	27·0	26·3	28·0	28·0	28·9	28·9	30·8	28·3	26·9	24·1	26·5
	23	26·3	26·3	26·3	27·1	28·7	28·3	29·4	29·9	29·1	28·9	27·9	26·6	28·5
	24	29·5	28·7	29·5	28·6	30·0	29·5	30·0	30·4	29·8	30·7	30·9	30·1	29·4
	25	26·2	25·9	27·1	26·7	29·0	30·3	30·5	30·7	30·8	29·3	28·8	28·8	28·3
	26	28·2	26·5	25·8	26·2	28·1	28·5	28·1	27·7	27·5	27·4	27·5	28·4	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	27·4
	28	24·9	25·2	25·6	26·1	27·0	27·0	26·7	26·4	26·2	26·6	26·2	26·7	26·8
	29	24·1	23·7	23·1	23·4	24·5	25·5	25·5	25·3	25·3	25·0	25·5	25·9	26·1
	30	24·2	24·2	23·8	22·7	22·7	23·8	24·1	24·1	23·8	23·9	23·9	24·0	24·0
	31	23·3	22·4	21·3	20·9	23·3	23·8	23·6	23·8	22·5	22·3	21·9	21·7	22·0
Hourly Means	31·27	30·61	31·05	31·38	32·34	32·33	32·13	32·14	32·14	31·79	31·54	31·36	31·48	
TEMPERATURE OF THE MAGNET.														
AUGUST.	1	55·1	55·5	55·8	56·1	56·6	56·6	56·5	56·6	56·6	56·3	56·3	55·9	
	2	55·3	55·5	55·8	56·1	56·2	56·3	56·5	56·5	56·5	56·5	56·5	56·3	
	3	56·8	57·1	57·5	57·9	58·2	58·3	58·5	58·5	58·5	58·5	58·4	58·4	
	4	58·9	59·3	59·6	60·0	60·2	60·5	60·7	60·7	60·7	60·6	60·4	60·3	
	5	59·5	59·6	59·5	59·6	59·7	59·8	59·8	59·7	59·6	59·6	59·6	—	
	6	—	—	—	—	—	—	—	—	—	—	—	—	58·4
	7	58·0	58·4	58·7	59·0	59·5	59·7	59·8	59·7	59·6	59·5	59·6	59·6	59·5
	8	59·6	59·8	60·1	60·3	60·4	60·4	60·5	60·5	60·4	60·3	60·1	60·0	59·8
	9	59·3	59·3	59·5	59·5	59·5	59·3	59·2	59·1	59·0	58·9	58·8	58·6	58·4
	10	57·1	57·1	57·1	57·1	57·1	57·1	56·9	56·8	56·8	56·7	56·5	56·4	56·3
	11	55·9	56·0	56·2	56·4	56·4	56·4	56·3	56·3	56·1	56·0	55·8	55·6	55·4
	12	54·5	54·7	54·8	55·0	55·1	55·1	55·3	55·1	54·9	54·8	54·6	54·4	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	53·8
	14	54·1	54·5	55·1	55·4	55·6	55·9	56·1	56·2	56·2	56·2	56·2	56·2	56·1
	15	55·6	55·7	55·6	55·7	55·7	55·8	55·7	55·6	55·4	55·3	55·0	54·8	54·7
	16	53·3	53·5	53·7	53·8	53·9	53·9	53·8	53·8	53·8	53·7	53·5	53·5	53·4
	17	53·7	54·0	54·3	54·6	54·8	55·0	55·1	55·1	55·1	55·1	55·0	54·8	54·8
	18	55·0	55·3	55·7	55·9	56·3	56·5	56·4	56·5	56·4	56·4	56·5	56·4	56·3
	19	56·1	56·3	56·6	57·0	57·3	57·6	57·8	57·9	58·0	58·0	58·0	57·9	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	59·6
	21	60·0	60·8	61·4	61·7	62·4	62·5	62·8	62·8	62·8	62·8	62·6	62·6	62·2
	22	61·5	62·2	62·6	63·0	63·6	63·8	63·8	63·8	63·7	63·6	63·4	63·1	62·8
	23	62·0	62·1	62·1	62·2	62·1	61·9	61·8	61·5	61·3	61·1	60·8	60·6	60·3
	24	57·3	57·3	57·2	57·2	57·1	56·8	56·3	56·0	55·7	55·3	55·3	55·0	54·8
	25	55·6	55·8	56·1	56·2	56·5	56·3	56·5	56·5	56·5	56·5	56·4	56·7	56·8
	26	56·6	56·7	56·9	57·2	57·5	57·7	58·0	58·2	58·3	58·3	58·2	57·8	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	57·8
	28	58·4	58·6	59·0	59·3	59·6	59·7	59·8	59·7	59·6	59·5	59·3	59·2	59·1
	29	58·8	59·3	59·6	60·0	60·4	60·8	61·0	61·2	61·2	61·1	60·9	60·8	60·6
	30	61·1	61·5	62·0	62·6	63·1	63·6	63·8	64·0	63·8	63·7	63·6	63·5	63·3
	31	62·6	63·0	63·5	64·1	64·4	64·5	64·7	64·6	64·6	64·5	64·3	64·2	63·9
Hourly Means	57·47	57·74	58·00	58·26	58·49	58·59	58·64	58·63	58·56	58·47	58·36	58·24	58·11	

VERTICAL FORCE.

One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
AUGUST.	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	36.8	36.8	37.1	36.8	36.4	35.4	34.5	36.7	38.7	39.5	38.3	36.62
	2	36.5	35.7	36.0	36.6	36.2	35.1	33.9	35.9	39.4	40.2	39.2	36.81
	3	35.6	37.0	36.2	34.9	34.5	33.0	33.0	33.0	35.0	38.1	38.5	35.45
	4	30.7	32.9	33.4	33.4	33.0	32.5	31.9	34.4	37.5	37.7	36.4	35.00
	5	—	—	—	—	—	—	—	—	—	—	—	34.62
	6	34.4	33.3	33.6	33.8	33.1	33.1	33.5	35.8	37.5	37.8	35.8	
	7	33.3	33.5	33.2	33.0	32.8	31.8	33.3	35.1	34.2	35.0	33.7	33.99
	8	34.1	32.2	—	32.4	32.2	30.0	28.3	36.4	36.1	35.0	36.0	33.79
	9	34.3	34.3	34.0	33.8	33.8	32.7	33.0	35.3	37.5	39.0	34.9	34.35
	10	34.5	35.0	34.6	33.9	33.6	32.8	33.5	35.8	36.3	37.0	36.3	34.55
	11	35.9	35.3	35.0	35.0	34.5	33.5	33.7	36.1	37.9	37.9	37.0	35.65
	12	—	—	—	—	—	—	—	—	—	—	—	36.16
	13	35.7	35.7	36.6	36.2	35.6	35.3	35.8	37.3	38.2	37.7	36.7	
	14	34.1	34.0	34.0	33.8	33.4	32.2	32.5	35.1	35.6	35.6	33.4	34.55
	15	34.7	35.2	33.4	33.7	34.2	32.9	34.1	37.3	39.3	39.9	37.8	34.74
	16	34.7	34.9	34.7	34.3	33.9	33.7	33.4	34.9	35.5	35.8	35.4	34.93
	17	34.0	34.1	34.1	33.1	33.1	32.6	33.5	33.5	33.6	33.6	32.0	33.59
	18	32.1	32.1	33.1	32.4	32.5	30.7	30.7	31.3	30.9	31.4	31.5	32.09
	19	—	—	—	—	—	—	—	—	—	—	—	31.25
	20	31.1	31.5	—	—	—	28.3	29.0	30.3	31.3	31.2	30.0	
	21	26.4	26.4	26.4	26.1	26.1	25.0	25.2	24.7	25.1	25.9	25.7	26.28
	22	23.9	26.2	24.4	25.6	26.4	28.9	22.7	26.0	27.1	27.5	27.4	26.62
	23	25.3	26.6	26.9	27.0	27.0	27.4	27.4	28.2	29.6	30.9	29.5	27.88
	24	29.1	29.1	29.6	28.9	28.9	27.6	27.6	28.3	29.3	30.2	28.7	29.35
	25	28.5	27.3	26.2	26.1	26.8	25.6	26.1	28.9	29.7	31.1	30.5	28.30
	26	—	—	—	—	—	—	—	—	—	—	—	27.75
	27	27.4	27.4	27.4	26.7	26.7	25.4	27.1	29.8	31.4	30.9	28.6	
	28	27.3	26.8	26.8	26.5	26.1	24.8	25.5	27.1	27.7	27.0	25.4	26.35
	29	26.3	26.1	26.1	25.6	25.1	22.8	22.9	24.0	24.5	24.5	23.9	24.78
	30	24.0	24.3	24.3	24.0	23.5	22.0	22.8	24.8	26.3	26.3	25.1	24.03
31	22.7	23.1	23.3	23.1	22.1	20.6	20.0	20.9	23.7	25.7	25.7	22.65	
Hourly Means	31.24	31.36	31.22	31.03	30.83	29.84	29.81	31.74	32.92	33.42	32.35	31.56	

TEMPERATURE OF THE MAGNET.

AUGUST.	1	55.8	55.7	55.4	55.3	55.2	54.8	54.8	54.8	54.8	54.9	55.1	55.69
	2	56.3	56.3	56.2	56.2	56.2	56.1	56.1	56.1	56.1	56.1	56.4	56.19
	3	58.3	58.3	58.5	58.5	58.5	58.4	58.3	58.3	58.3	58.5	58.6	58.23
	4	60.3	60.1	59.9	59.8	59.7	59.5	59.3	59.4	59.3	59.4	59.4	59.93
	5	—	—	—	—	—	—	—	—	—	—	—	58.75
	6	58.4	58.2	58.0	57.8	57.8	57.9	57.6	57.5	57.5	57.7	57.8	
	7	59.4	59.4	59.4	59.4	59.3	59.2	59.1	59.1	59.2	59.3	59.5	59.29
	8	59.8	59.7	—	59.4	59.4	59.3	59.5	59.5	59.5	59.2	59.3	59.86
	9	58.0	57.9	57.8	57.8	57.6	57.3	57.2	57.0	56.9	57.1	57.1	58.34
	10	56.3	56.2	56.1	56.1	56.0	55.8	55.8	55.7	55.7	55.7	55.7	56.42
	11	55.2	54.9	54.7	54.5	54.4	54.3	54.2	54.2	54.1	54.1	54.2	55.32
	12	—	—	—	—	—	—	—	—	—	—	—	54.14
	13	53.8	53.7	53.5	53.4	53.3	53.1	53.1	53.1	53.1	53.5	53.7	
	14	56.0	56.0	56.0	55.9	55.8	55.7	55.6	55.5	55.5	55.4	55.6	55.70
	15	54.3	54.1	54.0	53.8	53.7	53.4	53.2	53.1	53.1	53.2	53.2	54.57
	16	53.3	53.2	53.1	53.1	53.0	53.0	53.0	53.0	53.2	53.3	53.6	53.43
	17	54.7	54.6	54.5	54.4	54.4	54.4	54.4	54.3	54.4	54.5	54.8	54.62
	18	56.1	55.9	55.7	55.5	55.4	55.4	55.3	55.3	55.4	55.5	55.6	55.86
	19	—	—	—	—	—	—	—	—	—	—	—	58.22
	20	59.5	59.4	—	—	—	59.1	59.1	59.2	59.2	59.4	59.7	
	21	62.0	62.0	61.8	61.7	61.5	61.2	61.0	60.8	60.8	61.1	61.3	61.78
	22	62.6	62.4	62.3	62.1	61.9	61.7	61.6	61.5	61.6	61.6	61.8	62.58
	23	60.0	59.8	59.5	59.0	58.6	58.3	58.0	57.6	57.4	57.3	57.3	60.11
	24	54.7	54.6	54.4	54.5	54.5	54.6	54.6	54.7	54.7	55.0	55.2	55.53
	25	56.8	56.8	56.7	56.7	56.7	56.5	56.4	56.2	56.1	56.0	56.2	56.40
	26	—	—	—	—	—	—	—	—	—	—	—	57.71
	27	57.8	57.8	57.8	57.8	57.8	57.8	57.7	57.6	57.7	57.9	58.2	
	28	59.0	58.8	58.8	58.6	58.5	58.2	58.1	58.1	58.1	58.5	58.7	58.93
	29	60.6	60.5	60.2	60.1	60.1	60.0	59.9	59.9	60.0	60.3	60.6	60.33
	30	63.0	62.8	62.5	62.4	62.3	61.8	61.7	61.6	61.6	61.8	62.1	62.63
	31	63.6	63.4	63.0	62.7	62.5	62.3	62.2	62.1	62.0	61.8	61.8	63.35
Hourly Means	57.99	57.87	57.59	57.56	57.47	57.37	57.29	57.23	57.23	57.34	57.50	57.92	

VERTICAL FORCE.														
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^h .	
SEPTEMBER.	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.	
	1	23·6	24·2	24·0	24·7	24·9	26·3	30·3	23·7	26·7	27·5	25·0	24·0	24·9
	2	25·6	23·9	25·1	25·5	25·9	27·2	29·2	27·9	27·9	26·7	23·3	26·3	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	26·1
	4	24·8	25·7	26·6	25·7	27·1	28·0	27·5	26·9	26·5	29·1	29·2	30·4	28·2
	5	26·8	27·8	29·4	29·5	29·5	30·1	29·9	28·6	28·4	26·8	26·8	27·8	28·0
	6	28·0	26·9	26·4	26·0	26·6	26·9	26·5	26·5	26·5	26·5	26·9	26·1	26·1
	7	24·6	24·6	26·1	26·1	25·6	26·2	26·0	26·0	26·3	26·1	26·4	26·4	25·9
	8	24·5	26·7	27·4	26·3	25·6	27·0	26·3	25·4	25·4	25·5	26·2	26·7	26·2
	9	23·7	22·4	23·8	25·3	25·3	26·0	24·9	23·8	25·6	27·3	25·7	25·1	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	25·9
	11	25·7	25·5	26·3	25·2	24·7	25·2	24·5	24·5	24·5	25·1	25·1	25·7	25·2
	12	24·0	24·1	24·2	23·5	23·8	24·6	24·6	24·0	23·6	25·4	23·9	24·1	24·7
	13	22·0	20·9	22·0	23·0	24·0	24·6	24·2	23·1	22·7	23·6	23·7	24·1	23·7
	14	22·4	20·7	21·3	21·8	22·5	23·3	23·2	23·6	24·8	23·8	23·5	21·5	22·7
	15	19·1	19·1	21·1	23·0	23·7	23·4	22·5	22·1	22·1	21·9	22·0	22·4	22·4
	16	20·2	18·9	19·9	22·3	22·9	22·5	22·1	21·6	21·6	21·1	19·1	19·5	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	19·9
	18	19·2	19·3	21·2	22·3	22·0	21·8	22·8	23·2	23·0	22·6	21·5	20·4	21·3
	19	22·8	23·4	21·5	21·1	21·7	23·3	24·1	24·1	24·6	25·7	22·0	20·1	22·8
	20	20·9	20·4	22·0	23·3	24·1	24·8	23·1	23·7	23·9	23·9	23·6	22·3	22·5
	21	21·6	19·9	22·5	24·3	24·9	26·2	25·9	26·4	22·8	22·6	22·8	23·6	23·1
	22	21·8	22·7	23·4	27·2	28·2	25·1	23·9	23·8	24·2	23·6	24·4	22·0	21·7
	23	18·5	20·7	22·0	23·2	24·8	24·3	22·5	22·8	22·7	22·7	22·3	21·3	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	23·7
	25	17·7	19·2	20·7	22·4	23·7	23·8	22·5	22·7	22·2	22·5	22·9	22·9	22·8
	26	17·2	17·6	20·6	23·5	24·7	24·7	24·6	24·1	24·1	24·1	23·5	23·0	22·8
	27	18·3	18·0	19·3	20·9	21·8	22·4	22·2	21·3	21·3	21·3	21·5	22·2	23·3
	28	20·0	17·9	19·4	21·0	21·4	21·5	20·5	19·7	19·4	19·6	19·6	19·9	19·9
	29	14·4	14·2	15·5	16·7	16·7	17·4	19·2	21·2	20·9	19·6	17·6	17·6	17·1
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	21·90	21·79	22·87	23·75	24·24	24·66	24·52	24·03	24·07	24·18	23·54	23·42	23·64	
TEMPERATURE OF THE MAGNET.														
SEPTEMBER.	°	°	°	°	°	°	°	°	°	°	°	°	°	
	1	61·9	61·9	62·0	62·0	61·8	61·8	61·7	61·7	61·5	61·3	61·0	60·8	60·7
	2	59·9	60·1	60·1	60·1	60·1	60·0	59·8	59·7	59·5	59·4	59·3	59·3	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	57·5
	4	56·9	57·1	57·2	57·4	57·4	57·3	57·2	57·0	56·8	56·5	56·5	56·3	56·2
	5	55·7	55·9	56·1	56·1	56·5	56·6	56·5	56·3	56·3	56·2	56·1	56·1	56·0
	6	56·2	56·6	57·2	57·5	57·8	58·1	58·3	58·3	58·2	58·1	58·0	57·9	57·8
	7	58·0	58·3	58·5	58·7	58·8	58·9	58·9	58·9	58·7	58·6	58·6	58·6	58·4
	8	58·5	58·9	59·2	59·6	59·8	59·9	59·9	59·8	59·8	59·7	59·5	59·4	59·3
	9	59·6	59·8	60·2	60·5	61·0	61·1	61·1	61·0	60·8	60·6	60·5	60·2	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	57·7
	11	57·9	58·3	58·5	58·9	59·1	59·3	59·2	59·1	59·0	59·0	59·0	58·9	58·8
	12	59·4	59·8	60·2	60·8	61·0	61·3	61·6	61·6	61·5	61·4	61·2	61·1	60·9
	13	60·5	60·9	61·4	61·6	62·0	62·3	62·4	62·4	62·4	62·2	61·8	61·8	61·5
	14	60·2	60·4	60·7	60·8	60·9	60·8	60·8	60·7	60·6	60·3	60·2	60·0	59·5
	15	59·0	59·2	59·6	60·1	60·3	60·4	60·6	60·6	60·6	60·4	60·2	60·0	59·8
	16	59·3	59·8	60·3	60·6	61·1	61·1	61·1	61·1	61·1	61·0	61·1	61·0	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	60·9
	18	60·5	60·6	60·8	60·9	61·0	61·0	61·0	61·0	60·8	60·6	60·5	60·5	60·4
	19	59·4	59·7	59·7	59·7	59·7	59·6	59·4	59·2	58·8	58·6	58·3	58·0	57·8
	20	57·5	57·6	57·8	58·0	58·1	57·9	57·9	57·8	57·7	57·5	57·2	57·4	57·4
	21	56·7	56·7	56·8	57·0	56·9	56·9	57·2	57·2	56·9	56·9	56·7	56·3	55·8
	22	55·1	55·3	55·4	55·5	55·8	55·8	56·0	56·0	56·0	55·9	55·8	55·7	55·7
	23	56·8	57·1	57·5	57·9	58·1	58·2	58·1	58·1	58·0	57·8	57·8	57·6	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	56·4
	25	56·4	56·7	57·0	57·2	57·6	57·6	57·8	57·7	57·6	57·5	57·3	57·1	56·8
	26	56·6	57·1	57·1	57·5	57·7	57·7	57·6	57·6	57·4	57·3	57·3	57·3	57·2
	27	57·1	57·6	57·9	58·3	58·4	58·5	58·4	58·4	58·3	58·2	58·1	58·0	57·9
	28	58·9	59·6	60·0	60·6	61·0	61·3	61·5	61·5	61·5	61·4	61·3	61·1	61·0
	29	61·6	62·2	62·5	63·2	63·5	63·7	63·8	63·8	63·7	63·6	63·4	63·1	62·8
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	58·38	58·69	58·95	59·22	59·42	59·48	59·51	59·46	59·34	59·20	59·07	58·94	58·57	

VERTICAL FORCE.

One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah° = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
SEPTEMBER.	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	25.6	24.2	21.0	23.5	23.9	22.4	23.3	24.4	24.4	27.0	26.7	24.84
	2	—	—	—	—	—	—	—	—	—	—	—	25.88
	3	25.7	26.5	26.1	25.3	24.2	25.2	25.2	25.4	25.6	25.6	25.6	27.08
	4	27.2	27.2	25.8	26.5	26.5	26.5	23.9	25.8	28.4	28.1	28.3	27.83
	5	28.0	27.4	26.4	26.9	26.6	25.9	25.9	28.0	29.0	27.5	26.9	26.38
	6	26.0	25.8	24.9	25.4	25.7	24.2	26.0	27.8	28.6	27.3	25.5	25.71
	7	25.2	25.2	25.1	25.1	24.4	23.0	24.7	27.1	28.9	27.0	25.0	25.59
	8	25.3	25.3	25.0	25.0	24.6	22.9	22.9	25.8	26.8	26.6	24.8	25.36
	9	—	—	—	—	—	—	—	—	—	—	—	24.88
	10	26.8	24.8	25.5	25.5	25.3	24.2	25.4	26.6	27.1	26.9	25.7	23.78
	11	24.1	24.3	24.3	24.8	24.5	22.5	24.0	25.5	26.6	25.4	24.0	23.12
	12	23.4	22.3	23.3	23.6	21.5	22.1	22.7	24.1	24.7	24.7	23.8	23.03
	13	23.3	23.3	23.3	23.1	22.4	21.4	22.0	22.4	24.3	24.3	23.5	22.05
	14	23.3	23.7	23.7	23.3	22.8	22.3	23.4	24.6	24.4	23.9	22.3	20.38
	15	22.1	22.1	22.3	22.4	22.4	21.7	21.7	22.8	22.8	22.5	21.7	21.68
	16	—	—	—	—	—	—	—	—	—	—	—	22.76
	17	18.4	20.2	20.1	20.4	20.3	20.3	19.2	20.1	20.5	18.1	19.9	23.13
	18	20.9	22.7	20.7	21.0	21.6	22.1	21.1	20.0	20.0	23.4	26.3	23.73
	19	23.4	22.6	22.4	22.2	22.2	20.9	20.9	23.6	25.3	23.5	22.0	23.85
	20	23.2	23.5	20.6	22.3	22.9	22.3	21.7	24.7	26.5	24.8	24.1	22.61
	21	23.9	24.0	24.2	24.0	23.5	23.4	24.6	24.9	25.2	23.8	21.4	21.99
	22	24.0	24.0	23.8	24.4	24.0	24.0	24.0	25.2	24.4	22.3	20.3	22.08
	23	—	—	—	—	—	—	—	—	—	—	—	21.64
	24	23.4	23.4	—	—	—	22.4	22.0	23.8	25.5	22.7	20.1	19.73
	25	22.8	22.3	23.1	23.1	21.6	20.5	21.7	23.6	23.4	20.9	18.7	18.04
	26	23.1	22.4	22.1	22.7	21.7	21.5	22.6	22.6	20.1	18.3	18.3	—
	27	24.4	21.8	22.8	21.5	21.1	23.0	23.9	22.7	22.1	22.0	20.2	—
	28	19.4	20.0	18.5	19.8	20.0	20.7	21.0	20.7	20.0	18.0	15.6	—
	29	19.5	18.8	18.5	18.9	18.7	19.4	20.0	20.0	19.1	16.9	15.1	—
30	—	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	23.70	23.51	23.06	23.36	23.02	22.59	22.95	24.09	24.55	23.66	22.63	23.49	

TEMPERATURE OF THE MAGNET.

SEPTEMBER.	1	60.6	60.3	60.4	60.2	60.0	59.8	59.6	59.5	59.5	59.5	59.6	60.80
	2	—	—	—	—	—	—	—	—	—	—	—	58.32
	3	57.4	57.1	57.0	56.9	56.7	56.6	56.5	56.5	56.6	56.7	56.8	56.27
	4	56.1	55.8	55.8	55.7	55.3	55.2	55.2	55.2	55.3	55.5	55.6	55.89
	5	55.9	55.8	55.5	55.5	55.4	55.1	55.2	55.3	55.6	55.8	55.9	57.60
	6	57.7	57.6	57.5	57.5	57.4	57.3	57.3	57.3	57.5	57.6	57.8	58.37
	7	58.3	58.2	58.3	58.3	58.0	57.9	57.8	57.8	57.9	58.1	58.3	59.25
	8	59.2	59.2	59.0	59.0	59.0	58.8	58.8	58.8	58.8	59.0	59.2	58.86
	9	—	—	—	—	—	—	—	—	—	—	—	58.66
	10	57.6	57.5	57.1	57.0	57.0	56.8	56.6	57.0	57.1	57.3	57.6	60.52
	11	58.7	58.7	58.5	58.4	58.3	58.1	58.1	58.1	58.4	58.5	59.0	61.10
	12	60.8	60.7	60.5	60.4	60.0	59.7	59.6	59.6	59.7	59.7	60.0	59.65
	13	61.1	60.9	60.8	60.6	60.3	60.0	59.9	59.7	59.9	59.9	60.1	59.43
	14	59.4	59.3	59.1	58.8	58.6	58.5	58.3	58.2	58.4	58.3	58.7	60.56
	15	59.6	59.2	58.9	58.8	58.6	58.3	58.2	58.1	58.3	58.6	58.8	60.15
	16	—	—	—	—	—	—	—	—	—	—	—	58.18
	17	60.8	60.7	60.5	60.4	60.4	60.2	60.1	60.1	60.1	60.2	60.4	57.28
	18	60.0	59.9	59.8	59.6	59.4	59.2	59.2	59.3	59.2	59.2	59.3	55.88
	19	57.7	57.6	57.5	57.2	57.0	56.8	56.7	56.7	56.8	57.2	57.3	55.63
	20	57.3	57.3	57.2	57.0	56.8	56.8	56.6	56.4	56.3	56.5	56.6	56.92
	21	55.5	55.3	54.9	54.9	54.7	54.6	54.5	54.5	54.6	54.6	55.0	56.85
	22	55.6	55.5	55.4	55.3	55.3	55.2	55.2	55.4	55.7	56.0	56.4	57.04
	23	—	—	—	—	—	—	—	—	—	—	—	57.91
	24	56.3	56.2	—	—	—	55.4	55.4	55.4	55.5	55.7	56.0	60.64
	25	56.8	56.6	56.5	56.5	56.3	56.2	56.1	56.1	56.1	56.3	56.5	62.52
	26	57.1	57.1	56.8	56.6	56.5	56.5	56.4	56.4	56.6	56.7	56.8	—
	27	57.8	57.7	57.7	57.5	57.5	57.4	57.5	57.5	57.7	58.0	58.5	—
	28	60.8	60.8	60.5	60.4	60.3	60.0	60.0	60.0	60.2	60.6	61.1	—
	29	62.5	62.3	62.0	61.9	61.6	61.7	61.6	61.5	61.5	61.5	61.5	—
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	58.42	58.29	58.22	58.10	57.93	57.68	57.62	57.62	57.73	57.88	58.11	58.57	

VERTICAL FORCE.													
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.													
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 .	12 ^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.
Sept. 30	14.1	14.0	17.7	20.5	19.6	18.4	21.7	20.2	19.6	18.8	18.8	19.4	—
1	—	—	—	—	—	—	—	—	—	—	—	—	21.8
2	21.1	20.9	20.7	20.9	22.2	23.3	22.3	22.9	22.1	21.4	21.3	20.9	19.8
3	19.9	17.2	17.3	17.8	18.7	20.1	19.9	19.9	19.9	19.2	20.1	20.0	19.5
4	13.2	12.7	15.1	19.4	19.6	19.6	20.1	19.1	19.1	19.5	18.6	18.6	18.2
5	10.3	11.6	15.9	17.6	19.0	22.1	21.4	20.9	22.2	20.0	19.0	18.7	18.4
6	13.9	15.5	17.7	18.9	19.5	18.7	19.1	19.0	19.0	19.3	20.0	18.6	19.4
7	13.8	15.0	17.8	19.0	19.6	18.9	18.4	18.1	17.8	18.1	18.4	18.7	—
8	—	—	—	—	—	—	—	—	—	—	—	—	18.0
9	12.0	12.4	13.7	15.6	16.1	15.7	15.3	14.3	14.2	14.2	14.4	14.8	14.6
10	10.1	9.6	12.3	13.7	15.0	15.4	14.4	14.4	14.6	15.7	15.7	15.7	15.0
11	6.6	7.8	8.9	11.3	12.7	14.0	13.2	13.0	13.0	13.0	12.9	12.9	13.3
12	6.5	8.4	11.1	12.2	13.3	12.4	11.4	10.8	10.9	11.5	11.6	12.6	12.6
13	7.5	7.4	8.8	11.2	13.3	12.8	11.9	10.8	10.6	10.2	10.4	11.2	11.9
14	4.9	6.6	7.8	9.5	10.9	12.3	12.4	12.5	13.4	12.2	13.3	11.8	—
15	—	—	—	—	—	—	—	—	—	—	—	—	13.1
16	11.7	11.0	11.0	12.3	13.0	13.0	12.7	11.2	11.3	14.4	14.4	11.0	12.4
17	11.9	10.9	15.8	13.0	13.9	15.0	14.2	11.4	12.0	11.6	12.0	12.4	13.4
18	11.2	11.2	12.6	14.7	15.1	14.2	14.8	14.0	13.8	12.6	13.0	13.3	13.3
19	9.3	9.3	9.9	12.9	14.6	15.4	14.8	13.7	14.2	13.8	13.2	13.5	13.4
20	9.6	12.2	12.5	14.7	15.5	15.7	15.2	16.0	16.3	15.2	14.5	14.5	14.7
21	12.7	13.0	14.1	15.2	15.6	14.9	14.8	14.8	14.5	14.5	14.4	14.4	—
22	—	—	—	—	—	—	—	—	—	—	—	—	13.2
23	6.2	5.7	6.8	9.6	11.6	11.7	11.5	11.7	12.0	12.0	11.6	11.2	11.2
24	3.5	8.6	10.8	14.1	18.0	13.7	12.2	12.4	12.7	13.4	14.0	14.7	14.7
25	8.1	9.6	11.4	14.2	16.7	16.3	14.9	14.0	14.0	14.4	14.2	14.7	14.7
26	15.4	11.9	11.7	12.5	16.7	15.7	17.1	15.0	14.6	13.2	16.6	14.0	14.9
27	12.5	15.1	12.5	12.4	14.5	14.5	14.5	13.5	13.1	12.7	12.8	13.8	14.4
28	13.0	11.1	11.0	12.0	12.9	13.3	12.9	12.3	12.3	12.3	12.8	12.8	—
29	—	—	—	—	—	—	—	—	—	—	—	—	15.3
30	9.7	9.7	12.2	12.4	11.8	12.1	11.0	10.1	10.7	13.7	11.9	10.7	10.9
31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	11.10	11.48	12.97	14.52	15.75	15.74	15.47	14.85	14.92	14.88	15.00	14.80	15.08

TEMPERATURE OF THE MAGNET.													
Sept. 30	61.6	61.8	62.0	62.0	61.9	61.7	61.4	61.3	61.1	60.8	60.4	60.0	—
1	—	—	—	—	—	—	—	—	—	—	—	—	58.0
2	57.5	57.8	58.1	58.5	58.7	58.7	58.5	58.3	58.2	58.0	58.0	58.0	57.8
3	58.0	58.8	59.3	59.5	60.1	60.2	60.2	60.2	60.1	60.0	59.7	59.5	59.2
4	58.7	59.0	59.5	59.9	60.2	60.2	60.5	60.5	60.3	60.2	60.3	60.2	60.0
5	59.4	59.5	59.7	59.9	60.0	60.0	60.1	60.0	59.8	59.6	59.4	59.0	58.6
6	58.1	58.6	58.9	59.3	59.6	59.8	59.7	59.6	59.6	59.4	59.2	59.0	58.8
7	58.2	58.5	58.8	59.0	59.2	59.2	59.3	59.1	58.9	58.8	58.5	58.4	—
8	—	—	—	—	—	—	—	—	—	—	—	—	59.4
9	60.8	61.4	62.2	62.7	63.2	63.5	63.7	63.8	63.7	63.6	63.4	63.3	63.0
10	63.5	63.6	63.6	63.7	63.7	63.7	63.7	63.4	63.4	63.1	62.9	62.8	62.6
11	63.2	63.6	64.1	64.7	65.0	65.4	65.2	65.1	65.1	65.0	65.2	65.2	65.1
12	65.8	66.3	66.9	67.5	67.9	68.1	68.4	68.5	68.4	68.2	67.8	67.6	67.1
13	64.8	65.1	65.1	65.2	65.5	65.6	65.6	65.5	65.1	65.0	64.8	64.4	64.2
14	63.2	63.5	63.5	63.9	64.1	64.2	64.2	64.2	64.0	63.8	63.6	63.5	—
15	—	—	—	—	—	—	—	—	—	—	—	—	61.4
16	61.7	62.2	62.6	63.2	63.6	63.8	63.8	63.8	63.7	63.7	63.6	63.6	63.4
17	62.5	62.7	62.8	63.3	63.5	63.6	63.5	63.5	63.5	63.4	63.2	62.9	62.6
18	62.2	62.3	62.7	62.8	63.0	63.1	63.1	63.0	62.8	62.6	62.2	62.0	61.9
19	61.3	61.3	61.1	61.3	61.4	61.4	61.4	61.3	61.0	60.8	60.5	60.3	60.1
20	59.5	59.6	59.8	60.0	60.0	60.0	60.1	60.0	59.9	59.6	59.5	59.1	58.9
21	58.5	59.2	59.7	60.1	60.5	60.7	60.7	60.7	60.6	60.5	60.5	60.3	—
22	—	—	—	—	—	—	—	—	—	—	—	—	61.3
23	62.4	62.5	62.8	63.1	63.2	63.2	63.1	63.0	63.0	62.9	62.8	62.7	62.6
24	62.6	62.7	63.0	63.2	63.4	63.4	63.2	63.0	62.8	62.5	62.1	61.9	61.8
25	61.5	61.6	61.7	61.8	61.9	61.8	61.6	61.6	61.3	61.1	61.0	60.8	60.5
26	60.9	61.0	61.1	61.3	61.5	61.5	61.5	61.4	61.4	61.2	61.0	60.8	60.6
27	60.8	61.1	61.6	61.9	62.4	62.6	62.8	62.7	62.6	62.5	62.5	61.9	61.6
28	61.4	61.7	62.1	62.3	62.3	62.5	62.6	62.5	62.4	62.3	62.2	61.8	—
29	—	—	—	—	—	—	—	—	—	—	—	—	59.8
30	61.3	61.9	62.7	63.4	63.8	64.1	64.3	64.3	64.3	64.0	63.8	63.8	63.7
31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	61.11	61.42	61.74	62.06	62.31	62.41	62.43	62.36	62.24	62.07	61.91	61.71	61.31

VERTICAL FORCE.												
One Scale Division = .00018 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah ^t . = .00005.												
Mean Göttingen Time.	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.
Sept. 30	—	—	—	—	—	—	—	—	—	—	—	20·12
1	18·4	20·3	21·8	21·8	21·8	21·3	22·3	22·6	22·0	23·6	22·4	21·26
2	20·1	21·1	20·8	20·3	20·4	22·5	23·6	22·4	20·0	19·3	19·9	19·08
3	19·7	20·3	20·3	19·5	19·5	20·6	21·3	19·7	18·0	15·6	14·0	18·03
4	17·9	18·4	16·7	18·3	17·4	18·2	20·7	21·2	20·4	16·4	14·2	18·80
5	18·8	19·2	17·8	20·4	20·9	20·4	20·8	21·5	21·2	18·5	14·7	18·57
6	19·1	19·5	19·7	19·7	19·7	19·9	20·3	20·4	19·0	15·7	14·1	17·65
7	—	—	—	—	—	—	—	—	—	—	—	14·66
8	18·3	18·3	17·7	17·7	17·8	18·8	19·5	18·9	17·2	14·3	13·4	14·27
9	14·8	15·1	15·1	15·1	15·1	17·2	19·5	18·1	14·8	10·2	9·6	12·11
10	14·7	14·7	15·0	15·1	15·4	16·7	18·1	17·7	14·7	11·2	7·6	11·41
11	13·3	13·0	12·9	12·9	13·4	13·8	14·9	14·8	12·5	9·2	7·4	11·13
12	13·1	13·1	11·7	11·4	11·4	12·4	13·6	13·9	10·4	8·8 ^a	8·8	12·05
13	12·0	11·8	13·0	11·5	11·9	13·0	13·9	12·3	12·7	10·1	7·0	12·20
14	—	—	—	—	—	—	—	—	—	—	—	12·66
15	11·5	14·0	14·2	14·2	14·4	14·4	16·1	15·8	13·0	10·6	10·2	13·17
16	11·6	11·3	11·2	13·1	12·7	12·2	12·7	12·9	12·5	11·4	11·9	13·57
17	12·7	12·4	13·3	13·8	13·8	14·4	13·1	11·9	10·3	10·1	10·5	15·06
18	13·8	13·4	12·9	12·3	12·7	14·2	15·2	15·0	12·6	10·5	9·6	12·99
19	14·1	13·6	14·1	13·9	15·4	16·3	17·3	16·6	14·4	12·1	9·8	10·55
20	14·9	15·0	14·4	15·3	16·2	17·1	18·9	18·3	16·5	14·8	13·4	12·95
21	—	—	—	—	—	—	—	—	—	—	—	13·97
22	12·9	12·9	13·0	12·7	12·2	13·2	13·8	11·2	8·6	7·4	7·7	14·77
23	11·2	11·0	11·8	11·8	12·1	12·8	14·0	13·4	10·2	7·2	5·0	14·28
24	14·2	13·9	13·2	12·5	12·8	15·3	16·7	16·7	14·1	9·9	8·6	13·03
25	14·8	13·7	13·5	13·1	13·2	14·4	17·2	16·0	15·2	14·7	12·2	10·64
26	13·3	13·3	13·6	15·0	14·7	14·7	16·1	17·9	17·1	15·7	13·7	14·28
27	14·4	14·4	14·4	14·4	15·0	15·3	16·3	16·1	16·3	15·8	14·0	13·03
28	—	—	—	—	—	—	—	—	—	—	—	10·64
29	15·4	15·4	15·1	14·9	15·3	15·8	15·1	13·3	10·7	9·6	8·2	—
30	10·9	10·9	11·0	11·7	10·8	12·5	12·5	9·8	5·5	5·5	7·4	—
31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	14·84	15·00	14·93	15·09	15·23	16·05	17·06	16·48	14·61	12·62	11·36	14·58

TEMPERATURE OF THE MAGNET.												
	°	°	°	°	°	°	°	°	°	°	°	°
Sept. 30	—	—	—	—	—	—	—	—	—	—	—	59·30
1	57·8	57·8	57·6	57·4	57·1	56·9	56·7	56·8	56·7	57·1	57·3	57·79
2	57·6	57·5	57·4	57·2	57·2	57·0	57·0	57·0	57·3	57·7	58·0	58·87
3	59·0	58·7	58·4	58·0	57·8	57·5	57·4	57·5	57·5	57·9	58·3	59·61
4	59·9	59·8	59·5	59·3	59·2	58·8	58·7	58·7	58·8	59·1	59·3	58·76
5	58·4	58·1	57·7	57·5	57·5	57·5	57·5	57·5	57·7	57·8	58·0	58·60
6	58·8	58·6	58·3	58·0	57·7	57·4	57·4	57·4	57·6	57·8	57·9	59·48
7	—	—	—	—	—	—	—	—	—	—	—	62·88
8	59·3	59·2	59·1	59·1	58·9	58·8	58·8	59·1	59·4	60·0	60·4	62·77
9	63·0	62·8	62·7	62·6	62·6	62·7	62·6	62·7	62·8	63·1	63·3	64·87
10	62·5	62·3	62·1	61·9	61·8	61·5	61·6	61·8	62·2	62·4	62·7	66·64
11	65·1	65·0	64·9	64·9	64·8	64·8	64·8	64·8	65·0	65·2	65·6	64·10
12	66·8	66·6	66·3	65·9	65·6	65·3	65·1	64·9	64·8	64·7	64·8	62·35
13	63·8	63·5	63·4	63·1	62·9	62·7	62·5	62·4	62·5	62·8	63·0	62·92
14	—	—	—	—	—	—	—	—	—	—	—	62·57
15	61·2	61·0	60·8	60·7	60·6	60·4	60·5	60·6	61·0	61·0	61·5	62·05
16	63·3	63·1	62·9	62·5	62·5	62·2	62·1	62·1	62·1	62·3	62·3	60·12
17	62·5	62·2	61·9	61·8	61·7	61·6	61·5	61·6	61·8	61·9	62·1	58·75
18	61·8	61·8	61·7	61·6	61·5	61·3	61·1	61·1	61·1	61·3	61·3	60·78
19	59·9	59·5	59·4	59·2	58·9	58·7	58·5	58·5	58·8	59·0	59·3	62·44
20	58·6	58·3	57·9	57·7	57·3	57·1	57·0	57·0	57·4	57·6	58·2	61·98
21	—	—	—	—	—	—	—	—	—	—	—	60·95
22	61·4	61·4	61·3	61·3	61·3	61·1	61·1	61·2	61·5	61·8	62·1	60·58
23	62·5	62·3	62·2	61·8	61·7	61·5	61·5	61·5	62·0	62·0	62·3	61·36
24	61·6	61·4	61·3	61·0	60·8	60·7	60·7	60·8	60·9	61·2	61·4	60·93
25	60·5	60·4	60·4	60·3	60·3	60·5	60·4	60·4	60·4	60·4	60·6	60·58
26	60·5	60·2	60·0	59·8	59·6	59·4	59·4	59·5	59·7	60·0	60·5	61·36
27	61·3	60·9	60·6	60·5	60·3	60·1	60·0	60·1	60·2	60·7	61·0	60·93
28	—	—	—	—	—	—	—	—	—	—	—	63·45
29	59·7	59·6	59·4	59·3	59·2	59·3	59·5	59·7	59·8	60·2	60·8	—
30	63·6	63·4	63·4	63·5	63·4	63·1	63·0	63·2	63·3	63·5	64·0	—
31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	61·17	60·98	60·79	60·61	60·47	60·30	60·25	60·30	60·47	60·71	61·00	61·34

^a Magnet raised on its Y supports.

VERTICAL FORCE.													
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.													
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 .	12 ^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.
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—
	2 ^a	45·0	44·4	46·6	47·7	46·7	49·4	50·9	52·2	51·6	51·2	52·4	53·8
	3	50·1	45·8	46·4	46·7	48·1	48·7	47·9	49·2	48·7	48·7	48·7	49·0
	4	43·4	42·8	43·1	45·2	46·5	47·1	47·1	7·0	48·5	47·9	47·8	48·0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	43·9	45·3	46·8	50·4	50·4	51·1	48·8	48·0	48·7	49·6	49·7	50·2
	7	43·7	43·7	45·6	48·9	52·0	52·6	51·7	53·4	50·1	50·1	50·8	51·3
	8	46·2	46·7	47·5	48·9	52·7	53·5	52·3	51·8	52·6	53·4	53·8	53·1
	9	51·9	52·0	52·4	52·6	52·4	52·4	52·4	52·4	52·7	53·0	54·0	53·7
	10	49·4	48·9	49·4	51·1	53·1	54·0	52·8	51·9	51·9	52·0	51·9	52·6
	11	48·8	47·7	48·7	49·9	52·2	54·0	53·5	53·0	53·0	52·8	52·3	51·9
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	46·5	47·1	49·7	52·3	60·7	60·9	59·5	59·5	56·1	54·3	52·5	52·4
	14	51·0	51·5	52·2	54·7	54·5	55·0	53·5	52·6	53·0	53·2	53·6	51·8
	15	52·3	52·8	53·0	53·9	54·0	53·7	52·5	53·0	52·3	53·7	51·2	51·4
	16	47·7	46·9	47·3	47·8	48·0	49·7	50·6	51·0	51·0	51·2	50·8	49·5
	17	48·0	46·6	46·5	46·8	48·0	49·9	49·9	49·3	49·5	49·5	49·7	48·9
	18	45·1	45·3	45·9	47·7	48·1	49·3	51·4	50·7	49·9	49·6	49·3	49·0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	44·2	44·2	44·9	45·7	46·7	47·1	47·3	47·8	48·1	48·1	47·9	48·5
	21	44·4	45·6	48·1	48·8	49·3	50·1	49·1	49·1	50·6	50·4	49·9	49·1
	22	46·9	46·9	48·2	48·4	49·1	49·2	48·6	48·1	48·5	47·6	47·7	47·7
	23	45·5	43·8	44·1	44·7	45·8	47·9	47·8	47·3	47·9	48·1	47·6	48·1
	24	41·5	44·5	45·4	47·7	50·4	51·1	49·5	49·4	50·5	52·1	51·2	50·7
	25	46·6	44·5	45·5	46·2	48·0	49·1	49·6	48·8	48·8	49·0	49·2	49·5
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	43·3	42·2	42·4	44·0	45·9	48·4	48·9	47·7	47·9	48·2	49·6	49·6
	28	45·4	42·0	43·1	45·3	48·6	51·1	53·2	53·5	51·8	50·5	51·2	50·5
	29	47·0	46·4	45·8	46·2	48·3	48·0	47·6	47·5	47·8	47·6	47·6	47·2
	30	43·7	43·9	44·7	44·8	43·2	44·3	44·6	45·8	46·8	48·3	47·6	46·9
Hourly Means	46·46	46·06	46·93	48·26	49·71	50·70	50·44	50·40	50·35	50·40	50·32	50·16	

TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	°
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	—
	2	63·7	64·3	64·7	65·1	65·5	65·7	65·6	65·5	65·3	65·0	65·0	64·8
	3	65·3	65·7	66·3	66·6	67·1	67·3	67·3	67·1	67·0	66·8	66·7	66·6
	4	67·5	67·8	68·3	68·6	68·8	68·8	68·7	68·3	68·2	67·9	67·8	67·5
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	66·3	66·4	66·6	66·7	66·8	66·7	66·6	66·5	66·4	66·1	65·7	65·3
	7	64·4	64·7	65·0	65·1	65·2	65·1	65·1	64·9	64·9	64·6	64·3	64·1
	8	62·8	62·9	63·0	63·0	63·0	63·0	62·8	62·7	62·4	62·0	61·5	61·3
	9	60·4	60·7	61·0	61·2	61·4	61·5	61·5	61·5	61·5	61·4	61·2	60·9
	10	60·6	61·0	61·3	61·6	61·9	62·1	62·0	62·0	62·0	61·9	61·9	61·8
	11	61·6	61·8	62·1	62·2	62·2	62·2	62·1	62·0	62·0	62·0	62·0	62·0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	61·1	61·3	61·4	61·6	61·7	61·7	61·8	61·8	61·6	61·4	61·0	60·8
	14	60·8	61·1	61·3	61·4	61·5	61·5	61·5	61·5	61·4	61·1	61·1	60·9
	15	60·3	60·7	61·0	61·4	61·8	62·0	62·2	62·2	62·2	62·2	62·1	62·0
	16	63·4	63·8	64·1	64·7	64·9	65·1	65·4	65·4	65·3	65·3	65·1	65·0
	17	64·7	65·0	65·1	65·2	65·4	65·4	65·5	65·4	65·3	65·1	64·9	64·8
	18	64·7	64·9	65·0	65·1	65·1	65·1	65·1	65·1	64·9	64·8	64·7	64·5
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	64·2	64·4	64·7	64·9	65·3	65·7	65·8	65·8	65·8	65·7	65·5	65·3
	21	64·5	64·6	64·7	65·1	65·2	65·3	65·2	65·1	65·0	64·9	64·9	64·8
	22	64·6	64·6	64·6	64·7	64·7	64·7	64·6	64·6	64·6	64·5	64·5	64·5
	23	65·2	65·5	65·7	65·9	66·0	65·8	65·8	65·7	65·6	65·3	65·0	64·7
	24	63·4	63·6	63·7	63·8	63·8	63·7	63·6	63·5	63·5	63·4	63·1	63·0
	25	63·0	63·2	63·5	63·7	63·9	64·0	64·5	64·5	64·3	64·3	63·8	63·5
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	65·3	65·6	65·5	65·5	65·5	65·4	65·2	65·0	64·8	64·5	64·0	63·8
	28	62·6	62·7	62·8	62·8	63·0	62·9	62·8	62·6	62·4	62·1	62·0	61·8
	29	62·9	63·5	64·1	64·7	65·0	65·5	65·5	65·5	65·5	65·4	65·2	65·0
	30	65·1	65·6	66·0	66·3	66·5	66·7	66·8	66·7	66·5	66·3	65·9	65·7
Hourly Means	63·54	63·82	64·06	64·28	64·45	64·52	64·52	64·43	64·34	64·16	63·96	63·78	

^a New adjustment.

VERTICAL FORCE.

One Scale Division = 00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	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.	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2 ^a	51.1	51.1	51.1	51.7	51.3	52.9	54.5	52.9	52.3	51.8	47.0	50.48
	3	49.1	49.3	49.3	48.3	48.1	49.7	51.1	49.5	46.0	42.7	42.4	48.03
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	48.1	48.1	48.3	48.7	49.2	50.3	51.4	51.4	46.8	43.7	43.2	47.14
	6	50.7	50.6	51.0	51.0	52.3	53.9	54.2	52.9	49.6	45.0	44.1	49.54
	7	52.0	52.0	51.6	51.7	52.3	53.8	55.0	54.2	51.6	46.5	45.2	50.46
	8	53.0	54.3	54.0	53.6	55.8	60.6	55.3	55.4	51.5	49.0	50.9	52.51
	9	54.3	54.6	54.4	53.8	54.9	56.8	57.5	56.9	54.5	52.7	50.7	53.64
	10	53.6	54.0	53.1	53.5	54.0	54.9	54.8	54.0	51.8	51.2	50.6	52.39
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	50.9	50.7	51.2	50.8	52.5	54.0	54.5	55.3	53.1	50.1	48.6	51.68
	13	53.6	51.6	53.2	54.0	55.2	55.8	56.2	55.9	52.8	51.0	51.3	53.95
	14	54.7	54.9	55.4	55.6	56.3	58.2	58.2	58.2	55.0	54.5	52.3	54.35
	15	52.2	51.5	53.3	54.6	54.9	54.6	55.1	54.2	53.3	50.9	48.8	52.88
	16	50.0	49.6	49.9	50.9	51.3	52.2	52.1	52.1	49.9	49.0	48.4	49.84
	17	49.6	49.6	49.6	49.5	50.8	50.6	49.6	46.3	44.9	44.5	44.9	48.38
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	49.8	50.2	49.9	50.7	52.1	51.5	50.2	49.0	48.6	45.0	44.2	48.83
	20	48.5	48.3	48.5	49.5	50.3	50.9	52.4	51.1	52.4	46.8	45.4	48.06
	21	49.6	50.1	49.5	49.5	51.0	52.6	53.3	53.8	51.1	48.3	47.1	49.58
	22	48.2	49.1	49.0	49.9	48.8	48.6	49.5	49.9	49.4	48.1	47.3	48.44
	23	48.9	48.2	48.6	49.2	50.4	51.4	52.4	52.9	50.6	47.6	43.6	47.96
	24	51.9	52.1	51.7	51.1	50.5	51.6	53.2	53.7	52.8	50.1	47.9	50.08
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	48.7	48.4	48.4	48.5	49.2	49.8	49.0	48.1	46.6	45.1	44.9	47.94
	27	49.8	50.4	50.6	51.3	51.1	52.0	52.0	51.3	49.7	48.3	46.3	48.35
	28	50.6	51.4	51.6	52.3	51.5	51.3	50.6	48.4	47.4	46.1	46.1	49.28
	29	48.8	47.6	49.5	49.8	49.4	49.1	47.8	46.4	43.1	42.0	42.6	47.16
	30	46.9	47.2	47.6	47.6	48.4	47.8	44.5	41.3	41.1	40.9	41.4	45.23
Hourly Means		50.58	50.60	50.81	51.08	51.66	52.60	52.58	51.80	49.84	47.64	46.61	49.85

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	64.4	64.3	64.1	63.9	63.8	63.8	63.8	63.9	64.0	64.5	64.8	64.59
	3	66.4	66.3	65.9	65.8	65.8	66.0	66.1	66.1	66.4	66.6	66.8	66.44
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	66.8	66.7	66.5	66.4	66.2	66.0	65.9	65.8	65.7	66.0	66.1	67.22
	6	64.6	64.4	64.2	63.9	63.7	63.6	63.6	63.7	63.8	63.9	64.0	65.19
	7	63.8	63.8	63.7	63.7	63.6	63.4	63.2	63.2	63.1	63.0	62.9	64.12
	8	60.8	60.4	60.2	60.0	59.8	59.7	59.7	59.7	59.9	60.0	60.1	61.33
	9	60.5	60.4	60.0	59.8	59.6	59.5	59.4	59.5	59.8	60.1	60.3	60.58
	10	61.5	61.1	60.9	60.6	60.6	60.6	60.5	60.6	60.8	60.9	61.3	61.30
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	61.9	61.8	61.6	61.5	61.4	61.3	61.1	61.0	61.0	61.2	61.2	61.72
	13	60.3	60.1	60.1	59.9	59.7	59.7	59.6	59.7	59.8	60.2	60.6	60.73
	14	60.4	60.2	60.0	59.7	59.4	59.4	59.5	59.5	59.7	59.7	60.0	60.55
	15	61.7	61.6	61.2	61.0	60.9	61.1	61.2	61.4	61.7	62.2	62.8	61.61
	16	64.7	64.6	64.4	64.3	64.1	63.8	63.9	64.0	64.0	64.3	64.5	64.54
	17	64.5	64.4	64.3	64.2	64.1	64.1	64.0	64.1	64.3	64.3	64.6	64.73
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	64.0	63.8	63.6	63.3	62.9	62.8	62.8	62.9	63.2	63.4	63.7	64.15
	20	64.6	64.4	64.2	63.8	63.6	63.6	63.6	63.7	63.8	63.9	64.2	64.65
	21	64.6	64.6	64.3	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.5	64.62
	22	64.4	64.3	64.2	64.1	64.1	64.0	64.0	64.0	64.2	64.5	64.9	64.43
	23	64.2	63.8	63.6	63.4	63.2	62.9	62.9	62.8	62.8	62.9	63.1	64.43
	24	62.8	62.7	62.6	62.5	62.4	62.3	62.3	62.4	62.5	62.7	62.8	63.04
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	64.9	65.0	64.8	64.8	64.8	64.9	64.9	65.1	65.3	65.2	65.3	64.43
	27	63.3	62.9	62.6	62.2	62.0	62.0	61.9	62.0	62.1	62.2	62.4	63.72
	28	61.5	61.3	61.2	61.0	61.0	60.9	60.9	61.0	61.4	61.9	62.3	61.93
	29	64.7	64.5	64.3	64.0	63.9	63.8	63.8	63.9	64.3	64.5	64.9	64.55
	30	65.3	65.0	65.1	64.9	64.8	64.7	64.8	65.0	65.1	65.5	66.1	65.67
Hourly Means		63.46	63.30	63.10	62.91	62.78	62.72	62.70	62.76	62.92	63.11	63.37	63.61

* New adjustment.

VERTICAL FORCE.															
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.															
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 .	12 ^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.		
DECEMBER.	1	42.1	43.8	45.1	44.2	44.8	45.5	47.5	47.5	46.8	46.1	45.0	45.0	44.4	
	2	47.1	45.5	49.0	50.7	48.3	45.8	46.6	46.7	47.0	47.3	47.5	47.5	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	48.9	
	4	42.8	43.0	43.7	45.9	47.0	47.3	47.8	48.2	48.2	48.7	49.5	49.5	49.8	49.8
	5	46.3	46.9	47.4	47.3	47.5	48.5	49.0	49.0	50.3	50.3	49.2	49.2	48.8	48.8
	6	47.1	46.9	46.4	47.3	47.9	47.9	47.9	48.1	49.2	48.6	49.0	47.9	49.0	49.0
	7	45.6	45.0	45.0	45.9	46.7	46.7	46.7	46.7	46.9	47.3	47.6	47.3	47.8	47.8
	8	41.0	41.6	42.2	42.2	46.0	49.2	50.9	52.9	52.6	48.2	47.6	47.0	46.7	46.7
	9	44.8	44.2	44.6	45.3	45.8	46.7	45.2	46.7	47.8	45.1	46.7	45.7	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	46.9
	11	45.9	43.6	45.1	45.1	48.6	46.7	45.2	45.2	45.2	44.4	45.8	45.3	42.7	42.7
	12	43.9	43.5	44.2	47.2	46.8	46.5	45.8	45.8	46.8	44.9	44.1	44.1	45.6	45.6
	13	44.7	43.8	43.8	43.8	44.6	45.4	46.5	49.1	48.5	47.1	45.6	43.0	45.6	45.6
	14	41.1	41.7	43.5	43.8	44.6	45.4	44.6	44.1	44.5	44.5	45.4	45.2	45.4	45.4
	15	46.4	45.2	45.2	47.2	48.1	47.9	48.5	48.1	47.8	47.3	47.3	46.8	46.5	46.5
	16	44.1	44.1	43.9	44.8	45.6	45.3	46.4	46.0	46.0	45.7	45.4	45.8	—	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	—	46.8
	18	42.1	40.5	41.5	43.4	44.3	44.3	44.7	45.3	45.0	44.6	44.0	44.0	44.6	44.6
	19	41.9	40.8	41.0	40.5	41.2	40.4	40.4	40.8	41.7	42.1	42.6	42.6	41.7	41.7
	20	37.9	38.7	39.9	39.9	39.4	39.5	39.8	39.5	39.5	39.8	39.7	41.8	41.8	41.8
	21	37.5	35.5	37.1	38.2	39.2	40.6	41.7	41.0	40.7	40.7	41.2	41.2	40.9	40.9
	22	38.2	37.9	37.7	39.5	40.0	40.3	40.3	40.4	41.1	40.4	41.2	41.7	42.4	42.4
	23	37.5	38.0	39.2	39.8	40.4	41.5	42.8	43.1	42.2	42.8	43.7	44.5	—	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	—	44.8
	25	40.4	40.9	39.8	40.5	40.6	41.5	42.1	42.1	41.8	41.6	41.7	42.0	42.0	42.0
	26	34.6	35.0	35.7	37.2	38.9	38.9	39.4	39.3	39.3	39.2	39.3	39.3	38.9	38.9
	27	35.3	37.0	36.5	36.9	38.6	40.3	43.3	43.8	40.3	39.0	39.4	39.4	40.1	40.1
	28	37.7	36.9	41.0	45.1	44.9	43.0	43.8	43.3	43.0	42.3	42.4	43.0	43.2	43.2
	29	40.6	39.0	40.2	41.8	41.4	41.1	41.5	42.0	42.0	42.6	42.6	41.8	41.4	41.4
	30	38.8	38.4	38.2	37.4	37.6	38.3	39.4	40.6	40.9	40.9	40.5	39.4	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—	39.6
Hourly Means	41.75	41.44	42.19	43.11	43.80	44.02	44.53	44.82	44.81	44.29	44.38	44.23	44.47	44.47	
TEMPERATURE OF THE MAGNET.															
DECEMBER.	1	66.5	67.1	67.5	67.8	68.0	68.3	68.3	68.0	67.8	67.7	67.5	67.4	67.3	
	2	68.7	68.9	69.0	69.1	69.1	69.2	69.2	69.1	68.7	68.4	68.2	67.9	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	66.5	
	4	66.2	66.4	66.5	66.7	66.9	67.0	66.9	66.7	66.5	66.0	65.8	65.6	65.1	65.1
	5	65.0	65.2	65.4	65.5	65.8	65.8	65.8	65.8	65.7	65.7	65.5	65.3	65.1	65.1
	6	65.0	65.2	65.5	65.6	65.6	65.6	65.3	65.2	64.9	64.7	64.6	64.3	64.0	64.0
	7	65.4	65.8	66.3	66.6	66.7	66.8	66.8	66.7	66.4	66.3	66.4	66.4	66.3	66.3
	8	67.0	67.4	67.5	67.8	67.8	67.8	67.8	67.5	67.4	67.3	66.9	66.6	66.4	66.4
	9	66.1	66.5	67.0	67.4	67.7	68.1	68.0	68.0	67.9	67.8	67.7	67.6	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	67.8
	11	67.5	68.1	68.5	68.8	69.2	69.6	69.8	70.0	69.9	69.8	69.6	69.5	69.2	69.2
	12	68.5	68.7	68.8	69.0	69.1	69.5	69.5	69.5	69.4	69.2	68.8	68.6	68.1	68.1
	13	68.2	68.4	68.5	68.8	69.0	69.1	69.4	69.4	69.3	69.1	69.1	68.8	68.5	68.5
	14	68.5	68.6	68.8	69.1	69.1	69.1	69.3	69.3	69.3	69.1	68.8	68.6	68.3	68.3
	15	65.8	65.9	66.2	66.2	66.2	66.2	65.8	65.6	65.2	64.9	64.8	64.7	64.4	64.4
	16	65.0	65.3	65.7	66.1	66.6	66.7	66.9	66.7	66.5	66.3	66.0	65.8	—	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	—	64.7
	18	65.1	65.6	66.1	66.5	66.6	66.9	67.0	66.9	66.8	66.6	66.3	66.0	65.8	65.8
	19	67.2	67.6	68.2	68.7	69.1	69.5	69.6	69.6	69.3	69.2	69.1	69.0	68.8	68.8
	20	70.0	70.4	70.7	71.0	71.6	71.8	71.9	71.8	71.7	71.5	71.2	70.9	70.8	70.8
	21	71.1	71.6	71.8	72.1	72.2	72.2	72.1	71.8	71.5	71.1	71.0	70.8	70.7	70.7
	22	70.2	70.3	70.4	70.5	70.8	71.1	71.0	71.0	70.8	70.7	70.5	70.4	70.0	70.0
	23	69.1	69.2	69.4	69.4	69.4	69.4	69.0	68.5	68.0	67.6	67.0	66.7	—	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	—	64.8
	25	66.2	66.5	67.0	67.4	67.8	68.0	68.2	68.1	68.0	67.8	67.8	67.5	67.4	67.4
	26	68.5	68.8	69.2	69.7	69.9	70.0	70.1	70.1	70.0	69.6	69.4	69.2	69.1	69.1
	27	69.4	69.7	69.8	69.8	69.9	69.9	70.0	69.8	69.6	69.3	69.1	68.8	68.7	68.7
	28	66.6	66.8	66.9	67.1	67.0	67.0	66.8	66.7	66.4	66.0	65.8	65.5	65.2	65.2
	29	65.0	65.3	65.8	66.2	66.6	66.8	67.0	67.0	66.9	66.8	66.6	66.6	66.5	66.5
	30	67.3	67.5	68.0	68.6	68.7	68.8	69.0	68.8	68.8	68.6	68.4	68.3	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—	67.9
Hourly Means	67.27	67.57	67.87	68.13	68.32	68.47	68.48	68.37	68.18	67.97	67.77	67.57	67.21	67.21	

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	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.
1	44.4	45.7	44.5	44.4	47.4	47.7	46.2	44.3	46.3	47.0	46.6	45.51
2	—	—	—	—	—	—	—	—	—	—	—	—
3	48.7	49.3	49.5	49.6	50.2	51.1	51.1	50.7	50.8	48.0	44.4	48.39
4	50.6	50.6	50.6	50.3	50.7	51.1	52.2	53.4	50.7	45.8	44.8	48.43
5	49.6	48.7	49.5	49.1	48.8	48.5	48.3	49.4	48.7	47.3	45.8	48.48
6	49.7	49.8	49.7	50.7	50.9	49.1	49.1	48.1	47.5	46.2	45.9	48.33
7	47.8	47.8	47.1	47.3	48.0	49.5	50.8	49.5	46.4	43.2	41.9	46.85
8	47.6	47.2	46.2	45.6	46.6	47.3	45.3	44.1	47.2	47.2	45.9	46.60
9	—	—	—	—	—	—	—	—	—	—	—	—
10	48.4	47.2	48.1	48.0	47.7	47.1	48.0	48.4	49.2	50.3	46.8	46.86
11	47.4	45.9	—	—	—	47.7	47.7	49.8	47.7	45.2	43.9	45.91
12	47.0	47.0	47.4	47.4	47.4	46.3	45.6	43.9	42.4	42.4	43.4	45.39
13	45.9	45.8	45.9	47.1	47.5	47.5	47.5	47.5	46.0	41.9	41.4	45.65
14	45.0	45.2	46.1	46.6	48.1	47.7	47.7	46.9	47.7	47.5	46.4	45.36
15	48.7	47.8	48.6	49.1	49.5	49.5	48.9	47.3	46.1	42.8	42.8	47.23
16	—	—	—	—	—	—	—	—	—	—	—	—
17	46.2	46.6	46.9	46.8	48.1	48.2	48.2	48.2	46.2	43.0	42.5	45.87
18	44.6	44.6	45.9	46.2	47.0	47.1	48.1	47.8	44.1	43.1	42.6	44.56
19	42.0	41.7	41.5	41.9	43.0	43.0	43.2	41.8	40.4	39.2	38.4	41.41
20	41.9	41.9	42.2	42.1	41.8	42.8	43.1	41.8	40.0	40.4	40.1	40.64
21	40.9	40.9	40.9	41.2	42.0	43.7	44.1	41.8	38.3	36.9	37.3	40.15
22	42.8	43.1	42.9	42.7	42.5	42.7	41.7	40.9	40.2	39.1	38.8	40.77
23	—	—	—	—	—	—	—	—	—	—	—	—
24	44.8	44.8	44.5	44.5	44.7	44.9	44.3	43.3	42.1	39.8	41.2	42.47
25	42.4	42.2	42.2	42.0	42.0	42.0	41.9	41.9	39.4	37.1	35.3	41.06
26	38.6	38.4	40.0	41.2	41.2	41.2	40.9	41.3	41.3	39.0	36.3	38.93
27	40.4	40.4	41.6	41.1	42.5	44.0	44.0	43.5	40.5	38.7	37.5	40.17
28	41.6	42.5	43.5	44.5	44.2	45.4	44.2	41.9	40.2	38.8	40.1	42.35
29	41.4	41.8	42.4	42.1	43.0	43.8	42.1	40.8	39.7	39.2	39.6	41.41
30	—	—	—	—	—	—	—	—	—	—	—	—
31	39.1	38.7	39.3	39.7	40.4	41.2	40.4	38.6	36.7	37.5	38.1	39.15
Hourly Means	44.90	44.83	45.08	45.25	45.81	46.16	45.95	45.27	44.07	42.56	41.84	44.14

TEMPERATURE OF THE MAGNET.

1	67.2	67.1	67.0	66.9	66.9	67.0	67.2	67.3	67.7	68.1	68.4	67.50
2	—	—	—	—	—	—	—	—	—	—	—	—
3	66.3	66.1	65.7	65.2	64.7	64.9	64.9	65.0	65.3	65.5	66.0	67.15
4	64.8	64.7	64.3	64.1	64.0	63.8	64.0	64.1	64.4	64.6	64.7	65.41
5	65.0	64.9	64.7	64.6	64.6	64.4	64.4	64.4	64.5	64.6	64.9	65.11
6	63.8	63.8	63.8	63.6	63.5	63.5	63.5	63.7	63.9	64.3	64.8	64.49
7	66.2	66.0	65.9	65.8	65.8	65.8	65.8	65.9	66.3	66.5	66.6	66.23
8	65.9	65.7	65.3	65.0	65.0	64.8	64.9	65.0	65.3	65.6	65.7	66.39
9	—	—	—	—	—	—	—	—	—	—	—	—
10	67.6	67.4	67.1	66.8	66.6	66.4	66.6	66.6	67.0	67.1	67.3	67.25
11	69.0	68.8	—	—	—	67.5	67.6	67.6	67.9	68.1	68.1	68.77
12	67.8	67.7	67.5	67.1	67.0	66.9	67.0	67.2	67.5	67.5	68.0	68.25
13	68.4	68.2	68.1	67.8	67.6	67.6	67.7	67.7	67.8	68.0	68.3	68.45
14	67.9	67.4	66.8	66.4	66.0	65.7	65.6	65.5	65.6	65.7	65.7	67.68
15	64.0	63.8	63.5	63.4	63.4	63.4	63.6	63.7	63.9	64.2	64.5	64.72
16	—	—	—	—	—	—	—	—	—	—	—	—
17	64.5	64.3	64.0	63.8	63.7	63.5	63.6	64.0	64.2	64.3	64.7	65.12
18	65.8	65.6	65.7	65.6	65.5	65.6	65.6	65.8	66.0	66.3	66.6	66.10
19	68.4	68.5	68.5	68.5	68.4	68.4	68.4	68.5	68.7	69.2	69.4	68.74
20	70.5	70.3	70.1	70.0	69.9	70.0	70.1	70.1	70.3	70.5	70.7	70.74
21	70.6	70.3	70.2	69.8	70.0	69.7	69.7	69.6	69.7	69.9	70.1	70.82
22	69.8	69.6	69.2	69.1	69.0	68.8	68.8	69.0	69.1	69.1	69.2	69.93
23	—	—	—	—	—	—	—	—	—	—	—	—
24	64.8	64.5	64.6	64.5	64.3	64.3	64.3	64.5	64.9	65.2	65.5	66.62
25	67.3	67.1	66.8	66.5	66.5	66.4	66.5	66.6	66.8	67.4	67.8	67.23
26	68.9	68.8	68.6	68.3	68.2	68.2	68.3	68.4	68.5	68.8	69.0	69.07
27	68.6	68.3	68.0	67.4	67.3	66.6	66.2	66.1	66.2	66.5	66.6	68.40
28	64.9	64.7	64.3	64.4	64.2	64.2	64.3	64.3	64.4	64.5	64.8	65.53
29	66.2	66.0	66.0	65.8	65.7	65.8	65.8	66.0	66.1	66.4	66.8	66.24
30	—	—	—	—	—	—	—	—	—	—	—	—
31	67.5	67.4	67.3	67.0	66.8	66.7	66.8	66.8	66.9	67.1	67.4	67.77
Hourly Means	66.99	66.81	66.52	66.30	66.18	66.15	66.20	66.28	66.46	66.73	66.96	67.29

VERTICAL FORCE.													
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.													
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 .	12 ^h .
JANUARY.	1	36.5	36.5	37.3	36.8	36.6	37.5	38.8	38.2	38.2	39.0	38.6	38.6
	2	32.0	34.1	36.7	36.9	36.7	36.1	36.9	39.0	40.8	40.2	39.2	38.0
	3	35.0	32.4	33.9	35.3	35.3	35.7	36.0	36.0	35.2	35.0	36.6	37.7
	4	31.3	32.4	30.4	31.5	31.5	32.0	34.9	34.6	36.4	37.6	40.4	38.8
	5	33.4	35.8	35.2	34.2	34.9	34.3	35.4	36.7	36.3	38.0	38.6	35.4
	6	36.3	37.2	38.5	38.8	39.5	36.5	37.7	35.8	36.7	38.5	38.6	39.6
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	35.4	35.4	35.2	35.2	36.0	36.0	37.7	37.3	35.7	36.6	39.1	36.0
	9	30.3	31.4	33.5	35.4	37.1	37.1	37.5	34.8	34.8	33.5	34.4	34.8
	10	27.6	27.1	28.5	31.4	31.6	32.1	31.2	30.3	31.3	32.8	32.8	28.7
	11	29.6	29.4	28.8	28.4	29.3	32.3	33.1	32.1	32.6	32.0	31.0	31.7
	12	30.0	31.1	31.1	31.1	33.0	34.6	33.4	31.9	31.5	32.1	31.6	32.4
	13	28.5	28.5	29.5	27.7	30.6	34.4	35.5	33.3	32.9	33.3	33.6	33.6
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	28.7	30.3	30.0	28.7	29.8	33.9	35.2	34.7	34.2	34.2	34.9	34.9
	16	31.8	31.8	33.0	31.7	31.7	33.4	34.7	34.2	34.2	34.0	33.4	33.7
	17	29.2	32.4	33.4	32.9	30.6	31.7	34.1	34.6	35.5	34.7	33.1	33.4
	18	27.9	31.2	33.8	33.8	33.9	34.9	34.2	32.4	33.0	33.3	34.1	35.4
	19	32.9	34.9	36.6	35.1	34.2	34.3	35.2	34.4	34.8	34.8	35.6	36.3
	20	29.3	30.4	34.1	33.9	32.2	30.9	31.2	31.2	31.5	31.8	32.1	32.4
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	28.0	27.6	31.7	34.8	33.6	36.4	37.6	33.9	32.0	31.2	31.2	33.3
	23	29.1	27.7	27.2	28.9	29.9	32.2	32.8	32.8	31.5	31.2	30.0	30.9
	24	24.2	23.8	26.5	29.7	31.5	33.2	33.3	31.8	30.6	27.9	29.5	29.6
	25	33.6	33.6	33.3	30.7	30.5	32.3	33.4	32.3	30.1	30.6	30.5	32.0
	26	27.5	25.0	25.3	27.4	30.2	32.4	33.4	33.4	33.0	33.0	32.9	33.5
	27	30.2	30.2	30.4	31.0	32.6	34.3	35.3	35.6	35.6	36.2	35.4	34.5
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	31.2	28.5	29.8	32.2	33.4	34.7	35.6	35.7	35.2	35.2	35.2	34.2
	30	29.8	29.8	26.7	29.4	29.8	31.5	31.1	31.6	31.4	32.2	32.2	32.2
	31	27.1	27.7	28.6	30.3	29.4	29.4	29.4	30.0	32.4	31.7	31.3	31.3
Hourly Means	30.61	30.97	31.81	32.34	32.79	33.86	34.70	34.02	33.98	34.09	34.31	34.18	34.39
TEMPERATURE OF THE MAGNET.													
JANUARY.	1	67.7	68.0	68.3	68.8	69.1	69.4	69.5	69.5	69.2	69.0	68.8	68.6
	2	68.7	69.0	69.5	69.8	70.0	70.1	70.3	70.1	70.1	69.9	69.7	69.6
	3	70.0	70.1	70.3	70.4	70.5	70.8	70.7	70.6	70.3	70.1	69.9	69.6
	4	69.3	69.9	70.5	70.9	71.5	71.8	72.2	72.3	72.3	72.1	71.8	71.5
	5	70.1	70.3	70.3	70.5	70.7	70.8	70.8	70.6	70.5	70.1	70.1	69.9
	6	68.1	68.4	68.6	68.6	68.8	68.8	68.9	68.5	68.4	68.1	67.7	67.4
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	66.4	66.8	67.4	67.9	68.6	69.0	69.1	69.1	69.2	69.1	69.1	69.0
	9	70.1	70.4	70.7	70.9	71.1	71.4	71.7	71.6	71.4	71.0	70.8	70.6
	10	72.0	72.7	73.5	74.2	74.8	75.3	75.7	75.8	75.6	75.5	75.2	75.1
	11	73.6	74.0	74.1	74.3	74.5	74.5	74.3	74.0	73.8	73.3	73.1	72.8
	12	73.1	73.6	74.0	74.1	74.4	74.6	74.5	74.4	74.3	74.1	73.6	73.2
	13	72.7	72.8	73.1	73.2	73.2	73.2	73.0	72.8	72.6	72.1	71.9	71.7
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	69.0	69.3	69.5	69.8	70.1	70.2	70.1	69.8	69.7	69.4	69.2	68.8
	16	69.1	69.7	70.2	70.6	70.8	70.8	71.0	70.8	70.6	70.2	70.0	70.0
	17	70.4	70.7	71.0	71.1	71.6	71.8	71.8	71.8	71.6	71.4	71.1	70.6
	18	70.3	70.7	71.1	71.5	71.7	71.9	72.1	72.0	71.5	71.3	70.8	70.7
	19	69.8	69.9	70.3	70.4	70.5	70.5	70.5	70.1	69.9	69.8	69.6	69.3
	20	69.8	70.2	71.0	71.5	72.1	72.4	72.7	72.8	72.8	72.7	72.3	72.3
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	71.1	71.3	71.6	71.8	71.9	72.1	72.1	71.9	71.7	71.6	71.3	71.1
	23	71.5	71.9	72.3	72.5	72.7	72.7	72.5	72.3	72.2	72.0	71.7	71.6
	24	71.8	71.9	72.2	72.2	72.3	72.3	72.1	71.8	71.7	71.6	71.5	71.1
	25	70.0	70.5	70.8	71.1	71.3	71.4	71.4	71.2	71.0	70.8	70.6	70.6
	26	70.4	70.8	71.1	71.6	71.8	71.8	71.9	71.8	71.6	71.4	71.1	70.5
	27	68.7	68.9	69.1	69.5	69.7	69.7	69.6	69.4	69.2	68.8	68.5	68.2
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	67.5	67.8	68.2	68.4	68.6	68.8	68.9	68.8	68.6	68.4	68.1	67.8
	30	67.8	68.4	68.9	69.5	69.9	70.4	70.5	70.5	70.5	70.5	70.4	70.1
	31	70.1	70.5	70.8	71.3	71.8	72.1	72.1	72.0	71.7	71.3	71.1	70.8
Hourly Means	69.97	70.34	70.68	70.98	71.26	71.43	71.48	71.34	71.19	70.94	70.70	70.46	70.05

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	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.	
JANUARY.	1	38.9	39.0	39.1	39.6	40.4	40.2	38.5	35.7	36.5	35.9	34.5	37.90
	2	37.1	37.1	37.4	37.9	38.6	38.0	37.3	37.2	36.8	36.8	36.0	37.25
	3	37.6	37.5	37.2	38.0	38.9	38.2	37.1	36.9	36.9	35.6	32.4	36.18
	4	36.1	35.1	35.8	34.9	35.2	36.1	36.1	34.0	36.1	35.7	35.7	34.98
	5	36.2	36.2	37.2	35.9	37.0	37.9	36.9	35.6	36.1	35.2	36.7	36.04
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	40.1	40.4	41.1	40.1	40.1	40.4	40.3	40.8	39.0	36.8	34.9	38.57
	8	36.6	36.6	36.9	36.6	37.6	37.6	39.6	38.9	36.2	33.5	32.2	36.43
	9	35.2	35.2	34.8	34.4	36.0	37.3	39.4	40.1	38.1	35.2	30.4	35.25
	10	32.4	32.4	32.3	32.3	33.3	33.7	33.7	33.7	33.7	31.7	29.6	31.52
	11	32.5	33.5	32.6	33.2	34.1	34.9	34.9	35.3	32.8	31.0	29.2	31.95
	12	33.1	32.6	33.1	33.5	34.1	35.0	35.7	35.5	33.9	32.1	29.9	32.70
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	35.2	35.2	36.2	36.1	36.4	37.4	37.7	37.5	34.6	29.3	26.7	33.27
	15	36.9	37.3	37.1	37.1	37.5	37.0	37.3	37.9	36.6	32.0	30.2	34.29
	16	34.4	34.2	35.7	36.2	36.2	35.7	34.8	33.5	29.8	28.4	28.4	33.30
	17	33.6	34.5	34.5	35.6	35.9	36.8	37.1	36.0	35.3	30.5	27.0	33.56
	18	34.7	35.1	34.7	34.7	36.8	37.0	37.3	36.3	33.3	32.6	32.6	34.09
	19	36.1	36.1	35.1	35.4	36.6	37.4	39.5	40.8	39.5	33.7	30.4	35.64
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	32.8	33.8	34.7	34.6	34.7	35.3	35.6	36.6	35.2	32.9	30.4	32.98
	22	32.1	31.8	31.8	32.2	33.0	34.1	35.2	37.8	38.5	33.6	30.6	33.13
	23	31.4	31.7	31.7	31.0	32.2	33.3	34.0	35.2	33.0	30.6	27.7	31.11
	24	30.4	31.8	32.9	34.9	36.8	33.7	36.6	39.9	40.4	36.5	34.4	32.11
	25	33.2	33.7	34.8	35.5	34.3	32.8	33.1	34.1	34.8	35.5	31.8	32.85
	26	34.3	33.9	33.0	33.0	33.6	32.8	34.0	35.0	34.7	32.6	30.2	32.01
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	35.1	35.0	35.0	33.5	34.1	34.4	35.6	36.4	37.0	37.5	33.5	34.29
	29	33.6	33.9	33.9	34.1	34.3	34.7	36.4	38.6	36.0	33.2	30.2	33.89
	30	32.6	32.2	31.9	31.8	31.4	32.9	34.5	39.9	31.9	29.8	28.0	31.43
	31	30.3	30.3	29.4	29.4	28.7	29.6	31.2	30.7	30.2	28.9	27.5	29.78
Hourly Means	34.54	34.67	34.81	34.87	35.47	35.71	36.27	36.48	35.44	33.23	31.15	33.95	

TEMPERATURE OF THE MAGNET.

JANUARY.	1	68.0	67.8	67.6	67.1	67.1	67.3	67.3	67.4	67.5	67.8	68.4	68.24
	2	69.4	69.2	69.0	68.8	68.7	68.7	68.8	68.9	69.0	69.4	69.7	69.41
	3	69.2	69.1	68.8	68.6	68.5	68.5	68.5	68.6	68.7	68.7	69.0	69.54
	4	71.0	70.9	70.8	70.6	70.2	69.9	69.7	69.6	69.5	69.5	69.9	70.79
	5	69.3	69.2	69.0	68.8	68.5	68.5	68.4	68.1	68.0	68.0	68.0	69.50
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	65.4	65.2	65.0	64.9	64.8	65.1	65.1	65.2	65.4	65.6	65.9	66.81
	8	68.8	68.7	68.4	68.3	68.4	68.4	68.4	68.5	68.8	69.1	69.4	68.53
	9	70.0	69.9	69.7	69.6	69.6	69.7	69.7	69.9	70.1	70.8	71.4	70.52
	10	74.6	74.3	74.1	73.8	73.6	73.2	73.1	73.1	73.1	73.3	73.5	74.16
	11	72.3	72.1	71.9	71.8	71.6	71.7	71.7	71.8	72.0	72.4	72.6	72.95
	12	72.5	72.2	71.9	71.7	71.5	71.5	71.5	71.6	71.8	72.1	72.5	72.98
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	68.9	68.7	68.3	68.2	68.0	67.7	67.7	67.8	68.1	68.4	68.7	70.50
	15	68.3	68.1	67.8	67.6	67.5	67.5	67.5	67.8	68.2	68.2	68.7	68.78
	16	69.7	69.5	69.5	69.4	69.2	69.2	69.2	69.3	69.5	69.6	70.1	69.91
	17	70.3	70.0	69.6	69.3	69.1	68.9	68.8	69.0	69.1	69.6	69.8	70.37
	18	70.2	70.0	69.7	69.3	69.2	69.1	69.0	69.0	69.1	69.4	69.7	70.41
	19	68.8	68.7	68.4	68.3	68.3	68.0	68.0	68.1	68.4	68.8	69.4	69.28
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	70.8	70.7	70.5	70.4	70.1	70.1	70.1	70.2	70.3	70.4	70.6	71.16
	22	70.5	70.4	70.5	70.2	70.1	70.0	70.0	70.1	70.3	70.7	71.0	71.00
	23	71.4	71.1	70.9	70.8	70.9	70.8	70.9	71.0	71.1	71.4	71.6	71.64
	24	70.8	70.7	70.4	70.1	70.0	69.6	69.3	69.3	69.6	69.7	69.9	70.95
	25	70.0	70.0	69.7	69.4	69.3	69.2	69.4	69.4	69.5	70.0	70.2	70.29
	26	70.0	69.5	69.1	68.8	68.6	68.1	67.9	67.9	68.0	68.1	68.4	70.02
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	67.9	67.6	67.3	67.0	66.8	66.7	66.6	66.7	66.8	66.8	67.1	68.11
	29	67.5	67.1	67.1	66.8	66.7	66.6	66.6	66.7	66.9	67.0	67.4	67.67
	30	69.9	69.8	69.7	69.6	69.4	69.3	69.1	69.1	69.2	69.5	69.7	69.66
	31	70.2	70.0	69.7	69.5	69.3	69.0	69.0	69.0	69.0	69.3	69.4	70.40
Hourly Means	69.84	69.65	69.42	69.21	69.07	68.97	68.94	69.00	69.15	69.39	69.70	70.13	

VERTICAL FORCE.														
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
FEBRUARY.	1	27.5	25.8	28.4	32.5	35.0	37.2	35.7	33.6	32.6	33.2	31.4	32.4	31.9
	2	28.3	28.3	30.1	31.4	32.3	33.2	35.2	32.2	31.6	30.5	30.5	31.7	33.4
	3	28.2	27.3	28.1	29.5	31.0	30.8	29.6	31.2	29.3	29.3	30.1	30.6	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	28.4
	5	23.4	25.8	26.0	27.1	30.3	30.3	30.9	33.2	27.7	31.1	29.4	28.4	27.2
	6	21.3	21.3	23.1	27.1	29.3	30.5	32.4	28.6	28.9	29.3	27.9	29.6	29.6
	7	24.9	25.0	26.1	28.2	30.0	32.1	32.1	28.9	28.9	33.1	30.1	32.1	31.9
	8	27.2	25.7	26.9	29.7	32.9	37.0	34.9	34.6	33.0	32.1	32.3	31.4	33.2
	9	26.5	26.5	28.4	32.0	33.5	34.4	33.7	33.7	32.7	32.7	33.3	33.5	33.8
	10	32.9	30.4	31.0	32.5	33.5	35.2	35.6	34.3	34.7	35.2	36.3	36.3	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	34.5
	12	27.4	25.6	27.4	29.9	32.5	34.5	34.8	33.5	32.9	31.9	32.4	32.6	32.3
	13	24.0	25.1	28.0	30.4	31.7	31.9	30.8	30.8	30.8	30.2	30.1	30.4	28.6
	14	22.2	21.7	25.0	27.8	29.8	29.8	29.5	29.1	29.1	28.5	28.8	29.1	29.6
	15	24.3	24.6	27.5	28.8	30.6	32.7	32.2	31.4	31.4	31.9	32.4	31.2	30.4
	16	21.6	21.0	23.6	26.3	28.1	28.1	27.5	26.6	26.8	27.4	28.1	28.2	27.9
	17	17.6	19.1	22.7	25.5	26.5	26.7	26.1	26.1	26.5	27.0	25.4	25.6	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	28.4
	19	14.3	15.2	18.6	23.2	25.8	27.4	27.4	26.9	26.5	26.8	27.5	27.8	28.1
	20	22.1	19.3	21.2	24.2	27.0	29.6	29.7	28.3	27.9	27.7	27.3	27.6	28.1
	21	18.1	18.9	21.3	23.5	25.4	26.4	25.6	24.7	24.8	24.4	24.4	24.4	25.0
	22	15.8	16.3	17.4	20.1	23.2	25.0	25.5	26.0	26.3	27.5	24.4	23.6	23.6
	23	18.3	17.4	18.6	21.2	22.6	23.8	23.8	23.5	23.8	24.1	24.1	24.3	24.3
	24	18.0	17.3	18.6	21.1	23.5	25.3	23.9	23.2	22.9	23.1	23.5	23.5	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	24.5
	26	18.1	17.8	18.5	20.2	22.6	24.7	24.7	24.7	24.4	24.4	25.2	24.9	24.9
	27	17.7	15.7	16.5	19.6	22.9	24.9	24.4	24.4	24.0	23.6	23.9	24.2	24.2
	28	16.9	16.4	18.2	20.5	22.4	21.5	21.8	26.2	30.2	30.0	28.4	29.8	23.4
	29	22.9	20.0	19.5	20.5	21.5	21.8	22.2	24.2	21.9	21.8	21.8	20.9	21.8
Hourly Means	22.38	21.90	23.63	26.11	28.16	29.39	29.20	28.80	28.38	28.67	28.36	28.56	28.36	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
FEBRUARY.	1	69.5	70.1	70.1	70.3	70.4	70.5	70.5	70.1	69.8	69.5	69.0	68.4	68.2
	2	67.7	67.9	68.2	68.8	68.9	69.3	69.5	69.5	69.5	69.4	69.3	69.2	68.9
	3	68.3	68.8	69.3	69.7	70.3	70.5	70.8	71.0	71.0	71.0	70.9	70.8	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	71.8
	5	71.4	71.8	72.2	72.6	73.0	73.5	73.8	73.8	73.8	73.7	73.6	73.0	72.8
	6	70.8	71.0	71.0	71.3	71.3	71.2	70.9	70.8	70.6	70.3	70.3	70.2	70.0
	7	69.4	69.5	69.9	70.1	70.2	70.4	70.7	70.7	70.7	70.6	70.4	70.3	70.2
	8	68.7	68.7	68.7	68.6	68.3	68.0	68.0	67.7	67.4	67.1	66.9	66.6	66.2
	9	65.7	65.8	66.0	66.1	66.1	66.1	66.3	66.2	65.9	65.8	65.6	65.5	65.1
	10	64.2	64.4	64.5	64.9	65.2	65.2	65.1	65.1	65.0	64.8	64.7	64.4	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	64.7
	12	65.0	65.3	65.7	66.1	66.5	66.7	66.6	66.5	66.5	66.4	66.4	66.2	66.1
	13	66.7	67.1	67.6	68.0	68.3	68.6	68.8	69.0	69.0	68.9	68.8	68.8	68.5
	14	68.4	68.6	68.8	69.1	69.5	69.7	69.8	69.8	69.7	69.5	69.4	69.1	68.8
	15	67.5	67.6	67.8	68.0	68.1	68.4	68.4	68.2	68.0	67.9	67.7	67.5	67.3
	16	68.3	68.8	69.4	70.2	70.5	71.1	71.5	71.3	71.1	70.9	70.8	70.4	70.3
	17	70.2	70.5	71.0	71.6	71.9	72.2	72.2	72.0	71.8	71.7	71.4	71.1	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	71.2
	19	71.4	71.6	71.5	71.7	71.1	71.0	70.7	70.4	70.1	69.8	69.3	69.1	68.6
	20	67.5	67.8	68.1	68.3	68.5	68.6	68.5	68.4	68.3	68.3	68.1	68.0	67.8
	21	69.5	69.9	70.5	71.3	71.8	72.2	72.3	72.4	72.3	72.0	71.8	71.8	71.7
	22	71.8	72.0	72.6	72.8	73.2	73.4	73.3	73.1	73.0	72.5	72.3	72.0	71.8
	23	71.6	71.9	72.3	72.8	73.1	73.2	73.0	72.9	72.8	72.7	72.5	72.3	72.1
	24	71.9	72.2	72.6	72.9	73.2	73.2	73.5	73.3	73.1	73.0	72.8	72.8	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	73.8
	26	72.9	73.6	74.0	74.3	74.5	74.5	74.4	74.0	73.8	73.4	73.5	73.5	73.1
	27	73.2	73.7	74.1	74.5	74.7	74.8	74.8	74.7	74.4	74.2	73.9	73.8	73.7
	28	73.6	74.1	74.7	75.0	75.5	75.8	75.9	75.8	75.8	75.6	75.4	75.2	75.0
	29	74.9	75.4	75.9	76.6	77.1	77.6	77.8	77.8	77.9	77.8	77.6	77.3	77.1
Hourly Means	69.60	69.92	70.26	70.62	70.85	71.03	71.08	70.98	70.85	70.67	70.50	70.29	70.19	

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
FEBRUARY.	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	31.9	32.3	30.1	33.0	33.9	34.1	34.1	34.5	33.7	32.1	29.6	32.35
	2	32.5	33.1	34.5	34.1	32.4	32.6	33.6	36.6	34.9	32.1	29.5	32.28
	3	—	—	—	—	—	—	—	—	—	—	—	29.54
	4	28.7	28.0	27.7	29.2	29.9	30.0	33.2	34.9	33.4	26.8	23.8	29.15
	5	28.0	27.8	28.6	28.7	30.1	30.0	31.4	34.2	34.1	31.0	24.8	29.09
	6	30.4	30.1	30.3	30.3	30.7	31.9	34.9	36.1	31.7	28.1	24.9	30.61
	7	31.3	31.1	30.5	30.5	30.5	30.7	32.3	34.1	35.3	34.7	30.2	33.02
	8	33.5	33.0	34.0	34.5	35.3	35.9	37.7	38.6	36.7	32.6	29.7	33.13
	9	34.0	34.0	34.1	34.8	34.6	34.6	36.0	35.9	33.8	34.6	34.1	34.37
	10	—	—	—	—	—	—	—	—	—	—	—	32.21
	11	34.0	35.1	33.8	35.0	34.5	34.9	36.0	36.5	37.0	35.3	30.3	29.95
	12	33.0	32.8	32.8	32.8	33.3	34.3	36.6	37.5	35.2	30.6	26.5	29.25
	13	29.1	29.3	29.5	30.1	30.1	31.1	33.8	34.4	33.3	29.5	25.7	29.25
	14	29.4	29.4	29.6	29.9	30.4	32.3	34.0	35.1	34.2	31.6	26.1	30.53
	15	30.4	30.4	30.4	30.4	30.7	31.5	33.0	35.3	35.8	30.3	25.2	26.59
	16	27.9	27.2	26.9	28.2	27.8	25.1	30.9	31.9	29.1	22.4	19.6	25.40
	17	—	—	—	—	—	—	—	—	—	—	—	26.50
	18	28.4	— ^a	25.2	25.3	25.5	27.2	29.7	31.0	29.7	22.7	16.4	27.48
	19	28.4	28.8	28.3	28.3	28.3	29.5	32.5	34.5	31.7	27.3	22.9	25.17
	20	28.4	28.8	28.8	28.8	28.8	28.8	31.5	34.2	33.0	27.2	21.2	24.38
	21	25.2	25.4	25.2	25.3	25.4	27.0	29.1	32.1	31.8	26.0	24.7	23.71
	22	24.0	24.5	24.6	25.0	—	25.2	27.6	31.4	32.8	28.2	22.7	23.97
	23	24.3	24.3	24.9	24.9	24.4	24.5	25.7	29.2	29.9	26.1	22.0	24.55
	24	—	—	—	—	—	—	—	—	—	—	—	23.58
	25	24.8	25.2	25.2	25.2	25.2	25.3	27.2	30.0	30.0	26.4	21.5	24.46
	26	24.7	25.3	25.7	25.7	26.1	26.1	29.0	31.5	31.1	26.9	22.0	22.46
	27	24.4	24.6	24.8	25.0	25.3	26.6	29.0	29.6	27.3	23.7	19.6	—
	28	23.4	24.0	25.0	22.1	25.3	25.4	25.9	28.0	28.7	28.7	24.8	—
29	22.6	22.6	22.6	22.8	22.1	23.3	25.8	27.3	25.6	22.7	20.9	—	
Hourly Means	28.51	28.63	28.52	28.80	29.19	29.52	31.62	33.38	32.39	28.66	24.75	28.16	

TEMPERATURE OF THE MAGNET.

FEBRUARY.	1	67.8	67.5	67.0	66.8	66.6	66.4	66.4	66.4	66.6	66.8	67.2	68.41
	2	68.7	68.5	68.0	67.6	67.5	69.2	67.0	67.1	67.5	67.6	67.9	68.36
	3	—	—	—	—	—	—	—	—	—	—	—	71.60
	4	71.7	71.6	71.3	71.0	70.8	70.6	70.4	70.4	70.5	70.8	71.2	72.29
	5	72.6	72.3	72.0	71.8	71.6	71.4	71.2	71.2	70.6	70.6	70.7	70.16
	6	69.9	69.8	69.8	69.7	69.6	69.1	69.1	69.2	69.1	69.4	69.4	69.74
	7	70.0	70.0	69.5	69.2	69.1	69.0	68.9	68.8	68.8	68.7	68.7	66.52
	8	65.9	65.5	65.3	65.1	64.8	64.5	64.5	64.5	64.9	65.0	65.5	65.05
	9	64.8	64.7	64.4	64.2	63.8	63.8	63.8	63.8	63.8	63.9	64.1	64.52
	10	—	—	—	—	—	—	—	—	—	—	—	65.93
	11	64.5	64.5	64.4	64.2	64.0	63.9	63.9	63.9	64.0	64.4	64.6	68.17
	12	65.9	65.8	65.8	65.7	65.6	65.4	65.3	65.4	65.5	65.8	66.1	68.40
	13	68.4	68.3	68.1	67.9	67.8	67.8	67.7	67.7	67.8	68.1	68.3	67.41
	14	68.6	68.2	67.8	67.6	67.3	67.0	66.8	66.8	66.9	67.2	67.3	69.92
	15	67.0	66.8	66.6	66.6	66.5	66.6	66.7	66.7	66.9	67.3	67.7	71.19
	16	70.1	69.9	69.7	69.5	69.2	69.0	69.0	69.0	69.1	69.4	69.6	69.00
	17	—	—	—	—	—	—	—	—	—	—	—	68.00
	18	71.2	71.1 ^b	71.2	71.0	70.8	70.8	70.8	70.6	70.1	70.9	71.1	71.25
	19	68.3	68.0	67.6	67.3	67.0	66.9	66.8	66.8	66.9	67.0	67.1	71.92
	20	67.8	67.6	67.6	67.5	67.5	67.5	67.5	67.7	67.9	68.5	68.8	72.01
	21	71.5	71.2	71.1	70.8	70.8	70.6	70.5	70.6	70.9	71.0	71.5	72.78
	22	71.7	71.6	71.3	71.0	—	70.8	70.7	70.7	70.7	70.8	71.1	73.11
	23	72.0	71.9	71.7	71.5	71.2	71.0	70.9	71.0	71.0	71.2	71.7	73.48
	24	—	—	—	—	—	—	—	—	—	—	—	74.60
	25	73.5	73.3	73.0	72.7	72.4	72.2	72.0	72.1	72.2	72.4	72.7	76.30
	26	72.9	72.8	72.6	72.3	72.0	71.8	71.8	71.8	72.0	72.4	72.7	—
	27	73.6	73.3	72.9	72.7	72.4	72.1	72.0	72.0	72.3	72.6	73.0	—
	28	74.7	74.4	74.4	74.1	73.8	73.5	73.2	73.2	73.4	73.8	74.4	—
	29	76.8	76.4	76.1	75.8	75.7	75.2	75.0	74.9	74.8	74.8	74.8	—
Hourly Means	70.00	69.75	69.57	69.34	69.08	68.96	68.88	68.89	68.97	69.22	69.49	70.00	

^a Vibrating.

^b Omitted in the means.

VERTICAL FORCE.														
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
MARCH.	1	20.0	19.6	20.1	20.6	21.5	23.7	25.5	25.5	25.2	25.0	26.6	25.7	24.9
	2	21.3	24.1	26.1	27.2	25.9	26.7	27.8	27.8	28.5	28.5	30.6	29.2	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	25.0
	4	18.4	20.3	22.3	25.8	26.1	23.6	23.7	26.5	23.9	23.9	24.5	23.0	25.1
	5	24.8	24.2	23.4	25.1	24.6	24.8	26.2	27.2	25.7	25.4	29.4	27.7	24.5
	6	23.7	21.9	21.7	28.1	27.4	27.5	24.4	24.4	23.7	23.7	23.7	25.0	26.6
	7	21.8	20.8	21.7	25.4	29.2	28.4	26.8	26.4	26.4	22.9	22.3	18.0	24.6
	8	18.1	18.2	19.1	20.3	23.3	23.6	24.1	25.7	22.0	23.0	20.6	22.7	23.7
	9	18.0	17.5	18.8	20.2	22.5	24.0	24.0	21.6	22.1	21.5	21.7	22.5	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	23.2
	11	18.4	20.1	21.3	23.5	24.4	24.6	24.6	24.3	24.3	24.3	24.9	25.6	25.2
	12	17.1	18.8	19.7	20.7	22.4	24.2	24.5	23.5	22.7	22.7	22.9	21.4	22.0
	13	18.5	19.3	20.9	21.9	22.6	23.8	23.3	22.9	22.1	21.7	23.1	22.5	22.7
	14	16.9	17.9	19.3	20.6	21.4	21.6	21.6	21.6	21.6	20.6	20.7	22.7	22.7
	15	18.2	18.6	19.0	20.3	21.2	21.9	22.3	22.6	22.3	22.5	22.8	23.0	23.3
	16	18.2	19.3	20.5	23.1	24.2	24.3	23.7	23.7	23.7	23.7	24.1	24.1	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	23.8
	18	11.4	13.7	16.2	19.4	20.7	21.3	21.3	21.9	22.5	24.8	22.3	23.3	21.6
	19	17.6	17.3	17.3	18.4	18.4	21.3	21.4	21.4	23.2	21.5	22.8	22.6	22.6
	20	18.5	19.4	20.8	22.0	22.0	22.0	22.4	22.5	22.5	23.5	23.9	22.4	22.4
	21	18.8	19.0	20.6	22.1	22.9	23.1	22.8	22.8	22.4	22.5	23.3	22.9	22.6
	22	16.5	15.3	17.5	20.8	22.8	24.0	23.5	23.5	23.5	24.3	24.6	23.5	23.5
	23	18.7	18.3	19.4	21.3	23.2	24.6	23.9	23.2	23.2	23.2	23.2	23.4	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	22.8
	25	15.9	16.5	19.2	21.6	24.5	26.1	25.5	25.5	25.6	25.6	24.8	24.8	24.8
	26	17.6	17.9	20.1	22.7	24.9	24.9	24.3	24.1	23.6	23.3	22.9	22.4	23.5
	27	18.4	18.4	19.3	21.2	23.3	24.0	25.0	26.8	24.8	24.8	24.8	23.4	23.7
	28	17.5	16.9	18.0	21.6	22.4	21.0	21.1	23.3	23.6	21.1	20.2	20.6	20.9
	29	16.1	16.9	18.7	19.4	21.3	21.3	20.6	20.2	19.4	21.2	26.3	28.2	27.8
	30	22.1	21.6	23.6	23.4	19.5	19.2	27.9	20.4	20.3	18.2	22.3	18.3	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	21.5
Hourly Means	18.56	18.92	20.18	22.18	23.18	23.67	23.93	23.82	23.42	23.21	23.82	23.42	23.65	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
MARCH.	1	75.0	75.0	75.0	74.8	74.4	73.8	73.2	72.7	72.0	71.6	70.8	70.3	70.2
	2	67.3	67.8	68.3	68.4	69.1	69.2	68.9	68.9	68.8	68.8	68.6	68.3	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	70.1
	4	69.7	69.8	70.2	70.3	70.5	70.5	70.7	70.7	70.6	70.5	70.3	70.1	69.8
	5	69.1	69.1	69.4	69.5	69.6	69.6	69.5	69.4	69.3	69.3	69.1	69.0	68.8
	6	70.1	70.3	70.5	70.6	71.0	70.6	70.4	70.1	69.9	69.6	69.4	69.1	68.8
	7	68.6	69.0	69.4	69.9	70.3	70.5	70.7	70.8	70.8	70.8	70.8	70.5	70.5
	8	71.2	71.5	71.9	72.5	72.8	73.6	73.7	73.8	73.8	73.5	73.3	73.2	72.8
	9	71.9	72.2	72.4	72.5	72.6	72.8	72.8	72.8	72.8	72.7	72.7	72.6	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	69.8
	11	69.3	69.6	70.1	70.2	70.4	70.4	70.5	70.3	70.1	70.1	69.9	69.9	70.0
	12	70.5	70.9	71.4	71.8	72.4	72.7	73.0	72.7	72.6	72.6	72.6	72.4	72.2
	13	70.4	70.5	70.8	71.1	71.7	72.0	72.2	72.1	72.0	71.8	71.8	71.5	71.5
	14	71.7	72.0	72.5	73.0	73.3	73.3	73.1	73.1	72.8	72.7	72.6	72.3	72.1
	15	72.0	72.3	72.5	72.7	72.7	72.6	72.4	72.1	71.5	71.3	70.8	70.7	70.5
	16	69.9	70.0	70.3	70.5	71.0	71.0	70.8	70.6	70.3	70.0	69.7	69.6	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	69.8
	18	71.4	72.0	72.4	72.8	72.8	72.9	72.8	72.8	72.8	72.6	72.5	72.3	72.2
	19	71.5	71.7	71.8	72.1	72.5	72.2	72.3	72.0	71.8	71.6	71.2	71.0	70.5
	20	69.5	69.6	69.7	69.8	70.0	70.1	70.2	70.2	70.1	70.0	69.8	69.6	69.3
	21	68.8	69.2	69.5	70.1	70.4	70.4	70.1	70.1	70.1	70.0	70.0	70.0	69.9
	22	68.8	69.0	69.3	69.4	69.5	69.5	69.7	69.6	69.5	69.4	69.1	69.0	68.8
	23	68.2	68.3	68.8	69.0	69.3	69.5	69.4	69.5	69.3	69.3	69.2	69.0	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	69.7
	25	67.5	67.6	67.7	67.8	67.9	67.9	67.8	67.8	67.6	67.5	67.3	67.2	67.1
	26	66.6	66.8	67.1	67.5	67.8	68.0	68.1	68.1	68.1	67.9	67.8	67.7	67.6
	27	67.6	67.8	68.2	68.5	68.5	68.8	68.6	68.6	68.6	68.3	68.5	68.3	68.1
	28	68.0	68.6	69.2	69.4	70.1	70.3	70.5	70.5	70.4	70.3	70.0	69.9	69.9
	29	69.4	69.6	70.1	70.6	70.9	71.3	71.3	71.5	71.4	71.6	71.7	71.6	71.6
	30	71.2	71.2	71.2	71.2	71.5	71.5	71.4	71.3	71.0	70.8	70.5	70.4	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	69.1
Hourly Means	69.82	70.05	70.37	70.62	70.88	70.96	70.93	70.85	70.69	70.56	70.38	70.21	70.03	

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MARCH.	1	26.2	25.9	27.0	27.3	28.5	28.9	30.3	29.5	28.2	24.1	21.8	25.07
	2	—	—	—	—	—	—	—	—	—	—	—	26.16
	3	22.5	26.6	26.9	26.1	25.0	26.8	29.2	29.7	26.9	20.7	18.7	
	4	25.1	24.8	24.5	25.0	25.3	23.3	24.7	32.0	29.6	25.3	23.7	24.60
	5	23.3	25.3	25.0	24.5	23.0	25.4	28.5	27.3	24.9	22.2	23.2	25.23
	6	25.2	26.4	26.6	26.6	25.4	27.4	27.5	31.4	29.3	26.2	24.0	25.74
	7	24.2	24.2	22.5	23.6	24.0	24.7	25.5	25.9	27.9	24.2	20.2	24.23
	8	23.7	21.0	22.2	23.5	23.5	24.3	25.7	27.4	24.8	20.7	18.8	22.50
	9	—	—	—	—	—	—	—	—	—	—	—	22.93
	10	23.9	24.4	25.2	25.5	25.9	26.5	28.0	29.2	26.7	20.5	17.0	
	11	24.9	24.2	23.9	24.4	24.4	24.9	27.4	29.6	27.0	21.4	17.8	23.98
	12	23.7	23.0	23.7	23.3	22.9	24.7	26.5	28.2	25.9	21.8	20.0	22.76
	13	22.7	23.9	23.4	23.4	23.6	24.0	26.1	27.7	26.0	20.5	17.9	22.69
	14	22.7	22.4	22.2	22.2	21.9	23.4	25.8	27.2	25.4	22.9	20.6	21.91
	15	23.0	23.0	23.5	23.3	23.5	24.0	26.3	27.9	24.5	19.7	18.5	22.30
	16	—	—	—	—	—	—	—	—	—	—	—	22.41
	17	23.3	23.3	23.2	23.2	22.1	23.4	24.2	25.8	23.4	16.9	12.6	
	18	21.3	21.2	21.6	21.3	22.1	22.9	25.6	25.6	23.9	20.8	18.6	21.05
	19	23.4	22.9	22.4	23.1	23.1	24.1	26.3	28.5	26.6	22.3	25.1	22.23
	20	22.4	22.9	23.3	23.4	23.8	23.8	26.6	29.5	28.8	24.5	21.2	23.10
	21	22.9	23.0	23.1	22.7	22.4	23.8	25.9	27.9	25.2	21.4	17.5	22.57
	22	23.5	23.8	23.8	23.8	23.5	25.0	26.3	27.0	23.1	24.1	21.1	22.85
	23	—	—	—	—	—	—	—	—	—	—	—	22.75
	24	23.2	22.9	23.7	23.7	23.7	24.3	25.8	26.7	25.4	21.2	16.9	
	25	24.9	24.6	24.8	24.8	24.2	24.3	25.6	26.9	24.8	20.5	18.4	23.51
	26	24.4	24.0	23.3	23.3	23.2	24.7	25.4	27.5	26.0	23.0	20.6	23.23
	27	22.2	22.6	23.5	23.4	23.5	23.5	24.5	27.1	25.4	23.2	19.2	23.17
	28	20.9	20.8	20.8	20.8	20.8	22.1	23.1	23.8	24.2	22.3	18.7	21.10
	29	24.8	16.5	18.5	18.1	16.1	18.1	20.0	22.2	21.8	21.6	21.5	20.69
	30	—	—	—	—	—	—	—	—	—	—	—	21.71
	31	20.8	21.7	21.5	21.5	21.5	22.6	24.2	25.6	22.9	21.3	19.2	
Hourly Means	23.43	23.28	23.47	23.53	23.34	24.27	25.96	27.58	25.72	22.05	19.72	23.10	

TEMPERATURE OF THE MAGNET.

MARCH.	1	69.8	69.3	68.6	68.0	67.6	67.2	66.8	66.7	66.7	66.8	67.0	70.55
	2	—	—	—	—	—	—	—	—	—	—	—	69.05
	3	70.0	69.9	69.8	69.7	69.5	69.2	69.2	69.1	69.2	69.5	69.6	
	4	69.7	69.6	69.3	69.2	69.0	68.9	68.8	68.7	68.8	68.8	69.1	69.73
	5	68.8	68.8	68.7	68.7	68.7	68.7	68.7	68.8	69.0	69.3	69.6	69.10
	6	68.5	68.2	67.9	67.7	67.6	67.3	67.2	67.3	67.5	67.7	68.0	68.97
	7	70.5	70.4	70.0	69.8	69.7	69.5	69.3	69.4	69.8	70.2	70.5	70.07
	8	72.8	72.6	72.4	72.3	72.1	72.0	71.8	71.8	71.7	71.7	71.8	72.53
	9	—	—	—	—	—	—	—	—	—	—	—	70.82
	10	69.7	69.6	69.2	69.1	69.0	68.7	68.6	68.6	68.7	68.8	69.0	
	11	69.8	69.7	69.5	69.5	69.3	69.3	69.1	69.1	69.5	69.7	69.9	69.80
	12	72.1	71.8	71.6	71.3	70.9	70.5	70.4	70.3	70.3	70.3	70.4	71.57
	13	71.4	71.3	71.0	70.9	70.8	70.8	70.8	70.8	70.9	71.0	71.3	71.27
	14	72.0	71.8	71.8	71.7	71.6	71.3	71.3	71.1	71.5	71.6	71.7	72.16
	15	70.2	69.9	69.8	69.4	69.3	69.0	69.0	69.1	69.2	69.5	69.7	70.76
	16	—	—	—	—	—	—	—	—	—	—	—	70.18
	17	69.8	69.8	69.8	69.8	69.8	69.8	70.0	70.1	70.3	70.5	71.1	
	18	72.0	71.7	71.6	71.4	71.1	70.8	70.5	70.5	70.5	70.8	71.0	71.84
	19	70.3	70.2	69.8	69.6	69.5	69.5	69.4	69.1	69.1	69.2	69.3	70.72
	20	69.1	69.0	68.8	68.7	68.6	68.4	68.1	68.0	68.0	68.4	68.6	69.23
	21	69.8	69.7	69.4	69.2	68.8	68.8	68.6	68.6	68.5	68.6	68.7	69.47
	22	68.6	68.6	68.2	68.1	67.9	67.8	67.5	67.4	67.5	67.5	68.0	68.65
	23	—	—	—	—	—	—	—	—	—	—	—	68.68
	24	69.5	69.1	68.8	68.6	68.3	68.0	67.5	67.4	67.3	67.4	67.5	
	25	66.8	66.6	66.6	66.3	66.0	65.8	65.7	65.7	65.7	65.9	66.3	66.92
	26	67.5	67.4	67.2	67.0	66.8	66.7	66.7	66.7	66.8	67.0	67.4	67.35
	27	67.9	67.8	67.4	67.4	67.2	66.8	66.9	66.9	67.0	67.2	67.7	67.86
	28	69.8	69.7	69.4	69.2	69.1	69.1	68.9	68.8	69.0	69.2	69.3	69.53
	29	71.7	71.4	71.2	71.1	70.9	71.0	70.7	70.6	70.8	70.7	71.1	70.99
	30	—	—	—	—	—	—	—	—	—	—	—	69.89
	31	68.8	68.8	68.8	68.7	68.6	68.6	68.6	68.5	68.5	68.5	68.6	
Hourly Means	69.88	69.72	69.48	69.32	69.14	68.98	68.85	68.81	68.92	69.07	69.32	69.91	

VERTICAL FORCE.														
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^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.	
APRIL.	1	21.9	22.8	23.3	25.0	24.6	24.6	25.4	24.8	23.8	25.6	23.5	25.0	23.7
	2	20.5	21.2	22.7	23.7	25.8	25.8	28.0	23.6	27.3	23.7	24.8	24.1	24.3
	3	23.1	22.0	23.5	24.5	27.4	29.1	28.5	25.6	24.0	24.5	24.2	24.6	25.2
	4	21.8	21.8	23.0	24.1	25.7	25.2	24.5	25.6	24.4	25.1	25.1	25.2	23.3
	5	22.5	20.8	21.2	22.2	23.7	26.6	27.0	26.3	25.9	25.1	25.5	25.8	27.5
	6	24.1	23.2	24.0	25.6	27.3	27.4	27.3	26.3	26.0	26.4	23.9	24.6	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	25.9
	8	19.2	19.8	22.0	23.0	23.4	23.4	23.4	23.8	24.6	24.1	24.2	24.3	23.8
	9	17.1	18.4	20.9	21.9	22.4	22.7	22.2	21.0	20.8	20.8	21.4	22.4	21.9
	10	17.0	18.5	19.9	21.0	19.7	20.3	19.5	19.7	19.7	19.7	19.4	19.1	19.5
	11	13.9	15.4	17.5	18.8	18.8	18.8	18.8	18.8	18.8	18.5	18.6	18.2	18.4
	12	11.6	14.5	17.7	18.4	18.1	18.2	18.2	18.2	18.2	17.9	18.2	18.2	17.9
	13	13.0	13.8	16.3	17.9	18.5	19.2	19.0	19.2	18.9	19.1	19.1	19.1	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	18.9
	15	12.5	15.6	18.5	20.1	20.8	20.1	19.9	20.4	20.7	21.0	21.0	20.5	20.0
	16	14.7	15.7	18.0	19.8	21.2	22.3	22.3	21.1	20.6	20.6	20.6	20.4	20.7
	17	28.3	30.4	31.3	31.1	31.5	30.4	28.0	28.7	27.3	21.1	22.3	17.6	18.7
	18	17.9	19.0	20.6	21.1	20.7	21.8	22.0	22.0	22.3	22.7	24.5	25.3	23.6
	19	20.7	20.5	20.9	21.1	20.9	21.2	22.0	22.0	22.0	22.0	22.0	22.2	21.7
	20	16.8	18.9	21.5	23.0	23.1	22.3	22.9	23.1	23.1	23.1	22.9	23.3	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	23.9
	22	17.7	20.4	21.3	22.9	24.0	23.8	23.8	24.1	23.7	23.4	22.8	22.8	23.3
	23	18.9	20.6	21.7	23.8	23.7	23.8	23.0	22.4	22.0	21.7	21.7	21.9	22.1
	24	11.5	14.9	17.8	19.6	20.6	21.4	21.4	21.8	21.2	21.2	20.8	20.8	20.6
	25	13.2	15.4	21.2	25.1	24.7	23.0	25.5	30.0	23.1	21.5	19.9	21.2	22.9
	26	19.1	22.7	21.7	21.7	26.1	26.6	25.1	22.1	21.4	20.9	20.2	19.9	19.9
	27	16.8	16.1	17.0	19.0	19.4	20.5	21.2	20.1	19.6	20.2	20.7	18.2	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	20.7
	29	19.7	20.6	21.5	22.9	24.3	24.4	23.5	24.9	22.4	22.1	21.8	22.0	21.6
	30	19.2	21.2	20.6	21.4	22.7	23.0	23.8	25.1	25.1	24.6	23.7	22.1	20.9
Hourly Means	18.18	19.39	20.98	22.26	23.04	23.30	23.32	23.10	22.57	22.18	22.03	21.88	21.96	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
APRIL.	1	68.7	68.8	69.0	69.0	69.1	69.2	69.2	69.2	69.1	68.8	68.6	68.6	68.3
	2	67.4	67.5	67.6	67.6	67.8	67.8	67.7	67.5	67.3	67.1	66.8	66.7	66.6
	3	65.5	65.6	65.7	66.1	66.2	66.2	66.1	65.8	65.7	65.6	65.3	65.1	65.0
	4	65.1	65.3	65.6	65.8	66.1	66.3	66.2	66.1	66.1	66.0	66.0	65.8	65.7
	5	64.6	64.6	64.6	64.6	64.6	64.5	64.5	64.4	64.1	63.8	63.5	63.2	62.9
	6	61.8	62.1	62.3	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.7	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	64.0
	8	64.4	64.6	64.9	65.1	65.6	65.6	65.8	65.7	65.5	65.5	65.7	65.7	65.6
	9	65.8	66.2	66.5	66.9	67.3	67.6	67.5	67.5	67.5	67.5	67.3	67.1	66.9
	10	66.8	67.3	67.7	68.3	68.5	68.8	68.8	68.9	68.9	68.9	69.0	69.2	69.3
	11	69.3	69.5	70.0	70.4	70.6	70.8	70.8	70.8	70.8	70.7	70.4	70.3	70.2
	12	69.8	69.9	70.1	70.3	70.3	70.3	70.1	70.0	69.9	69.8	69.7	69.6	69.5
	13	68.6	68.7	68.7	68.8	68.7	68.7	68.8	68.6	68.5	68.2	67.9	67.8	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	67.8
	15	67.3	67.5	67.7	67.8	67.9	68.0	67.9	67.8	67.6	67.5	67.3	67.3	67.1
	16	66.6	66.6	66.6	66.7	66.7	66.6	66.6	66.5	66.4	66.2	66.2	66.2	66.1
	17	66.2	66.4	66.5	67.0	67.2	67.3	67.3	67.2	67.0	66.8	66.5	66.3	65.9
	18	64.7	64.8	65.0	65.3	65.7	65.8	66.0	66.0	65.8	65.6	65.5	65.2	65.1
	19	65.1	65.2	65.5	65.6	65.5	65.6	65.6	65.6	65.6	65.5	65.6	65.5	65.4
	20	64.2	64.2	64.0	63.9	64.0	63.8	63.8	63.7	63.5	63.1	62.8	62.6	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	61.0
	22	61.0	61.4	61.7	61.8	62.1	62.4	62.2	62.2	62.0	61.9	61.8	61.7	61.5
	23	61.3	61.7	62.2	62.5	62.9	63.1	63.2	63.3	63.3	63.4	63.3	63.3	63.3
	24	63.4	63.7	64.1	64.3	64.5	64.5	64.6	64.6	64.5	64.5	64.5	64.4	64.4
	25	64.0	64.1	64.1	64.4	64.5	64.5	64.2	64.1	64.4	64.4	64.4	64.5	63.9
	26	63.5	63.8	64.0	64.5	64.7	64.8	65.0	65.1	65.1	65.2	65.0	64.9	64.9
	27	65.0	65.2	65.2	65.5	65.7	65.8	66.1	66.1	66.0	66.0	66.0	65.8	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	64.8
	29	64.2	64.5	64.6	64.6	64.6	64.6	64.5	64.4	64.4	64.4	64.3	64.3	64.2
	30	63.6	63.7	63.8	64.0	64.1	64.1	63.8	63.8	63.8	63.8	63.8	63.6	63.4
Hourly Means	65.30	65.50	65.68	65.90	66.07	66.13	66.12	66.07	65.98	65.88	65.77	65.65	65.49	

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
APRIL.	1	22.5	22.9	20.5	22.9	23.5	23.0	25.9	28.2	27.5	26.9	22.6	24.18
	2	24.3	24.3	24.0	22.8	23.9	26.7	28.9	30.6	30.7	29.1	27.4	25.34
	3	24.9	24.6	23.4	22.2	23.8	25.7	27.2	27.8	26.8	24.8	23.2	25.03
	4	23.9	23.3	23.1	23.7	23.7	24.7	26.2	27.2	26.8	24.4	22.5	24.35
	5	20.0	26.3	25.4	25.6	26.2	28.7	28.8	29.5	29.8	28.3	26.6	25.64
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	24.9	24.9	24.1	24.4	24.5	24.7	25.5	26.6	26.7	25.8	22.4	25.27
	8	23.7	21.9	23.2	23.1	23.1	22.9	23.7	24.2	23.6	22.6	19.5	22.94
	9	21.9	21.9	21.9	21.3	21.2	21.2	23.1	24.6	24.1	22.3	19.6	21.54
	10	19.9	19.1	19.5	18.9	19.2	19.2	19.7	21.0	21.3	19.7	16.5	19.46
	11	18.4	17.9	17.9	18.4	19.4	17.5	18.7	20.2	20.2	17.2	13.9	18.04
	12	17.9	17.9	17.9	17.7	17.4	18.0	19.4	20.4	19.8	17.4	14.4	17.64
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	18.7	18.4	18.9	19.8	18.1	18.5	20.9	22.1	22.1	19.1	14.3	18.45
	15	20.0	20.0	19.5	19.5	19.5	20.4	21.3	21.9	20.6	18.7	16.2	19.53
	16	20.8	19.3	19.7	20.1	19.5	13.8	19.5	26.3	27.8	27.1	27.4	20.80
	17	9.8	16.4	19.8	19.6	19.2	20.2	20.2	22.8	23.6	17.3	16.6	23.00
	18	23.6	22.9	22.4	22.4	22.4	23.0	23.8	26.4	26.6	23.7	20.7	22.56
	19	21.7	21.7	21.9	21.9	21.6	22.2	23.7	25.5	24.8	20.9	17.2	21.76
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	24.0	24.6	24.1	24.1	24.3	23.7	25.1	27.5	28.5	26.8	20.4	23.37
	22	23.3	23.3	23.3	23.6	23.4	23.4	23.6	25.7	25.7	23.8	19.6	23.03
	23	22.1	22.7	22.3	22.3	21.9	21.4	23.2	24.7	24.6	21.1	16.9	22.10
	24	20.6	20.6	21.2	21.3	20.8	21.0	20.7	22.2	20.9	17.4	14.9	19.80
	25	18.9	20.5	20.5	20.3	20.3	20.1	20.1	20.6	22.6	20.8	16.8	21.18
	26	18.3	19.5	19.7	19.0	19.0	20.5	21.2	22.3	22.3	21.1	20.0	21.26
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	20.6	21.1	21.3	20.6	20.6	20.0	20.9	23.3	23.7	23.7	21.7	20.29
	29	22.2	21.8	21.5	21.1	21.1	21.5	22.4	24.2	24.3	23.0	20.2	22.29
	30	22.7	21.5	20.3	22.3	23.6	23.3	24.5	25.1	26.0	24.8	23.3	22.95
Hourly Means	21.14	21.51	21.43	21.50	21.58	21.74	23.01	24.66	24.67	22.61	19.80	21.99	

TEMPERATURE OF THE MAGNET.

APRIL.	1	68.1	67.9	67.8	67.7	67.5	67.4	67.2	67.0	67.0	67.0	67.1	68.22
	2	66.2	65.9	65.5	65.3	65.1	65.0	64.9	64.9	64.9	65.1	65.3	66.40
	3	64.8	64.8	64.7	64.7	64.7	64.6	64.5	64.5	64.5	64.6	64.9	65.22
	4	65.6	65.5	65.3	65.2	65.0	64.8	64.6	64.6	64.6	64.6	64.5	65.43
	5	62.5	62.3	62.2	62.0	61.8	61.7	61.4	61.1	61.1	61.3	61.6	63.04
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	64.0	63.9	63.8	63.8	63.7	63.5	63.5	63.5	63.6	63.8	64.0	63.18
	8	65.5	65.4	65.3	65.2	65.1	65.0	65.0	65.0	65.1	65.4	65.5	65.30
	9	66.8	66.7	66.6	66.3	66.1	65.8	65.7	65.6	65.7	66.1	66.4	66.64
	10	69.3	69.3	69.3	69.1	68.9	68.8	68.6	68.4	68.6	68.6	69.1	68.68
	11	70.1	69.8	69.6	69.4	69.3	69.4	69.3	69.4	69.5	69.5	69.7	69.98
	12	69.5	69.4	69.3	69.1	69.0	68.9	68.8	68.5	68.5	68.6	68.5	69.48
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	67.7	67.6	67.3	67.2	67.1	66.8	66.8	66.8	66.8	66.8	67.0	67.82
	15	66.9	66.8	66.8	66.8	66.8	66.8	66.7	66.7	66.6	66.6	66.5	67.20
	16	65.9	65.8	65.8	65.7	65.7	65.3	65.5	65.6	65.6	65.7	65.9	66.10
	17	65.5	65.2	65.0	64.9	64.8	64.6	64.2	64.1	64.1	64.2	64.5	65.78
	18	65.0	64.9	64.8	64.8	64.6	64.7	64.7	64.7	64.7	64.8	64.9	65.13
	19	65.3	65.1	65.1	65.0	64.9	64.8	64.7	64.5	64.2	64.2	64.3	65.14
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	60.9	60.8	60.7	60.7	60.6	60.5	60.3	60.3	60.3	60.5	60.7	62.12
	22	61.2	61.1	60.8	60.6	60.4	59.8	59.8	59.9	59.9	60.5	60.9	61.19
	23	63.2	63.0	62.8	62.7	62.5	62.5	62.5	62.5	62.5	62.7	62.9	62.78
	24	64.4	64.3	64.2	63.9	63.8	63.7	63.6	63.5	63.6	63.8	63.9	64.11
	25	63.9	63.8	63.6	63.5	63.4	63.1	63.1	63.1	63.1	63.1	63.3	63.84
	26	64.9	64.9	65.0	64.8	64.7	64.5	64.5	64.5	64.5	64.5	64.7	64.67
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	64.8	64.7	64.7	64.7	64.7	64.4	64.4	64.4	64.4	64.3	64.3	65.13
	29	64.2	64.0	63.8	63.8	63.7	63.7	63.6	63.5	63.5	63.5	63.5	64.10
	30	63.2	62.9	62.6	62.2	62.0	61.7	61.4	61.0	61.0	61.1	61.4	62.91
Hourly Means	65.36	65.22	65.09	64.97	64.84	64.68	64.59	64.52	64.53	64.65	64.82	65.37	

VERTICAL FORCE.														
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
MAY.	1	22.7	21.7	21.3	22.9	24.8	24.9	25.1	25.9	24.2	24.8	25.9	26.1	24.7
	2	22.5	22.5	22.5	22.9	23.5	24.2	24.2	22.9	22.9	23.9	24.3	22.0	23.0
	3	20.4	20.7	22.0	24.2	28.3	27.4	25.9	25.2	23.9	22.7	22.7	22.9	23.3
	4	19.4	20.9	22.8	23.6	23.7	22.7	23.0	23.0	23.3	22.9	22.6	23.2	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	22.5
	6	18.9	19.2	20.4	21.6	24.1	22.9	24.0	23.7	21.4	21.9	22.8	22.8	23.4
	7	19.9	20.6	22.0	24.0	25.1	24.8	24.4	24.4	24.0	24.0	23.2	23.5	24.1
	8	23.4	24.7	24.7	24.5	25.5	26.7	29.4	26.2	27.2	27.6	27.6	24.6	24.6
	9	22.2	22.2	23.9	27.1	26.7	26.6	25.6	23.7	22.4	22.4	22.4	22.7	23.6
	10	19.4	20.8	21.7	23.0	24.3	26.0	23.1	21.7	21.9	21.9	21.5	21.7	22.1
	11	20.2	20.7	22.1	23.1	23.7	23.1	23.2	23.0	23.0	22.3	22.0	22.0	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	21.5
	13	16.9	18.1	19.5	20.5	20.9	21.0	21.3	21.3	21.3	21.3	21.4	21.2	20.7
	14	19.9	17.8	19.4	19.7	21.3	21.0	20.7	20.7	21.1	20.8	20.4	20.9	19.3
	15	17.8	18.2	17.7	20.2	20.8	20.0	20.8	19.5	19.2	18.6	18.6	18.3	17.8
	16	17.8	18.0	18.4	18.4	19.5	19.0	17.7	18.1	18.1	18.1	18.0	17.9	17.9
	17	17.0	17.4	17.7	18.2	18.7	18.4	18.5	18.6	18.9	18.7	18.4	18.4	18.8
	18	15.8	15.8	16.2	17.6	18.2	18.4	18.4	18.2	18.5	17.9	17.7	17.7	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	17.9
	20	17.7	17.7	17.5	18.1	18.1	18.1	18.4	18.5	18.3	18.3	17.9	18.3	18.3
	21	17.8	18.9	20.1	20.7	21.3	20.9	20.7	21.2	21.2	21.3	20.6	20.9	21.8
	22	15.8	18.5	21.0	19.9	20.4	19.7	19.4	20.6	20.5	21.4	21.7	19.6	19.5
	23	19.0	17.3	17.3	18.6	20.8	19.7	20.1	17.8	16.1	18.7	19.0	19.2	18.6
	24	18.1	18.1	19.1	18.8	19.8	20.2	18.3	20.6	20.6	19.8	16.3	18.3	18.8
	25	16.8	17.4	18.5	19.7	20.3	20.4	19.7	19.4	19.6	20.0	17.7	17.7	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	19.1
	27	18.7	19.0	20.4	19.9	19.4	19.6	20.0	20.5	21.0	19.8	20.3	19.6	19.0
	28	20.4	19.8	18.3	18.3	19.5	19.7	19.7	20.2	20.7	19.7	18.9	19.3	19.8
	29	21.8	21.2	20.2	20.2	20.8	20.8	21.0	21.4	21.4	21.8	21.1	21.3	20.6
	30	18.9	17.0	17.0	18.5	18.7	19.0	19.1	19.6	19.6	19.6	19.4	19.4	19.1
	31	18.3	18.3	18.7	19.2	19.6	19.8	20.4	20.3	21.5	22.1	21.5	21.1	20.2
Hourly Means	19.17	19.35	20.01	20.87	21.77	21.67	21.56	21.34	21.18	21.20	20.89	20.76	20.74	
TEMPERATURE OF THE 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 .	12 ^h .	
MAY.	1	61.5	61.7	61.7	61.8	61.9	61.9	62.1	62.0	61.9	61.7	61.7	61.6	61.5
	2	61.3	61.5	61.6	61.9	62.0	62.0	62.1	62.1	62.0	61.9	61.8	61.7	61.6
	3	61.8	61.9	62.1	62.5	62.7	62.7	62.8	62.8	62.8	62.8	62.6	62.6	62.4
	4	61.4	61.5	61.9	62.2	62.6	62.6	62.8	62.8	62.7	62.6	62.4	62.2	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	62.0
	6	62.5	62.5	62.5	62.5	62.4	62.4	62.1	62.0	61.9	61.8	61.6	61.5	61.3
	7	60.1	60.2	60.3	60.3	60.3	60.3	60.0	59.9	59.8	59.6	59.5	59.3	59.1
	8	58.1	58.2	58.5	58.7	58.8	58.9	59.1	59.2	59.1	58.9	58.8	58.7	58.6
	9	58.6	58.8	59.2	59.4	59.8	60.1	60.1	60.1	60.2	60.3	60.4	60.2	60.1
	10	59.4	59.8	60.0	60.3	60.7	60.8	60.9	60.9	60.8	60.8	60.5	60.3	60.1
	11	58.6	58.8	59.1	59.7	59.9	60.0	60.4	60.4	60.4	60.5	60.5	60.5	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	62.4
	13	62.2	62.3	62.3	62.4	62.6	62.6	62.2	62.2	62.1	62.1	62.1	62.0	61.8
	14	61.8	61.9	62.4	62.6	62.8	62.9	62.8	62.8	62.8	62.7	62.6	62.4	62.2
	15	62.3	62.9	63.2	63.7	64.0	64.1	64.6	64.8	64.8	64.8	64.8	64.8	64.8
	16	64.3	64.3	64.5	64.5	64.6	64.6	64.5	64.5	64.4	64.2	64.3	64.1	63.9
	17	63.3	63.5	63.7	63.8	64.0	64.1	64.3	64.2	64.2	64.1	63.9	63.7	63.6
	18	63.5	63.6	63.7	63.7	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	63.8
	20	63.1	63.5	63.7	64.0	64.2	64.3	64.3	64.1	63.9	63.5	63.1	62.8	62.6
	21	60.8	60.9	61.1	61.6	61.8	61.9	62.3	62.2	62.3	62.1	62.0	61.9	61.8
	22	62.2	62.4	62.7	62.9	63.1	63.3	63.5	63.4	63.4	63.3	63.2	63.2	63.2
	23	63.5	63.7	63.8	64.0	64.2	64.2	64.3	64.2	64.2	64.2	64.0	63.9	63.9
	24	63.1	63.2	63.3	63.5	63.5	63.5	63.2	63.1	63.0	62.8	62.8	62.8	62.7
	25	62.4	62.6	63.0	63.3	63.4	63.4	63.6	63.6	63.6	63.5	63.3	63.1	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	63.5
	27	63.1	63.4	63.5	63.6	63.6	63.6	63.5	63.5	63.4	63.3	63.1	63.0	63.0
	28	62.0	62.2	62.5	62.7	63.0	63.1	62.9	62.8	62.8	62.7	62.4	62.0	61.6
	29	59.7	59.9	60.1	60.5	60.8	60.8	60.9	60.7	60.6	60.6	60.6	60.6	60.4
	30	61.3	61.5	61.5	61.7	61.8	61.8	61.7	61.6	61.4	61.2	61.3	61.0	60.9
	31	60.0	60.0	60.0	60.0	60.0	59.8	59.5	59.4	59.1	58.9	58.6	58.5	58.2
Hourly Means	61.55	61.73	61.92	62.14	62.30	62.36	62.38	62.34	62.27	62.17	62.06	61.93	61.89	

VERTICAL FORCE.													
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.													
Mean Göttingen Time.	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.	
MAY.	1	23.8	22.9	22.4	22.5	22.4	22.6	23.7	25.7	26.9	25.3	25.3	24.10
	2	23.7	23.0	22.7	23.2	23.7	23.0	23.0	26.1	26.5	25.7	23.0	23.54
	3	23.2	23.0	23.0	23.3	23.3	23.3	25.0	27.0	26.7	25.3	22.4	23.96
	4	—	—	—	—	—	—	—	—	—	—	—	22.74
	5	22.8	23.1	21.8	23.2	23.8	22.1	22.8	23.6	23.8	24.2	21.0	
	6	23.4	24.1	23.7	33.6	32.5	22.6	22.2	23.9	24.5	23.3	21.5	23.43
	7	24.3	24.5	24.4	23.5	23.0	20.5	21.4	27.0	27.3	25.7	23.9	23.73
	8	21.7	22.4	22.4	22.0	24.5	22.8	22.8	24.1	25.0	25.0	23.9	24.72
	9	23.0	22.2	21.5	21.8	22.0	21.9	22.4	24.4	25.2	24.3	21.5	23.40
	10	21.8	22.0	22.3	21.8	22.7	23.0	23.7	26.4	26.1	24.3	20.6	22.66
	11	—	—	—	—	—	—	—	—	—	—	—	21.19
	12	20.4	19.6	19.8	19.9	19.6	19.4	19.8	21.2	21.5	20.2	17.3	
	13	20.4	20.1	19.9	20.3	18.5	17.8	18.0	19.5	21.1	21.3	21.3	20.15
	14	20.4	21.5	20.8	18.2	19.2	19.3	19.5	22.0	22.0	19.6	17.7	20.13
	15	—	—	—	18.6	17.7	17.5	18.3	19.2	18.6	17.3	17.8	18.69
	16	18.3	18.4	18.4	18.4	18.0	17.8	17.8	18.3	19.0	19.0	17.3	18.23
	17	19.0	18.7	18.7	18.2	17.7	17.2	18.6	20.1	20.9	18.3	16.4	18.40
	18	—	—	—	—	—	—	—	—	—	—	—	18.03
	19	17.9	17.9	17.9	17.9	17.9	17.1	18.1	20.3	20.8	20.5	18.2	
	20	18.8	18.8	18.8	18.8	18.8	18.8	19.0	20.4	21.0	20.1	18.7	18.63
	21	18.8	19.6	19.8	19.3	19.3	19.8	19.9	19.6	19.0	17.8	15.1	19.81
	22	15.8	19.9	18.9	19.8	15.3	15.7	18.7	20.6	20.1	19.7	20.9	19.31
	23	18.6	18.3	18.4	18.7	19.0	18.1	18.2	20.1	21.3	21.0	19.0	18.87
	24	18.4	19.3	18.6	19.2	19.5	19.5	18.7	20.1	20.8	19.5	18.0	19.10
	25	—	—	—	—	—	—	—	—	—	—	—	18.69
	26	18.6	18.0	17.7	18.2	18.5	18.0	18.2	19.1	16.4	20.8	18.7	
	27	18.7	18.1	18.1	19.0	19.0	18.0	18.0	19.9	21.5	21.2	21.7	19.60
	28	19.8	19.9	19.9	19.9	19.9	19.9	20.2	22.1	23.5	23.7	22.5	20.23
	29	20.1	19.5	20.1	20.1	19.9	19.0	19.6	21.1	22.2	22.4	19.8	20.73
	30	18.9	18.9	19.1	19.4	19.4	18.5	18.5	20.6	22.0	22.0	20.0	19.26
	31	20.1	19.7	19.6	19.6	19.8	19.8	19.8	22.2	23.6	22.5	21.4	20.38
Hourly Means	20.41	20.52	20.33	20.68	20.55	19.74	20.22	22.02	22.49	21.85	20.18	20.82	
TEMPERATURE OF THE MAGNET.													
MAY.	1	61.5	61.4	61.0	61.0	61.0	60.9	60.8	60.8	60.9	60.9	61.2	61.43
	2	61.5	61.3	61.2	61.1	61.0	60.9	60.9	60.9	61.1	61.4	61.6	61.52
	3	62.2	62.0	61.8	61.7	61.4	61.0	60.8	60.5	60.6	60.7	61.1	61.92
	4	—	—	—	—	—	—	—	—	—	—	—	62.11
	5	61.8	61.8	61.8	61.9	61.8	61.8	61.8	61.8	61.9	62.1	62.3	
	6	61.0	60.9	60.7	60.6	60.8	61.0	60.6	60.3	60.2	60.2	60.2	61.40
	7	58.8	58.7	58.4	58.2	58.1	57.8	57.7	57.6	57.6	57.7	57.9	59.05
	8	58.5	58.3	58.2	58.1	58.0	57.8	57.8	57.8	57.8	58.0	58.3	58.43
	9	60.0	59.9	59.8	59.8	59.7	59.3	59.1	59.0	59.0	59.2	59.3	59.64
	10	59.5	59.3	58.8	58.6	58.1	57.8	57.7	57.5	57.5	57.8	58.2	59.42
	11	—	—	—	—	—	—	—	—	—	—	—	61.08
	12	62.4	62.4	62.3	62.3	62.2	62.3	62.2	62.1	62.2	62.1	62.2	
	13	61.8	61.8	61.6	61.6	61.4	61.2	61.1	61.1	61.2	61.2	61.6	61.85
	14	62.1	61.9	61.8	61.6	61.5	61.4	61.1	60.9	60.9	61.3	61.7	62.04
	15	—	—	—	64.4	64.3	64.2	64.1	64.1	64.1	64.2	64.2	64.15
	16	63.6	63.5	63.3	63.2	63.0	63.0	62.9	62.8	62.8	63.1	63.2	63.80
	17	63.5	63.4	63.4	63.4	63.4	63.3	63.4	63.4	63.4	63.4	63.5	63.66
	18	—	—	—	—	—	—	—	—	—	—	—	63.48
	19	63.7	63.6	63.4	63.4	63.3	63.0	62.9	62.9	62.8	62.9	63.0	
	20	62.2	61.9	61.7	61.4	61.2	60.9	60.7	60.6	60.5	60.6	60.7	62.48
	21	61.7	61.6	61.6	61.5	61.4	61.2	61.2	61.2	61.3	61.5	61.8	61.61
	22	63.1	63.1	62.9	62.8	62.8	63.0	62.9	62.9	62.9	63.1	63.3	63.03
	23	63.8	63.7	63.5	63.3	63.0	62.8	62.5	62.5	62.5	62.6	62.7	63.54
	24	62.7	62.6	62.4	62.4	62.2	62.0	62.0	61.9	62.0	62.1	62.2	62.71
	25	—	—	—	—	—	—	—	—	—	—	—	63.15
	26	63.5	63.4	63.3	63.1	63.0	63.0	62.8	62.8	62.8	62.8	62.9	
	27	62.8	62.7	62.7	62.6	62.4	62.1	62.0	61.8	61.8	61.7	62.0	62.84
	28	61.3	61.1	60.8	60.3	60.0	59.8	59.6	59.1	59.1	59.2	59.5	61.35
	29	60.4	60.3	60.5	60.6	60.7	60.7	60.7	60.8	61.0	60.9	61.1	60.58
	30	60.8	60.8	60.6	60.5	60.5	60.2	60.2	60.1	59.9	59.9	59.9	60.92
	31	58.1	57.9	57.7	57.5	57.3	57.3	57.0	56.8	56.8	56.9	57.0	58.43
Hourly Means	61.63	61.51	61.35	61.37	61.24	61.10	60.98	60.89	60.91	61.02	61.21	61.69	

VERTICAL FORCE.														
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
JUNE.	1	21.4	21.7	21.2	20.7	21.0	21.0	21.0	21.0	21.0	21.2	22.0	21.3	
	2	—	—	—	—	—	—	—	—	—	—	—	20.0	
	3	18.0	20.7	21.2	22.0	21.6	21.0	20.6	20.6	20.9	20.9	20.9	20.9	20.9
	4	20.1	19.7	18.2	19.5	20.5	20.5	20.3	20.1	20.1	20.0	20.2	19.9	20.2
	5	18.9	18.7	18.0	19.5	20.0	20.4	20.4	20.0	20.7	20.0	19.9	19.8	20.2
	6	18.2	18.6	18.6	19.4	20.0	20.0	20.0	20.0	20.0	20.0	19.7	19.9	19.3
	7	19.7	18.7	18.7	20.6	21.6	21.1	20.8	21.0	20.6	20.6	20.2	20.2	20.2
	8	19.1	18.5	19.4	20.3	20.8	20.8	20.8	20.4	20.4	20.6	21.1	21.1	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	21.9
	10	19.3	19.3	20.0	20.3	20.8	21.3	21.7	21.6	20.9	21.2	20.6	20.0	20.6
	11	18.3	18.6	17.8	28.8	20.1	20.8	21.1	20.8	20.5	20.6	21.0	21.2	20.5
	12	20.1	18.3	18.6	19.6	20.8	21.1	21.4	21.4	20.9	20.9	21.4	21.4	21.4
	13	20.0	19.3	20.1	20.9	21.9	21.3	21.3	21.3	21.3	21.5	21.8	21.4	21.8
	14	20.5	19.5	19.0	20.1	21.4	21.4	21.4	21.6	21.6	20.7	21.1	20.8	21.1
	15	19.7	18.5	18.6	19.6	20.8	20.8	20.5	20.6	20.9	21.5	21.4	20.8	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	24.5
	17	24.4	25.4	24.8	26.2	27.5	26.9	25.7	25.2	24.4	26.1	25.5	24.4	24.1
	18	23.7	23.9	25.9	25.7	24.9	24.5	25.3	25.0	23.9	23.2	23.7	20.9	22.6
	19	21.3	20.8	21.2	22.5	23.7	22.5	22.5	21.8	22.2	22.5	22.5	22.2	22.2
	20	23.9	22.9	22.4	22.4	22.4	22.0	22.0	22.0	21.7	21.6	20.4	20.1	21.2
	21	23.1	21.1	21.2	22.9	24.0	24.0	23.9	23.6	23.7	22.9	22.1	22.3	22.3
	22	21.9	21.5	20.9	21.1	21.1	21.5	21.5	21.5	21.5	21.5	21.3	21.3	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	21.6
	24	22.1	21.1	20.5	20.5	21.5	21.4	20.7	20.7	20.5	20.5	20.2	20.4	20.4
	25	21.5	21.0	21.0	21.1	21.5	21.5	21.3	21.3	21.0	21.0	21.0	21.0	21.0
	26	22.4	21.5	21.1	21.1	22.0	22.0	22.0	22.0	22.6	22.0	21.6	22.1	22.3
	27	21.5	19.7	19.0	19.5	20.9	21.4	21.9	22.0	21.7	21.2	21.2	21.6	21.2
	28	18.7	17.5	18.4	20.1	21.6	22.0	22.0	22.0	22.0	21.6	22.7	22.5	21.9
	29	26.7	23.4	23.7	24.8	25.9	26.2	26.6	26.6	26.7	25.8	24.7	25.3	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	26.6
Hourly Means	20.99	20.40	20.38	21.17	21.93	21.90	21.87	21.76	21.67	21.58	21.53	21.31	21.60	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	1	57.1	57.5	57.7	58.1	58.3	58.2	58.1	58.0	57.8	57.6	57.1	57.0	
	2	—	—	—	—	—	—	—	—	—	—	—	—	57.8
	3	56.5	56.8	57.1	57.6	57.8	57.8	58.3	58.4	58.5	58.5	58.2	58.2	58.3
	4	58.5	58.7	58.8	59.0	59.2	59.3	59.4	59.5	59.4	59.3	59.0	58.8	58.6
	5	57.0	57.2	57.6	58.0	58.4	58.5	58.6	58.6	58.6	58.5	58.6	58.6	58.6
	6	58.9	58.9	58.9	58.9	58.9	59.0	59.0	59.0	59.0	59.0	58.9	58.9	58.8
	7	58.2	58.2	58.1	58.1	58.1	58.2	58.1	58.1	58.0	57.9	57.8	57.8	57.7
	8	57.1	57.4	57.5	57.6	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.7	57.6
	9	—	—	—	—	—	—	—	—	—	—	—	—	57.5
	10	57.8	57.9	58.0	58.0	58.1	58.1	58.3	58.3	58.3	58.3	58.2	58.2	58.2
	11	58.4	58.4	58.7	58.8	58.9	58.9	58.9	58.9	58.8	58.8	58.8	58.7	58.6
	12	58.6	58.8	59.0	59.2	59.3	59.3	59.2	59.0	59.0	58.8	58.8	58.7	58.5
	13	58.2	58.2	58.5	58.6	58.6	58.7	58.6	58.6	58.6	58.5	58.6	58.6	58.6
	14	59.2	59.1	59.1	59.1	59.1	59.1	59.4	59.4	59.4	59.4	59.3	59.4	59.3
	15	59.6	59.8	59.8	59.8	59.8	59.8	59.9	59.9	59.9	59.9	60.1	60.1	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	55.8
	17	54.8	54.9	55.1	55.2	55.3	55.3	55.1	55.0	54.9	54.8	54.8	54.8	54.7
	18	54.9	55.3	55.8	56.2	56.6	56.7	56.8	56.9	57.0	57.0	57.0	57.0	57.0
	19	57.5	57.7	58.1	58.3	58.4	58.5	58.5	58.4	58.3	58.0	57.8	57.6	57.1
	20	56.6	57.0	57.1	57.6	57.8	57.9	58.0	58.0	57.9	57.8	57.6	57.5	57.3
	21	56.8	57.0	57.4	57.7	57.8	58.1	58.3	58.4	58.4	58.4	58.4	58.4	58.4
	22	58.5	58.7	58.8	59.0	59.4	59.5	59.5	59.6	59.6	59.4	59.5	59.4	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	59.6
	24	59.3	59.6	59.8	60.2	60.6	60.8	61.1	61.2	61.0	61.0	60.9	60.8	60.8
	25	60.6	60.9	60.9	61.2	61.3	61.4	61.3	61.2	61.1	60.9	60.8	60.5	60.1
	26	58.7	59.0	59.3	59.8	60.1	60.5	60.6	60.8	60.8	60.8	61.0	60.8	60.6
	27	60.2	60.4	60.6	60.8	61.0	61.0	61.2	61.3	61.3	61.3	61.0	60.9	60.9
	28	60.1	60.0	59.9	59.8	59.5	59.3	59.1	58.8	58.5	58.2	57.9	57.8	57.6
	29	56.0	56.1	56.3	56.3	56.4	56.4	56.2	56.0	55.8	55.5	55.3	55.0	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	53.1
Hourly Means	57.96	58.14	58.32	58.52	58.66	58.72	58.77	58.76	58.71	58.62	58.52	58.44	58.14	

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	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.
JUNE. 1	—	—	—	—	—	—	—	—	—	—	—	20·83
2	20·0	20·7	20·8	20·4	20·4	20·3	20·0	21·4	21·8	20·4	19·1	20·66
3	20·9	21·1	21·1	20·5	20·5	20·2	20·2	21·1	21·1	19·7	19·2	20·33
4	20·6	20·8	20·8	20·8	20·8	19·8	19·8	21·2	21·7	22·1	20·1	19·95
5	20·7	20·7	20·8	20·7	20·4	19·8	19·1	20·0	20·5	20·0	19·5	19·44
6	19·3	19·6	19·6	19·2	18·9	18·0	17·5	19·5	20·8	20·3	20·2	20·43
7	20·0	20·0	20·7	20·7	20·5	19·7	19·0	21·0	22·7	22·3	19·8	20·42
8	—	—	—	—	—	—	—	—	—	—	—	20·66
9	21·9	21·4	20·6	20·3	20·3	19·9	19·5	20·8	21·0	20·6	18·6	20·29
10	20·2	21·2	18·6	20·8	21·3	20·7	20·2	21·4	22·4	21·7	19·8	20·65
11	20·7	20·3	20·7	20·2	19·9	19·9	19·5	20·6	22·8	22·4	19·9	20·86
12	21·0	21·0	20·5	20·5	20·7	19·8	19·8	21·6	21·9	21·6	20·0	20·63
13	21·3	21·0	20·3	20·3	20·3	20·1	20·1	20·9	21·5	21·2	19·7	21·76
14	20·8	20·6	20·3	20·0	20·0	19·7	19·4	20·6	20·1	22·7	20·7	24·45
15	—	—	—	—	—	—	—	—	—	—	—	23·13
16	20·2	21·5	23·6	23·8	22·7	21·4	21·4	24·2	25·2	25·2	24·9	22·28
17	24·1	21·3	22·5	24·1	24·0	23·0	22·7	24·3	23·6	23·6	22·9	22·14
18	22·6	22·0	22·5	22·0	22·4	21·2	20·2	20·9	22·4	23·5	22·1	22·09
19	23·1	23·1	22·8	23·0	22·0	21·1	20·5	21·3	22·6	23·3	23·9	21·35
20	20·5	22·1	22·1	22·5	21·2	20·5	19·1	20·3	26·1	26·5	25·5	20·70
21	21·5	19·1	20·3	20·8	20·8	20·8	20·6	21·2	22·9	22·9	22·2	21·49
22	—	—	—	—	—	—	—	—	—	—	—	21·62
23	21·2	21·2	20·9	20·9	20·9	20·2	20·2	21·5	22·7	22·7	21·7	20·95
24	20·4	20·2	20·3	20·4	19·8	20·2	19·6	20·1	21·6	22·2	21·6	21·86
25	21·0	21·0	21·1	21·1	21·1	20·8	20·8	22·0	23·9	24·6	23·1	25·68
26	21·6	21·4	21·4	21·4	21·4	21·2	20·8	20·8	21·2	21·5	21·5	26·2
27	21·2	21·0	20·3	20·3	20·3	20·2	19·8	21·1	22·5	22·2	21·0	21·86
28	22·3	22·3	22·2	23·4	22·0	21·5	20·8	21·5	23·2	25·7	26·7	25·68
29	—	—	—	—	—	—	—	—	—	—	—	21·39
30	26·3	26·3	25·6	24·7	24·9	25·1	24·4	25·5	27·2	27·2	26·2	Hourly Means
Hourly Means	21·34	21·24	21·22	21·31	21·10	20·60	20·20	21·39	22·54	22·64	21·60	21·39

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
JUNE. 1	—	—	—	—	—	—	—	—	—	—	—	57·25
2	57·8	57·6	57·5	57·0	56·7	56·3	56·2	56·1	56·1	56·1	56·3	57·93
3	58·2	58·1	58·0	58·0	58·0	57·9	57·9	58·0	58·0	58·0	58·3	58·13
4	58·2	57·9	57·6	57·3	57·1	56·9	56·7	56·5	56·5	56·4	56·6	58·36
5	58·6	58·5	58·4	58·4	58·4	58·5	58·5	58·5	58·6	58·7	58·8	58·64
6	58·8	58·7	58·6	58·5	58·3	58·1	58·1	58·0	57·9	58·1	58·1	57·68
7	57·7	57·6	57·6	57·5	57·4	57·2	57·1	57·0	57·0	56·8	57·0	57·62
8	—	—	—	—	—	—	—	—	—	—	—	58·11
9	57·4	57·5	57·5	57·5	57·5	57·7	57·7	57·7	57·7	57·7	57·8	58·55
10	58·2	58·1	58·0	58·0	58·0	58·0	58·0	58·0	58·1	58·2	58·3	58·59
11	58·6	58·6	58·4	58·4	58·3	58·1	58·1	58·1	58·2	58·1	58·1	58·65
12	58·4	58·3	58·2	58·2	58·1	58·1	58·1	58·2	58·1	58·1	58·1	59·35
13	58·6	58·6	58·8	58·8	58·8	58·8	58·8	58·8	58·7	58·9	59·0	57·42
14	59·4	59·4	59·4	59·3	59·3	59·4	59·6	59·6	59·6	59·5	59·5	54·73
15	—	—	—	—	—	—	—	—	—	—	—	56·74
16	55·7	55·6	55·2	55·0	54·8	54·8	54·5	54·5	54·5	54·6	54·7	57·17
17	54·7	54·7	54·4	54·5	54·4	54·3	54·2	54·2	54·3	54·4	54·6	57·09
18	57·1	57·1	57·1	57·1	57·1	57·1	57·0	56·9	56·9	57·0	57·2	58·01
19	56·8	56·6	56·4	56·2	56·1	55·9	55·8	55·8	55·8	56·1	56·3	59·24
20	57·1	56·9	56·8	56·6	56·5	56·4	56·3	56·3	56·2	56·4	56·5	60·52
21	58·4	58·2	58·1	57·9	57·9	57·9	58·0	58·1	58·1	58·0	58·2	59·96
22	—	—	—	—	—	—	—	—	—	—	—	60·24
23	59·6	59·6	59·4	59·4	59·3	59·2	59·0	58·9	58·8	59·0	59·1	60·76
24	60·8	60·8	60·7	60·6	60·5	60·3	60·3	60·3	60·2	60·4	60·4	57·73
25	59·9	59·6	59·5	59·1	58·8	58·5	58·3	58·2	58·2	58·3	58·5	54·20
26	60·5	60·5	60·5	60·3	60·2	60·2	60·2	60·2	60·1	60·1	60·1	Hourly Means
27	60·9	60·8	60·8	60·8	60·6	60·6	60·6	60·3	60·3	60·3	60·3	58·07
28	57·3	57·0	56·7	56·5	56·4	56·0	56·0	55·9	55·8	55·7	55·8	57·97
29	—	—	—	—	—	—	—	—	—	—	—	57·86
30	53·1	53·0	52·9	52·8	52·6	52·6	52·1	51·8	51·8	51·8	51·9	57·75
Hourly Means	58·07	57·97	57·86	57·75	57·64	57·55	57·48	57·44	57·42	57·48	57·59	58·11

VERTICAL FORCE.														
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
JULY.	1	25.7	26.3	25.9	25.4	26.8	26.2	26.0	26.4	26.1	26.4	27.3	27.0	27.0
	2	27.4	26.1	23.3	24.7	26.7	26.7	26.4	26.3	26.0	26.0	25.3	25.5	25.5
	3	23.9	22.9	22.7	22.9	23.7	24.1	24.1	24.1	23.4	23.1	23.1	23.1	23.1
	4	21.8	21.8	22.5	23.3	23.6	23.6	23.9	23.3	22.8	22.4	22.2	22.2	22.6
	5	21.6	21.5	21.6	22.0	23.8	24.3	23.8	23.4	23.2	23.2	22.4	23.0	23.3
	6	23.3	22.5	22.5	23.2	24.2	24.2	23.6	23.4	22.9	23.2	23.2	23.2	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	23.1
	8	24.5	23.3	24.1	25.1	27.4	28.0	25.7	24.2	24.5	24.1	23.8	24.0	23.7
	9	24.9	22.1	21.8	23.3	24.6	25.0	24.8	24.9	24.6	24.8	24.8	24.6	23.7
	10	22.0	22.5	24.1	23.9	24.5	24.5	24.5	24.1	23.4	23.2	23.3	23.0	23.0
	11	22.7	21.5	21.5	22.8	23.5	23.6	23.3	23.3	23.3	23.0	23.0	23.4	22.7
	12	21.1	20.9	20.9	21.5	21.6	21.7	21.8	22.2	22.2	22.5	22.5	22.1	22.1
	13	22.6	22.9	21.9	22.7	26.4	25.2	24.4	23.7	25.4	23.8	23.5	23.2	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	23.7
	15	22.0	21.8	21.8	22.4	23.7	23.7	23.9	24.3	24.6	23.9	33.4	22.6	22.6
	16	23.4	22.0	22.4	22.8	23.6	23.4	22.6	22.8	22.8	22.4	22.8	22.8	23.0
	17	22.5	22.5	21.4	21.0	21.7	21.2	21.8	21.6	22.0	24.0	22.6	23.3	22.4
	18	22.3	20.4	20.9	22.8	23.9	22.8	23.3	23.3	23.3	23.0	21.1	21.1	21.1
	19	20.6	21.0	20.7	20.3	21.2	21.6	21.4	20.6	20.1	20.1	20.4	20.4	20.4
	20	19.5	18.5	18.9	19.9	20.8	20.4	20.4	20.0	20.0	20.0	19.8	20.2	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	21.3
	22	20.5	20.5	20.9	22.1	22.9	22.0	22.0	21.9	21.9	21.9	21.9	21.5	21.5
	23	18.8	20.0	21.3	22.7	23.8	24.2	24.0	23.3	23.3	22.5	21.9	21.9	21.9
	24	21.1	20.6	20.6	21.1	22.6	22.6	22.4	21.8	22.0	22.0	21.6	21.5	21.5
	25	24.2	24.7	24.0	21.6	23.7	25.1	24.8	24.3	26.4	22.2	22.7	21.9	22.2
	26	21.5	20.0	19.5	20.2	20.7	21.9	22.5	22.0	21.3	21.5	21.9	21.5	21.3
	27	21.6	21.1	19.2	20.3	22.3	25.8	21.7	22.4	23.2	20.5	21.6	21.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	22.4
	29	19.6	19.9	21.6	22.4	23.3	23.3	23.0	23.1	22.1	22.3	22.7	22.5	22.5
	30	23.5	21.8	20.2	20.1	22.1	23.3	22.8	22.8	22.8	23.4	23.4	23.4	23.4
	31	22.4	20.7	17.6	20.8	19.1	22.0	21.5	22.7	23.9	22.9	24.1	24.8	23.4
Hourly Means	22.41	21.84	21.62	22.27	23.41	23.71	23.35	23.19	23.24	22.90	22.83	22.80	22.76	
TEMPERATURE OF THE MAGNET.														
	0 ^o .	1 ^o .	2 ^o .	3 ^o .	4 ^o .	5 ^o .	6 ^o .	7 ^o .	8 ^o .	9 ^o .	10 ^o .	11 ^o .	12 ^o .	
JULY.	1	52.2	52.5	52.7	53.2	53.3	53.4	53.6	53.6	53.5	53.3	53.1	53.0	52.8
	2	52.5	52.8	53.0	53.2	53.3	53.6	53.7	53.8	53.8	53.9	54.0	54.1	54.1
	3	55.3	55.4	55.8	56.0	56.1	56.1	56.3	56.5	56.6	56.6	56.6	56.7	56.8
	4	57.2	57.3	57.2	57.4	57.5	57.6	57.6	57.4	57.1	56.9	56.8	56.7	56.6
	5	55.1	55.4	55.8	56.0	56.1	56.4	56.4	56.4	56.4	56.4	56.6	56.6	55.9
	6	55.4	55.7	56.0	56.3	56.7	56.8	57.0	57.0	57.0	57.0	56.8	56.8	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	55.5
	8	54.6	55.0	55.1	55.3	55.4	55.5	55.3	55.3	55.3	55.3	55.4	55.3	55.2
	9	54.4	54.7	54.9	55.2	55.5	55.6	55.6	55.5	55.4	55.3	55.1	54.9	54.7
	10	54.5	54.9	55.4	56.1	56.2	56.3	56.3	56.3	56.3	56.2	56.2	55.9	55.8
	11	54.5	54.7	55.1	55.2	55.9	56.0	56.1	56.2	56.3	56.3	56.1	56.1	56.2
	12	56.3	56.5	56.8	57.0	57.1	57.1	57.4	57.5	57.4	57.4	57.1	57.0	56.9
	13	55.3	55.4	55.6	55.6	55.6	55.6	55.4	55.4	55.1	55.1	55.1	54.9	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	54.3
	15	54.6	54.8	55.1	55.4	55.6	55.6	55.7	55.6	55.4	55.4	55.1	55.0	54.8
	16	54.7	54.9	55.1	55.4	55.5	55.7	55.7	55.8	55.8	55.8	55.8	55.7	55.7
	17	55.7	56.0	56.4	56.7	57.1	57.4	57.4	57.3	57.1	57.1	57.0	56.8	56.8
	18	56.2	56.4	56.7	57.0	57.1	57.2	57.6	57.6	57.7	57.7	57.8	57.7	57.7
	19	57.5	58.1	58.5	58.7	58.8	58.8	58.8	58.9	59.1	59.0	59.2	59.2	59.2
	20	58.6	58.8	59.2	59.4	59.8	60.1	59.9	59.8	59.8	59.7	59.6	59.3	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	59.1
	22	58.8	59.0	59.3	59.4	59.6	59.7	59.6	59.5	59.3	59.2	59.4	59.3	59.1
	23	58.2	58.6	58.7	58.9	59.1	59.4	59.4	59.4	59.3	59.3	59.1	58.9	58.7
	24	57.4	57.7	58.1	58.6	59.0	59.3	59.8	59.9	59.9	59.8	59.5	59.5	59.5
	25	60.1	60.3	60.5	60.8	61.1	61.4	61.6	61.7	61.7	61.6	61.4	61.2	61.1
	26	60.2	60.7	61.2	61.5	61.5	61.6	61.6	61.6	61.5	61.5	61.2	61.2	61.0
	27	60.0	60.2	60.4	60.5	60.7	60.9	60.7	60.7	60.6	60.5	60.5	60.5	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	59.0
	29	57.8	58.1	58.5	58.6	58.7	58.7	58.7	58.5	58.5	58.4	58.3	58.1	57.9
	30	56.5	56.7	57.0	57.3	57.5	57.6	57.5	57.5	57.3	57.2	57.1	57.0	56.9
	31	56.6	56.8	56.9	57.0	57.1	57.1	57.4	57.4	57.3	57.1	57.1	57.0	56.9
Hourly Means	56.30	56.57	56.85	57.10	57.29	57.43	57.49	57.49	57.43	57.37	57.30	57.18	56.97	

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JULY.	1	27.0	26.4	26.5	26.2	25.6	24.9	24.0	25.6	27.8	29.5	28.2	26.42
	2	25.2	25.0	24.7	24.7	24.0	23.7	23.1	24.2	25.3	26.0	24.8	25.27
	3	23.1	22.7	22.7	21.5	21.9	21.9	20.9	21.5	22.7	22.4	21.8	22.80
	4	22.7	22.9	22.9	23.0	22.6	22.3	22.3	24.1	24.8	24.4	23.6	22.98
	5	23.3	23.8	23.8	23.6	23.6	23.3	22.1	22.7	24.0	24.7	24.7	23.20
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	24.0	24.0	23.6	22.8	22.8	22.5	22.5	21.8	25.4	26.3	26.7	23.54
	8	22.9	23.7	23.4	23.5	23.9	23.8	23.8	26.6	28.3	28.3	26.5	24.88
	9	24.0	24.6	25.1	25.1	25.1	24.5	23.9	24.9	25.5	24.5	21.7	24.28
	10	23.2	23.2	23.3	23.1	22.8	22.3	22.6	24.8	24.8	24.4	23.5	23.50
	11	22.3	22.4	22.7	22.1	22.4	21.9	21.6	23.9	23.9	22.9	21.8	22.73
	12	21.4	21.1	21.4	21.7	21.7	20.3	19.9	21.4	23.9	22.0	22.5	21.68
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	23.7	23.6	23.3	23.2	22.6	19.9	19.7	22.1	25.0	24.2	22.0	23.28
	15	22.7	22.0	23.1	23.1	23.1	22.5	21.9	23.4	25.1	25.4	23.8	23.20
	16	22.2	23.0	23.3	22.8	22.9	22.2	20.4	20.8	23.4	24.0	24.0	22.74
	17	22.4	20.3	20.9	21.5	21.6	19.8	20.0	21.8	22.7	23.1	22.2	21.85
	18	21.1	21.4	21.2	20.6	20.6	19.4	19.7	20.8	23.1	21.9	20.6	21.65
	19	20.5	20.9	20.3	20.0	19.6	19.1	18.7	19.9	21.1	21.4	20.3	20.44
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	21.7	20.6	20.7	21.1	21.1	20.9	21.4	23.9	25.2	24.3	20.6	20.88
	22	21.5	21.8	22.2	22.4	21.4	20.5	19.8	22.6	25.7	26.2	20.9	21.94
	23	21.9	22.5	22.8	22.3	21.6	21.5	21.7	23.0	24.7	24.3	22.2	22.42
	24	21.1	19.3	19.3	19.5	18.0	19.9	21.6	25.5	23.7	24.7	24.3	21.60
	25	19.6	20.8	21.0	20.9	20.5	20.7	20.7	20.7	22.3	22.1	20.7	22.41
	26	21.3	21.2	19.9	19.9	20.5	20.0	19.6	21.5	21.6	21.2	20.6	20.95
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	21.8	20.7	21.3	22.4	22.4	21.2	20.6	22.2	24.8	24.3	22.2	22.00
	29	22.3	22.4	22.4	21.6	21.8	20.6	19.0	22.0	24.7	25.7	24.8	22.32
	30	23.4	23.1	23.1	22.8	22.4	20.3	17.9	19.6	24.5	24.5	23.2	22.41
	31	23.4	22.8	22.5	21.8	21.1	21.3	21.1	22.3	23.3	23.7	23.7	22.20
Hourly Means	22.58	22.45	22.50	22.34	22.13	21.53	21.13	22.73	24.34	24.31	23.03	22.72	

TEMPERATURE OF THE MAGNET.

JULY.	1	52.7	52.5	52.5	52.5	52.5	52.4	52.4	52.4	52.4	52.4	52.5	52.81
	2	54.2	54.3	54.2	54.3	54.3	54.6	54.6	54.7	54.7	54.9	55.1	53.99
	3	56.8	56.8	56.8	56.8	56.8	56.8	57.0	56.9	56.9	57.0	57.1	56.52
	4	56.4	56.1	55.8	55.8	55.5	55.2	55.1	54.9	55.0	54.9	55.0	56.38
	5	55.8	55.6	55.5	55.2	55.0	54.8	54.7	54.6	54.7	54.9	55.1	55.62
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	55.2	55.0	54.9	54.8	54.8	54.5	54.4	54.4	54.4	54.4	54.5	55.64
	8	55.1	55.0	54.8	54.3	54.4	54.2	53.9	53.7	53.7	53.8	54.0	54.79
	9	54.6	54.4	54.1	53.8	53.8	53.7	53.7	53.6	53.7	53.8	54.1	54.59
	10	55.6	55.5	55.1	54.9	54.6	54.4	54.2	54.0	54.0	54.0	54.2	55.29
	11	56.1	56.1	56.1	56.1	56.0	56.0	56.1	56.1	56.1	56.2	56.2	55.91
	12	56.8	56.6	56.6	56.2	55.9	55.7	55.4	55.3	55.2	55.2	55.3	56.49
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	54.3	54.2	54.0	53.8	54.0	54.0	54.0	53.9	53.8	54.0	54.3	54.70
	15	54.7	54.6	54.6	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.6	54.91
	16	55.6	55.6	55.4	55.4	55.2	55.0	55.0	54.9	54.9	55.1	55.2	55.37
	17	56.6	56.5	56.1	56.0	55.8	55.5	55.5	55.5	55.5	55.7	56.1	56.40
	18	57.7	57.6	57.7	57.6	57.5	57.3	57.2	57.2	57.2	57.3	57.4	57.34
	19	59.0	58.9	58.7	58.8	58.6	58.6	58.3	58.0	58.0	58.1	58.5	58.64
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	59.0	59.0	58.8	58.8	58.8	58.8	58.7	58.7	58.6	58.6	58.7	58.73
	22	58.9	58.8	58.5	58.4	58.3	58.0	58.0	58.0	58.0	58.0	58.1	58.84
	23	58.4	58.1	57.8	57.6	57.2	57.0	56.8	56.7	56.7	56.8	57.1	58.22
	24	59.3	59.3	59.5	59.4	59.3	59.4	59.3	59.3	59.4	59.4	59.6	59.22
	25	60.8	60.5	60.1	60.0	59.9	59.8	59.8	59.8	59.7	59.8	60.0	60.61
	26	60.8	60.6	60.4	60.1	60.0	59.9	59.8	59.8	59.8	59.8	59.9	60.72
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	58.8	58.7	58.5	58.4	58.2	57.8	57.7	57.6	57.5	57.7	57.8	59.33
	29	57.7	57.5	57.2	57.0	56.7	56.4	56.2	56.2	56.2	56.2	56.3	57.60
	30	56.8	56.8	56.8	56.8	56.7	56.5	56.6	56.5	56.5	56.5	56.5	56.92
	31	56.7	56.6	56.5	56.5	56.5	56.6	56.5	56.4	56.4	56.4	56.4	56.80
Hourly Means	56.83	56.71	56.56	56.43	56.32	56.20	56.13	56.06	56.06	56.13	56.28	56.77	

VERTICAL FORCE.														
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^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.	
AUGUST.	1	20·9	21·1	21·1	21·1	21·1	26·1	33·9	37·0	37·5	32·0	34·3	26·5	28·0
	2	26·4	26·0	26·0	27·3	26·2	25·9	25·5	24·7	25·4	26·1	25·9	25·1	24·2
	3	25·3	23·5	22·7	23·2	24·8	25·3	26·9	26·9	26·4	25·8	24·7	24·7	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	24·5
	5	23·8	23·8	23·8	25·5	26·6	26·6	25·4	25·2	25·2	25·9	24·9	25·1	25·5
	6	25·2	24·5	23·6	23·6	24·3	24·6	24·4	24·4	24·4	24·1	23·8	24·2	24·2
	7	23·7	22·2	21·6	21·8	23·5	24·3	23·9	23·7	23·7	23·5	23·4	23·4	23·4
	8	20·0	17·6	18·4	20·4	22·5	23·1	22·6	23·6	23·6	23·6	22·5	22·1	22·1
	9	22·6	21·8	21·2	21·7	26·7	28·2	26·1	26·6	23·9	18·8	20·0	20·2	16·9
	10	22·2	21·6	18·8	19·5	19·9	20·2	20·9	21·3	21·3	19·3	19·8	21·0	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	18·4
	12	19·6	18·3	17·2	17·2	17·6	17·6	17·6	17·4	17·6	17·9	17·4	17·9	17·9
	13	19·3	18·4	16·6	16·8	17·9	17·9	18·1	17·7	17·5	17·7	17·5	17·5	17·5
	14	16·5	15·5	16·1	16·7	17·8	17·9	17·0	17·0	17·0	16·4	16·4	16·6	16·6
	15	17·8	16·6	15·7	16·3	18·4	19·3	18·4	18·4	18·8	18·8	18·8	18·8	18·8
	16	19·8	20·1	20·1	19·5	19·5	19·7	18·9	20·0	20·3	20·7	22·2	20·7	20·5
	17	19·2	20·2	19·9	18·9	19·0	21·0	21·0	21·7	21·7	20·9	21·1	21·4	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	21·3
	19	20·8	19·5	19·4	19·7	19·7	20·6	20·2	20·3	19·7	19·9	19·7	19·7	20·0
	20	19·8	18·9	17·5	18·1	19·3	20·7	20·5	20·7	19·8	19·4	19·7	19·7	19·5
	21	21·2	19·5	18·6	19·2	20·2	20·8	20·2	20·2	19·7	19·3	19·6	18·7	18·7
	22	18·0	18·3	19·5	24·4	25·7	25·6	23·3	24·5	21·6	20·4	19·9	19·4	21·2
	23	20·5	21·0	20·4	19·3	21·0	22·4	22·4	20·7	21·7	20·5	18·7	19·4	19·2
	24	21·6	18·7	17·9	19·4	21·2	21·2	20·7	22·1	23·4	22·6	23·5	21·3	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	19·9
	26	19·8	19·0	16·5	16·2	18·8	19·6	19·0	19·0	18·7	19·1	19·7	19·7	20·5
	27	18·1	18·4	18·4	18·0	19·3	20·3	19·8	19·8	19·7	20·0	19·4	19·4	19·4
	28	17·1	17·4	17·4	17·9	18·4	18·9	18·5	18·5	18·2	18·2	18·1	18·1	18·1
	29	16·9	17·9	17·6	16·0	16·4	18·5	16·3	17·0	18·1	21·4	23·4	20·3	17·5
	30	17·6	19·3	20·8	19·4	19·2	20·9	20·5	19·7	18·4	18·9	18·9	19·7	19·2
Hourly Means	20·53	19·96	19·49	19·89	20·96	21·82	21·62	21·85	21·67	21·20	21·28	20·79	20·49	

TEMPERATURE OF THE MAGNET.															
	°	°	°	°	°	°	°	°	°	°	°	°	°		
AUGUST.	1	56·3	56·2	56·1	56·1	56·0	55·8	55·8	56·1	56·2	56·0	55·6	55·5	55·2	
	2	54·5	54·6	54·5	54·9	55·1	55·1	55·1	55·1	55·0	55·0	55·1	55·0	54·9	
	3	55·1	55·1	55·1	55·3	55·3	55·3	55·3	55·0	54·9	54·8	54·8	54·5	54·4	
	4	—	—	—	—	—	—	—	—	—	—	—	—	—	54·1
	5	53·6	54·1	54·6	55·0	55·4	55·6	55·5	55·3	55·2	55·0	54·8	54·6	54·4	
	6	54·4	55·1	55·7	56·1	56·5	56·6	56·8	56·8	56·7	56·6	56·5	56·3	56·2	
	7	55·5	56·0	56·6	56·9	57·4	57·5	57·6	57·5	57·5	57·5	57·5	57·0	57·0	
	8	57·2	57·5	57·5	57·9	58·1	58·2	58·1	58·1	58·0	57·9	57·8	57·8	57·6	
	9	58·4	58·6	58·6	59·1	59·2	59·3	59·4	59·4	59·2	59·0	58·9	58·8	58·7	
	10	58·8	59·0	59·2	59·6	59·8	59·7	59·8	59·7	59·5	59·4	59·1	59·0	—	
	11	—	—	—	—	—	—	—	—	—	—	—	—	60·8	
	12	60·7	60·9	61·5	61·8	62·4	62·7	62·8	62·8	62·8	62·8	62·8	62·8	62·8	
	13	61·0	61·3	61·4	61·7	61·9	61·9	62·2	62·2	62·2	62·1	61·9	61·8	61·8	
	14	62·5	62·7	62·9	63·0	63·1	63·0	62·9	62·8	62·8	62·8	62·8	62·7	62·6	
	15	61·0	61·0	61·1	61·1	60·8	60·6	60·5	60·1	59·9	59·8	59·5	59·3	59·1	
	16	57·9	58·0	58·2	58·4	58·4	58·3	58·0	58·0	58·0	57·9	57·8	57·8	57·8	
	17	57·4	57·5	57·7	57·9	58·0	58·0	58·2	58·2	58·1	57·9	57·8	57·5	—	
	18	—	—	—	—	—	—	—	—	—	—	—	—	56·4	
	19	55·5	55·9	56·2	56·5	56·7	56·8	57·1	57·1	57·3	57·3	57·4	57·3	57·3	
	20	56·9	57·0	57·0	57·2	57·3	57·2	57·1	56·9	56·8	56·8	56·6	56·5	56·3	
	21	56·2	56·3	56·3	56·1	56·0	56·0	55·8	55·8	55·7	55·6	55·5	55·5	55·6	
	22	56·0	56·3	56·2	56·2	56·2	56·2	56·2	56·2	56·2	56·2	56·1	56·0	56·0	
	23	56·6	57·1	57·5	57·6	57·7	57·7	57·6	57·5	57·4	57·2	57·3	57·1	57·1	
	24	56·5	56·7	56·8	57·0	57·3	57·5	57·5	57·4	57·3	57·3	57·0	56·9	—	
	25	—	—	—	—	—	—	—	—	—	—	—	—	56·6	
	26	57·2	57·4	57·4	57·5	57·5	57·2	57·1	57·0	56·7	56·4	56·3	56·0	55·8	
	27	55·4	55·6	56·0	56·4	56·6	56·6	56·6	56·5	56·5	56·4	56·3	56·4	56·2	
	28	56·6	57·1	57·3	57·7	57·8	57·8	58·0	58·0	58·0	58·0	57·8	57·8	57·6	
	29	57·4	57·5	57·8	57·9	58·3	58·4	58·3	58·3	58·3	58·3	58·3	58·3	58·2	
	30	57·7	57·9	58·0	58·2	58·3	58·3	58·3	58·2	58·2	58·1	58·0	58·0	58·1	
Hourly Means	57·17	57·39	57·58	57·81	57·97	57·97	57·97	57·92	57·86	57·77	57·63	57·54	57·46		

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
AUGUST.	1	25.6	24.8	24.8	23.0	23.4	22.8	20.7	23.9	26.8	28.6	25.3	26.26
	2	24.8	25.2	24.5	25.1	23.9	22.3	23.8	26.5	29.1	28.6	27.7	25.68
	3	—	—	—	—	—	—	—	—	—	—	—	25.53
	4	25.5	25.9	25.9	25.4	25.4	24.7	24.0	26.6	29.1	28.6	26.8	
	5	24.2	24.8	25.0	25.0	25.0	24.9	24.9	26.2	26.3	27.9	25.9	25.31
	6	23.8	24.0	23.8	24.1	24.1	23.2	22.4	24.3	25.7	26.0	25.2	24.25
	7	23.0	22.8	22.8	22.4	22.4	21.8	20.8	21.8	23.2	23.2	22.9	22.88
	8	22.0	21.8	21.8	21.5	21.4	20.4	19.5	21.5	22.8	23.9	24.1	21.78
	9	19.7	20.1	20.2	19.0	20.2	19.2	18.8	21.1	23.0	23.2	22.2	21.72
	10	—	—	—	—	—	—	—	—	—	—	—	19.88
	11	18.8	19.1	18.6	18.2	17.6	17.6	18.6	20.6	21.5	21.5	20.9	
	12	17.2	17.3	15.8	16.7	16.7	16.6	17.8	19.8	21.9	21.9	21.5	18.12
	13	17.5	17.1	16.5	16.5	15.3	15.2	16.0	18.1	19.6	18.0	17.7	17.41
	14	16.6	16.6	16.2	15.4	15.2	14.6	14.7	16.8	17.9	17.7	18.3	16.56
	15	18.6	18.9	18.9	18.9	18.2	17.2	17.8	19.6	20.4	20.2	19.8	18.46
	16	20.1	18.9	18.9	18.9	18.6	17.0	16.4	18.3	20.7	20.8	19.9	19.60
	17	—	—	—	—	—	—	—	—	—	—	—	20.90
	18	21.4	21.2	21.2	20.2	20.5	19.8	19.8	21.1	23.1	23.3	22.7	
	19	19.5	18.9	18.6	18.6	18.6	17.8	18.4	21.2	22.9	22.5	21.4	19.90
	20	19.6	18.8	18.9	19.2	19.2	18.6	18.6	20.7	21.6	22.1	22.4	19.72
	21	19.2	19.6	19.9	20.1	19.6	19.4	19.7	21.3	21.6	21.6	20.8	19.95
	22	18.8	18.9	18.9	18.9	19.6	18.5	19.1	21.0	22.3	21.0	21.3	20.84
	23	19.0	17.9	17.7	18.2	19.4	16.6	18.0	21.1	23.2	23.3	23.3	20.20
	24	—	—	—	—	—	—	—	—	—	—	—	20.19
	25	19.9	19.3	18.4	18.3	17.8	16.1	17.3	20.8	22.5	20.9	19.8	
	26	20.5	20.2	18.2	19.0	18.6	17.2	18.2	21.1	23.5	23.0	20.4	19.40
	27	19.4	19.5	19.9	18.2	18.2	17.0	17.6	19.5	20.1	18.9	17.1	18.98
	28	18.4	18.4	18.3	17.9	17.1	14.8	15.3	17.9	19.4	18.3	16.9	17.81
	29	18.9	19.4	19.4	16.5	17.6	17.3	15.0	17.7	19.3	18.0	17.0	18.06
	30	18.6	17.2	18.3	17.6	16.7	15.2	14.7	17.6	20.2	21.7	20.8	18.80
Hourly Means	20.41	20.25	20.05	19.72	19.63	18.68	18.77	21.00	22.60	22.49	21.62	20.70	

TEMPERATURE OF THE MAGNET.

AUGUST.	1	55.1	54.9	54.8	54.5	54.3	54.3	54.2	54.1	54.0	54.1	54.2	55.23
	2	54.8	54.8	54.6	54.6	54.4	54.5	54.5	54.5	54.5	54.5	54.7	54.76
	3	—	—	—	—	—	—	—	—	—	—	—	54.17
	4	54.0	53.9	53.8	53.7	53.5	53.1	52.9	52.8	52.7	52.9	53.1	
	5	54.3	54.1	54.1	53.9	53.8	53.6	53.4	53.3	53.4	53.5	54.1	54.36
	6	56.1	56.0	55.8	55.5	55.4	55.1	55.0	54.8	54.8	54.9	55.1	55.78
	7	56.8	56.8	56.6	56.6	56.6	56.6	56.6	56.7	56.7	56.8	56.9	56.86
	8	57.6	57.5	57.5	57.4	57.5	57.3	57.5	57.5	57.7	57.8	58.0	57.71
	9	58.6	58.5	58.4	58.4	58.3	58.3	58.3	58.3	58.3	58.4	58.5	58.70
	10	—	—	—	—	—	—	—	—	—	—	—	59.88
	11	60.8	60.7	60.7	60.6	60.5	60.2	60.1	59.9	59.9	60.0	60.2	
	12	62.4	62.4	62.2	62.0	61.9	61.6	61.4	61.1	60.9	60.8	60.8	61.95
	13	61.8	61.9	61.8	61.8	61.9	62.1	62.2	62.3	62.3	62.4	62.5	61.93
	14	62.5	62.3	62.3	62.2	62.0	61.8	61.6	61.5	61.2	61.2	61.0	62.34
	15	58.8	58.6	58.6	58.4	58.2	58.1	58.0	57.7	57.6	57.7	57.9	59.31
	16	57.6	57.5	57.5	57.5	57.4	57.1	57.1	57.1	57.1	57.2	57.3	57.70
	17	—	—	—	—	—	—	—	—	—	—	—	56.68
	18	56.3	56.0	55.7	55.5	55.3	55.3	55.1	55.0	55.0	55.1	55.3	
	19	57.2	57.2	57.1	57.0	56.8	56.8	56.7	56.5	56.6	56.8	56.8	56.83
	20	56.2	56.0	55.9	55.8	55.6	55.6	55.6	55.7	55.8	56.0	56.0	56.41
	21	55.7	55.8	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.9	56.0	55.85
	22	56.0	55.9	55.1	55.9	55.9	55.8	55.8	55.8	56.0	56.2	56.4	56.06
	23	56.9	56.8	56.5	56.4	56.3	56.0	56.0	55.9	55.9	56.0	56.2	56.85
	24	—	—	—	—	—	—	—	—	—	—	—	56.80
	25	56.5	56.5	56.5	56.4	56.3	56.4	56.3	56.4	56.4	56.7	56.9	
	26	55.6	55.5	55.2	54.9	54.8	54.7	54.6	54.6	54.7	54.8	55.0	56.00
	27	56.2	56.1	56.1	56.0	56.0	56.0	56.0	55.9	56.0	56.1	56.3	56.18
	28	57.6	57.5	57.5	57.5	57.4	57.1	57.0	57.0	57.0	57.0	57.1	57.47
	29	58.1	58.0	57.8	57.8	57.6	57.6	57.5	57.5	57.5	57.5	57.7	57.91
	30	57.9	57.9	57.7	57.6	57.3	57.3	57.2	57.0	57.0	57.1	57.4	57.78
Hourly Means	57.36	57.27	57.17	57.07	56.95	56.85	56.78	56.72	56.72	56.82	56.98	57.36	

VERTICAL FORCE.													
One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.													
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 .	12 ^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.
Aug. 31	20.2	20.2	19.7	18.8	20.0	21.1	18.9	18.8	19.8	19.5	19.8	19.8	—
1	—	—	—	—	—	—	—	—	—	—	—	—	18.5
2	17.1	18.9	18.3	18.3	19.0	19.9	20.1	19.7	19.4	18.8	18.8	18.8	19.2
3	19.1	19.1	18.6	16.5	17.1	18.7	18.4	18.4	18.4	18.1	18.2	18.2	18.4
4	20.3	19.5	18.9	18.2	18.5	19.8	18.6	18.9	18.9	18.9	18.3	18.3	18.0
5	18.6	17.1	15.5	15.5	17.6	18.6	18.3	17.8	17.5	17.5	17.2	17.2	17.2
6	16.0	15.5	16.1	16.5	16.2	16.4	16.4	17.1	17.5	15.9	15.0	14.9	14.9
7	12.3	12.9	14.3	15.0	14.6	16.5	16.7	16.7	14.9	14.4	14.4	14.4	—
8	—	—	—	—	—	—	—	—	—	—	—	—	14.9
9	11.6	11.3	12.8	14.1	14.7	14.7	14.5	15.2	14.6	14.7	14.0	15.0	15.0
10	11.0	11.6	12.8	14.4	14.5	14.5	13.9	13.9	14.4	14.7	14.9	14.9	14.9
11	14.1	13.4	13.9	15.0	15.6	15.6	15.4	15.7	16.1	15.6	16.7	15.9	15.8
12	12.9	13.2	14.1	14.9	16.3	17.2	17.2	17.2	17.1	16.6	15.7	16.2	16.2
13	16.9	17.3	17.0	17.1	17.3	17.3	16.8	17.0	17.0	17.0	16.7	16.7	15.6
14	16.1	14.6	14.6	14.6	16.8	18.0	17.3	17.2	16.1	15.7	16.2	16.2	—
15	—	—	—	—	—	—	—	—	—	—	—	—	16.7
16	13.2	13.9	14.1	16.4	17.2	17.7	16.9	16.1	15.4	15.4	15.3	16.2	17.9
17	14.8	14.8	14.1	15.8	16.2	16.7	16.5	16.3	16.2	16.0	15.9	16.1	15.8
18	12.7	12.6	13.9	16.3	16.8	16.8	16.2	15.3	15.3	14.9	14.5	14.5	14.5
19	13.5	13.5	14.2	14.1	14.4	15.1	15.0	14.5	14.8	15.1	14.4	14.2	14.5
20	12.6	13.9	14.0	14.0	17.1	20.1	18.0	18.4	15.8	18.7	16.0	11.5	12.4
21	12.6	14.8	13.9	14.6	16.5	17.9	18.1	16.1	15.1	15.3	15.0	15.2	—
22	—	—	—	—	—	—	—	—	—	—	—	—	15.8
23	13.0	13.6	14.2	14.9	15.4	15.8	15.3	14.9	13.6	13.6	13.2	13.3	13.0
24	10.6	9.9	10.9	13.0	13.0	13.3	13.7	13.9	13.3	12.8	12.9	13.2	12.7
25	9.8	9.8	11.9	11.9	12.9	15.3	15.5	15.1	15.1	16.6	17.4	17.6	17.8
26	13.8	9.6	12.8	15.4	22.5	21.4	19.6	19.8	25.6	15.1	15.9	13.9	11.8
27	14.4	12.8	13.6	14.5	15.6	15.8	14.2	14.6	14.2	14.6	12.8	12.4	11.6
28	7.9	8.9	9.2	11.3	11.3	12.6	12.6	10.8	9.7	9.8	10.2	10.3	—
29	—	—	—	—	—	—	—	—	—	—	—	—	7.3
30	5.0	6.0	11.9	14.5	14.7	16.4	13.1	9.7	9.7	10.1	8.8	9.6	9.1
Hourly Means	13.85	13.80	14.43	15.22	16.22	17.05	16.43	16.08	15.98	15.59	15.32	15.17	14.98

TEMPERATURE OF THE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	°
Aug. 31	57.5	57.7	57.6	57.9	58.1	57.9	57.8	57.6	57.3	57.2	57.2	57.0	—
1	—	—	—	—	—	—	—	—	—	—	—	—	55.9
2	55.8	56.0	56.3	56.3	56.5	56.4	56.6	56.4	56.3	56.0	55.8	55.6	55.5
3	55.3	55.6	55.8	56.2	56.5	56.7	56.6	56.6	56.5	56.5	56.4	56.4	56.2
4	56.3	56.4	56.7	57.0	57.0	57.1	57.4	57.4	57.1	57.0	56.5	56.4	56.2
5	55.1	55.6	55.8	56.1	56.4	56.6	56.7	56.8	56.7	56.7	56.7	56.6	56.5
6	56.4	56.8	57.3	57.8	58.2	58.6	58.7	58.8	58.8	58.8	58.8	58.7	58.7
7	58.7	58.9	59.2	59.4	59.5	59.5	59.7	59.7	59.7	59.6	59.4	59.3	—
8	—	—	—	—	—	—	—	—	—	—	—	—	60.0
9	59.1	59.4	59.8	60.0	60.1	60.3	60.5	60.5	60.4	60.2	60.1	59.8	59.6
10	59.1	59.4	59.7	59.8	60.0	60.0	59.9	59.9	59.8	59.6	59.5	59.3	59.1
11	58.2	58.2	58.1	58.1	58.0	57.8	57.8	57.7	57.5	57.5	57.6	57.6	57.6
12	57.6	57.7	58.0	58.2	58.3	58.3	58.3	58.2	58.0	57.9	57.7	57.5	57.2
13	55.9	56.0	56.4	56.6	56.8	56.9	57.1	57.1	57.2	57.2	57.2	57.1	57.1
14	57.5	57.6	57.6	57.7	57.8	57.7	57.6	57.4	57.3	57.1	56.9	56.8	—
15	—	—	—	—	—	—	—	—	—	—	—	—	56.8
16	57.2	57.5	57.8	58.2	58.5	58.6	58.5	58.4	58.3	58.3	58.3	58.4	58.4
17	58.5	58.9	59.2	59.3	59.5	59.5	59.5	59.3	59.1	59.0	58.8	58.7	58.7
18	58.5	59.0	59.3	59.7	60.1	60.5	60.6	60.8	60.8	60.8	60.8	60.8	60.7
19	60.6	60.8	61.3	61.7	61.8	62.0	61.9	61.8	61.6	61.5	61.4	61.3	61.3
20	61.3	61.7	61.9	62.1	62.2	62.0	62.2	62.0	61.9	61.7	61.5	61.1	60.9
21	60.5	60.8	61.0	61.2	61.2	61.2	61.0	60.9	60.8	60.7	60.2	60.0	—
22	—	—	—	—	—	—	—	—	—	—	—	—	59.3
23	59.8	60.2	60.9	61.3	61.8	62.0	62.3	62.3	62.4	62.5	62.5	62.5	62.5
24	62.4	62.6	62.6	63.0	63.2	63.2	63.1	63.0	62.8	62.8	62.7	62.5	62.4
25	61.8	61.9	62.0	61.9	61.7	61.5	61.2	60.8	60.6	60.2	59.8	59.4	59.2
26	58.7	58.9	59.4	59.7	60.0	60.5	60.5	60.6	60.5	60.8	60.8	60.8	60.5
27	60.0	60.4	60.9	61.2	61.8	62.0	62.1	62.0	61.8	61.7	61.4	61.4	61.3
28	61.2	62.0	62.6	63.4	63.9	64.4	64.5	64.5	64.5	64.5	64.1	63.9	—
29	—	—	—	—	—	—	—	—	—	—	—	—	62.3
30	62.5	62.5	62.5	63.0	63.0	62.9	62.8	62.7	62.8	62.8	62.8	62.6	62.5
Hourly Means	58.67	58.94	59.22	59.49	59.69	59.77	59.80	59.74	59.63	59.56	59.42	59.29	59.09

VERTICAL FORCE.

One Scale Division = .00017 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
Aug. 31	—	—	—	—	—	—	—	—	—	—	—	19.33
1	19.5	19.5	19.0	18.8	18.6	16.1	17.5	20.1	21.3	20.4	18.0	18.95
2	19.9	19.6	19.6	18.9	18.3	17.3	17.6	18.5	19.8	19.8	19.1	18.45
3	18.1	18.3	18.1	18.1	18.9	15.9	17.3	19.2	20.2	20.6	20.8	19.09
4	18.3	18.3	18.7	17.4	17.6	17.6	19.2	21.4	23.0	21.5	20.0	17.67
5	17.5	17.8	17.8	17.8	17.1	15.3	16.7	19.4	21.0	20.1	17.9	15.26
6	14.9	14.9	14.8	14.8	14.4	11.9	12.5	14.6	16.1	15.5	13.4	14.32
7	—	—	—	—	—	—	—	—	—	—	—	13.89
8	13.8	13.8	12.7	13.8	14.0	12.4	13.0	13.5	15.4	16.1	13.1	14.58
9	12.6	13.5	14.4	14.2	13.8	12.4	13.6	15.1	15.1	14.1	12.3	15.16
10	14.8	14.7	14.4	14.4	14.4	13.0	14.9	17.1	18.7	17.8	15.3	15.85
11	15.6	15.4	14.5	14.5	13.6	12.6	13.6	16.4	17.7	16.6	14.6	16.30
12	16.2	16.2	15.5	15.9	15.3	12.4	14.4	16.2	18.2	18.1	17.1	16.13
13	15.0	15.5	15.5	15.1	15.3	14.5	15.1	15.8	16.6	16.4	16.7	15.76
14	—	—	—	—	—	—	—	—	—	—	—	15.84
15	17.3	17.0	16.6	16.4	15.6	14.3	15.2	16.4	18.2	16.3	13.7	14.86
16	17.4	16.9	16.8	15.5	14.5	13.0	13.7	16.6	17.5	16.6	14.1	14.05
17	15.6	16.9	16.0	16.1	14.6	13.5	14.7	16.2	18.8	17.7	14.8	14.91
18	14.5	14.5	15.1	15.4	14.8	13.5	14.3	15.7	16.6	15.2	12.7	15.25
19	14.5	15.8	15.3	15.2	14.3	12.7	12.3	12.3	12.6	11.8	13.2	14.12
20	13.9	13.9	13.8	13.8	14.6	14.6	15.7	14.4	14.4	13.2	13.0	12.74
21	—	—	—	—	—	—	—	—	—	—	—	14.52
22	15.1	15.0	15.0	15.0	14.6	13.6	15.9	18.1	16.0	14.3	12.6	15.90
23	13.7	13.3	13.3	13.3	13.3	12.3	14.8	16.0	16.2	15.1	13.7	13.55
24	12.7	12.7	12.4	11.9	12.2	13.1	13.7	15.0	15.5	12.9	11.3	9.64
25	17.9	13.8	13.8	14.6	14.3	14.2	15.3	15.7	12.6	14.4	15.2	10.91
26	12.4	12.8	13.3	14.1	13.4	13.0	14.4	16.1	17.7	18.4	18.8	15.27
27	12.0	12.5	12.0	13.3	12.1	12.7	13.5	15.1	15.3	14.5	11.0	
28	—	—	—	—	—	—	—	—	—	—	—	
29	8.2	9.8	8.8	9.1	9.1	9.9	10.1	10.3	9.7	7.6	6.8	
30	8.2	5.3	7.7	6.9	6.6	9.0	14.7	16.9	17.4	15.4	15.1	
Hourly Means	14.98	14.91	14.80	14.78	14.43	13.49	14.76	16.23	16.98	16.17	14.78	15.27

TEMPERATURE OF THE MAGNET.

Aug. 31	°	°	°	°	°	°	°	°	°	°	°	°
1	55.9	55.9	55.8	55.6	55.5	55.1	55.1	55.2	55.2	55.3	55.6	56.54
2	55.4	55.3	55.2	55.0	54.9	54.6	54.5	54.5	54.5	54.8	55.0	55.55
3	56.1	56.1	56.2	56.1	56.0	56.0	56.0	56.0	56.1	56.2	56.3	56.18
4	56.1	55.8	55.6	55.3	55.1	54.8	54.7	54.7	54.7	54.8	55.0	56.05
5	56.5	56.3	56.1	55.8	55.6	55.3	55.2	55.2	55.3	55.7	55.9	56.05
6	58.6	58.6	58.5	58.5	58.5	58.3	58.4	58.4	58.4	58.5	58.6	58.32
7	—	—	—	—	—	—	—	—	—	—	—	59.25
8	59.8	59.7	59.5	59.2	59.0	58.8	58.7	58.6	58.7	58.5	58.9	59.45
9	59.4	59.1	59.1	59.0	58.9	58.6	58.4	58.5	58.5	58.7	58.9	58.89
10	58.8	58.5	58.3	58.1	57.9	57.7	57.6	57.6	57.8	57.9	58.1	57.55
11	57.6	57.5	57.1	57.1	57.0	57.2	57.1	57.1	57.2	57.2	57.4	57.05
12	56.9	56.7	56.4	56.3	56.0	55.8	55.7	55.5	55.4	55.6	56.0	56.96
13	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.0	57.1	57.2	57.4	56.96
14	—	—	—	—	—	—	—	—	—	—	—	56.98
15	56.8	56.6	56.7	56.6	56.5	56.3	56.2	56.3	56.4	56.5	56.8	58.20
16	58.3	58.3	58.3	58.2	58.1	58.0	58.1	58.1	58.1	58.3	58.5	58.58
17	58.5	58.3	58.1	57.9	57.8	57.8	57.7	57.7	57.8	58.1	58.3	60.04
18	60.6	60.5	60.2	59.9	59.6	59.4	59.4	59.5	59.6	59.8	60.1	61.23
19	61.2	61.2	61.2	61.2	61.0	60.9	60.7	60.7	60.5	60.8	61.0	61.05
20	60.8	60.5	60.6	60.4	60.2	60.0	59.9	59.9	59.9	60.2	60.4	59.86
21	—	—	—	—	—	—	—	—	—	—	—	61.81
22	59.2	59.2	59.0	58.8	58.7	58.7	58.6	58.6	58.8	59.0	59.2	62.33
23	62.4	62.2	62.1	61.9	61.8	61.6	61.6	61.5	61.5	61.6	61.7	59.60
24	62.2	62.1	62.1	61.9	61.8	61.6	61.5	61.5	61.6	61.6	61.7	59.65
25	58.8	58.6	58.3	58.0	57.8	57.6	57.5	57.6	58.0	58.1	58.2	60.82
26	60.0	59.8	59.7	59.4	58.9	58.6	58.4	58.3	58.5	59.0	59.4	62.86
27	61.0	60.8	60.3	60.1	59.8	59.7	59.7	59.7	59.8	60.1	60.7	62.36
28	—	—	—	—	—	—	—	—	—	—	—	
29	62.3	62.2	62.1	62.0	62.0	62.0	62.0	62.0	62.0	62.1	62.2	
30	62.4	62.3	62.1	62.0	61.9	61.7	61.7	61.7	61.7	61.8	62.0	
Hourly Means	58.95	58.82	58.68	58.52	58.36	58.20	58.13	58.13	58.20	58.37	58.60	58.97

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
OCTOBER.	1	11.3	13.8	13.4	14.6	20.7	14.2	16.8	6.4	18.1	12.1	8.5	10.2	9.0
	2	6.3	7.7	10.2	12.7	13.7	12.7	15.0	19.9	14.7	11.2	10.0	10.2	11.5
	3	6.5	6.8	10.4	14.0	13.2	12.6	11.6	11.6	11.1	11.1	10.8	10.8	10.4
	4	7.3	7.0	9.0	11.5	13.2	12.7	12.1	11.4	11.3	10.6	9.5	10.9	9.4
	5	7.2	6.8	7.5	9.7	11.1	11.1	11.4	12.0	11.5	10.4	11.0	11.0	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	10.2
	7	5.6	6.9	9.5	11.2	12.6	11.9	12.2	11.8	11.3	11.6	11.6	10.3	11.3
	8	6.5	7.4	10.5	12.3	12.5	12.4	12.1	12.0	11.2	11.1	11.6	11.6	11.6
	9	8.5	10.1	11.4	12.6	12.6	12.6	11.9	11.2	11.2	11.2	11.2	10.8	10.7
	10	4.8	5.9	7.8	9.0	10.9	9.8	8.6	8.8	9.4	8.8	8.6	8.6	8.6
	11	4.1	5.4	6.8	8.5	8.9	8.2	7.3	7.3	7.3	7.3	7.0	7.2	7.2
	12	2.0	2.0	3.8	6.9	8.9	8.9	7.4	7.4	6.8	6.7	6.7	6.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	7.2
	14	0.7	1.2	3.5	5.2	6.1	5.2	4.8	4.8	4.2	4.6	4.9	6.1	6.1
	15	-0.9	0.4	3.3	5.8	7.0	7.4	6.5	5.7	5.5	5.5	5.4	6.3	7.1
	16	1.7	2.6	4.6	6.6	7.6	7.5	7.3	6.8	6.6	6.6	6.6	6.9	7.3
	17	3.1	5.2	6.9	8.4	10.9	11.2	11.2	10.8	10.1	9.7	10.0	10.1	10.0
	18	5.9	7.5	8.9	9.6	10.9	10.9	10.4	9.2	7.6	7.6	7.2	7.2	7.5
	19	3.0	6.0	7.3	8.4	9.3	8.3	7.5	7.5	7.5	7.8	7.1	8.3	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	6.4
	21	10.4	8.2	10.6	11.2	9.6	8.3	4.8	4.0	4.4	1.7	2.9	3.8	5.8
	22	-0.4	2.3	4.4	5.6	6.9	4.7	3.3	3.6	4.0	4.8	4.0	4.0	3.7
	23	-1.6	-1.6	1.1	4.4	6.4	4.9	4.1	4.5	3.9	3.2	3.5	3.8	3.2
	24	0.0	-0.2	2.7	4.6	4.3	3.2	2.8	3.2	3.2	3.2	4.0	4.0	4.3
	25	-2.1	-0.9	1.7	5.6	5.8	3.4	2.0	2.0	4.8	10.4	5.6	3.7	2.2
	26	-1.8	-1.3	0.2	4.5	9.3	9.8	4.7	2.0	3.7	3.7	8.0	1.3	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	2.3
	28	2.3	1.9	3.3	6.0	6.9	7.6	6.8	6.7	7.1	7.1	7.2	7.6	5.1
	29	0.3	0.3	1.5	3.4	6.8	5.2	3.2	3.2	5.1	2.3	3.7	3.0	4.5
	30	-3.5	-2.7	-2.7	-0.3	3.5	4.0	2.7	2.4	1.8	1.8	1.1	1.8	1.5
	31	-5.9	-5.9	-4.1	0.9	1.8	2.5	2.9	4.6	3.8	1.2	3.1	3.3	3.0
Hourly Means	3.01	3.81	5.69	7.89	9.31	8.56	7.83	7.44	7.67	7.16	7.07	7.02	6.93	
TEMPERATURE OF THE MAGNET.														
OCTOBER.	1	62.3	62.5	62.7	62.8	63.0	63.1	63.2	63.3	63.4	63.4	62.9	62.5	62.2
	2	60.9	61.2	61.5	61.7	61.8	61.9	61.8	61.8	61.7	61.6	61.3	61.0	60.9
	3	60.8	61.2	61.4	61.7	61.9	61.9	62.0	62.1	62.3	62.4	62.2	62.1	62.0
	4	61.9	62.1	62.4	62.5	62.6	62.7	62.8	62.7	62.9	62.9	62.6	62.4	62.3
	5	62.4	62.6	62.9	63.2	63.4	63.5	63.6	63.5	63.4	63.2	63.2	62.9	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	62.2
	7	61.2	61.2	61.3	61.4	61.4	61.2	61.0	60.8	60.8	60.7	60.3	59.9	59.7
	8	59.7	59.9	60.1	60.4	60.5	60.5	60.4	60.3	60.3	60.4	59.9	59.8	59.6
	9	59.8	60.0	60.5	60.7	60.8	60.9	60.9	60.9	60.8	60.8	60.8	60.8	60.9
	10	62.3	62.9	63.3	63.8	64.1	64.1	64.1	64.0	63.8	63.6	63.5	63.3	63.2
	11	63.8	64.0	64.2	64.4	64.6	64.7	64.7	64.6	64.8	64.6	64.6	64.4	64.1
	12	63.9	64.1	64.5	64.6	64.7	64.6	64.2	64.1	63.7	63.5	63.4	63.2	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	63.9
	14	64.9	65.3	66.0	66.6	67.1	67.4	67.5	67.6	67.9	67.6	67.1	66.9	66.6
	15	65.6	65.8	65.8	65.8	65.8	65.8	65.5	65.2	65.2	64.9	64.6	64.3	64.1
	16	63.3	63.4	63.6	63.7	63.7	63.7	63.5	63.3	63.1	62.6	62.5	62.4	62.2
	17	59.8	59.7	59.7	59.6	59.6	59.3	59.3	59.2	59.0	58.8	58.8	58.7	58.6
	18	59.1	59.3	59.5	59.8	60.0	60.1	60.0	60.0	60.2	60.1	59.8	59.6	59.4
	19	59.4	59.9	60.3	60.5	60.8	60.9	60.8	60.7	60.6	60.5	60.1	60.0	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	61.2
	21	61.7	62.2	62.6	62.8	63.0	63.1	63.0	62.8	62.8	62.7	62.5	62.2	62.0
	22	62.7	63.1	63.6	64.1	64.6	65.0	65.0	65.1	65.0	64.7	64.6	64.4	64.2
	23	63.8	64.3	64.5	64.9	65.1	65.2	65.4	65.3	65.2	65.1	64.8	64.8	64.7
	24	64.0	64.3	64.6	65.1	65.3	65.3	65.2	65.0	64.9	64.8	64.6	64.4	64.4
	25	64.3	64.7	65.2	65.6	65.8	66.1	66.3	66.3	66.2	65.8	65.8	65.6	65.3
	26	65.0	65.2	65.4	65.5	65.6	65.5	65.1	64.8	64.4	64.0	63.5	63.2	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	60.8
	28	60.8	61.1	61.5	61.7	61.9	62.0	62.0	61.8	61.5	61.4	61.4	61.2	61.0
	29	62.3	62.8	63.3	63.5	63.8	64.0	63.8	63.7	63.6	63.4	63.5	63.4	63.3
	30	64.4	64.8	65.1	65.4	65.7	65.7	65.6	65.5	65.2	65.0	64.9	64.8	64.6
	31	65.1	65.3	65.6	65.7	65.7	65.7	65.5	65.2	64.9	64.6	64.2	64.1	63.9
Hourly Means	62.41	62.70	63.00	63.24	63.42	63.48	63.41	63.82	63.24	63.08	62.87	62.68	62.49	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
OCTOBER.	1	9.0	8.3	9.0	9.4	9.9	8.8	9.0	10.5	10.1	8.4	7.1	11.19
	2	9.8	11.2	11.6	11.4	11.4	11.0	11.9	12.3	11.5	10.1	8.2	11.51
	3	10.8	11.6	10.7	10.4	9.3	8.8	8.8	10.9	11.8	10.9	9.8	10.61
	4	9.8	10.2	10.7	10.7	10.0	8.6	9.5	12.5	13.1	11.6	9.0	10.48
	5	—	—	—	—	—	—	—	—	—	—	—	10.12
	6	10.2	10.3	10.5	10.8	9.8	10.1	11.1	12.9	12.6	8.2	5.6	10.66
	7	12.2	12.5	10.5	11.5	11.2	11.2	11.2	11.8	10.4	8.5	7.0	11.04
	8	11.2	12.0	11.3	11.3	11.7	11.7	11.7	11.2	10.9	9.9	9.2	10.43
	9	10.7	11.0	10.6	10.6	10.5	12.3	12.0	9.8	7.3	5.2	4.3	8.29
	10	8.4	8.4	8.8	8.2	7.8	8.9	10.9	10.9	7.8	5.4	3.8	7.14
	11	7.2	7.2	6.8	6.4	6.1	6.1	8.7	9.8	9.2	6.8	4.5	6.15
	12	—	—	—	—	—	—	—	—	—	—	—	4.78
	13	6.8	5.8	5.3	5.8	6.2	6.3	7.9	7.9	7.3	4.5	2.4	5.60
	14	5.3	5.0	5.3	6.0	6.2	6.2	6.2	6.4	6.6	3.7	0.4	6.62
	15	7.5	6.8	6.8	6.6	6.9	8.4	9.0	8.4	5.8	1.9	1.3	9.51
	16	7.8	6.8	7.6	8.1	7.5	7.9	9.3	9.7	7.8	4.5	3.1	8.22
	17	9.8	9.8	10.1	10.2	10.5	10.5	12.0	13.0	10.0	7.6	7.2	7.90
	18	7.5	8.0	8.0	8.2	9.5	9.6	9.7	9.4	8.7	5.9	2.5	5.80
	19	—	—	—	—	—	—	—	—	—	—	—	4.07
	20	7.2	10.7	7.3	9.9	9.2	13.3	5.0	5.7	7.2	9.9	9.8	4.11
	21	6.9	7.1	7.1	5.3	7.3	7.6	7.6	4.6	3.2	-2.1	-1.1	3.93
	22	4.2	4.6	3.0	4.2	5.1	6.6	7.5	7.5	3.3	0.5	0.2	2.52
	23	2.5	3.4	4.3	4.4	4.6	5.4	8.0	9.2	8.4	5.6	3.1	5.67
	24	4.3	4.3	4.3	4.1	6.2	6.2	6.9	7.6	6.7	2.9	1.6	5.89
	25	—	2.7	3.6	4.0	1.5	5.6	4.1	-0.4	-2.2	-4.0	1.3	3.38
	26	—	—	—	—	—	—	—	—	—	—	—	1.30
	27	7.8	9.8	8.6	7.1	9.2	10.2	12.1	10.7	8.9	4.0	1.4	2.24
	28	6.5	7.1	7.1	4.9	5.2	6.6	7.6	8.8	6.7	3.5	1.8	—
	29	4.0	4.0	3.1	1.9	2.5	3.7	6.6	7.3	5.9	1.2	-1.5	—
	30	1.5	1.5	1.7	2.3	2.1	3.3	4.4	5.0	3.8	-1.3	-4.4	—
	31	4.0	3.5	3.7	4.2	4.2	5.1	6.4	5.2	4.6	2.1	-0.5	—
Hourly Means	7.14	7.54	7.31	7.33	7.47	8.15	8.71	8.84	7.68	5.01	3.60	7.01	

TEMPERATURE OF THE MAGNET.

OCTOBER.	1	61.8	61.5	61.1	60.9	60.6	60.5	60.4	60.3	60.3	60.4	60.6	61.90
	2	60.7	60.4	60.4	60.1	59.8	59.7	59.6	59.7	59.9	60.2	60.4	60.83
	3	61.9	61.9	61.7	61.7	61.6	61.6	61.6	61.5	61.5	61.7	61.8	61.77
	4	62.1	62.0	61.9	61.8	61.7	61.6	61.6	61.5	61.7	61.8	61.9	62.18
	5	—	—	—	—	—	—	—	—	—	—	—	62.30
	6	62.1	61.8	61.8	61.6	61.5	61.2	61.1	61.0	60.9	61.0	61.1	62.30
	7	59.5	59.2	59.1	58.9	58.8	58.7	58.7	58.7	58.8	59.1	59.3	59.99
	8	59.3	59.1	59.0	58.9	58.8	58.5	58.5	58.6	58.9	59.1	59.5	59.58
	9	60.9	60.8	60.6	60.6	60.5	60.5	60.5	60.6	60.8	61.2	61.6	60.72
	10	62.9	62.9	62.8	62.8	62.6	62.5	62.6	62.9	63.1	63.3	63.5	63.25
	11	63.8	63.7	63.5	63.3	63.2	63.0	63.0	63.1	63.2	63.3	63.6	63.93
	12	—	—	—	—	—	—	—	—	—	—	—	63.88
	13	63.8	63.8	63.6	63.5	63.5	63.5	63.5	63.5	63.7	63.9	64.3	63.88
	14	66.1	66.0	65.8	65.6	65.4	65.1	65.1	65.2	65.2	65.4	65.5	66.20
	15	63.7	63.5	63.2	63.0	62.9	62.8	62.8	62.8	62.8	63.0	63.1	64.25
	16	61.9	61.6	61.3	61.1	61.0	60.9	60.9	60.3	60.2	59.9	59.8	62.07
	17	58.5	58.4	58.1	58.0	57.8	57.8	57.8	58.0	58.1	58.5	58.8	58.75
	18	59.2	59.0	58.8	58.6	58.5	58.5	58.5	58.5	58.6	58.8	59.0	59.29
	19	—	—	—	—	—	—	—	—	—	—	—	60.65
	20	61.0	60.9	60.8	60.9	60.8	60.6	60.6	60.7	60.9	61.2	61.4	62.06
	21	61.8	61.5	61.4	61.3	61.1	61.1	61.1	61.3	61.6	61.8	62.1	62.06
	22	64.0	63.7	63.6	63.2	63.1	63.0	63.0	63.1	63.1	63.5	63.7	63.88
	23	64.6	64.4	64.2	63.9	63.8	63.7	63.7	63.7	63.6	63.7	63.9	64.43
	24	64.2	64.1	63.9	63.8	63.7	63.7	63.7	63.7	63.8	63.8	64.0	64.35
	25	65.2	65.0	65.1	64.9	64.8	64.6	64.5	64.5	64.6	64.6	64.8	65.23
	26	—	—	—	—	—	—	—	—	—	—	—	62.38
	27	60.5	60.4	60.0	59.8	59.6	59.5	59.4	59.6	59.8	60.0	60.4	62.38
	28	60.8	60.8	60.6	60.5	60.4	60.6	60.6	60.8	61.0	61.4	61.7	61.19
	29	63.1	63.0	62.8	62.8	62.6	62.7	62.8	63.0	63.3	63.7	64.0	63.26
	30	64.5	64.5	64.4	64.3	64.2	64.3	64.3	64.2	64.4	64.7	64.8	64.80
	31	63.8	63.8	63.7	63.6	63.4	63.2	63.3	63.4	63.6	63.9	64.3	64.40
Hourly Means	62.29	62.14	61.97	61.83	61.69	61.61	61.59	61.64	61.76	61.91	62.18	62.50	

VERTICAL FORCE.															
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fabt. = .00005.															
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 .	12 ^h .		
NOVEMBER.	1	Sc. Div. -4.6	Sc. Div. -5.4	Sc. Div. -3.1	Sc. Div. -1.3	Sc. Div. 1.5	Sc. Div. 2.6	Sc. Div. 2.6	Sc. Div. 5.1	Sc. Div. 2.5	Sc. Div. 0.6	Sc. Div. 0.6	Sc. Div. -1.1	Sc. Div. 0.7	
	2	-4.7	-4.7	-1.1	1.6	1.7	3.1	5.3	3.2	2.6	2.6	2.8	-1.6	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	2.8	
	4	-4.3	-4.3	0.0	1.9	4.9	4.9	1.5	2.3	1.6	2.6	1.4	1.4	1.4	2.0
	5	-0.7	-0.7	-0.9	-0.3	-0.3	-1.4	-1.8	-1.7	-0.9	-0.9	-0.9	-0.7	0.0	0.0
	6	-1.5	-2.9	-1.4	1.7	1.8	3.6	4.1	4.6	2.2	2.2	1.7	1.7	0.6	0.6
	7	-6.9	-4.6	-1.8	-0.2	1.6	1.6	1.6	3.2	3.5	2.0	2.2	1.7	1.4	1.4
	8	-1.0	-1.0	0.9	3.3	4.1	3.8	2.3	1.4	1.7	2.3	2.5	3.0	3.3	3.3
	9	-3.4	-1.7	0.0	1.1	1.7	0.4	-1.1	-0.7	0.0	0.0	0.0	0.7	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
	11	-0.8	0.9	1.5	3.4	2.4	6.7	6.8	7.1	4.1	6.6	6.2	5.3	3.4	3.4
	12 ^a	-6.5	-7.6	-5.9	-4.3	0.7	6.2	0.2	-2.7	-1.0	-0.7	-0.7	-0.5	0.5	0.5
	13 ^a	—	—	—	—	—	5.5	5.4	5.4	5.4	5.4	8.2	9.0	8.3	8.3
	14	4.1	3.5	7.2	10.3	12.9	13.5	13.2	13.0	12.5	11.9	11.5	11.7	12.1	12.1
	15	4.1	4.4	6.0	8.1	9.7	10.6	10.6	10.6	11.2	11.2	10.9	10.9	10.8	10.8
	16	17.0	15.6	13.6	12.6	9.7	21.7	22.4	20.3	24.7	14.6	11.0	11.8	—	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	10.1	10.1
	18	8.2	5.7	5.9	4.8	6.6	8.2	8.3	9.1	6.3	9.8	8.4	10.0	8.8	8.8
	19	8.9	9.0	10.2	11.5	12.2	9.9	9.9	9.1	8.9	10.6	9.0	10.0	10.8	10.8
	20	9.9	8.7	8.3	8.6	8.6	9.9	9.5	9.1	9.3	11.5	10.9	10.6	10.4	10.4
	21	8.3	8.0	8.8	10.8	10.8	10.8	10.0	10.0	10.0	10.0	10.0	9.8	10.6	10.6
	22 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	23 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	24 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	25 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	26 ^c	45.3	43.9	43.8	44.6	45.8	45.3	44.7	44.7	44.7	45.2	45.2	45.4	45.4	45.4
	27 ^c	49.5	39.5	38.6	38.6	39.4	40.6	41.5	40.8	40.8	41.3	42.1	45.0	47.7	47.7
	28 ^c	36.6	38.7	45.0	48.9	48.3	47.3	44.7	46.0	44.6	43.5	43.5	45.7	46.5	46.5
	29 ^c	40.5	39.9	41.6	43.7	48.9	49.9	48.3	46.3	46.3	46.2	45.7	44.9	45.9	45.9
Hourly Means	10.22	9.62	11.15	12.68	13.61	14.65	14.22	14.17	13.83	13.66	13.23	13.31	13.78	13.78	

TEMPERATURE OF THE MAGNET.														
NOVEMBER.	1	64.6	65.3	65.7	66.1	66.5	66.7	66.8	66.8	66.8	66.6	66.5	66.1	65.8
	2	65.0	65.1	65.1	65.3	65.3	65.2	65.2	64.8	64.5	64.3	63.9	63.7	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	63.3
	4	64.1	64.4	64.4	64.7	64.9	64.9	64.9	64.7	64.5	64.3	64.2	64.1	64.0
	5	65.5	65.8	66.6	66.8	67.5	67.8	67.8	68.0	68.0	67.7	67.7	67.6	67.4
	6	65.4	65.6	65.7	65.7	65.7	65.6	65.6	65.4	65.2	65.0	64.7	64.5	64.4
	7	64.3	64.4	64.7	64.8	65.0	65.2	65.1	64.9	64.8	64.6	64.4	64.3	64.1
	8	64.2	64.5	64.7	65.0	64.9	64.7	64.6	64.4	64.0	63.6	63.3	63.0	62.6
	9	63.1	63.8	64.3	65.0	65.3	65.7	65.8	65.8	65.7	65.6	65.6	65.4	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	61.7
	11	61.1	61.6	62.2	62.5	62.8	63.0	62.8	62.8	62.6	62.5	62.3	62.2	62.1
	12 ^a	63.5	64.1	64.7	65.2	65.7	65.7	66.3	66.4	66.4	66.2	65.8	65.7	65.6
	13 ^a	65.3	65.6	65.8	65.8	65.8	66.1	66.0	65.8	65.7	65.5	65.2	64.9	64.8
	14	62.4	62.6	63.0	63.0	63.1	63.2	63.1	63.1	63.0	62.8	62.6	62.6	62.5
	15	62.7	63.0	63.3	63.5	63.6	63.7	63.7	63.7	63.6	63.3	63.3	63.1	62.9
	16	63.0	63.4	63.7	63.9	64.1	64.1	64.1	64.0	63.7	63.5	63.4	63.3	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	64.8
	18	65.6	65.9	66.5	67.1	67.4	67.6	67.8	67.8	67.6	67.4	67.1	67.0	66.8
	19	66.6	66.9	66.9	67.0	67.1	67.0	66.9	66.7	66.5	66.0	65.6	65.3	65.2
	20	64.6	64.7	64.8	65.0	65.1	65.2	65.2	65.1	65.1	65.0	64.8	64.8	64.7
	21	64.6	64.8	65.0	65.3	65.5	65.5	65.4	65.3	65.0	64.8	64.6	64.1	63.8
	22	—	—	—	—	—	—	—	—	—	—	—	—	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	—
	26 ^c	68.0	68.3	69.0	69.5	69.8	70.1	70.3	70.2	70.1	69.9	69.9	69.9	69.8
	27 ^c	70.4	70.8	71.3	71.9	72.2	72.6	72.8	72.8	72.7	72.5	72.3	71.9	71.6
	28 ^c	70.6	70.8	71.1	71.3	71.3	71.3	71.1	70.5	70.3	70.1	69.8	69.5	69.2
	29 ^c	69.0	69.3	69.5	69.5	69.5	69.4	69.1	68.7	68.5	68.1	67.8	67.8	67.8
Hourly Means	65.20	65.55	65.88	66.15	66.33	66.43	66.41	66.28	66.22	65.88	65.69	65.51	65.23	

^a Omitted in the means.

^b Making temperature experiments.

^c Omitted in the daily means; the instrument was adjusted on the 26th, after the conclusion of the

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah^t. = .00005.

Mean Göttingen Time.	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.
1	2.0	2.5	0.4	1.7	3.8	3.8	4.9	4.1	2.4	-0.1	-2.6	0.96
2	—	—	—	—	—	—	—	—	—	—	—	—
3	3.0	3.4	3.3	4.6	4.6	4.8	5.3	6.1	3.6	-0.8	-3.3	2.01
4	0.6	1.7	2.3	2.6	3.1	5.2	7.3	7.3	6.0	3.1	1.5	2.36
5	-1.0	-0.6	-1.2	-0.2	2.0	4.1	4.9	3.7	-0.8	-2.3	-2.3	-0.20
6	1.8	1.8	2.4	2.4	3.4	5.0	5.4	4.0	-0.5	-8.2	-9.1	1.12
7	1.4	2.2	2.2	2.2	3.6	5.2	6.0	1.0	-2.9	-1.5	-1.0	0.99
8	3.7	3.6	4.1	4.1	5.4	7.1	9.1	8.7	3.7	-1.9	-3.4	2.95
9	—	—	—	—	—	—	—	—	—	—	—	—
10	2.7	3.7	5.2	5.6	6.5	9.3	11.7	11.3	6.3	1.1	-1.6	2.55
11	4.8	3.7	3.1	4.8	4.8	3.3	2.7	4.0	2.4	0.4	-4.0	3.48
12 ^a	-0.4	0.1	—	—	—	—	—	—	—	—	—	—
13 ^a	9.3	9.1	8.9	8.1	9.1	10.2	9.2	8.2	12.9	10.9	4.5	—
14	12.5	12.5	12.5	12.8	13.5	14.1	13.4	11.6	8.0	5.2	3.0	10.69
15	10.4	9.9	10.1	11.1	11.4	10.0	12.3	14.3	18.1	13.6	12.6	10.54
16	—	—	—	—	—	—	—	—	—	—	—	—
17	9.6	10.3	11.0	11.8	13.0	12.9	11.1	10.5	10.1	8.2	7.6	13.38
18	8.9	8.9	9.1	7.9	8.6	10.7	8.9	2.2	0.7	2.3	3.8	7.17
19	9.5	10.3	10.3	11.6	13.2	13.7	13.2	12.8	11.6	11.8	11.0	10.80
20	11.5	11.5	11.2	11.2	12.4	12.6	11.9	10.7	9.3	9.3	8.4	10.22
21	10.9	11.3	9.2	10.8	12.9	13.5	12.9	11.1	8.9	6.4	4.6	10.02
22 ^b	—	—	—	—	—	—	—	—	—	—	—	—
23 ^b	—	—	—	—	—	—	—	—	—	—	—	—
24 ^b	—	—	—	—	—	—	—	—	—	—	—	—
25 ^b	—	—	—	—	—	—	—	—	—	—	—	—
26 ^c	46.7	47.2	46.7	47.1	47.5	48.8	50.4	52.3	49.0	49.0	44.4	—
27 ^c	46.5	48.1	46.5	46.2	47.2	46.5	48.1	46.4	43.6	42.0	42.1	—
28 ^c	45.9	45.9	45.2	46.2	49.2	45.3	45.3	48.8	47.9	45.7	42.0	—
29 ^c	46.3	47.0	47.3	47.0	49.3	49.2	49.1	48.5	46.9	43.5	42.4	—
Hourly Means	13.88	14.24	14.04	14.57	15.77	16.25	16.69	15.97	13.71	11.34	9.80	13.52

TEMPERATURE OF THE MAGNET.

1	65.5	65.2	64.8	64.6	64.3	64.2	64.1	64.3	64.5	64.6	64.7	65.46
2	—	—	—	—	—	—	—	—	—	—	—	—
3	63.1	63.0	62.8	62.6	62.6	62.5	62.6	63.1	63.2	63.5	63.7	63.89
4	63.8	63.8	63.8	63.6	63.6	63.6	63.7	63.8	64.1	64.5	64.9	64.22
5	67.1	66.8	66.5	66.1	65.7	65.5	65.4	65.4	65.4	65.3	65.4	66.62
6	64.1	64.0	64.0	63.8	63.8	63.6	63.5	63.5	63.6	63.9	64.1	64.60
7	63.9	63.8	63.6	63.5	63.4	63.3	63.2	63.3	63.4	63.7	63.8	64.15
8	62.4	62.4	61.9	61.7	61.4	61.4	61.5	61.5	61.9	62.2	62.7	63.10
9	—	—	—	—	—	—	—	—	—	—	—	—
10	61.5	61.1	60.7	60.4	60.3	60.0	60.0	60.0	60.3	60.6	60.9	62.86
11	62.0	61.8	61.6	61.6	61.6	61.6	61.8	61.9	62.1	62.5	63.0	62.17
12 ^a	65.2	65.0	65.0	64.8	64.7	64.5	64.4	64.5	64.6	65.0	65.1	—
13 ^a	64.4	64.3	64.0	63.6	63.3	62.9	62.7	62.6	62.5	63.0	62.4	—
14	62.3	62.2	62.0	62.0	61.8	61.9	61.9	62.0	62.1	62.2	62.5	62.50
15	62.7	62.6	62.3	62.1	62.1	61.9	61.9	62.0	62.1	62.4	62.7	62.84
16	—	—	—	—	—	—	—	—	—	—	—	—
17	64.7	64.5	64.4	64.3	64.3	64.4	64.4	64.5	64.7	64.8	65.1	64.13
18	66.8	66.7	66.6	66.6	66.5	66.2	66.2	66.2	66.3	66.4	66.5	66.78
19	64.8	64.5	64.4	64.1	64.0	63.8	63.7	63.9	64.2	64.3	64.4	65.41
20	64.5	64.3	64.1	63.8	63.9	63.8	63.8	63.8	63.9	64.0	64.3	64.51
21	63.7	63.5	63.1	62.8	62.7	62.6	62.6	62.8	63.0	63.3	63.8	64.07
22	—	—	—	—	—	—	—	—	—	—	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—
26 ^c	69.6	69.4	69.1	69.0	68.8	68.6	68.6	68.8	69.2	69.5	69.8	—
27 ^c	71.3	70.8	70.5	70.3	70.1	69.9	69.8	69.8	69.9	70.3	70.4	—
28 ^c	68.9	68.7	68.2	68.0	67.8	67.8	67.9	68.0	68.4	68.7	68.8	—
29 ^c	67.7	67.6	67.7	67.7	67.5	67.3	67.2	67.2	67.3	67.4	67.5	—
Hourly Means	65.02	64.84	64.61	64.43	64.31	64.20	64.19	64.29	64.48	64.70	64.95	65.30

^a Omitted in the means. ^b Making temperature experiments. temperature experiments, the North end of the needle to the East, being the reverse of its position heretofore.

		VERTICAL FORCE.												
		One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.												
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 .	12 ^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.
Nov.	30	40.7	40.3	40.7	42.5	44.1	45.6	46.6	45.0	45.1	45.1	45.5	44.7	—
	1	—	—	—	—	—	—	—	—	—	—	—	—	48.4
	2	40.5	40.2	40.6	43.5	45.4	48.1	46.4	45.9	45.9	46.9	46.2	46.5	46.7
	3	43.1	42.0	43.0	43.9	45.0	45.8	45.8	45.8	46.2	46.1	46.3	46.3	46.7
	4	31.8	35.3	43.5	41.9	42.3	42.3	44.2	45.1	49.0	44.0	43.3	44.8	42.3
	5	38.5	40.0	40.6	41.6	41.6	41.3	40.8	41.3	42.5	42.0	42.0	42.6	42.1
	6	36.0	37.5	40.2	41.3	41.0	40.3	41.4	42.6	42.2	42.2	42.7	41.8	42.4
	7	36.6	38.5	42.1	44.0	43.7	42.7	42.1	42.1	42.8	42.8	43.7	44.1	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	42.8
	9	37.0	39.0	40.6	43.0	44.6	44.3	43.6	44.4	43.9	44.4	44.4	44.3	45.0
	10	41.5	41.2	42.5	43.9	46.3	44.3	42.3	41.7	42.4	43.7	44.9	45.7	46.1
	11	37.7	38.0	40.6	42.5	43.9	41.4	41.3	41.1	41.6	42.8	43.1	43.1	43.8
	12	38.2	39.2	42.1	44.9	46.1	45.0	44.1	44.5	43.4	43.8	44.5	44.7	45.0
	13	34.3	35.5	39.3	40.6	42.2	41.7	40.2	39.3	39.6	40.0	40.2	40.7	41.0
	14	32.8	34.9	38.3	40.9	40.0	40.4	47.0	52.3	49.7	43.5	40.2	38.4	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	43.7
	16	39.6	41.8	43.3	43.1	46.1	48.0	47.0	45.5	43.8	44.2	43.6	43.9	44.1
	17	43.8	43.8	44.2	43.9	43.0	43.6	44.1	44.1	44.1	44.1	43.9	44.6	44.6
	18	43.8	43.3	43.9	44.8	43.7	42.8	43.8	44.4	44.4	43.8	43.1	43.1	44.7
	19	38.6	37.6	37.2	37.9	41.2	39.1	42.5	40.3	38.1	37.1	37.5	42.0	40.4
	20	35.9	39.2	41.1	42.7	44.8	42.3	39.8	38.4	39.8	41.3	40.0	40.6	40.3
	21	43.3	41.5	41.9	42.8	45.8	46.6	40.1	39.6	39.8	40.0	40.0	38.2	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	41.9
	23	37.8	38.6	43.1	44.8	44.3	42.8	42.6	43.0	42.7	43.3	43.8	43.8	44.5
	24	35.1	36.7	39.4	41.1	41.9	41.7	41.2	40.4	40.4	41.0	42.2	43.2	42.3
	25	32.1	34.5	37.8	38.9	38.6	37.4	35.9	36.4	37.2	38.5	38.4	38.6	37.8
	26	31.0	36.9	37.6	37.0	37.0	35.7	35.7	35.4	39.9	39.9	38.5	38.2	37.3
	27	30.8	34.5	38.5	40.7	40.1	40.3	39.6	38.6	39.0	39.6	40.8	40.8	40.8
	28	32.8	37.0	39.8	39.8	38.7	39.4	38.6	36.5	37.3	37.9	38.6	38.6	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	38.0
	30	34.6	35.7	39.3	38.8	37.0	37.5	42.9	46.2	39.4	37.3	38.0	39.1	38.0
	31	31.8	32.9	37.5	41.3	41.3	40.3	39.0	37.4	36.1	36.1	37.4	35.8	37.9
Hourly Means		37.03	38.36	40.69	41.93	42.58	42.25	42.17	42.12	42.09	41.90	41.95	42.16	42.54
		TEMPERATURE OF THE MAGNET.												
Nov.	30	67.8	68.1	68.3	68.4	68.2	68.1	68.0	67.8	67.6	67.3	67.2	66.5	—
	1	—	—	—	—	—	—	—	—	—	—	—	—	63.4
	2	63.9	64.4	64.8	65.1	65.4	65.4	65.4	65.2	65.0	64.6	64.5	64.4	64.1
	3	65.1	65.6	65.8	65.9	66.1	66.2	66.2	66.2	65.8	65.6	65.5	65.1	65.0
	4	66.3	66.9	67.5	68.1	68.6	68.8	69.1	69.1	69.0	68.9	68.8	68.7	68.5
	5	68.7	68.9	69.4	69.6	69.8	69.8	69.5	69.3	69.1	68.5	68.3	67.8	67.6
	6	68.1	68.5	68.7	68.9	69.0	69.0	69.0	68.7	68.5	68.1	67.9	67.6	67.4
	7	67.6	67.8	68.0	68.1	68.1	68.2	68.1	67.8	67.7	67.6	67.2	66.8	—
	8	—	—	—	—	—	—	—	—	—	—	—	—	66.8
	9	66.7	67.0	67.2	67.3	67.4	67.4	67.3	67.0	66.8	66.6	66.3	66.0	65.7
	10	66.1	66.5	66.8	67.1	67.6	67.7	67.8	67.8	67.5	67.4	67.1	66.8	66.6
	11	66.6	66.8	67.2	67.6	68.0	68.5	68.4	68.5	68.4	68.2	68.1	67.8	67.8
	12	67.5	67.6	67.8	67.8	68.0	68.0	67.8	67.5	67.1	66.8	66.6	66.3	66.0
	13	66.9	67.6	68.2	68.6	69.2	69.4	69.6	69.6	69.6	69.4	69.1	68.8	68.8
	14	68.6	68.8	69.1	69.3	69.5	70.0	69.9	70.2	70.3	70.2	70.4	70.1	—
	15	—	—	—	—	—	—	—	—	—	—	—	—	66.5
	16	65.6	66.0	66.1	66.5	66.7	66.8	67.1	67.1	66.8	66.6	66.6	66.5	66.3
	17	65.6	65.7	65.8	65.8	65.9	66.0	66.0	65.9	65.8	65.5	65.0	64.8	64.4
	18	64.0	64.3	64.7	65.0	65.2	65.6	65.8	65.7	65.6	65.3	65.1	65.4	65.5
	19	67.6	68.2	68.9	69.5	70.1	70.6	71.0	71.2	71.2	71.2	70.9	70.4	70.1
	20	69.2	69.6	70.0	70.4	70.6	71.0	71.0	70.8	70.6	70.3	70.3	69.8	69.6
	21	68.6	68.8	69.1	69.3	69.5	69.7	69.8	69.8	69.8	69.7	69.4	69.2	—
	22	—	—	—	—	—	—	—	—	—	—	—	—	64.3
	23	64.1	64.4	64.7	65.0	65.1	65.1	64.9	64.8	64.6	64.6	64.2	64.1	63.9
	24	65.0	65.4	65.7	66.0	66.1	66.5	66.7	66.6	66.4	66.1	66.1	66.0	65.6
	25	67.5	68.1	68.7	69.1	69.6	69.9	70.0	69.9	69.7	69.5	69.4	69.3	69.1
	26	69.4	69.8	70.1	70.5	70.8	71.0	70.9	70.8	70.4	70.0	69.8	69.5	69.0
	27	67.3	67.6	67.6	67.8	67.9	67.9	67.8	67.8	67.6	67.3	67.0	66.8	66.5
	28	66.7	67.1	67.3	67.6	67.9	68.2	68.4	68.4	68.2	68.0	67.6	67.4	—
	29	—	—	—	—	—	—	—	—	—	—	—	—	68.0
	30	68.2	68.3	68.6	68.8	69.0	69.3	69.3	69.2	69.4	69.2	69.1	68.6	68.3
	31	66.8	67.2	67.8	68.3	68.8	69.1	69.3	69.4	69.4	69.2	68.9	68.7	68.5
Hourly Means		66.87	67.22	67.55	67.85	68.08	68.27	68.30	68.26	68.07	67.84	67.64	67.38	66.79

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
Nov. 30	—	—	—	—	—	—	—	—	—	—	—	—
1	48·7	49·7	49·5	48·9	50·7	51·5	50·3	50·6	49·1	42·1	44·3	46·24
2	47·3	47·6	49·1	49·2	50·0	51·7	52·9	51·9	46·0	41·5	42·4	46·35
3	46·5	46·4	46·8	47·8	49·1	49·5	50·4	49·0	45·2	41·6	34·0	45·51
4	43·6	44·3	44·6	45·2	46·8	46·4	46·9	45·2	39·6	36·7	36·9	42·75
5	43·1	43·1	43·2	44·4	46·3	47·4	47·6	45·6	42·4	38·1	36·4	42·27
6	43·1	43·2	43·6	44·7	46·4	48·6	47·2	45·5	41·5	36·9	35·4	41·99
7	—	—	—	—	—	—	—	—	—	—	—	—
8	42·5	43·1	43·1	44·1	44·8	44·6	42·4	42·4	42·4	40·7	37·0	42·30
9	45·2	45·5	48·3	48·5	48·6	48·6	47·8	45·4	43·8	42·9	42·6	44·40
10	45·0	45·0	45·5	45·5	46·1	46·7	45·5	42·7	42·9	42·0	38·1	43·81
11	43·2	43·2	44·0	43·8	43·8	44·2	42·9	41·3	36·5	34·4	36·4	41·44
12	45·3	45·7	45·7	45·5	46·7	47·0	44·1	41·0	36·2	34·3	34·3	42·97
13	41·4	41·4	41·4	42·1	43·1	44·0	42·7	39·2	36·9	34·0	32·8	39·73
14	—	—	—	—	—	—	—	—	—	—	—	—
15	44·0	43·8	44·4	45·1	46·6	46·6	46·6	46·8	47·4	44·8	40·7	43·29
16	43·4	44·5	45·7	46·6	46·9	47·8	45·6	43·6	41·3	40·5	42·9	44·28
17	45·2	45·2	46·3	47·1	47·1	48·0	47·5	47·0	47·0	43·6	43·5	44·97
18	43·7	43·1	43·6	44·1	43·0	42·3	43·1	39·7	36·8	34·7	35·3	42·46
19	40·4	40·2	40·2	41·6	41·9	42·6	40·7	37·0	33·7	32·9	35·3	39·00
20	37·7	39·3	42·5	42·5	42·9	42·9	39·3	38·5	37·0	37·0	39·8	40·23
21	—	—	—	—	—	—	—	—	—	—	—	—
22	43·3	44·0	44·3	44·7	45·3	46·5	45·8	44·6	40·5	40·2	39·3	42·50
23	43·9	44·5	44·4	45·2	46·9	48·9	48·6	46·6	41·5	39·7	36·1	43·39
24	36·3	42·2	42·2	42·2	42·8	44·1	45·4	44·0	40·0	35·5	31·0	40·51
25	37·8	37·0	38·2	38·2	38·6	39·9	40·6	40·3	37·8	34·7	31·0	37·34
26	37·9	37·9	38·9	39·8	42·5	43·4	42·2	40·2	39·2	35·0	30·8	37·83
27	39·6	39·6	40·0	41·4	41·9	42·3	45·7	46·3	42·9	38·3	34·4	39·85
28	—	—	—	—	—	—	—	—	—	—	—	—
29	34·8	37·8	33·9	39·3	40·4	41·4	42·7	41·8	40·3	35·3	36·0	38·20
30	39·6	40·2	40·8	43·4	43·4	43·6	43·6	45·6	45·0	40·3	34·4	40·15
31	38·8	37·8	38·8	38·4	39·9	39·3	39·9	41·9	41·9	41·9	36·3	38·32
Hourly Means	42·27	42·79	43·30	44·05	44·91	45·55	45·11	43·84	41·29	38·50	36·94	41·93

TEMPERATURE OF THE MAGNET.

Nov. 30	°	°	°	°	°	°	°	°	°	°	°	°
1	63·2	63·1	62·8	62·6	62·5	62·5	62·5	62·7	63·0	63·4	63·7	65·36
2	63·9	63·8	63·6	63·3	63·3	63·3	63·4	63·5	63·8	64·2	64·7	64·29
3	64·8	64·7	64·4	64·3	64·2	64·3	64·4	64·5	64·9	65·2	65·7	65·23
4	68·2	67·8	67·6	67·4	67·3	67·3	67·4	67·6	67·7	67·8	68·1	68·02
5	67·4	67·0	67·0	66·9	66·8	66·8	66·8	67·1	67·2	67·5	67·8	68·11
6	67·2	67·1	67·0	66·8	66·8	66·8	66·8	66·9	67·0	67·2	67·5	67·77
7	—	—	—	—	—	—	—	—	—	—	—	—
8	66·6	66·4	66·1	65·8	65·7	65·7	65·7	65·8	65·9	66·2	66·5	66·93
9	65·4	65·1	64·8	64·5	64·6	64·6	64·6	64·7	65·0	65·3	65·5	65·95
10	66·5	66·3	66·0	65·9	65·7	65·7	65·7	65·7	65·8	66·0	66·3	66·60
11	67·7	67·6	67·5	67·3	67·1	67·1	67·0	67·0	67·2	67·1	67·3	67·58
12	65·6	65·4	65·4	65·1	65·0	65·1	65·2	65·5	65·7	66·0	66·4	66·47
13	68·6	68·4	68·1	67·8	67·6	67·5	67·5	67·5	67·6	67·9	68·2	68·40
14	—	—	—	—	—	—	—	—	—	—	—	—
15	66·1	65·8	65·4	65·2	65·1	64·7	64·7	64·8	65·0	65·1	65·5	67·51
16	66·0	65·8	65·5	65·5	65·3	65·2	65·2	65·2	65·3	65·3	65·5	66·02
17	64·1	63·9	63·6	63·3	63·0	62·9	62·9	62·9	63·1	63·3	63·5	64·53
18	65·5	65·6	65·7	65·7	65·5	65·6	65·6	65·7	66·0	66·4	67·0	65·48
19	69·7	69·3	68·8	68·8	68·4	68·4	68·3	68·3	68·5	68·7	68·9	69·46
20	69·2	69·0	68·4	68·3	68·2	67·9	67·8	67·8	67·9	68·1	68·3	69·34
21	—	—	—	—	—	—	—	—	—	—	—	—
22	64·0	63·7	63·3	63·3	63·3	62·9	62·9	63·1	63·4	63·6	63·8	66·43
23	63·8	63·7	63·6	63·5	63·4	63·3	63·4	63·6	63·8	64·1	64·5	64·18
24	65·5	65·4	65·4	65·4	65·3	65·5	65·6	65·8	66·0	66·5	67·0	65·90
25	69·1	69·0	68·8	68·8	68·6	68·3	68·4	68·4	68·5	68·8	69·0	68·98
26	68·7	68·5	68·0	67·5	67·3	67·0	66·7	66·6	66·7	66·8	67·0	68·87
27	66·3	66·0	65·7	65·4	65·2	65·3	65·3	65·5	65·7	66·1	66·4	66·66
28	—	—	—	—	—	—	—	—	—	—	—	—
29	68·1	68·1	68·3	68·2	68·2	67·9	67·7	67·7	67·7	67·9	68·2	67·87
30	67·5	67·2	66·7	66·2	65·7	65·6	65·5	65·7	65·8	66·1	66·4	67·65
31	68·3	68·1	67·8	67·8	67·6	67·5	67·6	67·7	68·0	68·2	68·5	68·27
Hourly Means	66·56	66·36	66·12	65·95	65·80	65·73	65·73	65·83	66·01	66·25	66·56	66·96

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
JANUARY.	1	84.8	84.4	85.2	86.1	89.1	87.7	87.7	87.0	85.0	85.4	86.1	87.2	87.2
	2	82.5	84.3	86.4	87.7	87.5	88.1	87.1	85.6	85.6	86.2	86.9	86.9	86.3
	3	84.2	82.5	82.3	82.9	85.5	90.0	90.9	89.4	89.4	89.5	89.5	89.5	89.9
	4	87.0	88.3	88.4	88.7	89.5	91.1	90.7	89.8	89.6	89.6	89.7	84.4	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	88.8
	6	88.2	87.0	84.6	80.7	81.4	84.7	86.9	86.1	86.6	87.8	87.0	86.9	86.7
	7	83.0	83.0	83.7	81.6	80.8	82.9	84.7	84.9	86.6	87.1	87.3	87.7	86.0
	8	84.0	84.0	86.0	86.2	84.3	85.6	86.3	86.3	86.8	87.3	89.8	88.0	88.9
	9	76.4	77.0	82.6	84.4	85.2	87.4	86.5	86.9	91.5	97.3	100.4	92.3	96.9
	10	83.3	84.1	87.5	89.2	86.6	86.2	86.2	86.8	90.2	87.9	88.5	89.4	89.8
	11	81.2	83.4	85.1	85.7	84.1	87.6	87.2	84.5	84.9	85.5	85.3	85.3	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	85.3
	13	75.1	80.0	85.4	85.5	84.9	84.8	85.0	83.9	83.9	84.2	84.8	84.8	84.8
	14	79.9	78.4	81.2	84.0	82.9	86.4	86.0	85.9	84.2	85.6	85.8	84.8	85.2
	15	76.3	78.6	82.3	84.6	84.6	85.2	86.6	86.6	86.6	86.6	86.6	87.7	86.3
	16	75.7	74.5	75.3	78.3	80.8	81.6	80.8	80.4	80.1	80.1	80.6	81.6	81.9
	17	77.0	73.0	73.0	74.0	77.3	80.0	81.4	80.6	83.4	83.9	81.3	81.3	81.2
	18	79.8	76.6	76.6	77.7	77.9	79.5	81.4	80.6	80.0	80.3	81.1	81.6	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	86.2
	20	77.9	81.8	85.1	90.2	89.5	87.6	87.9	86.5	89.5	90.5	87.8	85.0	84.8
	21	76.6	75.1	81.0	88.2	89.4	89.4	87.2	86.6	86.6	86.1	86.1	87.3	87.3
	22	70.8	69.8	74.4	82.3	84.6	87.5	87.5	86.5	86.5	87.5	86.4	85.3	82.2
	23	73.3	73.2	76.8	85.6	87.0	88.5	84.1	80.4	83.6	87.6	83.9	83.2	84.2
	24	78.6	78.6	80.8	83.4	83.4	85.8	91.8	88.5	84.5	82.7	82.7	81.3	84.4
	25	85.1	83.0	84.0	86.2	86.5	87.8	86.9	83.5	82.2	85.3	82.1	84.6	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	82.1
	27	77.1	75.1	78.5	79.9	84.2	83.9	83.9	83.1	83.1	84.0	83.3	83.7	84.2
	28	77.1	69.0	71.4	75.5	84.7	88.9	88.9	87.7	88.4	91.0	89.3	87.3	80.7
	29	73.8	72.7	77.0	83.4	85.8	84.9	90.1	90.9	88.3	84.9	88.5	84.0	84.1
	30	76.8	75.7	77.2	78.8	83.1	85.9	87.2	85.6	88.5	81.4	83.7	83.0	83.0
	31	77.2	76.4	78.2	79.8	80.6	82.7	82.7	81.5	82.1	81.7	81.9	81.0	82.7
Hourly Means	79.36	78.87	81.11	83.36	84.49	85.99	86.43	85.41	85.84	86.19	86.16	85.37	85.60	

TEMPERATURE OF THE MAGNET.															
JANUARY.	1	68.7	69.1	69.3	69.6	69.9	70.1	70.2	70.4	70.4	70.2	70.0	69.8	69.8	
	2	69.5	69.6	69.8	69.9	69.9	69.6	69.7	69.7	69.5	69.3	68.9	68.7	68.6	
	3	66.4	66.5	66.6	66.7	66.7	66.7	66.6	66.4	66.2	66.0	65.7	65.3	65.0	
	4	65.1	65.2	65.6	65.7	65.8	65.8	65.8	65.8	65.6	65.6	65.6	65.4	—	
	5	—	—	—	—	—	—	—	—	—	—	—	—	67.0	
	6	67.7	68.1	68.6	68.9	69.1	69.4	69.4	69.4	69.4	69.2	69.1	69.0	68.8	68.7
	7	69.3	69.8	70.0	70.6	70.7	70.8	70.8	70.7	70.6	70.4	70.3	70.0	70.0	69.7
	8	68.1	68.4	68.5	68.8	69.1	69.1	69.1	68.8	68.7	68.5	68.2	68.0	67.8	67.8
	9	68.0	68.1	68.5	68.7	68.8	68.8	68.6	68.4	68.2	68.0	67.8	67.8	67.8	67.8
	10	68.0	68.2	68.5	68.8	69.0	69.1	68.9	68.7	68.6	68.5	68.3	68.0	67.9	67.9
	11	68.4	69.0	69.3	69.7	70.0	70.0	70.3	70.2	70.0	69.8	69.6	69.3	—	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	—	69.8
	13	69.8	70.4	70.8	71.3	71.6	71.9	72.0	71.8	71.6	71.3	71.3	71.0	70.8	70.8
	14	70.5	70.8	71.3	71.7	71.7	71.7	71.5	71.3	71.0	70.5	70.2	69.8	69.4	69.4
	15	67.5	67.7	67.8	68.1	68.3	68.4	68.4	68.2	68.0	67.8	67.6	67.3	67.1	67.1
	16	68.6	69.6	70.1	70.8	71.8	72.2	72.7	72.9	73.0	73.1	73.0	72.9	72.6	72.6
	17	71.9	72.2	72.6	72.8	72.9	73.0	73.1	73.0	72.8	72.5	72.3	71.9	71.5	71.5
	18	71.2	71.8	72.2	72.6	73.0	73.1	73.4	73.2	73.0	72.8	72.7	72.6	—	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	—	67.7
	20	66.7	66.8	67.1	67.2	67.3	67.4	67.4	67.4	67.1	66.9	66.8	66.5	66.4	66.4
	21	66.1	66.4	66.5	66.7	67.1	67.2	67.3	67.4	67.4	67.3	67.0	66.9	66.8	66.8
	22	66.2	66.4	66.6	66.6	66.8	67.0	67.0	67.0	67.0	66.9	66.7	67.0	67.2	67.2
	23	67.7	68.0	68.2	68.6	68.9	69.1	69.4	69.5	69.8	69.9	69.9	69.7	69.5	69.5
	24	68.8	69.1	69.4	69.6	69.8	69.8	69.6	69.5	69.3	68.9	68.7	68.5	68.0	68.0
	25	67.7	68.1	68.4	68.9	69.2	69.4	69.5	69.4	69.3	69.0	68.8	68.5	—	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	—	68.5
	27	68.3	68.5	69.0	69.3	69.4	69.6	69.6	69.3	69.0	68.6	68.2	68.0	67.8	67.8
	28	67.8	68.2	68.8	69.2	69.6	69.9	70.2	70.3	70.4	70.3	70.2	70.2	70.0	70.0
	29	69.6	69.7	69.8	69.9	69.9	69.7	69.5	69.1	68.6	68.3	67.9	67.9	67.7	67.7
	30	67.3	67.8	68.2	68.6	68.9	69.1	69.1	69.0	68.8	68.6	68.4	67.9	67.7	67.7
	31	68.0	68.5	69.0	69.3	69.5	69.8	70.0	69.8	69.8	69.6	69.4	69.2	69.0	69.0
Hourly Means	68.26	68.59	68.91	69.21	69.43	69.54	69.60	69.50	69.37	69.17	68.98	68.77	68.51	68.51	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JANUARY.	1	87.8	87.8	88.5	88.5	86.5	87.3	88.0	89.7	91.7	86.6	82.5	86.99
	2	86.0	87.0	87.8	87.8	88.0	88.2	89.2	91.4	89.3	87.0	85.9	87.03
	3	89.9	89.9	89.4	90.6	90.9	90.9	89.6	90.4	92.0	92.0	88.0	88.71
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	88.4	88.0	88.0	88.0	88.5	86.8	84.9	85.8	88.4	90.3	90.9	88.48
	6	86.6	86.6	87.5	86.6	86.6	87.4	86.7	86.0	87.8	88.2	86.2	86.28
	7	86.0	87.3	86.7	86.4	86.6	86.6	87.8	89.0	88.1	84.1	82.4	85.43
	8	88.9	88.4	87.8	87.9	88.4	90.3	91.5	91.5	88.0	79.9	75.4	86.73
	9	97.9	96.4	92.2	86.4	90.3	91.7	92.5	91.1	86.4	81.2	79.4	88.76
	10	90.4	90.3	90.3	90.8	89.4	89.1	89.8	92.9	91.1	85.8	81.1	88.20
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	85.3	86.3	86.3	86.9	85.8	85.1	87.0	88.2	85.8	80.4	73.8	84.83
	13	84.8	84.8	85.2	85.7	85.9	85.9	86.9	88.9	88.9	88.2	84.9	84.88
	14	85.5	85.9	85.9	86.7	86.6	87.2	89.9	89.4	86.1	80.3	77.6	84.64
	15	86.3	87.3	88.4	87.8	88.4	88.7	91.3	90.2	90.2	85.6	79.9	85.95
	16	81.7	81.7	81.9	81.9	81.3	82.7	85.6	86.8	87.3	86.7	82.6	81.33
	17	82.4	84.0	84.0	83.3	83.3	84.2	85.5	86.1	86.1	85.1	84.2	81.48
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	92.1	91.6	87.4	89.2	85.2	85.8	87.4	88.1	86.5	80.9	79.5	83.04
	20	84.8	85.1	84.6	85.9	86.1	86.1	87.7	90.3	90.3	87.0	81.1	86.38
	21	87.7	87.1	87.1	86.4	85.7	85.9	88.8	91.8	89.6	85.1	74.9	85.71
	22	82.7	82.4	84.5	85.1	86.0	87.0	88.6	90.5	89.2	83.8	77.9	83.71
	23	84.3	82.2	81.7	81.3	83.0	84.1	86.5	90.2	94.6	92.3	83.0	83.94
	24	86.3	83.2	82.2	83.5	84.2	84.8	87.1	90.2	92.4	89.2	89.2	84.95
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	83.0	84.2	82.6	83.0	84.0	85.9	85.2	89.4	90.3	86.2	79.3	84.68
	27	85.2	85.2	84.7	84.7	84.1	84.7	86.2	87.2	88.2	84.1	78.7	83.21
	28	83.1	81.7	81.7	82.4	82.4	82.2	82.2	84.7	87.3	82.2	79.6	82.89
	29	86.0	86.0	84.0	85.0	85.6	84.7	85.5	87.5	88.6	84.1	78.6	84.33
	30	82.8	83.2	84.3	84.3	83.7	84.9	85.2	86.5	84.7	80.4	77.2	82.80
	31	82.3	82.6	83.5	83.7	83.6	83.6	84.4	85.7	85.1	81.7	76.0	81.70
Hourly Means	86.23	86.16	85.86	85.92	85.93	86.36	87.44	88.87	88.67	85.13	81.10	85.08	

TEMPERATURE OF THE MAGNET.

JANUARY.	1	69.6	69.5	69.3	69.0	69.1	68.8	68.8	68.9	69.1	69.2	69.3	69.50
	2	68.3	68.1	67.7	67.3	67.2	66.8	66.6	66.5	66.4	66.3	66.4	68.35
	3	64.8	64.7	64.4	64.2	64.1	64.0	64.0	64.2	64.5	64.6	65.0	65.39
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	66.6	66.5	66.4	66.2	66.1	65.9	66.0	66.1	66.3	66.7	67.1	66.00
	6	68.6	68.4	68.1	68.0	67.9	68.0	68.0	68.1	68.2	68.7	68.9	68.60
	7	69.4	68.9	68.5	68.0	67.6	67.5	67.4	67.4	67.6	67.8	67.9	69.24
	8	67.6	67.6	67.5	67.4	67.2	67.2	67.3	67.4	67.5	67.7	67.8	68.05
	9	67.6	67.6	67.6	67.5	67.2	66.9	67.0	67.0	67.3	67.4	67.4	67.83
	10	67.6	67.4	67.3	67.1	67.1	67.0	67.1	67.3	67.5	67.6	68.1	67.98
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	69.6	69.5	69.3	69.2	69.1	69.0	69.0	69.0	69.1	69.4	69.7	69.47
	13	70.7	70.6	70.2	69.8	69.9	69.6	69.4	69.4	69.6	69.9	70.2	70.62
	14	69.1	68.7	68.3	67.9	67.6	67.3	67.2	67.2	67.2	67.1	67.3	69.43
	15	67.0	66.8	66.8	66.7	66.6	66.7	66.8	67.0	67.2	67.5	68.2	67.48
	16	72.5	72.3	72.1	71.8	71.8	71.7	71.6	71.5	71.5	71.6	71.7	71.81
	17	71.1	70.8	70.6	70.3	70.1	70.1	70.1	70.1	70.3	70.6	70.8	71.56
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	67.5	67.4	66.9	66.5	66.3	66.0	65.8	65.8	65.9	66.3	66.6	69.60
	20	66.3	66.2	66.1	66.0	66.0	65.8	65.8	65.8	65.8	65.9	66.1	66.53
	21	66.7	66.6	66.4	66.3	66.1	65.9	65.8	65.8	65.8	66.0	66.1	66.57
	22	67.2	67.2	67.2	67.2	67.0	66.8	66.8	66.8	67.1	67.3	67.5	66.94
	23	69.3	69.1	68.9	68.7	68.6	68.3	68.3	68.2	68.3	68.5	68.7	68.88
	24	67.8	67.6	67.2	66.9	66.7	66.7	66.7	66.8	66.9	67.1	67.4	68.20
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	68.4	68.3	67.9	67.7	67.5	67.5	67.4	67.4	67.5	67.5	68.0	68.33
	27	67.6	67.6	67.6	67.3	67.1	67.0	66.9	66.9	67.0	67.3	67.5	68.10
	28	69.9	69.5	69.6	69.4	69.4	69.4	69.3	69.2	69.3	69.1	69.4	69.53
	29	67.5	67.1	66.8	66.3	66.1	66.0	66.0	66.0	66.3	66.5	66.8	67.88
	30	67.5	67.2	66.8	66.7	66.6	66.6	66.6	66.7	66.8	67.2	67.6	67.74
	31	68.8	68.7	68.5	68.3	68.3	68.3	68.2	68.3	68.4	68.7	69.1	68.94
Hourly Means	68.32	68.14	67.93	67.69	67.57	67.44	67.40	67.44	67.57	67.76	68.02	68.46	

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^h .	
FEBRUARY.	1	71.9	69.8	71.5	73.9	76.9	80.5	82.7	82.7	81.6	81.6	82.1	—	
	2	—	—	—	—	—	—	—	—	—	—	—	81.3	
	3	75.6	73.9	74.5	76.3	78.1	79.9	81.7	80.9	80.7	80.7	81.9	81.2	81.8
	4	78.7	77.2	77.2	77.2	80.1	80.4	80.3	80.2	80.7	81.1	80.8	81.1	82.0
	5	73.4	72.4	73.0	77.4	81.6	88.5	89.6	86.7	81.8	81.3	81.1	81.0	81.4
	6	74.0	76.7	78.5	79.8	82.0	82.6	83.0	82.4	82.7	83.1	83.6	83.6	83.6
	7	76.0	76.6	78.8	81.0	83.8	85.9	84.6	82.9	83.8	84.6	87.0	84.9	84.7
	8	73.4	71.9	73.6	78.5	80.9	83.1	83.6	82.3	82.7	83.2	82.9	82.9	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	83.3
	10	76.6	75.7	77.9	80.2	80.2	80.3	80.3	79.1	79.7	80.4	80.7	79.5	80.3
	11	65.6	64.7	67.5	72.2	74.7	77.1	78.3	78.9	78.4	79.0	80.2	79.4	79.4
	12	70.8	69.5	71.7	73.7	76.5	78.5	78.9	78.4	78.1	78.1	78.1	78.1	78.1
	13	64.9	62.7	67.9	73.3	77.8	80.6	80.6	80.6	80.6	79.9	78.7	78.4	78.4
	14	71.9	70.0	71.9	76.5	79.6	80.8	80.8	83.1	80.3	79.9	79.9	79.9	80.1
	15	68.8	71.2	74.7	78.0	80.6	81.9	81.1	80.1	80.1	79.7	79.7	81.9	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	82.5
	17	71.7	71.7	74.8	79.5	83.2	86.0	86.0	82.9	81.1	80.0	79.2	79.2	79.0
	18	69.1	69.1	71.4	74.7	76.9	77.8	77.4	76.2	76.2	77.4	77.7	78.2	78.9
	19	71.8	70.5	71.6	74.0	75.3	76.1	76.5	76.5	77.2	77.5	77.5	77.5	78.6
	20	61.9	64.4	73.1	76.8	78.0	78.6	78.6	79.5	80.4	80.4	83.2	81.4	82.3
	21	74.5	74.5	75.1	78.9	75.9	78.0	82.0	83.3	81.0	80.5	77.3	78.5	79.4
	22	67.1	68.9	73.5	76.8	80.2	82.5	77.7	77.2	77.0	77.8	76.2	76.7	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	77.7
	24	67.2	66.1	70.6	74.6	77.6	76.1	75.2	75.8	81.0	81.4	74.2	80.7	77.1
	25	69.5	69.3	75.6	79.6	79.1	74.3	78.0	78.8	77.4	76.6	75.4	73.6	72.2
	26	71.9	78.1	78.0	78.0	81.6	78.6	77.9	77.9	77.2	77.6	76.6	79.5	76.6
	27	72.4	72.6	75.8	78.4	80.1	80.1	80.5	80.5	80.5	80.5	80.2	80.1	79.6
	28	72.0	77.4	78.2	79.0	79.2	81.2	80.2	79.3	81.8	77.7	79.9	79.3	77.5
Hourly Means	71.28	71.45	74.02	77.01	79.16	80.39	80.65	80.26	80.08	80.00	79.73	79.95	79.83	
TEMPERATURE OF THE MAGNET.														
FEBRUARY.	1	69.4	69.8	70.1	70.5	70.7	70.7	70.6	70.2	69.9	69.6	69.3	69.1	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	69.6	70.1	70.5	70.8	71.0	71.1	71.0	70.8	70.8	70.5	70.3	70.0	69.7
	4	69.7	70.0	70.3	70.5	70.6	70.6	70.4	70.3	70.1	69.7	69.6	69.5	69.3
	5	68.7	69.1	69.5	69.9	70.2	70.4	70.1	70.1	69.9	69.7	69.7	69.5	69.3
	6	67.8	67.9	68.1	68.3	68.3	68.1	68.0	67.8	67.5	67.4	67.4	67.2	66.8
	7	66.6	66.9	67.1	67.4	67.6	67.7	67.8	67.7	67.6	67.5	67.2	67.1	67.0
	8	67.1	67.2	67.7	67.8	67.9	68.0	68.0	67.8	67.8	67.6	67.3	67.1	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	67.2
	10	67.3	67.9	68.3	68.8	69.3	69.5	69.8	69.8	69.6	69.5	69.3	69.2	69.1
	11	69.6	69.9	70.2	70.6	70.8	70.9	70.8	70.6	70.3	70.1	70.1	70.0	69.8
	12	70.5	70.8	71.3	71.8	72.0	72.2	72.2	72.1	71.9	71.7	71.6	71.6	71.6
	13	70.9	71.1	71.4	71.6	72.0	72.2	72.2	72.2	72.0	71.8	71.6	71.5	71.1
	14	70.3	70.4	70.4	70.6	70.8	70.9	71.3	71.3	71.3	71.0	70.9	70.6	70.4
	15	69.7	70.0	70.0	70.1	70.5	70.7	70.8	70.9	70.7	70.5	70.4	70.4	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	65.9
	17	65.5	66.0	66.5	67.1	67.5	67.9	68.2	68.5	68.3	68.3	68.5	68.4	68.3
	18	69.1	69.4	69.9	70.3	70.5	70.7	70.8	70.6	70.4	69.9	69.6	69.3	69.1
	19	69.4	69.8	70.3	70.7	71.0	71.1	71.3	71.1	70.8	70.5	70.1	69.8	69.5
	20	68.3	68.5	68.8	68.8	68.8	68.7	68.3	68.0	67.6	67.5	67.3	67.1	66.8
	21	67.1	67.6	68.1	68.6	69.0	69.2	69.1	69.1	69.1	69.0	68.9	69.0	69.1
	22	69.7	70.0	70.3	70.6	70.7	70.7	70.8	70.8	70.6	70.5	70.3	69.9	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	70.6
	24	70.4	71.0	71.4	71.6	72.0	72.0	72.1	72.0	71.8	71.6	71.3	71.2	71.0
	25	71.4	71.8	72.2	72.5	72.7	72.7	72.5	72.4	72.3	72.1	71.9	71.8	71.8
	26	70.5	70.6	70.9	71.1	71.2	71.1	70.9	70.8	70.6	70.2	70.1	69.7	69.2
	27	68.3	68.5	68.6	68.8	68.9	69.0	69.0	68.8	68.5	68.4	68.1	67.8	67.5
	28	66.8	67.2	67.4	67.7	68.0	68.1	68.3	68.2	68.0	67.8	67.8	67.6	67.5
Hourly Means	68.90	69.23	69.55	69.85	70.08	70.18	70.18	70.08	69.89	69.68	69.53	69.35	69.07	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
FEBRUARY.	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	—	—	—	—	—	—	—	—	—	—	—	79.75
	2	81.3	81.3	81.3	81.3	81.3	83.3	84.5	84.8	82.7	78.4	75.6	80.44
	3	81.1	82.7	81.8	81.4	80.4	81.4	81.8	84.1	83.7	83.0	82.0	80.48
	4	82.0	81.7	81.4	80.9	80.9	82.7	84.5	85.8	81.8	78.1	74.6	81.75
	5	86.3	84.8	83.7	83.0	83.5	84.3	83.0	84.0	81.8	81.5	76.8	82.04
	6	83.8	83.8	84.2	83.1	82.8	83.2	85.9	86.6	83.6	79.0	77.3	83.62
	7	84.4	84.4	84.0	84.0	84.0	84.9	87.4	88.5	86.7	83.5	80.5	81.95
	8	—	—	—	—	—	—	—	—	—	—	—	80.43
	9	84.5	85.7	84.0	82.7	82.7	82.4	84.1	87.3	87.3	83.9	79.8	77.65
	10	81.0	82.1	80.8	80.8	80.8	82.6	85.8	88.4	86.3	78.5	72.4	77.40
	11	79.4	79.7	80.1	80.1	80.1	80.8	81.5	84.7	84.7	81.7	75.4	77.22
	12	79.7	79.7	77.0	78.7	79.4	80.1	80.6	80.3	81.0	79.8	72.8	79.06
	13	78.8	78.1	78.7	79.2	79.2	80.6	83.2	84.0	80.4	74.6	72.1	80.59
	14	80.5	80.9	80.9	81.1	80.3	81.1	83.5	85.4	83.2	75.9	70.0	79.76
	15	—	—	—	—	—	—	—	—	—	—	—	76.68
	16	82.9	82.9	82.9	82.9	82.9	85.4	88.0	87.7	84.2	78.7	75.3	76.21
	17	79.0	79.0	79.0	79.0	79.3	82.0	85.0	86.9	82.5	75.9	72.3	78.03
	18	78.9	78.9	78.5	79.2	78.6	79.2	80.5	81.6	77.7	74.0	72.2	78.18
	19	77.5	78.1	77.7	77.7	78.2	78.2	78.8	81.3	81.3	74.9	64.7	76.98
	20	79.2	79.8	80.1	79.6	78.6	79.4	83.1	82.7	79.7	77.5	74.5	76.06
	21	75.8	77.2	78.3	77.6	77.3	79.2	81.8	82.3	78.9	77.5	71.5	76.43
	22	—	—	—	—	—	—	—	—	—	—	—	78.35
	23	80.4	80.0	76.5	77.2	76.0	78.3	81.7	82.6	80.0	74.1	71.3	79.43
	24	75.3	78.3	77.0	77.1	77.1	77.1	77.1	81.7	78.3	76.1	72.8	78.87
	25	77.4	77.2	74.6	76.3	77.9	77.9	80.6	80.1	80.1	77.7	75.1	79.06
	26	77.0	78.8	78.8	79.6	80.6	80.6	81.5	82.4	81.3	76.7	73.7	76.98
	27	81.7	76.5	79.9	80.7	80.7	82.6	85.1	84.7	79.5	75.6	77.9	78.87
28	78.6	76.7	79.7	79.8	80.6	80.9	82.5	84.3	81.1	74.4	71.5	Hourly Means	
Hourly Means	80.27	80.35	80.04	80.13	80.13	81.18	82.98	84.26	81.99	77.96	74.25	79.06	

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°	
FEBRUARY.	1	—	—	—	—	—	—	—	—	—	—	—	69.61
	2	69.8	69.6	69.4	69.2	68.9	68.8	68.8	68.8	68.9	69.2	69.4	69.82
	3	69.4	69.4	69.3	69.0	68.8	68.8	68.7	68.6	68.9	69.1	69.4	69.15
	4	69.1	68.7	68.4	68.1	67.8	67.6	67.5	67.6	67.8	68.0	68.4	68.97
	5	69.0	68.8	68.5	68.3	68.1	67.9	67.8	67.8	67.7	67.6	67.7	67.05
	6	66.8	66.6	66.5	66.3	66.2	65.9	65.8	65.8	66.0	66.3	66.4	66.94
	7	66.8	66.8	66.7	66.6	66.5	66.2	66.2	66.2	66.4	66.4	66.6	67.15
	8	—	—	—	—	—	—	—	—	—	—	—	68.86
	9	67.2	67.0	66.8	66.6	66.5	66.4	66.3	66.3	66.6	66.6	66.9	69.96
	10	69.1	68.9	68.8	68.5	68.4	68.3	68.3	68.4	68.5	68.8	69.2	71.16
	11	69.7	69.7	69.4	69.4	69.3	69.3	69.3	69.4	69.6	70.0	70.2	71.07
	12	71.3	71.3	71.1	70.8	70.6	70.4	70.1	70.0	70.1	70.1	70.7	70.18
	13	71.0	70.8	70.8	70.7	70.5	70.2	70.0	70.0	70.0	70.0	70.1	67.66
	14	70.3	70.1	69.8	69.6	69.3	69.1	69.1	69.0	69.1	69.2	69.5	67.62
	15	—	—	—	—	—	—	—	—	—	—	—	69.36
	16	65.9	65.7	65.1	64.8	64.6	64.3	64.3	64.2	64.5	64.7	65.1	69.40
	17	68.1	67.9	67.5	67.5	67.2	67.1	67.1	67.1	67.6	68.1	68.6	67.31
	18	68.8	68.7	68.6	68.6	68.4	68.4	68.4	68.5	68.7	68.8	69.1	68.75
	19	69.0	68.8	68.7	68.4	68.0	67.8	67.7	67.7	67.8	68.1	68.1	70.15
	20	66.8	66.6	66.5	66.5	66.3	66.3	66.2	66.2	66.3	66.5	66.7	70.96
	21	69.1	68.8	68.8	68.8	68.8	68.6	68.5	68.5	68.7	69.0	69.4	71.45
	22	—	—	—	—	—	—	—	—	—	—	—	69.43
	23	70.4	70.3	70.1	69.9	69.6	69.5	69.4	69.4	69.6	69.8	70.0	67.62
	24	70.6	70.4	70.2	70.1	70.0	70.1	70.1	70.2	70.4	70.6	70.9	67.25
	25	71.5	71.2	71.2	70.9	70.7	70.3	70.1	70.1	70.0	70.2	70.4	69.04
	26	69.1	68.8	68.6	68.4	68.0	67.8	67.6	67.6	67.7	67.8	68.0	67.62
	27	67.4	67.3	66.9	66.7	66.3	66.2	66.1	66.2	66.3	66.5	66.7	67.25
	28	67.3	67.1	66.9	66.6	66.5	66.4	66.3	66.3	66.5	66.7	67.0	Hourly Means
Hourly Means	68.90	68.72	68.53	68.35	68.14	67.99	67.90	67.91	68.07	68.25	68.52	69.04	

VERTICAL FORCE.															
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.															
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 .	12 ^h .		
MARCH.	1	70.8	70.8	72.1	74.7	78.2	80.1	79.8	79.3	78.5	78.0	77.5	78.3	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	78.4	
	3	75.0	75.0	75.5	76.8	78.8	78.8	79.3	80.6	81.2	81.6	80.0	80.0	80.0	80.0
	4	74.0	73.6	75.1	77.1	78.9	80.4	79.5	78.2	78.2	78.2	78.6	78.6	78.6	79.0
	5	73.4	72.8	71.1	71.6	74.3	76.4	76.7	76.7	76.4	76.4	76.4	76.4	76.4	76.2
	6	66.9	67.7	68.1	70.4	73.1	74.5	75.2	75.2	74.6	74.1	74.3	74.5	74.5	74.5
	7	64.9	66.0	70.4	72.1	74.0	74.0	74.0	75.6	75.9	74.7	74.7	74.2	74.2	74.7
	8	65.5	65.1	67.5	71.3	74.1	75.5	74.8	74.2	74.6	75.4	75.4	75.4	75.4	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	—	80.5
	10	73.7	73.2	73.8	75.0	73.4	73.0	73.6	73.6	73.6	73.6	74.3	74.3	74.3	74.1
	11	66.7	66.7	67.4	69.9	72.8	74.4	74.2	73.9	72.1	72.5	73.3	73.2	73.2	73.2
	12	60.4	60.2	61.4	65.1	68.9	71.8	71.8	71.2	70.4	70.4	70.6	70.6	70.6	70.6
	13	61.7	61.7	65.2	69.3	71.9	73.0	72.6	72.6	71.3	72.0	72.2	71.6	71.6	71.6
	14	63.8	63.8	67.0	72.9	74.7	76.3	76.9	79.3	75.5	75.5	72.4	72.4	72.4	75.0
	15	64.0	64.7	67.9	70.4	71.9	74.8	77.2	75.5	76.1	75.7	72.3	70.2	—	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	—	72.9
	17	66.1	67.8	69.4	72.2	73.3	74.7	74.3	73.7	73.6	72.6	72.5	73.4	73.4	71.9
	18	64.3	65.9	67.0	69.7	72.2	74.3	73.2	71.5	72.2	71.5	71.2	71.2	71.2	72.0
	19	63.0	63.4	65.6	68.7	70.5	74.0	73.8	74.9	74.9	74.4	75.3	69.3	73.4	73.4
	20	63.4	64.9	65.6	66.8	69.6	77.5	85.0	76.2	72.5	71.4	71.3	72.1	— ^a	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	—	74.7
	22	67.6	68.3	70.0	71.9	71.9	72.2	72.2	72.2	71.5	71.5	71.9	71.6	—	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	—	74.9
	24	69.0	72.3	73.0	74.9	79.8	81.7	81.3	76.1	76.1	79.5	74.7	74.9	74.9	72.6
	25	68.2	67.2	71.3	74.6	75.3	79.5	75.0	73.3	73.8	73.8	73.8	74.2	74.9	74.9
	26	64.0	65.4	70.9	72.8	75.0	76.8	77.8	78.4	71.7	73.4	72.5	73.2	73.2	73.2
	27	64.7	64.3	71.1	70.9	72.1	78.5	73.9	76.1	75.2	69.7	72.9	71.2	72.6	72.6
	28	64.2	66.1	75.8	66.1	70.9	70.6	69.4	69.4	68.5	68.7	70.2	70.2	69.6	69.6
	29	63.0	60.6	65.2	68.6	69.4	69.1	69.5	68.6	68.6	69.1	68.3	68.3	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	69.1
	31	61.1	63.7	66.7	68.8	70.9	72.0	71.4	71.5	70.6	70.2	70.1	70.1	70.1	70.1
Hourly Means	66.38	66.85	69.36	71.30	73.44	75.36	75.30	74.71	73.90	73.76	73.47	73.18	73.99	—	
TEMPERATURE OF THE MAGNET.															
MARCH.	1	67.4	67.8	68.1	68.3	68.4	68.4	68.6	68.5	68.5	68.3	68.1	67.8	—	
	2	—	—	—	—	—	—	—	—	—	—	—	—	66.2	
	3	65.5	65.7	65.7	65.8	66.1	66.1	65.9	65.8	65.5	65.3	65.0	64.8	64.8	64.6
	4	64.1	64.4	64.9	65.1	65.7	65.8	65.8	65.8	65.8	65.6	65.4	65.0	65.0	64.8
	5	65.1	65.6	66.0	66.4	66.8	67.1	67.5	67.5	67.4	67.4	67.2	67.2	67.2	67.2
	6	66.2	66.7	67.1	67.7	68.0	68.6	68.7	68.8	68.8	68.8	68.7	68.6	68.6	68.5
	7	68.1	68.7	69.1	69.4	69.8	70.2	70.4	70.5	70.3	70.2	70.1	69.8	69.8	69.5
	8	68.9	69.0	69.4	69.6	69.7	69.7	69.6	69.6	69.4	69.0	68.7	68.2	—	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	—	65.6
	10	66.3	66.6	67.4	67.9	68.7	68.8	69.0	69.1	69.1	69.1	69.1	69.1	69.0	68.9
	11	69.6	69.9	70.3	70.6	70.7	70.6	70.6	70.5	70.4	70.3	70.2	70.2	70.2	70.1
	12	70.1	70.6	71.0	71.6	71.8	72.0	71.8	71.8	71.8	71.8	71.7	71.5	71.3	71.3
	13	70.1	70.4	70.5	70.8	71.0	71.2	71.3	71.3	71.0	70.8	70.5	70.2	69.9	69.9
	14	68.3	68.6	68.6	68.9	69.1	69.2	69.2	69.3	69.2	69.1	68.8	68.6	68.2	68.2
	15	67.5	67.8	68.1	68.5	68.7	68.8	68.8	68.8	68.7	68.6	68.3	68.2	—	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	—	68.3
	17	67.5	67.9	68.1	68.6	68.8	69.0	69.1	69.0	69.0	68.9	68.8	68.7	68.6	68.6
	18	68.7	69.2	69.5	69.9	70.4	70.5	70.6	70.7	70.6	70.3	70.1	70.0	69.8	69.8
	19	68.6	68.8	69.2	69.4	69.6	69.9	69.8	69.9	69.8	69.7	69.5	69.5	69.4	69.4
	20	69.1	69.5	69.7	69.9	70.1	70.3	70.6	70.8	70.8	70.6	70.3	69.9	—	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	—	69.1
	22	69.2	69.4	69.8	70.3	70.6	70.8	70.7	70.7	70.6	70.5	70.4	70.3	—	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	—	68.0
	24	67.0	67.1	67.3	67.3	67.6	67.6	67.3	67.2	67.0	66.8	66.6	66.5	66.4	66.4
	25	66.2	66.5	66.7	66.9	67.1	67.1	67.3	67.3	67.1	67.0	66.8	66.8	66.7	66.7
	26	66.4	66.9	67.2	67.4	67.7	67.9	67.8	67.7	67.5	67.2	66.9	66.6	66.4	66.4
	27	66.9	67.3	67.9	68.4	68.8	69.3	69.4	69.5	69.4	69.3	69.0	69.0	68.8	68.8
	28	69.4	70.0	70.6	71.2	71.8	72.3	72.4	72.6	72.4	72.3	72.4	72.3	72.2	72.2
	29	72.3	72.7	73.1	73.5	73.8	73.9	73.8	73.6	73.5	73.4	73.0	72.8	—	—
	30	—	—	—	—	—	—	—	—	—	—	—	—	—	70.7
	31	69.9	70.2	70.2	70.1	70.1	70.1	70.0	69.6	69.4	69.0	68.8	68.6	68.4	68.4
Hourly Means	67.94	68.29	68.62	68.94	69.24	69.41	69.44	69.44	69.32	69.17	68.98	68.80	68.30	—	

^a Good Friday.

VERTICAL FORCE.												
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fab°. = .00005.												
Mean Göttingen Time.	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.
MARCH.	1	—	—	—	—	—	—	—	—	—	—	—
	2	78·8	77·7	78·5	78·1	78·1	81·2	83·9	83·7	78·7	75·0	75·0
	3	79·2	79·7	80·8	81·1	81·8	83·1	86·6	86·9	78·3	74·3	73·4
	4	79·0	79·0	79·0	79·0	79·0	79·0	81·4	82·6	80·3	74·4	72·8
	5	75·4	75·4	75·4	75·4	76·0	78·5	81·5	81·8	78·5	72·3	67·8
	6	74·5	74·8	74·8	75·0	75·2	76·5	78·4	78·4	71·9	66·8	64·0
	7	73·8	74·1	—	—	74·1	76·2	78·1	80·9	79·3	72·7	67·8
	8	—	—	—	—	—	—	—	—	—	—	—
	9	78·1	79·1	78·9	75·5	78·1	79·2	80·8	82·4	80·6	77·5	74·7
	10	74·6	74·6	74·6	73·7	73·7	74·1	73·1	73·1	70·8	67·9	67·5
	11	72·2	72·2	72·8	72·8	72·8	73·7	75·6	76·8	73·4	68·3	63·7
	12	71·2	72·3	70·8	71·2	71·6	70·6	72·9	75·3	73·6	69·1	64·0
	13	72·0	72·0	72·9	71·7	72·6	73·2	75·5	76·0	73·1	62·7	64·5
	14	73·3	73·9	73·5	73·2	74·4	75·0	75·0	77·6	77·6	71·4	65·8
	15	—	—	—	—	—	—	—	—	—	—	—
	16	76·6	73·5	74·5	75·1	74·1	74·3	76·8	75·6	73·5	69·4	66·9
	17	73·1	73·1	74·1	74·1	74·1	75·1	75·2	75·2	73·9	68·4	66·1
	18	72·0	72·0	72·3	72·0	73·1	75·0	76·1	77·1	73·6	68·0	65·3
	19	71·0	71·0	70·3	71·3	72·6	74·4	73·6	72·3	68·2	64·2	67·6
	20	—	—	—	—	—	—	—	—	—	—	—
	21	72·7	71·0	72·2	72·2	71·5	73·3	75·9	77·7	74·7	69·6	68·5
	22	—	—	—	—	—	—	—	—	—	—	—
	23	75·2	70·4	73·1	74·5	73·7	73·7	75·1	75·1	75·1	70·6	68·4
	24	73·0	76·1	73·7	71·6	76·1	79·5	80·5	80·9	78·0	73·5	69·6
	25	72·2	75·1	75·1	75·2	76·3	76·3	76·8	78·2	78·2	74·9	70·3
	26	75·2	74·0	71·0	73·5	74·8	76·9	77·6	77·6	77·7	73·8	69·4
	27	71·7	71·2	72·2	71·7	72·4	72·9	74·2	75·5	74·1	69·6	65·3
	28	69·3	69·3	69·3	68·9	69·3	70·1	72·5	75·1	75·1	70·5	65·4
	29	—	—	—	—	—	—	—	—	—	—	—
	30	68·3	69·2	69·2	69·8	69·8	70·1	70·7	72·2	71·3	66·0	62·1
	31	71·0	71·0	71·5	72·3	71·9	73·2	74·4	75·7	74·3	68·5	63·8
Hourly Means	73·74	73·67	73·77	73·70	74·28	75·40	76·89	77·75	75·35	70·38	67·59	73·06

TEMPERATURE OF THE MAGNET.												
	°	°	°	°	°	°	°	°	°	°	°	°
MARCH.	1	—	—	—	—	—	—	—	—	—	—	—
	2	66·0	65·8	65·6	65·7	65·6	65·5	65·1	65·0	65·0	65·0	65·2
	3	64·6	63·9	63·7	63·5	63·2	63·0	63·0	63·0	63·4	63·4	63·6
	4	64·6	64·5	64·3	64·1	64·0	63·9	63·9	63·9	64·1	64·3	64·5
	5	67·0	66·8	66·6	66·1	65·8	65·5	65·3	65·3	65·3	65·6	65·8
	6	68·3	68·0	67·8	67·5	67·4	67·3	67·2	67·3	67·4	67·6	67·8
	7	69·4	69·2	—	—	68·6	68·4	68·3	68·3	68·3	68·5	68·6
	8	—	—	—	—	—	—	—	—	—	—	—
	9	65·5	65·1	65·1	65·0	64·9	64·9	64·9	65·0	65·2	65·4	65·8
	10	68·8	68·6	68·6	68·5	68·3	68·3	68·2	68·1	68·5	68·7	69·0
	11	69·9	69·8	69·6	69·4	69·3	69·2	69·2	69·2	69·3	69·6	69·8
	12	71·0	70·8	70·4	70·3	70·1	69·8	69·7	69·7	69·7	69·9	70·0
	13	69·6	69·2	69·1	68·8	68·6	68·2	67·8	67·8	67·8	67·9	68·1
	14	67·9	67·8	67·6	67·3	67·1	67·0	66·8	66·8	66·9	67·0	67·3
	15	—	—	—	—	—	—	—	—	—	—	—
	16	68·0	67·7	67·6	67·3	67·1	67·0	66·8	66·8	66·8	66·9	67·2
	17	68·4	68·2	68·0	67·8	67·6	67·5	67·5	67·5	67·6	68·0	68·3
	18	69·6	69·2	69·0	68·5	68·3	67·9	67·7	67·7	67·7	67·8	68·3
	19	69·3	69·0	69·0	68·9	68·8	68·8	68·6	68·5	68·6	68·5	68·9
	20	—	—	—	—	—	—	—	—	—	—	—
	21	69·1	68·8	68·8	68·8	68·7	68·4	68·3	68·3	68·5	68·5	68·9
	22	—	—	—	—	—	—	—	—	—	—	—
	23	67·9	67·7	67·6	67·5	67·3	67·3	66·8	66·8	66·8	66·8	66·9
	24	66·3	66·2	65·9	65·5	65·4	65·3	65·2	65·2	65·4	65·7	65·9
	25	66·5	66·4	66·2	66·1	65·9	65·7	65·5	65·6	65·7	65·8	66·1
	26	66·1	66·0	66·0	65·8	65·8	65·8	65·8	65·8	65·9	66·1	66·6
	27	68·8	68·6	68·5	68·4	68·1	67·9	67·9	67·9	68·2	68·4	68·8
	28	72·1	72·0	72·0	71·9	71·8	71·7	71·6	71·4	71·5	71·7	71·9
	29	—	—	—	—	—	—	—	—	—	—	—
	30	70·6	70·3	70·1	69·8	69·8	69·5	69·4	69·3	69·3	69·7	69·8
	31	68·0	67·8	67·6	67·5	67·4	67·4	67·3	67·3	67·6	67·8	68·0
Hourly Means	68·13	67·90	67·70	67·50	67·40	67·25	67·11	67·10	67·22	67·38	67·64	68·26

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
APRIL.	1	62.5	63.9	66.5	68.1	69.3	70.5	70.6	70.6	70.6	69.7	68.1	68.5	
	2	60.1	60.1	63.0	66.6	68.5	68.5	69.0	68.5	68.5	67.6	67.4	67.4	
	3	59.1	57.1	62.9	67.4	69.3	70.2	73.5	75.0	75.3	71.8	71.4	70.3	
	4	66.3	68.5	72.5	73.4	72.5	72.5	73.6	72.9	72.9	72.9	72.7	72.7	
	5	61.9	65.3	70.9	72.5	72.5	71.7	71.7	71.2	71.2	71.7	71.7	71.7	
	6	—	—	—	—	—	—	—	—	—	—	—	—	72.8
	7	58.2	62.0	65.3	69.3	72.0	72.0	72.7	72.0	70.8	71.2	71.6	71.6	71.9
	8	60.6	62.2	67.3	70.7	72.7	73.5	73.9	72.8	72.8	72.8	73.4	74.3	74.3
	9	61.6	63.5	68.2	71.9	75.1	75.0	75.8	74.9	74.0	74.0	74.6	75.3	73.4
	10	64.4	67.2	70.9	73.3	75.0	75.4	74.8	73.5	73.2	73.8	73.9	74.3	74.6
	11	64.3	66.5	69.7	71.9	73.3	73.7	73.7	73.0	72.2	73.0	73.5	73.5	73.5
	12	61.3	64.0	69.3	72.9	75.0	74.7	74.3	73.0	73.0	73.1	72.3	72.3	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	72.7
	14	69.4	73.5	79.1	79.7	83.8	76.8	79.4	83.4	75.3	75.3	75.3	72.1	73.4
	15	70.6	73.4	75.0	77.5	76.8	75.8	75.8	74.9	75.0	74.1	73.9	73.9	73.9
	16	69.7	70.8	71.4	72.7	73.2	72.8	72.8	72.8	71.9	71.9	71.5	71.5	70.6
	17	66.2	68.1	68.9	70.8	72.3	72.3	71.7	71.5	71.7	70.7	70.7	70.7	70.7
	18	64.3	65.9	68.4	70.2	74.0	74.6	72.9	72.9	73.9	75.0	75.0	70.5	70.5
	19	65.2	66.0	68.0	70.2	69.3	71.8	72.5	73.8	76.9	72.5	73.8	73.2	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	73.0
	21	68.1	67.5	69.0	70.3	71.0	71.9	72.4	72.4	73.4	74.0	72.6	72.6	70.9
	22	64.5	65.4	68.3	71.0	72.9	72.9	73.2	73.2	73.0	73.0	72.6	72.6	72.1
	23	65.9	68.6	70.4	71.3	72.4	72.7	72.7	72.7	70.4	72.8	73.6	71.5	70.7
	24	61.5	65.1	65.8	70.3	70.3	72.3	72.8	74.9	71.2	70.1	69.0	70.8	70.3
	25	64.5	69.7	71.1	72.2	74.0	75.0	75.5	67.7	67.7	72.5	72.3	70.7	71.5
	26	69.2	72.6	72.7	72.7	73.7	74.8	72.8	74.2	74.6	75.2	74.8	73.6	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	83.9
	28	70.1	73.6	75.2	75.2	76.2	73.2	73.8	73.8	72.4	70.4	69.6	71.0	71.6
	29	64.0	67.3	69.0	72.6	73.6	73.8	73.8	73.8	73.8	73.0	72.4	72.2	72.2
	30	66.7	66.4	67.4	69.7	71.5	73.2	72.5	71.1	70.6	70.1	72.2	72.2	74.2
Hourly Means	64.62	66.70	69.47	71.71	73.08	73.14	73.39	73.10	72.55	72.39	72.30	71.96	72.25	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
APRIL.	1	68.5	68.8	69.2	69.5	70.1	70.3	70.7	70.8	70.8	70.7	70.6	70.3	
	2	70.8	71.3	71.6	72.1	72.2	72.3	72.3	72.3	72.3	72.1	71.9	71.8	
	3	70.8	70.8	70.6	70.6	70.6	70.1	70.1	70.0	69.9	69.8	69.5	69.3	
	4	68.0	67.8	67.6	67.5	67.5	67.3	67.1	66.8	66.7	66.5	66.2	66.1	
	5	66.2	66.5	66.8	67.2	67.6	67.8	67.8	67.8	67.6	67.4	67.5	67.1	
	6	—	—	—	—	—	—	—	—	—	—	—	—	67.1
	7	67.0	67.1	67.5	67.7	67.7	67.8	67.6	67.6	67.5	67.5	67.5	67.4	67.3
	8	66.8	66.8	66.7	66.8	66.9	66.9	66.8	66.8	66.6	66.4	66.0	65.8	65.8
	9	64.8	65.0	65.1	65.1	65.1	65.1	64.8	64.8	64.5	64.3	64.2	64.1	63.9
	10	63.3	63.7	64.0	64.3	64.6	64.8	64.7	64.6	64.5	64.4	64.3	64.2	64.1
	11	64.0	64.7	65.1	65.5	65.9	66.1	65.9	65.9	65.8	65.6	65.6	65.3	65.1
	12	65.0	65.2	65.4	65.8	66.0	66.1	66.1	66.0	66.0	65.8	65.8	65.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	62.5
	14	62.5	62.7	62.7	63.0	63.1	63.0	63.1	63.1	63.1	63.0	62.8	62.6	62.2
	15	61.8	62.2	62.4	62.8	63.0	63.1	63.5	63.6	63.6	63.6	63.4	63.3	63.3
	16	63.0	63.5	64.0	64.4	64.9	65.0	65.2	65.4	65.4	65.4	65.4	65.4	65.4
	17	65.7	65.8	66.0	66.3	66.5	66.7	66.7	66.6	66.3	66.2	66.1	65.8	65.6
	18	64.9	65.1	65.4	65.6	66.1	66.2	66.6	66.6	66.5	66.4	66.2	65.8	65.8
	19	65.3	65.6	66.1	66.4	66.6	66.6	66.6	66.5	66.4	66.2	65.9	65.7	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	63.5
	21	63.2	63.4	63.7	64.0	64.2	64.4	64.3	64.2	64.1	64.0	63.8	63.6	63.3
	22	62.7	63.0	63.3	63.6	63.8	63.9	64.0	64.0	64.0	63.8	63.8	63.5	63.4
	23	62.2	62.5	63.0	63.6	63.9	64.1	64.3	64.3	64.2	64.0	63.8	64.0	64.0
	24	63.9	64.2	64.5	65.0	65.1	65.4	65.7	65.8	65.7	65.7	65.6	65.2	65.0
	25	63.7	63.8	63.9	63.9	63.9	63.8	63.5	63.4	63.1	62.9	62.8	62.3	62.1
	26	61.4	61.5	61.8	61.9	62.0	62.1	62.0	62.0	62.0	62.0	62.1	62.0	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	62.6
	28	62.7	63.1	63.4	63.8	64.2	64.4	64.5	64.4	64.4	64.3	64.1	64.0	63.8
	29	63.3	63.5	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.6
	30	63.5	63.5	63.8	63.8	63.9	64.0	64.1	64.1	64.0	63.8	63.7	63.6	63.4
Hourly Means	64.81	65.04	65.27	65.53	65.73	65.81	65.83	65.81	65.72	65.60	65.47	65.30	65.00	

VERTICAL FORCE.

One Scale Division = 00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	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.
1	69.1	68.7	69.5	67.6	69.3	69.0	69.7	70.6	70.4	65.8	61.0	68.25
2	67.4	67.1	67.4	67.4	67.1	68.0	70.0	71.6	71.6	65.3	62.2	66.99
3	69.0	68.8	68.8	69.9	70.2	69.6	69.6	72.8	71.6	69.1	66.3	69.08
4	72.1	72.1	72.1	71.5	72.4	72.4	73.6	74.4	71.2	66.1	63.1	71.47
5	—	—	—	—	—	—	—	—	—	—	—	70.34
6	72.3	71.8	71.8	71.4	70.7	71.7	72.5	74.3	69.4	64.2	61.2	70.13
7	71.9	69.8	71.8	71.8	72.0	74.3	76.6	74.8	70.5	65.6	63.4	72.41
8	74.3	73.9	73.9	73.9	73.9	76.0	79.0	79.7	77.0	70.5	64.4	73.74
9	74.3	74.7	75.1	75.1	75.5	77.1	79.1	80.1	79.6	74.5	67.4	73.32
10	74.7	74.7	74.7	74.7	74.7	76.2	77.3	78.1	74.7	70.0	65.6	71.71
11	73.0	73.0	73.0	73.0	72.8	72.8	73.5	73.5	72.4	68.8	63.4	73.30
12	—	—	—	—	—	—	—	—	—	—	—	75.70
13	83.5	71.0	73.4	78.8	72.0	77.4	78.6	74.5	79.2	75.2	67.8	74.43
14	73.4	74.9	75.1	75.1	74.8	74.8	74.0	76.5	76.5	74.7	70.6	71.76
15	73.4	72.8	73.5	73.5	73.9	74.2	74.6	78.2	77.5	73.0	71.1	70.55
16	70.6	70.2	71.3	72.2	72.2	72.5	73.3	74.1	73.0	71.0	68.2	71.11
17	70.7	70.7	71.6	71.6	71.5	71.5	72.6	73.2	71.8	67.5	64.3	71.77
18	71.0	67.6	71.0	70.1	69.2	71.3	72.0	72.7	73.8	72.0	—	71.95
19	—	—	—	—	—	—	—	—	—	—	—	71.55
20	69.1	71.9	73.5	73.2	72.8	72.3	74.0	77.3	72.9	70.5	68.7	70.75
21	70.9	72.1	72.9	72.9	71.9	71.9	74.8	78.1	77.2	71.3	66.6	69.90
22	72.1	72.4	72.4	72.0	71.1	72.3	74.4	76.2	74.3	69.0	66.4	69.90
23	71.7	71.5	69.8	69.2	70.7	71.2	72.1	74.5	70.8	67.7	63.2	71.70
24	70.3	70.3	70.3	70.3	70.6	69.9	69.9	71.8	75.1	70.1	64.5	74.11
25	72.8	72.8	72.8	73.7	73.4	72.4	72.4	73.5	72.6	71.3	68.6	72.02
26	—	—	—	—	—	—	—	—	—	—	—	71.98
27	71.2	75.0	75.5	75.2	69.2	73.2	74.6	74.8	75.8	74.8	74.5	72.12
28	70.5	70.9	72.0	72.0	72.0	71.3	71.7	74.0	72.7	69.7	65.5	—
29	71.5	71.5	72.1	72.1	72.6	71.1	70.6	74.2	75.5	74.4	70.4	—
30	75.2	76.7	76.2	74.1	74.6	72.5	72.5	76.0	74.4	72.2	68.6	—
Hourly Means	72.15	71.80	72.37	72.40	71.97	72.57	73.58	74.98	73.90	70.17	66.34	71.62

TEMPERATURE OF THE MAGNET.

1	70.2	70.1	70.0	70.0	70.0	69.8	69.8	69.8	69.9	70.2	70.5	70.05
2	71.6	71.3	71.2	71.1	71.0	70.9	70.9	70.9	70.9	70.9	70.9	71.51
3	69.0	68.9	68.8	68.6	68.5	68.3	68.1	68.1	68.1	68.1	68.0	69.33
4	66.0	66.0	65.6	65.3	65.2	65.2	65.2	65.1	65.3	65.5	65.7	66.30
5	—	—	—	—	—	—	—	—	—	—	—	67.03
6	67.1	67.0	66.8	66.8	66.8	66.7	66.6	66.6	66.6	66.6	66.8	67.23
7	67.2	67.2	67.0	66.9	67.0	66.9	66.8	66.8	66.8	66.8	66.8	65.80
8	65.4	65.3	65.3	65.1	65.0	64.8	64.6	64.5	64.5	64.7	64.8	63.95
9	63.7	63.5	63.3	63.2	63.0	62.9	62.8	62.8	62.8	62.9	63.1	63.88
10	64.0	63.9	63.7	63.5	63.2	63.1	63.0	63.0	63.1	63.5	63.7	64.97
11	65.0	64.8	64.5	64.4	64.3	64.1	64.1	64.1	64.3	64.5	64.7	64.07
12	—	—	—	—	—	—	—	—	—	—	—	62.27
13	62.4	62.6	62.7	62.5	62.5	62.5	62.2	62.4	62.1	62.1	62.2	62.72
14	62.1	61.9	61.8	61.8	61.7	61.5	61.3	61.2	61.3	61.4	61.5	65.01
15	63.1	63.0	62.8	62.3	62.2	62.0	61.8	61.8	61.9	62.2	62.6	65.54
16	65.3	65.3	65.1	65.1	65.1	65.1	65.3	65.2	65.3	65.5	65.6	65.45
17	65.5	65.4	65.1	65.0	64.8	64.6	64.5	64.3	64.3	64.4	64.7	64.61
18	65.5	65.2	65.0	64.8	64.8	64.5	64.6	64.6	64.6	65.0	65.1	63.05
19	—	—	—	—	—	—	—	—	—	—	—	62.90
20	63.5	63.3	63.4	63.2	63.1	62.8	62.8	62.7	62.7	62.7	63.0	63.67
21	63.1	62.8	62.5	62.2	61.9	61.5	61.4	61.5	61.7	62.0	62.4	64.61
22	63.1	62.9	62.7	62.3	61.9	61.8	61.6	61.5	61.6	61.5	61.9	62.41
23	64.0	63.8	63.7	63.8	63.8	63.7	63.6	63.3	63.3	63.5	63.7	62.09
24	64.8	64.8	64.2	64.1	64.1	64.0	63.6	63.5	63.5	63.6	63.7	63.60
25	61.9	61.8	61.7	61.6	61.5	61.1	61.0	60.9	60.9	61.1	61.3	63.50
26	—	—	—	—	—	—	—	—	—	—	—	63.40
27	62.5	62.5	62.6	62.6	62.3	62.0	62.0	61.8	61.9	62.1	62.4	—
28	63.8	63.7	63.5	63.3	63.1	63.0	63.1	62.8	62.9	63.0	63.0	—
29	63.6	63.6	63.4	63.4	63.4	63.2	63.3	63.2	63.2	63.3	63.4	—
30	63.3	63.2	63.1	63.0	62.9	62.8	62.8	62.7	62.8	62.9	63.0	—
Hourly Means	64.87	64.76	64.60	64.46	64.35	64.18	64.11	64.04	64.09	64.23	64.40	64.96

VERTICAL FORCE.															
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.															
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 .	12 ^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.	Sc. Div.		
	1	65.3	68.7	71.1	73.5	73.5	72.7	73.3	72.9	72.7	73.0	73.0	73.0	72.3	
	2	66.0	66.7	68.3	69.3	70.0	71.7	71.7	72.5	72.5	72.8	72.5	73.2	73.5	
	3	68.8	70.1	72.7	73.6	74.3	74.8	74.1	73.7	73.7	74.0	74.1	73.8	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	72.8	
	5	67.8	67.6	69.5	71.6	72.4	72.7	72.1	71.6	71.7	71.6	71.6	71.6	71.6	71.6
	6	62.7	64.2	67.1	69.7	71.2	70.7	70.4	70.4	71.0	71.4	71.4	71.4	71.4	71.4
	7	64.5	64.5	66.7	68.8	70.4	71.8	70.1	71.4	70.9	70.9	71.9	71.9	71.9	71.9
	8	69.3	69.3	69.6	70.5	72.4	73.0	73.0	72.5	73.2	73.5	72.9	72.9	72.9	72.6
	9	68.6	67.6	68.3	70.6	71.9	71.9	71.2	71.4	71.0	71.0	70.8	70.9	70.9	70.9
	10	67.4	67.6	68.4	70.4	72.6	72.7	72.3	72.0	72.0	71.4	71.1	71.1	—	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	—	74.5
	12	66.6	68.1	70.1	72.2	73.1	72.4	71.8	71.8	71.8	72.1	72.2	72.2	72.2	72.2
	13	69.1	68.6	70.1	72.0	73.0	73.6	73.6	72.2	72.5	73.6	75.4	75.4	76.3	76.3
	14	70.3	71.1	72.8	72.2	75.7	76.6	76.6	74.0	72.1	72.5	72.5	72.5	72.5	72.5
	15	65.6	69.6	72.4	73.5	76.8	78.0	77.0	76.4	74.8	72.4	71.9	73.2	71.9	71.9
	16	68.7	69.1	71.3	76.3	77.8	74.6	79.1	74.9	74.4	73.8	73.8	73.4	73.2	73.2
	17	70.3	70.3	70.2	72.6	73.5	74.2	74.2	74.7	74.9	74.9	74.9	76.4	—	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	—	79.8
	19	71.5	73.1	73.1	72.5	73.2	73.5	73.7	73.7	74.4	74.9	74.6	74.1	74.1	74.1
	20	68.8	68.0	68.0	69.2	71.6	71.7	71.6	71.6	71.6	71.7	71.4	73.4	73.6	73.6
	21	73.5	72.2	70.1	69.5	72.2	72.9	73.5	73.5	73.7	73.7	72.8	73.9	75.1	75.1
	22	68.7	68.7	69.7	71.8	75.0	76.9	78.3	77.8	77.8	77.4	74.6	74.2	73.7	73.7
	23	75.7	74.5	72.8	73.1	75.5	75.2	74.8	74.8	74.8	74.8	75.9	75.9	75.9	75.9
	24	72.5	71.9	71.9	74.7	76.2	75.6	75.1	75.4	76.3	75.3	75.3	76.0	—	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	—	76.3
	26	72.5	72.5	73.1	74.6	75.7	76.3	75.8	75.5	74.8	74.8	76.0	76.3	76.2	76.2
	27	73.8	73.8	74.9	75.5	77.0	77.0	77.0	76.6	76.3	76.0	75.3	75.3	76.0	76.0
	28	71.3	71.3	72.6	74.8	76.4	76.9	76.9	76.9	76.3	76.3	76.3	76.3	76.3	76.5
	29	73.1	73.1	74.2	76.8	76.8	78.2	78.2	78.2	78.2	78.8	78.8	78.8	78.8	78.8
30	78.3	77.3	76.2	77.4	79.0	79.9	79.9	81.2	82.2	83.2	82.4	82.6	81.5	81.5	
Hourly Means	69.64	69.98	70.97	72.57	74.12	74.44	74.43	74.14	74.06	74.07	73.98	74.22	74.43	74.43	
TEMPERATURE OF THE MAGNET.															
MAY.	1	63.1	63.3	63.7	63.8	63.9	64.0	64.0	64.0	63.9	63.9	63.8	63.8	63.7	
	2	63.3	63.4	63.6	63.7	63.8	63.7	63.6	63.2	62.8	62.8	62.5	62.0	62.0	
	3	60.2	60.5	60.5	60.6	60.8	61.0	61.0	60.8	60.8	60.8	60.6	60.5	—	
	4	—	—	—	—	—	—	—	—	—	—	—	—	62.1	
	5	61.4	61.8	62.2	62.8	63.2	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.6	63.6
	6	63.1	63.4	63.7	63.8	63.9	64.1	64.1	64.1	64.0	63.7	63.5	63.3	63.2	63.2
	7	63.1	63.4	63.5	63.7	63.8	63.7	63.6	63.6	63.4	63.2	62.8	62.8	62.6	62.6
	8	61.2	61.3	61.5	61.6	61.7	61.7	61.6	61.4	61.2	61.0	61.0	60.9	60.8	60.8
	9	61.1	61.5	61.8	62.0	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.4	62.4
	10	60.8	61.0	61.2	61.5	61.6	61.8	61.9	61.9	61.9	61.9	62.1	62.0	—	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	—	61.6
	12	61.2	61.6	61.6	61.9	62.1	62.0	62.0	62.0	61.8	61.7	61.3	61.2	60.8	60.8
	13	60.4	60.7	60.7	61.0	61.2	61.3	61.2	61.2	61.2	61.0	60.7	60.3	60.1	60.1
	14	58.5	58.9	59.1	59.3	59.7	59.8	59.9	60.0	60.1	60.1	60.0	60.0	60.0	60.0
	15	60.1	60.4	60.7	61.0	61.2	61.3	61.4	61.4	61.5	61.5	61.3	61.3	61.2	61.2
	16	60.8	60.9	60.8	61.0	60.9	60.9	60.9	60.8	60.8	60.8	60.8	60.7	60.6	60.6
	17	58.8	58.8	59.0	59.1	59.1	59.1	59.1	59.0	58.8	58.8	58.6	58.5	—	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	—	58.5
	19	58.6	58.8	59.0	59.3	59.6	59.8	59.9	60.0	60.0	59.9	59.8	59.7	59.5	59.5
	20	60.2	60.4	60.8	61.1	61.4	61.6	61.6	61.4	61.3	61.3	61.4	61.4	61.4	61.4
	21	61.0	61.0	61.0	61.0	60.9	60.8	60.9	60.9	60.8	60.5	60.4	60.3	60.2	60.2
	22	59.5	59.5	59.6	59.6	59.6	59.6	59.3	59.1	59.0	58.8	58.8	58.7	58.5	58.5
	23	57.7	57.9	58.2	58.3	58.5	58.6	58.7	58.7	58.8	58.7	58.5	58.5	58.3	58.3
	24	57.7	57.9	58.1	58.5	58.6	58.7	58.7	58.7	58.7	58.5	58.4	58.1	—	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	—	56.8
	26	56.4	56.6	57.0	57.3	57.6	57.8	57.8	57.8	57.7	57.6	57.4	57.3	57.0	57.0
	27	55.4	55.7	56.1	56.4	56.6	56.8	56.9	57.0	57.0	57.1	57.0	57.0	57.0	57.0
	28	57.6	57.7	57.8	57.9	57.9	57.9	57.9	57.8	57.6	57.5	57.5	57.2	57.0	57.0
	29	55.3	55.5	55.2	55.2	55.1	55.0	55.0	54.8	54.7	54.5	54.2	54.1	54.0	54.0
	30	53.2	53.4	53.3	53.3	53.4	53.3	53.2	53.0	52.8	52.7	52.6	52.6	52.7	52.7
Hourly Means	59.60	59.82	59.99	60.18	60.33	60.40	60.40	60.34	60.26	60.17	60.05	59.94	59.83	59.83	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah^t. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
MAY.	1	72.3	72.0	72.0	72.0	71.8	72.5	75.8	78.5	77.1	74.3	69.6	72.62
	2	73.2	72.9	73.4	73.4	72.5	72.5	73.4	76.6	75.4	72.2	68.8	71.88
	3	—	—	—	—	—	—	—	—	—	—	—	73.08
	4	72.8	72.6	72.6	72.6	73.7	72.0	72.6	74.5	74.9	74.3	70.8	
	5	71.4	71.3	71.1	70.8	70.6	70.0	70.7	73.2	73.1	69.7	64.8	
	6	71.4	71.7	71.8	71.2	70.6	74.9	71.8	73.7	73.5	71.7	66.1	70.48
	7	71.9	72.2	72.0	71.6	70.6	69.2	71.2	75.2	76.1	75.1	71.2	70.92
	8	72.0	72.0	72.0	71.0	71.0	70.0	72.1	76.2	76.6	74.4	70.2	72.18
	9	71.4	70.9	71.6	71.6	71.3	71.0	72.2	74.8	74.8	73.7	70.0	71.23
	10	—	—	—	—	—	—	—	—	—	—	—	71.80
	11	74.7	74.1	72.9	72.5	72.0	71.2	72.4	74.0	74.9	71.8	69.1	
	12	72.2	72.2	72.7	72.4	72.1	71.0	70.4	71.8	72.8	72.7	69.7	
	13	73.7	73.7	73.3	72.7	74.4	72.9	73.5	75.9	77.6	75.9	71.7	73.36
	14	70.3	72.3	73.3	73.3	73.0	71.3	71.7	74.1	76.6	73.5	68.6	72.89
	15	72.4	72.3	73.2	73.2	72.8	71.8	70.2	70.2	70.5	70.5	71.5	72.59
	16	72.9	72.9	73.5	73.5	73.7	72.6	73.9	76.7	76.7	74.9	72.1	73.91
	17	—	—	—	—	—	—	—	—	—	—	—	74.67
	18	75.6	74.1	76.2	74.5	74.0	75.5	76.4	78.1	78.1	76.1	72.6	
	19	74.1	74.1	73.5	72.5	72.5	71.3	73.2	77.4	78.0	76.1	72.3	
	20	73.6	73.1	73.1	73.1	72.3	70.3	70.4	74.7	76.0	74.8	73.5	71.96
	21	74.0	74.1	72.4	73.0	72.1	70.1	71.2	74.6	73.1	73.1	72.0	72.76
	22	73.7	74.8	75.3	74.6	74.1	73.5	72.4	76.2	79.5	79.5	78.8	74.88
	23	75.1	75.1	75.6	75.6	74.7	72.8	72.8	77.0	79.0	77.7	75.5	75.19
	24	—	—	—	—	—	—	—	—	—	—	—	75.85
	25	76.8	77.0	76.9	76.9	76.7	75.6	77.2	79.7	79.7	76.5	75.0	
	26	76.2	76.6	76.6	76.8	76.8	76.8	75.7	79.5	79.7	77.3	74.8	
	27	76.0	76.2	76.2	76.3	75.6	74.7	75.6	77.5	76.7	75.9	73.6	75.78
	28	76.5	76.5	77.0	77.1	77.1	75.9	75.9	78.0	78.0	77.1	74.2	75.92
	29	77.8	78.8	79.4	79.5	79.2	77.8	77.8	81.1	82.0	82.0	81.2	78.28
	30	80.7	79.9	79.1	79.0	77.1	76.7	77.2	81.4	82.3	82.1	81.0	79.90
Hourly Means	73.95	73.98	74.10	73.87	73.55	72.84	73.37	76.18	76.64	75.11	72.26	73.62	

TEMPERATURE OF THE MAGNET.

MAY.	1	63.6	63.4	63.4	63.4	63.2	63.1	62.9	63.0	63.0	63.0	63.1	63.50
	2	61.5	61.2	60.8	60.6	60.4	60.0	59.9	59.7	59.7	59.8	60.0	61.83
	3	—	—	—	—	—	—	—	—	—	—	—	60.88
	4	61.9	61.8	61.4	61.1	60.8	60.8	60.5	60.5	60.4	60.7	61.0	
	5	63.6	63.6	63.4	63.3	63.1	63.0	62.9	62.9	62.8	62.8	63.0	
	6	63.0	62.8	62.7	62.7	62.8	62.7	62.7	62.7	62.8	62.9	63.0	63.28
	7	62.0	62.0	61.9	61.8	61.6	61.3	61.0	60.9	60.8	60.9	61.0	62.43
	8	60.8	60.7	60.8	60.7	60.7	60.8	60.7	60.7	60.8	60.9	61.1	61.07
	9	62.0	61.8	61.4	61.0	60.8	60.6	60.4	60.3	60.3	60.5	60.7	61.60
	10	—	—	—	—	—	—	—	—	—	—	—	61.41
	11	61.6	61.5	61.4	61.3	61.3	61.0	60.9	60.9	60.9	60.9	61.0	
	12	60.8	60.7	60.6	60.5	60.4	60.3	60.1	59.9	59.9	59.9	60.2	
	13	59.8	59.6	59.4	59.0	58.8	58.5	58.2	58.1	58.1	58.2	58.3	59.88
	14	60.1	60.0	60.0	60.0	59.9	59.8	59.8	59.8	59.8	60.0	60.1	59.78
	15	61.1	61.0	60.9	60.8	60.8	60.6	60.6	60.5	60.5	60.7	60.7	60.94
	16	60.3	60.1	59.8	59.7	59.5	59.3	59.2	59.1	59.0	59.0	59.0	60.20
	17	—	—	—	—	—	—	—	—	—	—	—	58.57
	18	58.5	58.4	58.3	58.2	58.3	58.0	58.1	58.1	58.0	58.1	58.4	
	19	59.3	59.3	59.6	59.7	59.7	59.5	59.5	59.5	59.5	59.6	59.7	
	20	61.4	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.1	61.0	61.0	61.20
	21	60.1	59.9	59.8	59.6	59.6	59.5	59.5	59.5	59.4	59.4	59.3	60.22
	22	58.4	58.0	57.8	57.7	57.5	57.5	57.3	57.3	57.2	57.4	57.5	58.47
	23	58.1	58.0	57.9	57.8	57.8	57.7	57.6	57.4	57.4	57.3	57.5	58.08
	24	—	—	—	—	—	—	—	—	—	—	—	57.36
	25	56.8	56.8	56.7	56.6	56.4	56.0	55.9	55.9	55.9	56.0	56.2	
	26	56.7	56.5	56.0	56.0	55.8	55.5	55.0	55.0	55.0	55.0	55.2	
	27	57.0	57.1	57.0	57.0	57.0	57.0	57.1	57.1	57.2	57.4	57.5	56.85
	28	56.8	56.7	56.4	56.3	56.0	55.9	55.8	55.6	55.5	55.4	55.3	56.88
	29	53.8	53.8	53.8	53.8	53.6	53.1	52.9	52.9	52.8	52.9	53.1	54.13
	30	52.8	52.8	52.8	52.7	52.6	52.5	52.3	52.2	52.1	52.1	52.2	52.78
Hourly Means	59.68	59.57	59.43	59.33	59.22	59.05	58.93	58.87	58.84	58.92	59.04	59.67	

VERTICAL FORCE.													
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.													
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 .	12 ^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.
May 31	82.7	82.5	81.1	84.9	84.0	81.6	82.4	80.6	79.5	78.9	79.6	80.1	—
1	—	—	—	—	—	—	—	—	—	—	—	—	77.6
2	76.8	75.1	75.1	76.3	77.9	77.2	77.2	77.6	77.6	77.6	78.0	77.2	77.6
3	75.0	74.4	73.5	75.8	76.9	76.9	76.9	76.9	76.0	76.0	75.9	75.6	75.6
4	65.5	67.8	73.8	77.9	82.6	80.6	80.0	82.0	79.2	79.2	79.5	73.7	73.7
5	76.2	75.1	74.0	75.9	78.1	77.6	77.9	77.9	77.2	77.5	76.4	77.5	78.5
6	75.6	76.3	75.8	75.5	75.8	75.8	75.4	75.4	75.4	76.1	75.0	74.2	73.9
7	72.5	72.8	71.9	73.3	75.5	75.9	76.1	75.8	75.8	75.6	75.6	75.6	—
8	—	—	—	—	—	—	—	—	—	—	—	—	76.6
9	74.9	73.4	73.4	75.1	77.3	76.4	76.4	75.5	76.8	76.4	75.7	75.4	73.7
10	73.5	73.5	71.9	71.4	71.6	74.8	75.1	76.6	77.7	77.3	76.7	76.3	75.2
11	75.4	74.9	73.5	76.4	78.0	78.5	78.5	77.7	77.7	76.4	76.4	77.1	77.1
12	77.2	76.0	76.0	76.0	77.3	78.3	77.9	77.9	77.2	76.7	77.1	77.4	77.4
13	74.5	73.8	73.8	75.7	76.7	77.0	77.0	77.4	76.8	76.1	76.0	75.8	75.8
14	74.7	73.1	72.1	74.6	74.6	75.0	75.0	74.4	74.4	74.9	76.0	76.3	—
15	—	—	—	—	—	—	—	—	—	—	—	—	73.5
16	72.2	71.2	71.1	71.8	73.0	72.7	72.4	72.4	72.4	72.4	71.5	72.0	73.0
17	73.5	73.5	73.5	73.5	73.6	73.6	74.2	73.8	73.4	73.4	73.4	73.4	72.7
18	70.8	70.8	70.8	72.2	72.8	73.3	73.0	73.0	73.0	72.7	72.5	71.9	71.7
19	70.1	70.4	69.9	71.4	73.6	73.8	73.6	74.1	72.9	72.9	72.5	73.4	73.2
20	72.5	73.0	74.5	74.1	75.1	74.3	73.8	73.2	73.5	74.3	74.6	75.4	74.3
21	73.2	73.8	74.3	74.3	74.3	74.6	74.5	74.0	73.6	73.9	73.9	74.8	—
22	—	—	—	—	—	—	—	—	—	—	—	—	75.7
23	74.2	74.2	74.8	74.6	74.8	74.7	74.7	74.2	74.2	74.2	73.8	74.4	74.9
24	75.0	73.7	73.7	73.6	73.6	73.6	73.6	73.6	73.2	73.0	74.2	74.3	74.0
25	70.3	70.3	69.1	70.6	70.4	70.9	71.2	71.0	70.3	69.8	69.8	69.2	70.6
26	67.0	66.2	67.5	68.9	70.7	69.6	70.4	69.9	69.0	69.0	69.0	69.6	69.6
27	72.2	70.9	69.8	69.2	70.3	71.1	71.1	71.1	70.8	70.4	69.5	70.4	70.4
28	75.7	72.2	72.2	74.2	73.8	74.3	73.8	73.8	72.5	73.1	72.4	72.4	—
29	—	—	—	—	—	—	—	—	—	—	—	—	74.0
30	71.7	71.4	71.5	71.6	73.3	75.0	76.1	75.1	72.8	74.3	75.3	77.5	75.5
Hourly Means	73.57	73.09	73.02	74.18	75.22	75.27	75.32	75.19	74.73	74.70	74.63	74.65	74.45
TEMPERATURE OF THE MAGNET.													
May 31	52.4	52.5	52.8	53.0	53.1	53.6	53.0	54.0	54.0	54.0	53.9	53.5	—
1	—	—	—	—	—	—	—	—	—	—	—	—	53.8
2	52.4	52.8	53.1	53.6	53.8	54.0	54.1	54.1	54.1	54.1	53.9	53.9	53.9
3	53.6	53.8	54.0	54.4	54.8	55.0	55.0	55.1	55.0	55.0	55.2	55.2	55.2
4	55.1	55.4	55.4	55.5	55.5	55.5	55.6	55.5	55.4	55.1	54.8	54.7	54.5
5	53.6	53.9	54.1	54.3	54.5	54.6	54.8	54.8	54.6	54.5	54.3	54.1	54.1
6	54.7	55.1	55.3	55.4	55.7	55.7	55.7	55.6	55.6	55.6	55.6	55.5	55.5
7	55.0	55.1	55.5	55.8	56.0	56.1	56.1	56.0	56.0	55.8	55.6	55.5	—
8	—	—	—	—	—	—	—	—	—	—	—	—	56.5
9	56.4	56.5	56.4	56.5	56.5	56.5	56.6	56.5	56.3	56.2	56.1	55.9	55.8
10	55.2	55.4	55.7	56.0	56.0	56.0	56.1	56.1	56.0	56.0	55.9	55.8	55.6
11	54.3	54.4	54.2	54.2	54.2	54.1	54.3	54.1	54.0	53.8	53.7	53.3	53.1
12	52.0	52.3	52.6	52.8	53.1	53.5	53.4	53.4	53.4	53.1	53.1	53.0	53.1
13	52.4	52.6	53.2	53.6	53.8	54.2	54.5	54.6	54.7	54.7	54.7	54.9	54.9
14	54.6	54.8	55.2	55.7	55.8	56.0	56.3	56.2	56.2	56.0	56.0	55.8	—
15	—	—	—	—	—	—	—	—	—	—	—	—	57.0
16	56.8	56.8	57.2	57.5	57.7	58.0	58.1	58.1	58.0	58.0	58.0	57.8	57.6
17	57.0	57.1	57.5	57.6	57.8	58.0	58.0	58.0	58.1	58.1	58.0	57.9	57.8
18	57.1	57.4	57.7	57.9	58.0	58.0	58.4	58.3	58.3	58.3	58.2	58.3	58.5
19	58.8	58.8	58.9	59.0	58.9	59.0	59.0	58.9	58.8	58.7	58.4	58.0	57.8
20	56.7	56.8	56.8	57.2	57.6	57.5	57.5	57.4	57.2	57.1	57.1	57.1	56.8
21	55.6	56.1	56.2	56.6	56.9	57.1	57.5	57.5	57.5	57.5	57.2	57.1	—
22	—	—	—	—	—	—	—	—	—	—	—	—	56.8
23	55.5	56.0	56.3	56.6	57.1	57.3	57.6	57.6	57.6	57.5	57.2	57.0	56.8
24	56.0	56.4	56.8	57.3	57.7	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.1
25	59.0	59.2	59.8	60.2	60.6	60.8	61.0	61.0	61.1	61.2	61.2	61.3	61.3
26	61.1	61.2	61.3	61.3	61.3	61.3	61.1	61.1	61.0	60.8	60.8	60.6	60.4
27	59.5	59.5	59.6	59.6	59.6	59.6	59.4	59.4	59.3	59.3	59.3	59.2	59.1
28	57.8	57.9	58.1	58.2	58.3	58.3	58.2	58.0	58.2	57.8	57.6	57.1	—
29	—	—	—	—	—	—	—	—	—	—	—	—	55.8
30	56.2	56.3	56.6	56.8	56.9	57.0	56.9	56.8	56.9	56.8	56.5	56.3	56.0
Hourly Means	55.72	55.93	56.17	56.41	56.58	56.72	56.81	56.77	56.74	56.65	56.55	56.42	56.38

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
May 31	—	—	—	—	—	—	—	—	—	—	—	—
1	77.4	77.4	78.0	78.0	77.4	77.3	77.3	80.6	83.4	82.3	79.3	80.16
2	77.4	77.3	77.3	77.3	77.3	76.7	77.2	79.4	79.9	78.8	76.3	77.34
3	75.6	75.4	74.9	74.9	74.9	74.9	74.9	77.9	79.5	74.6	68.2	75.46
4	76.9	76.9	76.6	76.3	76.3	75.1	73.5	76.9	78.6	80.6	76.2	76.64
5	77.9	77.9	77.2	77.4	77.4	75.5	74.5	77.2	79.1	78.1	75.6	76.98
6	73.9	74.4	74.4	74.4	74.4	72.5	73.0	73.7	74.9	74.9	72.8	74.73
7	—	—	—	—	—	—	—	—	—	—	—	—
8	73.7	76.8	75.0	75.0	75.0	72.8	71.1	73.3	76.4	78.0	75.9	74.83
9	73.7	73.3	73.3	74.0	73.2	71.2	70.7	72.3	73.3	75.1	73.5	74.33
10	75.2	75.2	75.2	75.2	74.7	73.4	73.0	76.3	77.2	76.7	76.7	75.52
11	77.1	77.1	77.1	77.6	77.3	76.1	76.1	77.2	78.8	77.6	77.2	76.95
12	77.6	76.6	77.2	77.5	77.5	76.4	75.7	77.5	78.5	77.7	74.9	77.06
13	75.2	75.6	75.2	75.2	75.2	74.4	73.4	75.7	78.2	79.1	77.5	75.88
14	—	—	—	—	—	—	—	—	—	—	—	—
15	73.3	73.1	73.0	73.1	72.7	71.6	72.3	74.1	76.1	74.8	74.8	74.06
16	73.0	73.3	72.4	72.3	72.4	72.0	71.6	73.3	75.3	75.3	73.5	72.60
17	72.7	72.7	72.6	72.6	72.4	71.7	71.7	73.1	75.3	74.5	71.8	73.19
18	71.5	71.5	72.1	72.4	71.6	71.0	70.8	72.4	73.1	72.5	71.4	72.03
19	72.7	72.7	73.3	73.7	73.2	72.8	72.5	73.7	76.2	76.9	73.5	73.04
20	74.3	74.3	73.1	73.1	73.0	70.5	69.7	71.1	74.2	76.8	74.4	73.63
21	—	—	—	—	—	—	—	—	—	—	—	—
22	74.6	75.0	75.0	74.5	73.8	72.6	72.2	73.7	74.8	74.0	73.1	74.09
23	75.0	75.1	75.1	75.6	74.0	73.0	71.4	73.7	76.2	77.1	77.1	74.63
24	73.4	73.4	73.4	73.4	72.0	70.9	69.6	70.9	72.0	72.8	70.9	72.99
25	70.6	70.7	70.0	70.0	70.0	68.5	67.1	68.4	70.3	70.3	67.9	69.89
26	69.6	69.6	70.1	70.5	70.5	69.4	67.4	68.7	69.7	70.5	71.3	69.32
27	70.7	70.2	70.2	69.3	69.6	68.9	66.5	70.8	72.5	73.2	74.6	70.57
28	—	—	—	—	—	—	—	—	—	—	—	—
29	72.9	72.1	72.1	71.0	71.0	71.0	68.4	71.3	72.3	72.1	72.2	72.53
30	77.1	75.7	75.7	74.2	73.4	74.2	73.0	74.5	75.8	74.3	71.8	74.20
Hourly Means	74.35	74.36	74.21	74.17	73.85	72.86	72.10	74.14	75.83	75.72	73.94	74.31

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
May 31	—	—	—	—	—	—	—	—	—	—	—	—
1	53.6	53.4	53.3	52.8	52.6	52.5	52.2	51.8	51.8	51.8	52.1	53.01
2	53.9	53.9	53.9	53.6	53.5	53.3	53.2	53.0	53.0	53.2	53.4	53.57
3	55.2	55.2	55.2	55.2	55.2	54.9	54.9	54.8	54.8	54.8	55.0	54.85
4	54.3	54.1	53.9	53.8	53.8	53.7	53.5	53.4	53.3	53.3	53.5	54.53
5	53.9	53.9	54.0	54.0	54.0	53.9	53.9	54.0	54.1	54.3	54.5	54.20
6	55.4	55.3	55.0	54.9	54.8	54.7	54.6	54.5	54.6	54.5	54.7	55.17
7	—	—	—	—	—	—	—	—	—	—	—	—
8	56.5	56.5	56.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.2	55.96
9	55.7	55.6	55.4	55.3	55.2	54.9	55.0	54.8	54.8	54.8	55.0	55.78
10	55.5	55.3	55.1	55.1	55.0	54.8	54.8	54.7	54.6	54.5	54.5	55.40
11	52.9	52.8	52.7	52.6	52.3	52.0	51.7	51.5	51.4	51.5	51.8	53.12
12	52.9	52.7	52.5	52.3	52.1	51.8	51.6	51.5	51.5	51.7	52.0	52.56
13	54.9	54.9	54.8	54.7	54.6	54.4	54.1	54.0	53.8	53.9	54.2	54.21
14	—	—	—	—	—	—	—	—	—	—	—	—
15	57.0	56.9	57.0	56.8	56.8	56.6	56.3	56.2	56.1	56.2	56.5	56.17
16	57.5	57.3	57.1	57.0	56.9	56.9	56.8	56.7	56.7	56.7	56.8	57.33
17	57.7	57.4	57.3	57.1	56.8	56.5	56.3	56.3	56.3	56.3	56.8	57.33
18	58.6	58.4	58.4	58.3	58.4	58.3	58.3	58.3	58.2	58.5	58.6	58.20
19	57.7	57.5	57.2	57.1	56.8	56.7	56.5	56.4	56.4	56.5	56.6	57.85
20	56.8	56.6	56.2	56.0	55.9	55.8	55.5	55.3	55.3	55.4	55.5	56.55
21	—	—	—	—	—	—	—	—	—	—	—	—
22	56.7	56.6	56.4	56.1	56.0	55.8	55.5	55.1	55.1	55.2	55.3	56.39
23	56.7	56.5	56.5	56.1	56.0	55.6	55.5	55.5	55.5	55.6	55.8	56.48
24	58.0	58.1	58.1	58.1	58.1	58.3	58.3	58.5	58.6	58.6	58.8	57.90
25	61.2	61.2	61.1	61.0	60.9	60.9	60.9	60.8	60.9	60.9	60.9	60.77
26	60.1	59.9	59.8	59.5	59.5	59.3	59.2	59.2	59.2	59.3	59.4	60.32
27	59.0	58.8	58.7	58.6	58.5	58.3	58.1	57.8	57.7	57.7	57.7	58.89
28	—	—	—	—	—	—	—	—	—	—	—	—
29	55.9	55.9	56.0	56.1	56.1	56.1	55.9	55.8	55.8	55.9	56.2	56.96
30	55.8	55.5	55.1	54.9	54.8	54.6	54.2	54.0	53.9	53.9	54.1	55.70
Hourly Means	56.28	56.16	56.03	55.89	55.80	55.64	55.50	55.38	55.37	55.43	55.61	56.12

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
JULY.	1	73.2	74.6	74.6	75.2	77.0	76.2	75.4	75.4	75.7	75.0	75.3	75.7	76.2
	2	73.9	72.8	73.9	75.8	76.8	76.1	75.6	74.4	73.7	73.7	73.1	73.3	73.9
	3	73.2	71.2	71.2	72.5	74.1	74.1	73.7	73.7	73.7	73.7	73.0	73.0	73.0
	4	72.1	71.5	71.5	72.5	73.2	74.4	74.3	74.8	74.4	74.7	74.7	74.7	74.1
	5	70.8	72.2	72.2	73.8	75.3	75.2	74.2	74.6	74.9	74.3	75.1	75.6	—
	6	—	—	—	—	—	—	—	—	—	—	—	—	73.8
	7	73.2	72.6	72.6	73.9	76.2	76.6	74.9	74.9	74.0	73.2	72.0	72.3	73.3
	8	72.4	71.2	70.2	72.7	73.0	72.9	71.8	71.3	73.3	73.0	72.1	71.2	71.2
	9	70.8	70.0	70.0	70.0	71.7	71.7	71.3	71.3	71.3	70.9	70.9	70.9	70.9
	10	70.5	68.8	69.2	69.8	68.3	69.4	69.8	69.0	68.7	68.7	67.8	67.8	68.7
	11	68.8	67.4	67.4	66.8	68.0	68.0	68.1	67.6	66.8	67.3	67.0	67.1	67.1
	12	67.5	67.5	65.9	65.9	67.1	67.9	67.8	67.9	67.6	67.4	68.0	66.7	—
	13	—	—	—	—	—	—	—	—	—	—	—	—	69.5
	14	65.7	64.4	64.4	67.2	70.1	71.7	72.1	72.1	71.3	71.3	71.0	71.0	71.7
	15	71.8	70.8	70.1	72.4	73.1	73.4	73.3	73.0	72.4	72.3	72.3	71.2	71.2
	16	69.5	68.2	67.4	69.8	71.0	71.0	71.3	70.8	70.8	70.2	70.2	70.2	69.7
	17	68.2	67.4	67.7	69.2	70.2	69.4	68.6	68.8	69.9	69.9	69.7	69.7	69.0
	18	63.5	60.8	62.4	65.6	67.8	68.3	69.1	69.1	67.4	69.1	69.1	69.1	70.2
	19	67.5	65.8	65.8	68.6	70.8	70.1	70.1	69.3	69.8	69.9	70.3	69.9	—
	20	—	—	—	—	—	—	—	—	—	—	—	—	71.3
	21	68.0	69.0	70.8	70.0	68.2	69.4	69.7	69.7	69.1	69.3	70.2	70.2	70.2
	22	69.9	68.6	68.6	69.1	71.4	71.4	70.6	70.8	70.8	70.8	71.1	71.1	71.1
	23	72.8	72.6	68.4	68.5	72.7	75.3	74.4	72.9	73.8	73.6	73.6	72.5	72.3
	24	72.8	71.4	69.1	70.4	74.6	75.0	74.9	76.0	74.7	72.5	72.4	72.5	72.6
	25	80.7	76.4	74.4	76.1	76.9	76.0	76.2	78.1	75.3	73.6	73.2	74.5	73.5
	26	71.4	71.4	73.1	72.8	73.7	74.2	74.2	74.2	74.2	73.5	73.1	73.9	—
	27	—	—	—	—	—	—	—	—	—	—	—	—	71.6
	28	71.4	70.5	68.3	70.0	72.4	72.4	73.0	72.7	73.0	72.3	71.0	71.3	71.5
	29	70.3	69.8	69.8	70.9	71.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	70.8
	30	71.0	70.5	66.3	68.5	72.4	72.4	73.5	75.7	73.8	73.2	72.8	71.0	69.0
	31	70.6	69.4	67.9	69.5	72.6	73.2	73.2	73.2	72.3	72.3	72.2	72.2	72.2
Hourly Means	70.80	69.88	69.38	70.65	72.21	72.49	72.32	72.33	72.01	71.75	71.58	71.49	71.47	
TEMPERATURE OF THE MAGNET.														
JULY.	1	54.4	54.6	54.9	55.1	55.5	55.6	55.5	55.6	55.6	55.5	55.5	55.3	
	2	54.8	55.1	55.3	55.7	56.0	56.1	56.1	56.1	56.1	56.0	56.0	55.8	
	3	56.3	56.5	56.7	57.1	57.3	57.3	57.5	57.5	57.5	57.5	57.3	57.2	
	4	56.2	56.3	56.6	56.7	56.8	56.8	56.6	56.6	56.6	56.4	56.2	56.0	
	5	55.3	55.4	55.7	55.8	56.0	55.9	56.0	56.1	56.3	56.2	56.1	56.0	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	56.6	56.9	57.5	58.0	58.4	58.8	58.9	59.0	59.0	58.8	58.7	58.5	
	8	57.8	58.2	58.7	59.3	59.8	60.1	60.2	60.2	60.2	60.1	60.1	60.0	
	9	59.6	60.1	60.3	60.7	61.0	61.4	61.6	61.7	61.7	61.6	61.2	61.1	
	10	59.8	60.1	60.6	61.1	61.5	61.5	61.8	61.8	61.8	61.7	61.5	61.1	
	11	60.9	61.2	61.3	61.7	61.8	62.0	62.4	62.5	62.8	62.8	62.6	62.6	
	12	62.5	62.7	62.8	62.9	63.0	63.0	63.1	63.1	63.1	63.0	62.8	62.8	
	13	—	—	—	—	—	—	—	—	—	—	—	—	
	14	56.1	56.1	56.1	56.2	56.2	56.1	56.0	55.9	55.7	55.5	55.4	55.1	
	15	53.5	53.8	54.1	54.4	54.7	54.8	54.9	55.1	55.1	55.2	55.2	55.2	
	16	56.1	56.4	56.4	56.6	56.8	56.9	57.0	57.1	57.1	57.1	57.0	56.9	
	17	56.3	56.6	57.0	57.6	57.8	58.0	58.0	58.0	57.9	57.9	58.0	57.9	
	18	57.3	57.7	58.1	58.4	58.9	59.0	59.1	59.1	59.0	58.8	58.6	58.4	
	19	56.8	57.0	57.4	57.6	57.8	58.0	58.0	57.9	57.8	57.8	57.9	57.9	
	20	—	—	—	—	—	—	—	—	—	—	—	—	
	21	57.6	57.6	57.6	57.8	58.1	58.1	58.0	57.9	58.0	57.8	57.6	57.5	
	22	57.2	57.2	57.1	57.1	57.1	57.1	57.0	57.0	56.9	56.9	56.7	56.6	
	23	56.0	56.2	56.1	56.2	56.2	56.2	56.0	55.8	55.8	55.8	55.6	56.0	
	24	55.9	56.0	56.2	56.3	56.3	56.4	56.7	56.8	56.8	56.7	56.7	56.2	
	25	54.2	54.3	54.4	54.5	54.6	54.8	55.0	55.1	55.0	54.9	54.8	54.6	
	26	53.0	53.3	53.5	54.0	54.2	54.3	54.6	54.7	54.7	54.7	54.5	54.5	
	27	—	—	—	—	—	—	—	—	—	—	—	—	
	28	55.1	55.1	55.4	55.6	55.6	55.6	55.5	55.5	55.6	55.6	55.4	55.2	
	29	54.2	54.3	54.6	54.7	54.9	55.1	55.1	55.1	55.5	55.6	55.6	55.6	
	30	55.2	55.6	55.7	55.8	56.0	56.0	56.2	56.2	56.4	56.4	56.4	56.0	
	31	55.6	55.7	55.8	56.1	56.3	56.4	56.5	56.4	56.4	56.4	56.5	56.5	
Hourly Means	56.46	56.67	56.89	57.15	57.36	57.46	57.53	57.55	57.57	57.51	57.40	57.29		

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Gottingen Time.	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.	
JULY.	1	75.8	75.8	75.0	74.3	73.8	74.2	74.7	75.2	75.8	76.9	75.0	75.25
	2	73.5	73.1	73.3	73.3	73.3	72.2	72.2	75.0	77.3	75.8	73.2	74.13
	3	73.0	72.6	73.0	72.5	71.4	70.8	70.9	73.9	75.9	75.9	74.1	73.09
	4	74.1	73.3	73.6	73.6	73.3	72.0	72.0	73.0	74.2	74.1	72.1	73.43
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	73.8	74.5	75.1	72.2	71.8	71.3	69.4	70.9	72.2	73.4	73.8	73.35
	7	69.5	73.2	73.1	72.4	72.4	71.4	70.0	70.8	74.0	75.2	74.5	73.18
	8	71.2	71.2	71.7	72.3	71.3	67.9	67.9	70.1	72.3	73.0	71.9	71.55
	9	70.0	71.1	72.0	69.5	70.1	69.1	68.6	68.9	71.5	72.9	72.3	70.74
	10	68.7	69.6	69.5	68.7	67.0	67.0	65.5	67.1	68.9	70.0	69.3	68.66
	11	67.1	67.4	67.4	67.0	67.0	64.5	63.8	66.0	67.8	69.2	68.4	67.21
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	69.7	69.3	68.7	68.7	68.7	68.7	68.7	70.6	72.2	70.4	69.2	68.40
	14	71.7	71.3	71.8	71.8	71.7	71.7	71.3	74.0	75.8	76.5	73.5	71.05
	15	71.2	71.2	71.2	70.7	70.7	69.7	69.2	71.2	72.6	74.3	72.2	71.73
	16	69.7	69.2	69.2	69.2	69.2	69.5	69.5	72.3	73.6	73.2	70.6	70.22
	17	69.0	69.5	69.0	69.0	68.6	68.1	67.7	70.2	71.4	70.3	66.3	69.03
	18	69.2	69.6	68.8	68.8	68.8	68.3	68.3	70.9	71.7	71.0	69.3	68.18
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	69.8	70.2	70.3	70.6	68.8	67.3	67.3	68.0	71.0	71.9	69.4	69.33
	21	70.5	70.5	70.0	69.7	69.4	67.7	67.7	70.0	73.2	74.3	73.1	70.00
	22	71.2	71.2	71.0	71.0	70.7	68.4	62.3	64.1	68.4	71.4	71.9	69.87
	23	71.6	71.8	72.3	72.2	72.2	71.1	67.0	69.7	72.6	74.5	74.5	72.20
	24	74.0	73.7	72.8	72.1	70.9	68.8	68.7	69.8	73.1	78.3	80.7	72.99
	25	73.5	73.5	73.5	74.1	73.2	73.3	73.3	75.0	75.3	76.0	73.9	74.98
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	72.0	72.0	72.2	72.2	72.5	71.8	70.8	73.1	74.8	74.1	72.8	72.90
	28	71.5	71.7	71.8	71.8	71.8	70.5	70.5	72.1	72.9	74.2	72.6	71.72
	29	70.8	70.8	70.8	70.8	70.8	70.1	69.4	70.9	72.7	73.5	71.0	71.04
	30	68.5	69.5	70.0	68.3	70.4	70.1	70.1	72.3	73.8	73.5	71.6	71.18
	31	72.2	72.2	71.8	71.5	70.5	69.1	69.9	72.5	74.3	76.0	73.1	71.83
Hourly Means	71.21	71.44	71.44	71.05	70.75	69.80	69.14	71.02	72.94	73.70	72.23	71.38	

TEMPERATURE OF THE MAGNET.

JULY.	1	55.3	55.1	55.1	55.0	54.8	54.6	54.5	54.5	54.5	54.5	54.7	55.05
	2	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.9	56.0	55.80
	3	57.0	56.8	56.8	56.7	56.5	56.5	56.2	56.1	56.0	56.1	56.1	56.82
	4	55.7	55.6	55.6	55.5	55.3	55.0	55.0	55.0	55.0	55.1	55.1	55.90
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	57.0	56.8	56.7	56.5	56.3	56.1	56.0	56.0	56.0	56.0	56.3	56.15
	7	58.2	58.2	57.8	57.6	57.4	57.5	57.2	57.1	57.2	57.3	57.5	57.93
	8	59.7	59.6	59.4	59.3	59.2	59.0	59.0	59.0	59.1	59.2	59.4	59.43
	9	60.6	60.3	60.2	60.0	60.0	59.8	59.7	59.6	59.5	59.4	59.6	60.48
	10	60.9	60.8	60.8	60.8	60.7	60.6	60.5	60.5	60.5	60.5	60.6	60.94
	11	62.5	62.5	62.5	62.4	62.4	62.1	62.1	62.0	62.0	62.2	62.3	62.18
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	58.3	58.1	57.6	57.1	56.8	56.6	56.3	56.1	56.0	56.0	56.0	59.92
	14	54.7	54.5	54.2	53.9	53.5	53.3	53.1	53.0	53.0	53.1	53.3	54.78
	15	55.2	55.3	55.4	55.4	55.5	55.4	55.4	55.3	55.4	55.7	55.8	55.04
	16	56.8	56.8	56.8	56.7	56.5	56.1	55.9	55.7	55.7	55.8	56.1	56.55
	17	57.6	57.5	57.5	57.4	57.2	57.2	56.9	56.8	56.7	56.8	57.1	57.39
	18	58.0	57.8	57.5	57.1	56.8	56.6	56.4	56.4	56.4	56.6	56.7	57.79
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	57.7	57.6	57.5	57.3	57.4	57.3	57.4	57.4	57.3	57.2	57.2	57.53
	21	57.2	57.2	56.9	57.0	57.1	57.0	57.0	57.0	57.0	57.1	57.2	57.44
	22	56.3	56.0	56.1	56.1	56.1	56.0	56.0	55.9	55.9	55.9	55.9	56.53
	23	56.2	56.3	56.2	56.2	56.2	56.4	56.4	56.1	55.9	55.9	55.9	56.07
	24	55.6	55.5	55.1	54.8	54.7	54.4	54.3	54.0	53.9	53.9	54.0	55.54
	25	53.8	53.7	53.3	53.0	52.9	52.6	52.6	52.4	52.5	52.6	52.8	53.86
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	55.5	55.4	55.3	55.2	55.0	55.1	54.9	54.8	54.9	54.9	55.0	54.65
	28	54.8	54.7	54.6	54.5	54.3	54.0	53.8	53.8	53.9	53.8	54.0	54.85
	29	54.8	54.9	54.9	54.9	54.9	54.8	54.8	54.8	54.8	54.9	55.1	54.96
	30	56.1	56.1	55.9	55.8	55.7	55.4	55.5	55.3	55.3	55.3	55.4	55.81
	31	56.5	56.5	56.3	56.3	56.3	56.1	56.1	56.0	56.1	56.1	56.1	56.23
Hourly Means	56.96	56.87	56.73	56.60	56.49	56.34	56.25	56.16	56.16	56.21	56.34	56.87	

VERTICAL FORCE.															
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.															
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 .	12 ^h .		
AUGUST.	1	68.3	70.0	73.7	73.9	77.7	81.8	78.5	75.6	74.9	73.7	75.6	76.0	73.8	
	2	71.6	69.1	71.2	73.4	74.5	74.4	75.2	74.7	74.7	76.1	76.6	77.1	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	75.4	
	4	78.8	76.2	76.1	74.7	76.8	75.8	75.6	74.4	74.4	74.4	75.2	75.2	75.2	75.0
	5	74.6	74.1	73.1	71.9	75.7	77.7	76.6	77.2	77.4	76.9	77.7	77.4	77.4	76.8
	6	73.4	73.4	74.0	74.7	75.3	76.1	76.1	75.8	74.7	74.7	74.9	74.9	74.9	73.4
	7	71.3	71.8	73.0	72.4	73.1	74.3	72.6	72.6	72.6	72.2	73.4	73.4	73.4	73.4
	8	71.6	70.3	70.3	70.3	71.5	73.5	73.5	73.8	73.8	73.6	73.3	73.3	73.8	73.3
	9	77.4	76.8	73.5	73.5	74.8	76.9	78.7	78.2	77.6	77.1	76.7	77.5	—	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	—	77.5
	11	74.9	73.0	72.3	72.6	73.8	76.0	76.0	75.6	75.1	75.5	75.3	75.0	75.0	75.0
	12	73.9	72.1	71.0	72.8	74.1	75.5	75.5	75.1	74.8	74.4	74.4	74.1	74.0	74.0
	13	73.9	72.0	71.4	72.3	74.0	74.4	74.4	74.0	73.1	72.7	72.7	73.0	73.0	73.0
	14	70.1	68.8	68.8	69.3	71.5	72.4	72.4	72.4	72.4	71.7	70.9	70.9	71.1	71.1
	15	71.4	70.2	67.8	72.9	76.4	76.4	75.6	71.3	71.3	71.3	70.7	71.3	71.3	71.3
	16	69.6	68.9	70.4	72.0	72.3	73.1	73.1	72.2	73.1	72.6	72.2	72.1	—	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	—	77.2
	18	71.6	74.7	71.1	71.1	72.1	73.4	72.3	72.3	71.5	71.5	71.3	71.3	71.3	73.0
	19	69.3	72.0	72.5	72.7	74.2	72.5	72.9	73.5	72.5	72.5	72.5	72.5	72.5	73.4
	20	75.2	74.0	74.5	71.5	72.4	75.0	73.5	74.5	74.5	74.7	74.7	75.2	75.2	75.8
	21	74.9	76.4	76.4	77.0	77.0	77.3	75.9	75.3	74.7	74.7	75.3	75.3	75.3	75.7
	22	75.3	76.1	75.2	76.0	76.5	77.4	76.6	76.4	74.1	75.0	75.0	75.0	75.0	75.1
	23	77.2	76.6	76.5	75.9	73.7	75.1	74.1	74.8	74.0	74.0	76.5	76.1	—	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	—	76.6
	25	73.8	72.6	72.3	73.6	75.2	75.7	75.3	74.9	74.9	75.1	74.1	74.1	74.1	72.9
	26	70.9	73.3	73.9	74.1	79.4	80.4	81.9	79.3	76.0	73.6	72.9	72.9	72.9	74.7
	27	74.1	72.7	70.2	71.3	73.8	74.3	73.9	73.7	73.7	73.7	72.8	72.7	72.7	73.1
	28	69.7	69.7	70.8	72.4	73.1	73.8	73.8	73.4	72.9	73.7	74.7	74.2	72.7	72.7
	29	67.8	71.6	67.2	68.5	71.3	72.1	73.7	80.5	77.4	82.1	84.1	72.8	69.4	69.4
	30	74.6	76.2	73.6	73.0	72.8	72.1	72.1	76.2	72.3	74.2	71.9	72.8	—	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	—	72.0
Hourly Means	72.89	72.79	72.34	72.84	74.35	75.28	74.99	74.91	74.16	74.28	74.44	74.10	74.02	—	
TEMPERATURE OF THE MAGNET.															
AUGUST.	1	56.2	56.2	56.2	56.2	56.1	56.2	56.1	56.0	56.0	56.0	55.8	55.8	55.6	
	2	54.6	54.7	54.5	54.5	54.6	54.5	54.5	54.4	54.1	53.9	53.7	53.4	—	
	3	—	—	—	—	—	—	—	—	—	—	—	—	52.8	
	4	53.2	53.3	53.5	53.8	53.8	53.8	54.0	54.0	54.0	53.9	53.7	53.5	53.3	
	5	52.4	52.5	52.7	52.9	52.9	52.9	52.9	52.8	52.8	52.7	52.6	52.6	52.8	
	6	52.3	52.7	53.0	53.3	53.6	53.8	53.8	53.8	54.0	54.0	54.3	54.3	54.4	
	7	55.1	55.4	55.5	55.8	56.0	56.1	56.2	56.3	56.3	56.4	56.1	56.0	56.0	
	8	56.3	56.5	56.5	56.6	56.6	56.5	56.4	56.3	56.3	56.0	55.8	55.8	55.6	
	9	53.4	53.4	53.6	53.6	53.6	53.6	53.5	53.3	53.0	52.8	52.5	52.3	—	
	10	—	—	—	—	—	—	—	—	—	—	—	—	52.3	
	11	52.8	53.1	53.3	53.5	53.7	53.7	53.8	53.8	53.8	53.8	53.7	53.6	53.5	
	12	52.5	52.8	53.4	53.7	54.0	54.2	54.3	54.2	54.2	54.1	54.2	54.1	54.0	
	13	54.6	54.8	55.1	55.3	55.5	55.5	55.8	55.8	55.8	55.9	55.8	55.8	55.8	
	14	56.1	56.3	56.7	56.8	56.9	57.0	56.9	56.8	56.8	56.7	56.6	56.5	56.8	
	15	55.8	56.3	56.7	57.1	57.6	57.8	58.1	58.2	58.3	58.1	57.8	57.8	57.8	
	16	57.4	57.5	57.5	57.7	57.8	57.9	57.8	57.8	57.8	57.8	57.8	57.8	—	
	17	—	—	—	—	—	—	—	—	—	—	—	—	57.5	
	18	57.5	57.7	57.8	58.0	58.2	58.1	57.8	57.8	57.6	57.4	57.5	57.4	57.2	
	19	57.5	57.5	57.6	57.6	57.5	57.4	57.2	57.1	57.0	56.7	56.6	56.5	56.1	
	20	54.9	54.8	54.8	54.9	54.8	54.6	54.6	54.3	54.1	53.9	53.8	53.6	53.2	
	21	52.3	52.6	52.9	53.1	53.4	53.6	53.7	53.7	53.7	53.5	53.2	52.9	52.5	
	22	51.5	52.0	52.5	52.8	53.2	53.5	53.6	53.7	53.6	53.6	53.5	53.5	53.5	
	23	52.8	53.1	53.4	53.6	53.9	54.1	54.1	54.2	54.2	54.1	54.0	53.9	—	
	24	—	—	—	—	—	—	—	—	—	—	—	—	51.4	
	25	51.1	51.6	52.0	52.4	52.7	52.8	52.9	52.8	52.8	52.6	52.5	52.3	52.1	
	26	51.2	51.8	52.1	52.5	52.7	52.8	53.2	53.6	53.6	53.6	53.5	53.1	52.8	
	27	52.4	52.9	53.3	53.8	54.0	54.1	54.6	54.6	54.6	54.6	54.2	54.1	54.0	
	28	53.0	53.2	53.6	53.7	53.7	53.8	54.0	54.1	54.1	54.1	54.0	54.0	54.1	
	29	54.2	54.5	54.6	54.7	54.8	54.7	54.7	54.6	54.5	54.6	54.6	54.6	54.6	
	30	54.0	54.2	54.4	54.8	55.1	55.4	55.7	55.8	55.8	55.8	55.8	55.5	—	
	31	—	—	—	—	—	—	—	—	—	—	—	—	56.8	
Hourly Means	54.04	54.28	54.51	54.72	54.87	54.94	55.01	54.99	54.95	54.87	54.75	54.64	54.46		

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
AUGUST.	1	74.3	72.7	70.8	71.8	71.8	70.5	69.4	72.7	75.0	76.2	73.0	73.82
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	75.5	76.3	72.0	73.7	73.7	72.3	73.4	78.2	78.2	81.5	81.7	75.02
	4	75.2	76.0	75.6	72.0	73.6	73.6	73.9	75.5	77.8	78.3	76.7	75.45
	5	76.8	76.5	76.1	76.2	75.2	74.6	74.2	77.4	78.5	78.0	74.5	76.00
	6	73.4	74.3	73.5	73.0	72.0	72.0	71.0	74.6	74.9	75.6	72.7	74.10
	7	73.4	74.2	70.2	72.0	72.8	70.7	70.0	73.1	73.1	74.7	74.7	72.71
	8	71.7	73.0	74.0	72.0	72.9	70.9	71.9	74.8	77.7	79.6	79.2	73.33
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	77.5	76.1	76.1	76.1	76.1	75.1	75.1	76.2	76.9	78.4	76.0	76.49
	11	75.0	75.4	75.2	75.2	74.6	73.3	74.2	77.1	78.8	77.8	76.1	75.12
	12	74.0	73.4	74.1	74.9	74.5	72.7	71.9	74.6	75.3	77.1	76.1	74.18
	13	73.7	73.2	73.1	72.4	71.6	69.9	70.6	74.9	77.6	77.6	73.6	73.30
	14	71.3	71.3	71.3	71.3	73.0	69.3	69.3	74.1	76.5	76.5	73.8	71.68
	15	71.3	71.7	71.7	71.7	70.0	67.9	69.5	72.6	74.7	74.7	73.1	71.95
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	75.2	73.1	70.0	67.4	69.1	66.9	68.5	70.7	72.2	73.2	71.0	71.50
	18	73.0	72.5	72.5	71.9	71.0	68.4	70.5	72.8	73.6	73.6	71.4	72.02
	19	73.7	73.7	73.4	72.9	72.1	70.0	71.1	73.5	75.2	75.2	75.2	72.88
	20	75.8	75.2	74.9	74.0	74.0	71.3	72.3	76.3	78.6	78.8	76.3	74.71
	21	76.1	74.6	74.6	74.6	73.8	72.9	72.9	73.8	76.2	75.3	75.3	75.25
	22	76.0	76.0	76.2	74.8	73.7	72.1	73.3	77.6	79.8	80.9	77.5	75.90
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	74.3	74.6	76.2	74.4	75.0	74.2	73.1	74.2	76.3	77.1	77.1	75.32
	25	75.6	75.6	75.6	74.2	73.2	71.7	73.0	74.2	74.5	72.2	69.8	73.92
	26	74.7	74.7	73.2	74.3	74.3	73.6	74.7	76.1	77.2	76.4	75.7	75.34
	27	72.4	72.5	72.5	72.5	72.5	72.0	73.7	74.8	76.2	73.0	70.7	73.03
	28	73.7	72.3	72.3	72.3	71.3	69.7	71.8	75.2	73.7	72.3	67.8	72.39
	29	71.1	74.3	73.1	71.2	70.8	73.0	71.6	74.0	72.6	77.4	74.8	73.43
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	71.2	70.3	68.0	69.7	70.6	68.6	69.9	73.5	75.1	72.0	72.0	72.28
Hourly Means	74.07	73.98	73.32	72.90	72.82	71.43	71.95	74.71	76.01	76.28	74.45	73.89	

TEMPERATURE OF THE MAGNET.

	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
AUGUST.	1	55.6	55.4	55.4	55.4	55.3	55.0	54.8	54.7	54.5	54.4	54.5	55.56
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	53.0	53.1	53.56
	4	53.0	52.9	52.7	52.5	52.4	52.3	52.1	52.0	52.1	52.2	52.3	53.10
	5	52.8	52.4	52.3	52.1	51.9	51.6	51.5	51.4	51.5	51.7	51.8	52.35
	6	54.4	54.5	54.3	54.3	54.3	54.3	54.3	54.4	54.6	54.7	54.9	54.01
	7	56.0	56.0	56.0	56.1	56.0	56.1	56.0	56.1	56.1	56.1	56.2	56.00
	8	55.4	55.2	55.1	54.8	54.7	54.3	54.1	53.8	53.8	53.5	53.5	55.39
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	52.3	52.3	52.3	52.3	52.3	52.2	52.1	52.2	52.2	52.5	52.7	52.76
	11	53.4	53.3	53.1	52.8	52.6	52.2	52.0	51.7	51.7	52.0	52.2	53.05
	12	54.0	54.0	54.1	54.0	54.0	53.8	53.8	53.8	53.9	54.0	54.2	53.89
	13	55.8	55.8	55.8	55.9	55.8	55.5	55.5	55.5	55.6	55.8	56.0	55.60
	14	56.2	56.1	55.9	55.8	55.6	55.3	55.2	55.0	55.0	55.3	55.4	56.13
	15	57.5	57.4	57.3	57.3	57.2	57.1	57.1	57.1	57.1	57.2	57.3	57.38
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	57.5	57.4	57.2	57.1	56.9	57.0	57.0	57.1	57.1	57.1	57.3	57.45
	18	57.2	57.0	56.9	56.9	56.8	56.8	57.0	57.0	57.0	57.3	57.4	57.39
	19	56.0	55.8	55.8	55.6	55.6	55.5	55.3	55.1	55.0	54.9	54.9	56.33
	20	53.1	52.8	52.7	52.6	52.4	52.0	51.8	51.8	51.8	51.9	52.2	53.39
	21	52.4	52.2	51.8	51.6	51.3	51.0	50.8	50.7	50.8	51.0	51.2	52.33
	22	53.3	53.2	52.8	52.6	52.2	52.1	52.0	52.0	52.0	52.1	52.5	52.80
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	51.4	51.1	50.9	50.7	50.5	50.3	50.3	50.2	50.4	50.6	51.0	52.26
	25	51.8	51.5	51.3	51.1	51.0	50.5	50.4	50.3	50.3	50.6	50.8	51.68
	26	52.6	52.6	52.4	52.2	52.0	51.8	51.8	51.7	51.8	51.9	52.1	52.48
	27	53.8	53.6	53.4	53.2	53.0	52.7	52.7	52.6	52.7	52.7	52.9	53.52
	28	54.1	54.1	54.1	54.0	54.0	53.9	54.0	53.8	53.8	54.0	54.0	53.88
	29	54.5	54.4	54.3	54.2	54.2	54.1	53.8	53.6	53.6	53.8	53.9	54.34
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	56.7	56.6	56.6	56.6	56.6	56.4	56.4	56.3	56.2	56.2	56.2	55.83
Hourly Means	54.37	54.25	54.13	54.02	53.90	53.72	53.64	53.57	53.59	53.71	53.87	54.33	

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^h .	
SEPTEMBER.	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.	
	1	69.1	69.7	69.2	69.8	73.0	75.5	71.5	71.5	72.6	72.6	71.4	70.3	71.8
	2	70.4	71.2	72.5	76.0	73.5	74.9	70.6	72.7	74.4	75.6	70.5	72.7	68.1
	3	69.0	71.1	73.7	74.4	75.2	75.2	72.2	71.0	72.6	74.2	72.9	71.7	71.9
	4	71.7	70.3	69.7	70.9	72.2	73.0	71.6	70.7	70.2	70.3	71.8	71.8	71.8
	5	70.2	71.1	70.3	71.0	72.2	72.6	70.2	69.9	71.1	70.8	71.3	71.3	72.1
	6	70.3	70.5	70.0	72.7	72.0	71.8	71.8	72.2	72.2	70.9	70.9	70.4	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	69.1
	8	68.6	71.8	70.5	70.2	71.3	71.3	71.9	70.7	69.4	69.4	69.1	69.0	69.0
	9	68.7	67.5	65.9	67.4	70.0	71.7	72.3	72.6	72.0	70.9	69.7	68.5	69.3
	10	64.5	64.5	66.7	68.4	71.4	71.4	71.4	71.4	70.4	70.4	70.2	70.2	70.2
	11	68.9	70.0	72.0	72.0	72.0	73.1	72.8	72.2	72.2	73.3	72.9	72.2	72.2
	12	74.3	73.7	72.3	73.4	75.5	74.6	74.1	73.4	73.5	72.8	72.8	71.2	71.2
	13	67.9	67.5	69.3	69.7	69.9	69.9	72.2	71.5	73.8	74.7	70.8	69.6	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	70.0
	15	66.6	64.4	65.1	67.0	67.4	68.8	68.5	68.1	68.1	68.1	68.5	68.4	68.2
	16	62.4	62.4	63.7	66.5	66.9	66.9	66.1	65.5	65.5	66.8	68.9	67.9	67.4
	17	62.5	62.1	64.6	66.2	66.7	67.7	67.5	67.5	67.5	67.5	66.3	71.0	73.8
	18	68.7	66.7	67.2	68.4	68.4	68.9	67.5	66.6	66.2	66.5	67.2	67.7	67.9
	19	65.6	65.9	66.2	69.7	71.1	70.7	68.4	69.0	69.9	70.9	70.3	70.3	68.0
	20	65.0	63.2	63.1	64.5	68.2	69.5	66.9	67.6	67.2	68.7	70.1	70.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	67.6
	22	63.5	61.7	63.1	63.1	65.3	68.2	68.2	67.5	67.5	67.5	67.5	67.5	67.9
	23	66.0	65.1	65.1	65.5	67.5	69.0	69.0	69.0	69.0	67.7	67.7	67.7	65.2
	24	64.9	69.5	68.5	69.4	70.7	70.7	70.3	70.3	67.0	65.7	67.5	70.2	70.0
	25	65.9	68.4	76.5	74.3	71.1	69.7	81.1	70.1	66.2	66.6	68.5	65.2	66.8
	26	64.4	66.0	67.2	69.0	68.2	69.1	68.5	67.7	67.7	69.3	67.6	67.1	67.8
	27	61.8	63.0	62.9	65.0	68.2	74.4	73.0	75.0	76.8	75.8	70.1	61.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	67.3
	29	64.3	64.8	65.6	68.1	69.1	69.6	69.7	69.7	69.0	70.2	70.2	68.9	68.9
	30	57.1	59.3	63.2	67.1	67.7	67.7	67.0	66.6	66.6	66.6	66.6	66.6	66.6
Hourly Means	66.63	66.98	67.85	69.22	70.18	71.00	70.55	70.00	69.95	70.15	69.67	69.22	69.23	
TEMPERATURE OF THE MAGNET.														
SEPTEMBER.	°	°	°	°	°	°	°	°	°	°	°	°	°	
	1	56.4	56.6	56.8	57.0	57.2	57.4	57.4	57.5	57.4	57.4	57.3	57.1	57.1
	2	57.0	57.1	57.1	57.1	57.1	57.3	57.6	57.5	57.3	57.1	56.9	56.8	56.5
	3	55.9	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.2	56.2	56.1	56.1	56.0
	4	57.1	57.5	57.6	57.9	58.0	58.1	57.9	57.8	57.8	57.6	57.6	57.6	57.5
	5	57.1	57.3	57.6	57.7	57.8	57.8	58.0	58.0	57.9	57.7	57.5	57.3	56.9
	6	57.0	57.2	57.5	57.6	57.6	57.5	57.6	57.4	57.3	57.1	57.0	56.9	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	58.1
	8	57.6	57.9	58.0	58.3	58.4	58.5	58.2	58.2	58.2	58.1	58.2	58.2	58.0
	9	57.9	58.2	58.2	58.5	58.6	58.7	58.5	58.5	58.5	58.4	58.2	58.1	58.0
	10	57.5	57.6	57.6	57.7	57.8	57.8	57.7	57.6	57.4	57.2	57.1	56.8	56.8
	11	56.0	56.2	56.2	56.4	56.6	56.6	56.8	56.8	56.8	56.7	56.5	56.5	56.4
	12	56.1	56.2	56.4	56.6	56.8	57.0	56.9	56.9	56.8	56.6	56.5	56.2	56.1
	13	55.8	56.1	56.4	56.9	57.2	57.5	57.6	57.8	57.7	57.7	57.6	57.5	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	58.5
	15	58.5	58.9	59.3	59.5	59.7	59.9	59.8	59.8	59.8	59.7	59.6	59.5	59.5
	16	60.0	60.5	61.1	61.4	61.7	62.0	62.0	62.0	62.0	61.9	61.9	61.8	61.6
	17	61.0	61.5	61.8	62.1	62.1	62.2	62.3	62.0	61.8	61.7	61.3	61.1	60.8
	18	60.4	60.7	61.1	61.6	62.0	62.2	62.3	62.2	62.2	62.1	61.9	61.8	61.8
	19	61.0	61.2	61.3	61.5	61.5	61.5	61.4	61.2	61.1	61.1	61.1	61.0	60.8
	20	60.7	60.9	61.2	61.5	61.5	61.5	61.3	61.2	61.0	60.8	60.7	60.5	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	61.2
	22	61.0	61.1	61.2	61.3	61.4	61.3	61.5	61.4	61.3	61.1	60.8	60.7	60.3
	23	59.1	59.2	59.3	59.5	59.5	59.5	59.6	59.5	59.5	59.3	59.2	59.0	58.9
	24	58.7	58.7	58.8	58.8	58.9	59.0	59.1	59.0	58.9	58.9	58.8	58.9	59.1
	25	60.2	60.6	60.9	61.1	61.6	61.8	62.1	62.3	62.3	62.3	62.2	61.7	61.5
	26	61.3	61.6	61.8	62.1	62.4	62.5	62.5	62.5	62.5	62.5	62.3	62.2	62.0
	27	61.1	61.3	61.5	61.5	61.6	61.7	61.6	61.5	61.5	61.6	61.8	61.8	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	61.0
	29	60.5	60.8	61.1	61.1	61.2	61.1	61.5	61.5	61.5	61.3	61.2	61.1	61.1
	30	61.6	62.0	62.4	62.7	62.9	63.0	63.0	63.0	62.9	62.8	62.4	62.1	61.9
Hourly Means	58.71	58.96	59.16	59.37	59.51	59.60	59.63	59.58	59.52	59.42	59.30	59.17	59.13	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
SEPTEMBER.	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	71.1	71.6	69.1	69.1	69.1	65.4	68.5	72.8	73.2	73.6	72.5	71.00
	2	69.6	71.4	70.8	71.3	69.9	66.8	66.8	68.3	71.9	71.3	69.5	71.28
	3	72.4	71.5	71.5	70.8	69.7	67.3	66.0	69.7	72.5	72.5	74.0	71.79
	4	70.5	70.5	71.3	69.7	70.2	67.8	68.7	71.6	73.8	73.3	72.0	71.06
	5	71.5	71.4	71.5	70.9	70.2	67.6	70.2	72.5	75.2	74.8	71.8	71.32
	6	—	—	—	—	—	—	—	—	—	—	—	70.49
	7	67.4	67.4	68.3	69.4	71.6	67.3	69.8	72.2	73.6	71.3	68.7	
	8	70.6	67.8	69.4	69.7	69.7	66.9	67.5	70.6	71.0	70.2	68.7	69.76
	9	68.2	68.2	69.6	69.6	69.6	67.7	69.4	71.8	72.5	69.8	66.7	69.57
	10	70.2	70.2	71.2	71.2	70.3	67.2	70.3	71.8	71.8	72.4	74.6	70.10
	11	71.6	71.6	71.5	72.7	68.5	66.9	68.1	71.1	73.6	73.6	74.7	71.65
	12	70.3	69.6	70.8	70.8	70.8	73.8	71.4	74.5	76.2	74.7	70.1	72.74
	13	—	—	—	—	—	—	—	—	—	—	—	70.48
	14	69.3	68.8	68.8	69.4	69.0	67.8	70.9	73.7	74.6	72.6	69.7	
	15	68.1	68.7	68.0	68.0	67.2	65.9	68.4	71.9	73.0	71.7	65.8	68.08
	16	67.7	67.1	67.6	67.1	65.7	63.2	65.8	69.1	70.6	69.9	66.8	66.56
	17	73.8	70.9	67.5	68.1	67.0	65.7	66.2	69.8	69.8	71.8	70.4	68.00
	18	67.9	68.2	66.3	66.9	65.9	64.0	67.1	69.3	71.5	71.6	69.6	67.76
	19	68.0	67.3	66.9	66.3	67.0	66.5	66.8	69.2	70.2	71.1	68.2	68.48
	20	—	—	—	—	—	—	—	—	—	—	—	66.84
	21	67.6	66.9	66.9	66.9	66.6	64.9	66.1	67.1	67.2	66.0	66.0	
	22	67.9	68.2	68.7	68.7	67.7	65.5	66.2	69.8	70.8	69.0	67.1	67.00
	23	66.1	66.7	68.0	67.9	65.4	66.4	68.8	72.4	73.8	71.7	68.1	67.87
	24	71.1	70.7	73.3	68.5	66.4	68.8	70.0	73.9	72.3	66.8	65.8	69.26
	25	67.5	67.5	67.9	66.7	68.1	68.6	69.7	69.7	67.4	66.1	65.7	68.97
	26	66.4	65.7	66.7	67.9	67.5	69.7	69.5	68.8	66.2	63.7	60.9	67.19
	27	—	—	—	—	—	—	—	—	—	—	—	68.59
	28	67.3	67.3	67.7	67.7	66.9	69.7	71.1	71.1	69.2	67.5	65.4	
	29	67.7	67.7	66.9	67.3	68.1	68.6	69.2	68.0	66.0	63.9	59.0	67.52
30	66.6	67.1	67.5	66.7	67.4	67.4	67.4	67.8	64.9	61.4	57.5	65.43	
Hourly Means	69.09	68.85	68.99	68.82	68.29	67.21	68.46	70.71	71.26	70.09	68.05	69.18	

TEMPERATURE OF THE MAGNET.

SEPTEMBER.	1	56.9	56.9	56.9	56.9	56.8	56.8	56.8	56.8	56.7	56.6	56.7	56.98
	2	56.4	56.2	56.0	56.0	55.9	55.8	55.8	55.8	55.8	55.8	55.9	56.58
	3	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.2	56.3	56.7	56.8	56.43
	4	57.4	57.3	57.1	56.9	56.9	56.8	56.8	56.7	56.7	56.8	57.0	57.35
	5	56.8	56.7	56.6	56.6	56.4	56.1	56.1	56.1	56.3	56.4	56.7	57.06
	6	—	—	—	—	—	—	—	—	—	—	—	57.44
	7	58.0	57.9	57.8	57.7	57.6	57.3	57.2	57.2	57.2	57.3	57.5	
	8	57.9	57.9	57.8	57.6	57.6	57.5	57.4	57.4	57.4	57.7	57.8	57.91
	9	58.0	57.9	57.8	57.8	57.7	57.6	57.5	57.3	57.3	57.3	57.5	58.00
	10	56.6	56.5	56.2	56.2	56.0	55.8	55.6	55.6	55.6	55.6	55.8	56.75
	11	56.3	56.3	56.3	56.3	56.3	56.3	56.2	56.1	56.0	56.0	56.0	56.36
	12	55.9	55.8	55.8	55.5	55.3	55.1	55.0	55.0	55.2	55.4	55.6	56.03
	13	—	—	—	—	—	—	—	—	—	—	—	57.56
	14	58.3	58.2	58.0	57.9	57.8	57.7	57.6	57.7	57.7	58.0	58.2	
	15	59.5	59.4	59.2	59.0	58.9	59.1	59.0	58.9	58.9	59.4	59.8	59.37
	16	61.4	61.0	60.7	60.4	60.2	60.0	59.8	59.8	59.9	60.2	60.5	60.99
	17	60.6	60.4	60.3	60.1	60.0	59.9	59.8	59.7	59.7	59.8	60.1	60.92
	18	61.6	61.5	61.6	61.4	61.1	61.1	61.0	60.9	60.8	61.0	61.0	61.47
	19	60.7	60.5	60.4	60.4	60.3	60.3	60.3	60.2	60.2	60.3	60.6	60.83
	20	—	—	—	—	—	—	—	—	—	—	—	60.93
	21	61.0	61.0	60.9	60.8	60.8	60.8	60.5	60.5	60.5	60.7	60.8	
	22	60.0	59.8	59.5	59.3	59.1	58.9	59.0	58.9	58.9	59.0	59.1	60.25
	23	58.8	58.7	58.7	58.7	58.7	58.6	58.5	58.5	58.5	58.4	58.6	58.99
	24	59.1	59.1	59.5	59.5	59.6	59.4	59.3	59.2	59.4	59.5	59.9	59.13
	25	61.3	61.0	60.4	60.6	60.6	60.3	60.2	60.2	60.4	60.7	61.0	61.14
	26	61.8	61.8	61.5	61.2	60.9	61.0	60.8	60.8	60.8	60.8	60.9	61.69
	27	—	—	—	—	—	—	—	—	—	—	—	60.95
	28	60.9	60.8	60.6	60.4	60.3	60.0	59.9	59.9	60.0	60.2	60.4	
	29	61.0	60.9	60.8	60.8	60.9	60.7	60.6	60.8	61.0	61.1	61.2	61.03
	30	61.7	61.5	61.1	60.8	60.5	60.0	59.8	59.8	60.0	60.3	60.5	61.61
Hourly Means	59.00	58.88	58.75	58.65	58.55	58.42	58.33	58.31	58.37	58.50	58.69	58.98	

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.														
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 .	12 ^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.	
OCTOBER.	1	58.8	61.5	65.5	68.2	69.8	68.9	68.3	68.1	67.2	66.4	67.1	67.7	67.7
	2	58.4	62.1	65.0	66.8	66.8	66.8	66.8	65.8	65.8	65.7	66.0	66.0	66.2
	3	56.6	58.1	61.7	66.5	66.5	68.3	67.1	66.5	66.5	65.2	64.9	66.9	65.6
	4	56.3	59.2	62.2	64.5	67.1	66.6	65.7	65.2	65.2	65.7	65.7	65.7	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	64.6
	6	53.5	54.3	57.9	63.0	66.7	66.7	64.0	63.4	62.5	61.0	59.3	60.3	60.8
	7	54.1	54.1	57.5	61.6	65.3	66.5	66.5	66.5	64.0	62.8	63.4	63.7	64.8
	8	54.4	55.2	58.8	63.2	66.1	67.6	66.6	66.6	66.6	65.1	65.0	65.4	64.6
	9	58.8	56.3	58.7	61.1	63.0	64.4	64.9	64.9	63.8	64.6	68.6	72.3	68.5
	10	57.6	56.2	60.5	62.7	64.6	65.2	63.9	63.2	64.5	63.6	63.1	61.4	61.4
	11	57.9	57.9	59.4	61.8	63.8	63.5	62.6	61.8	61.2	61.7	61.7	61.7	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	62.3
	13	52.5	52.5	55.3	58.7	61.0	61.0	60.2	60.2	60.2	60.3	60.3	60.7	60.0
	14	50.6	53.4	57.2	59.3	60.3	59.6	58.5	58.7	58.8	59.7	59.3	60.0	60.5
	15	49.7	53.3	56.9	60.3	61.6	61.6	60.3	58.2	56.9	58.1	59.2	59.2	58.2
	16	53.8	54.3	56.2	59.4	61.4	60.5	58.6	58.3	58.4	58.2	57.6	57.6	58.4
	17	51.8	55.2	57.6	59.9	61.4	62.3	61.2	60.2	60.2	58.8	59.5	58.0	60.4
	18	51.3	52.1	53.5	56.7	60.2	60.2	59.9	58.4	59.0	59.0	59.4	59.4	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	60.6
	20	50.9	54.1	58.6	65.7	67.7	62.7	59.0	59.0	58.3	58.3	58.7	59.9	61.6
	21	54.9	55.9	59.1	64.4	64.0	62.0	61.1	61.1	60.9	60.9	63.3	62.2	61.7
	22	54.1	54.8	57.4	60.6	62.9	64.2	62.7	61.1	60.6	60.2	60.6	60.1	61.0
	23	54.9	54.2	55.6	59.0	61.5	62.3	61.6	61.2	60.6	60.3	60.3	61.1	61.5
	24	56.2	57.0	58.4	64.2	66.4	66.9	66.6	66.6	64.5	64.5	64.4	63.8	63.5
	25	58.4	60.2	61.2	64.1	65.0	65.0	65.1	64.9	63.8	62.4	63.6	63.0	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	62.5
	27	54.9	54.9	57.7	59.9	62.4	62.4	60.2	59.0	59.0	59.7	60.3	59.8	59.8
	28	50.8	50.8	52.3	54.2	56.5	58.1	58.1	58.1	58.3	58.8	58.8	60.4	59.8
	29	50.9	51.4	52.1	55.9	57.8	57.1	57.1	58.0	58.0	58.0	58.3	58.3	59.1
	30	47.3	49.2	54.4	58.0	58.6	58.6	58.8	58.8	58.8	58.2	58.4	59.1	59.1
	31	48.2	52.1	54.1	57.3	58.7	57.6	56.3	55.8	56.1	57.4	57.7	60.8	61.3
Hourly Means	53.99	55.20	57.96	61.37	63.23	63.21	62.29	61.84	61.47	61.28	61.65	62.02	62.06	
TEMPERATURE OF THE MAGNET.														
OCTOBER.	1	60.8	61.2	61.3	61.7	62.1	62.2	62.6	62.7	62.6	62.5	62.0	61.7	61.4
	2	61.0	61.3	61.7	62.0	62.3	62.5	62.4	62.4	62.3	62.2	62.1	61.9	61.8
	3	62.1	62.3	62.7	62.9	63.0	63.0	62.8	62.8	62.7	62.5	62.6	62.5	62.4
	4	62.3	62.5	62.8	62.9	63.1	63.1	63.0	62.7	62.5	62.4	62.3	62.2	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	63.1
	6	63.8	64.5	65.1	65.6	66.1	66.7	67.0	67.1	67.1	66.9	66.8	66.6	66.1
	7	65.0	65.1	65.1	65.2	65.1	65.2	64.9	64.8	64.7	64.6	64.4	64.3	64.2
	8	63.2	63.2	63.4	63.3	63.3	63.2	62.9	62.7	62.4	62.1	61.8	61.5	61.4
	9	61.8	62.4	62.8	63.4	63.9	64.2	64.2	64.3	64.3	64.2	64.2	64.1	64.0
	10	63.7	64.1	64.6	65.1	65.2	65.3	65.3	65.2	65.0	64.8	64.7	64.6	64.5
	11	64.8	65.2	65.7	65.8	66.0	66.0	65.9	65.8	65.5	65.2	64.9	64.8	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	63.8
	13	64.7	65.1	65.6	66.0	66.4	66.5	66.4	66.2	66.1	65.8	65.8	65.4	65.3
	14	65.6	66.0	66.5	67.0	67.1	67.2	67.0	66.9	66.7	66.4	66.3	66.1	66.0
	15	66.1	66.6	67.0	67.4	67.6	67.7	67.6	67.6	67.3	67.1	67.1	66.8	66.7
	16	66.2	66.5	66.6	66.7	66.8	66.8	66.9	66.8	66.6	66.4	66.2	66.1	65.8
	17	65.2	65.1	65.3	65.4	65.5	65.5	65.4	65.3	65.1	64.9	64.7	64.4	64.2
	18	64.5	64.8	65.0	65.2	65.5	65.6	65.8	65.8	65.7	65.5	65.2	64.9	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	64.2
	20	64.8	65.2	65.5	65.8	66.1	66.2	66.2	66.1	65.8	65.7	65.5	65.3	65.2
	21	63.5	63.7	64.1	64.2	64.3	64.4	64.0	63.9	63.7	63.4	63.4	63.1	62.8
	22	62.2	62.4	62.6	62.8	63.1	63.2	63.5	63.3	63.2	63.0	62.8	63.0	63.1
	23	63.2	63.2	63.5	63.6	63.7	63.8	63.8	63.9	63.8	63.8	63.6	63.0	62.4
	24	60.0	60.1	60.1	60.1	60.2	60.2	60.1	59.9	59.8	59.7	59.3	59.1	58.8
	25	59.3	59.6	59.9	60.2	60.6	60.7	60.6	60.5	60.4	60.4	60.2	60.2	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	61.6
	27	62.5	62.9	63.4	63.7	63.9	64.0	63.9	63.7	63.6	63.3	63.2	62.9	62.8
	28	63.5	63.9	64.2	64.6	64.8	64.8	64.9	64.6	64.5	64.3	64.1	63.8	63.6
	29	64.1	64.4	64.7	65.1	65.3	65.3	65.1	64.8	64.8	64.6	64.2	64.1	63.8
	30	62.6	62.6	62.8	62.8	62.9	62.8	62.7	62.3	62.1	61.8	61.9	61.6	61.5
	31	62.0	62.6	63.0	63.4	63.6	63.8	63.8	63.6	63.5	63.5	63.5	63.5	63.3
Hourly Means	63.28	63.57	63.89	64.14	64.35	64.44	64.40	64.29	64.14	63.96	63.81	63.61	63.47	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	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.
1	68.7	67.5	67.5	66.3	67.1	67.7	69.2	67.4	62.9	59.2	58.4	66.13
2	66.7	67.3	66.5	66.5	66.5	67.6	69.1	68.4	62.6	59.2	57.2	65.24
3	65.9	63.9	63.9	64.2	66.7	67.8	67.8	66.4	62.2	56.3	55.5	64.21
4	—	—	—	—	—	—	—	—	—	—	—	63.98
5	65.0	64.5	64.7	64.7	64.5	64.7	66.4	66.9	66.0	60.3	54.0	61.18
6	62.2	62.0	62.0	62.2	61.4	62.8	62.8	62.8	60.8	59.3	56.7	62.76
7	61.7	64.0	64.0	63.5	63.5	62.9	65.0	65.0	65.0	62.6	58.2	64.83
8	66.0	65.7	64.8	64.8	64.8	67.2	68.6	68.3	68.9	67.4	64.1	64.36
9	69.0	66.7	66.3	64.0	64.8	63.5	64.3	65.4	68.6	64.5	57.6	62.11
10	61.4	61.4	61.4	62.5	63.5	64.8	64.4	64.4	62.2	60.0	56.8	61.84
11	—	—	—	—	—	—	—	—	—	—	—	59.41
12	61.6	62.2	61.2	62.0	62.8	65.0	68.3	67.2	63.0	57.9	55.7	58.05
13	59.9	60.4	60.4	60.4	61.5	63.1	65.5	65.7	62.5	53.5	50.0	57.79
14	60.4	59.8	59.0	59.0	59.0	60.7	62.8	61.9	55.5	49.7	49.4	58.13
15	58.5	58.5	59.1	59.1	59.1	61.4	62.3	57.8	53.0	52.0	52.6	59.27
16	58.4	58.7	59.5	57.7	57.5	61.2	62.6	60.7	58.0	54.9	53.1	58.03
17	60.9	60.9	60.7	58.7	59.3	61.4	63.4	63.4	58.9	55.5	52.9	59.65
18	—	—	—	—	—	—	—	—	—	—	—	61.35
19	58.8	61.5	61.5	60.7	60.7	60.3	62.8	61.5	57.7	48.0	49.6	60.03
20	58.6	59.8	61.3	60.0	60.9	61.2	64.3	62.7	61.9	54.3	52.3	60.86
21	60.7	60.4	60.4	60.0	62.1	63.5	65.4	65.4	64.2	61.6	57.2	61.35
22	61.0	60.9	60.6	60.1	61.1	63.2	64.0	61.3	56.9	55.8	55.6	60.03
23	61.5	61.5	61.4	61.4	62.2	63.7	65.1	61.7	56.7	54.9	55.7	60.00
24	63.9	64.2	64.2	64.5	64.5	63.7	65.0	64.5	63.5	59.6	59.2	63.33
25	—	—	—	—	—	—	—	—	—	—	—	63.12
26	62.0	61.0	61.0	61.0	62.9	65.8	67.3	68.7	66.1	62.1	57.8	60.05
27	59.8	59.8	60.4	60.7	62.4	63.2	63.2	65.2	63.6	58.7	54.1	57.60
28	59.8	59.8	58.8	58.8	60.1	60.2	62.7	63.7	60.2	54.0	49.2	56.78
29	59.1	59.7	58.8	57.9	58.4	60.3	62.6	61.7	57.0	49.2	45.9	57.53
30	59.1	59.1	59.1	62.6	62.6	62.1	62.9	60.8	56.0	51.0	48.2	56.35
31	61.1	59.8	56.5	57.6	59.0	59.1	58.2	57.2	52.6	49.8	48.0	
Hourly Means	61.91	61.89	61.67	61.51	62.18	63.26	64.67	63.93	60.98	56.71	54.26	60.86

TEMPERATURE OF THE MAGNET.

1	61.0	60.8	60.6	60.3	60.0	59.7	59.7	59.7	60.0	60.2	60.6	61.14
2	61.8	61.7	61.7	61.5	61.4	61.4	61.3	61.4	61.5	61.5	61.8	61.79
3	62.1	61.9	61.4	61.5	61.2	61.4	61.5	61.4	61.6	61.8	62.0	62.17
4	—	—	—	—	—	—	—	—	—	—	—	62.68
5	63.1	63.0	62.8	62.8	62.6	62.3	62.2	62.2	62.4	62.8	63.3	65.75
6	66.1	65.8	65.8	65.6	65.5	65.1	65.0	64.9	64.8	64.9	65.0	64.10
7	63.9	63.9	63.6	63.4	63.2	63.0	62.8	62.8	63.0	63.1	63.1	61.72
8	61.3	61.0	60.7	60.5	60.1	60.2	60.2	60.3	60.5	60.8	61.2	63.41
9	63.8	63.7	63.3	63.0	62.8	62.8	62.6	62.7	62.8	63.1	63.4	64.43
10	64.3	64.2	64.0	63.9	63.8	63.8	63.8	63.8	64.0	64.1	64.5	64.52
11	—	—	—	—	—	—	—	—	—	—	—	65.25
12	63.7	63.7	63.6	63.4	63.4	63.2	63.2	63.3	63.5	63.8	64.2	65.97
13	65.0	64.9	64.8	64.6	64.3	64.3	64.2	64.3	64.5	64.7	65.0	66.55
14	65.8	65.6	65.4	65.1	65.0	65.0	64.9	65.0	65.3	65.6	65.8	65.97
15	66.6	66.5	66.1	66.0	65.8	65.7	65.4	65.4	65.6	65.7	65.9	65.97
16	65.6	65.6	65.5	65.5	65.4	65.3	65.2	65.1	65.3	65.2	65.2	64.56
17	64.1	64.1	64.0	63.9	63.8	63.8	63.8	63.8	63.8	64.1	64.3	64.58
18	—	—	—	—	—	—	—	—	—	—	—	64.75
19	64.2	64.0	63.8	63.7	63.6	63.5	63.5	63.5	63.8	64.1	64.5	62.89
20	64.8	64.6	64.1	63.8	63.6	63.4	63.2	63.2	63.2	63.3	63.5	62.87
21	62.7	62.5	62.3	61.9	61.7	61.5	61.3	61.4	61.6	61.8	62.1	62.18
22	63.2	63.2	63.3	62.9	62.8	62.4	62.3	62.4	62.5	62.7	62.9	62.18
23	62.0	61.7	61.5	61.1	60.8	60.2	60.0	60.0	59.9	59.9	60.0	59.06
24	58.5	58.4	58.3	58.0	57.9	57.8	57.8	57.9	58.2	58.5	58.8	60.75
25	—	—	—	—	—	—	—	—	—	—	—	62.96
26	61.5	61.5	61.3	61.0	60.9	60.9	60.9	60.9	61.3	61.6	62.0	63.78
27	62.7	62.7	62.4	62.3	62.3	62.1	62.1	62.2	62.6	62.8	63.0	63.89
28	63.3	63.3	63.0	63.0	62.8	62.9	63.0	63.1	63.4	63.5	63.7	61.71
29	63.8	63.6	63.6	63.4	63.0	62.8	62.7	62.6	62.6	62.5	62.5	63.09
30	61.3	61.0	60.8	60.7	60.7	60.7	60.7	60.8	61.1	61.1	61.7	
31	63.1	63.0	62.7	62.5	62.4	62.5	62.5	62.6	62.9	63.2	63.6	
Hourly Means	63.31	63.18	62.98	62.79	62.62	62.51	62.44	62.47	62.66	62.83	63.10	63.43

VERTICAL FORCE.														
One Scale Division = $\cdot 00014$ parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah $^\circ$ = $\cdot 00005$.														
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 .	12 ^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.	
NOVEMBER.	1	53·6	53·1	54·8	57·5	59·5	59·8	57·3	56·4	58·1	60·1	59·9	57·7	
	2	—	—	—	—	—	—	—	—	—	—	—	56·5	
	3	48·4	50·1	52·4	56·2	56·4	56·4	56·1	55·4	55·0	55·0	56·1	54·7	56·5
	4	47·6	47·6	52·0	54·4	55·3	57·3	55·7	54·5	54·9	56·2	55·7	57·9	56·3
	5	51·7	50·0	51·3	56·8	62·9	64·8	62·1	60·6	56·9	51·5	52·2	52·0	53·0
	6	48·8	48·8	50·8	51·8	53·2	54·6	54·6	54·6	54·1	54·1	53·0	53·7	54·5
	7	48·9	48·9	51·5	53·1	55·5	57·8	57·8	58·1	57·2	56·6	56·1	56·1	57·0
	8	49·9	50·4	53·1	55·0	55·0	55·7	56·2	56·2	57·0	56·5	56·5	56·5	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	54·5
	10	49·9	49·9	51·0	50·7	52·0	52·7	54·2	55·2	55·2	54·2	54·6	55·6	55·1
	11	50·7	52·1	52·1	53·3	53·8	53·8	53·5	52·9	52·9	52·9	52·9	53·4	54·1
	12	47·8	48·2	49·5	50·2	50·2	49·6	50·6	51·6	51·0	51·2	51·7	51·3	51·6
	13	46·8	46·8	47·4	48·5	48·8	49·9	48·7	48·7	49·5	50·0	50·2	50·2	50·9
	14	43·6	44·3	45·1	46·8	48·9	50·0	48·7	48·7	48·7	48·7	49·4	50·0	50·5
	15	43·7	45·1	46·1	47·7	48·9	49·4	48·8	49·2	49·7	49·7	50·7	51·2	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	53·4
	17	47·5	50·5	50·5	55·1	57·2	54·1	53·5	57·9	55·5	56·3	51·3	51·3	50·3
	18	43·4	43·4	45·6	50·8	54·9	55·7	50·8	50·1	50·1	50·5	52·2	53·0	51·2
	19	41·7	41·6	44·6	47·7	49·7	49·7	46·6	45·9	46·2	46·2	46·6	48·1	48·1
	20	44·0	43·7	43·7	44·6	45·6	46·5	46·3	45·4	46·0	46·0	46·0	46·8	46·8
	21	39·7	38·8	40·5	42·8	45·7	46·9	46·8	46·0	46·3	45·7	45·7	46·2	46·2
	22	41·0	43·4	45·2	46·6	49·0	50·7	50·6	49·9	49·9	49·9	51·2	50·5	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	50·9
	24	45·9	45·9	47·7	48·9	50·4	50·4	48·5	48·5	49·5	48·8	49·6	49·6	49·6
	25	43·4	42·1	44·9	47·5	48·4	48·8	48·5	49·0	48·6	49·4	47·9	49·2	48·9
	26	45·5	44·7	45·1	48·5	49·8	49·4	49·0	49·4	49·4	49·7	50·6	50·6	49·0
	27 ^a	44·9	44·9	46·8	49·2	49·1	49·5	49·5	49·5	49·9	49·2	50·1	52·2	51·0
	28 ^a	98·6	96·2	94·1	94·1	94·6	96·1	95·9	94·4	95·1	95·9	96·7	96·2	95·7
	29 ^a	90·6	90·5	92·2	94·5	94·3	99·8	96·2	95·6	94·4	95·0	95·2	96·9	—
	30 ^a	—	—	—	—	—	—	—	—	—	—	—	—	98·7
Hourly Means	46·45	46·71	48·33	50·60	52·18	52·76	51·93	51·90	51·81	51·67	51·75	52·08	52·00	

TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	63·8	64·2	64·2	64·5	64·7	64·7	64·6	64·5	64·2	64·1	64·2	63·9	
	2	—	—	—	—	—	—	—	—	—	—	—	62·9	
	3	62·8	63·1	63·4	63·8	64·1	64·3	64·4	64·4	64·3	64·1	63·8	63·5	63·3
	4	63·5	63·9	64·4	64·7	65·1	65·2	65·3	65·3	65·2	65·0	64·8	64·5	64·1
	5	64·3	64·5	64·9	65·3	65·6	65·8	66·0	66·1	66·2	66·3	66·1	65·8	65·3
	6	64·5	64·8	65·1	65·3	65·6	65·8	65·8	65·8	65·8	65·7	65·6	65·5	65·3
	7	64·7	64·7	64·6	64·8	64·8	64·6	64·6	64·2	64·0	63·8	63·5	63·2	62·8
	8	61·7	61·9	62·1	62·3	62·4	62·6	62·7	62·6	62·5	62·2	61·9	61·8	—
	9	—	—	—	—	—	—	—	—	—	—	—	—	63·3
	10	63·5	63·8	64·0	64·5	64·7	64·7	64·8	65·1	64·8	64·5	64·2	64·0	63·8
	11	63·6	63·9	64·2	64·7	65·0	65·1	65·2	65·0	64·8	64·7	64·4	64·2	64·1
	12	65·0	65·8	66·1	66·8	67·1	67·6	67·8	67·8	67·8	67·8	67·8	67·8	67·6
	13	68·1	68·7	69·1	69·5	69·7	69·8	69·7	69·3	69·0	68·8	68·8	68·5	68·2
	14	68·5	69·1	69·7	70·1	70·4	70·7	70·7	70·7	70·5	70·2	70·0	69·8	69·5
	15	68·6	68·7	68·8	68·9	69·0	68·8	68·8	68·5	68·0	67·6	67·1	66·8	—
	16	—	—	—	—	—	—	—	—	—	—	—	—	64·6
	17	64·6	64·9	65·0	65·1	65·1	65·2	65·0	64·9	64·8	64·8	64·6	64·3	64·1
	18	64·9	65·5	66·1	66·8	67·3	67·8	68·0	68·1	68·0	67·9	67·8	67·8	67·6
	19	68·9	69·4	69·6	70·0	70·1	70·2	70·4	70·7	70·8	70·4	70·0	69·8	69·6
	20	69·2	69·5	70·0	70·4	70·8	71·1	71·1	71·1	70·8	70·7	70·5	70·1	69·9
	21	68·8	69·2	69·8	70·1	70·2	70·5	70·4	70·4	70·1	69·9	69·6	69·2	68·9
	22	67·4	67·3	67·1	67·2	67·2	67·1	67·2	67·0	66·8	66·6	66·3	66·0	—
	23	—	—	—	—	—	—	—	—	—	—	—	—	65·3
	24	66·1	66·5	66·8	67·1	67·5	67·7	67·6	67·5	67·4	67·1	66·9	66·8	66·5
	25	66·5	66·8	67·1	67·4	67·5	67·7	67·6	67·5	67·3	67·2	67·2	67·1	66·9
	26	65·6	65·8	65·8	65·9	66·0	66·0	65·8	65·8	65·5	65·3	65·0	64·8	64·7
	27 ^a	64·5	64·5	64·8	65·2	65·4	65·5	65·5	65·3	65·1	65·0	64·8	64·7	64·4
	28 ^a	65·1	65·4	65·8	66·1	66·6	66·9	67·3	67·5	67·5	67·4	67·3	67·4	67·4
	29 ^a	66·8	66·9	67·2	67·5	67·7	67·9	68·2	68·4	68·4	68·4	68·2	67·8	—
	30 ^a	—	—	—	—	—	—	—	—	—	—	—	—	64·5
Hourly Means	65·61	65·93	66·20	66·54	66·75	66·89	66·91	66·85	66·68	66·51	66·30	66·08	65·77	

^a Omitted in the means.

^b New adjustment.

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	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.																			
NOVEMBER.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27 ^a	28 ^a	29 ^a	30 ^a	Hourly Means
	—	56·8	57·2	56·3	54·7	55·3	55·8	—	54·5	55·1	54·1	51·8	51·6	50·5	—	53·9	51·3	50·7	47·6	47·6	47·0	—	51·1	49·6	48·9	49·7	48·9	96·5	—	99·6	52·17
	—	58·0	57·9	57·3	56·2	54·6	55·8	—	54·7	54·2	48·0	51·8	51·6	50·5	—	53·7	53·2	48·6	47·6	47·6	48·0	—	51·5	49·6	48·9	49·0	48·9	96·8	—	99·8	52·67
	—	55·2	57·9	57·0	56·4	56·1	55·8	—	54·5	55·2	48·5	51·9	51·6	50·5	—	49·9	53·2	47·9	47·6	47·6	48·5	—	52·0	49·9	48·9	48·9	50·0	96·4	—	100·1	52·60
	—	57·5	57·9	57·0	56·4	54·4	53·0	—	54·8	55·2	48·5	51·9	52·1	50·5	—	54·4	50·9	49·9	48·3	48·3	48·5	—	52·0	49·9	48·9	50·7	51·6	98·6	—	100·6	52·96
	—	58·5	60·2	57·0	56·4	53·0	55·5	—	56·1	55·5	49·4	53·7	54·5	50·6	—	55·1	53·2	50·4	49·8	49·8	49·4	—	52·8	49·9	51·5	54·3	53·6	99·8	—	101·9	53·97
	—	59·4	61·8	57·0	56·4	55·5	55·9	—	58·3	55·5	50·5	56·2	55·6	50·6	—	54·8	52·6	50·4	49·8	49·8	51·6	—	52·8	49·1	52·8	55·5	56·5	101·6	—	101·7	54·96
	—	57·9	61·8	57·0	56·4	53·6	55·9	—	58·3	55·5	50·5	56·2	55·6	50·6	—	54·8	52·6	50·4	49·8	49·8	51·6	—	52·8	49·1	52·8	55·5	56·5	101·6	—	101·7	54·96
	—	56·5	60·4	55·7	50·9	53·5	55·5	—	56·0	55·3	46·7	57·7	52·5	53·4	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·0	54·5	51·8	51·1	51·4	52·9	—	52·8	52·7	44·7	54·4	49·0	53·1	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	52·4	49·8	51·3	49·5	50·8	52·9	—	52·8	52·7	44·7	54·4	49·0	53·1	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·4	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	48·8	48·8	51·3	49·1	50·1	50·9	—	52·5	51·5	44·0	51·2	46·2	45·8	—	55·2	52·6	50·4	48·2	48·2	50·5	—	50·5	47·0	51·8	54·7	52·0	101·8	—	100·6	54·70
	—	54·8	48·8	51·3	49·1	50·1	50·9	—	52·5																						

VERTICAL FORCE.														
One Scale Division = •00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah° = •00005.														
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 .	12 ^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.	
DECEMBER.	1	94.4	95.4	97.2	99.6	100.5	101.1	99.9	99.0	100.1	99.6	101.1	101.8	101.2
	2	92.4	92.0	93.5	97.0	98.0	97.6	96.9	96.3	97.0	98.0	98.0	98.0	98.3
	3	97.2	97.4	92.2	93.6	107.5	115.6	117.3	116.1	112.9	97.3	103.8	100.3	93.4
	4	87.4	89.5	89.2	90.0	92.9	94.5	94.5	92.4	92.4	92.4	92.4	94.0	94.3
	5	93.8	94.4	93.2	95.2	95.2	97.0	97.5	94.1	92.7	92.7	92.7	93.3	94.0
	6	82.7	83.6	85.4	88.7	92.1	92.7	92.7	90.9	90.9	90.9	90.4	91.3	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	—
	8	82.6	81.9	85.1	88.6	90.1	90.1	89.1	89.1	88.1	87.7	87.7	87.7	88.5
	9	84.4	84.1	83.9	86.7	87.8	86.9	87.0	87.1	87.9	88.6	89.0	89.4	89.4
	10	86.9	86.9	92.3	92.3	91.1	91.1	88.9	90.9	90.9	90.9	92.0	92.0	92.0
	11	83.1	85.1	86.9	88.8	92.4	91.0	91.0	90.4	91.2	91.2	91.5	92.2	92.6
	12	85.0	84.2	86.2	87.9	86.8	86.2	87.8	89.5	90.4	88.2	88.1	88.1	88.3
	13	83.8	85.9	89.3	90.9	91.8	91.0	91.4	91.4	89.1	89.1	89.6	88.2	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	87.0
	15	85.8	86.3	87.7	89.8	87.8	86.2	88.0	92.0	88.4	92.5	87.0	87.0	89.0
	16	82.4	85.2	87.5	89.5	89.1	89.1	89.1	87.6	86.7	86.7	87.5	88.5	87.4
	17	86.7	87.6	86.8	87.5	88.6	88.6	86.6	85.4	86.9	85.5	86.5	87.5	87.5
	18	82.5	83.1	85.0	88.7	90.2	90.2	89.6	86.8	87.7	86.9	86.9	86.9	87.7
	19	81.0	82.2	84.0	86.0	87.9	88.7	88.7	87.8	87.8	87.5	88.2	88.2	88.9
	20	82.9	81.9	82.1	85.2	88.5	89.1	89.1	89.1	89.3	90.4	90.4	90.4	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	90.0
	22	85.6	85.6	85.6	86.9	86.9	88.1	88.7	88.1	88.5	88.1	88.4	90.4	90.4
	23	84.7	82.0	82.0	84.3	85.3	87.2	89.0	88.3	86.5	84.4	85.7	86.8	86.8
	24	83.1	82.8	84.8	85.2	85.2	83.6	85.0	85.6	85.6	86.0	86.0	84.8	84.5
	25	85.4	78.8	80.6	82.6	83.5	84.3	85.4	85.1	85.1	84.8	85.7	85.7	86.6
	26	82.9	82.9	84.5	83.5	83.9	84.2	85.6	85.4	85.4	85.6	85.6	86.0	86.0
	27	82.1	82.6	83.6	85.9	86.9	85.0	84.2	84.2	84.5	85.3	85.7	85.7	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	88.1
	29	81.9	83.7	87.4	89.0	90.1	88.2	87.4	86.5	87.3	87.7	88.6	88.6	88.6
	30	82.5	85.1	89.1	89.2	91.2	89.1	89.1	90.6	87.4	85.2	85.9	86.8	88.3
	31	84.0	84.0	87.0	88.7	88.7	88.3	86.9	86.2	87.0	87.7	88.2	88.8	89.7
Hourly Means	85.45	85.71	87.11	88.94	90.37	90.54	90.61	90.22	89.91	89.29	89.73	89.94	89.97	
TEMPERATURE OF THE MAGNET.														
DECEMBER.	1	64.3	64.5	64.7	64.9	65.0	65.1	65.0	64.9	64.7	64.4	64.2	64.0	63.8
	2	64.0	64.4	65.1	65.5	65.6	65.7	65.5	65.4	65.4	65.2	65.0	65.0	64.9
	3	66.3	66.6	66.8	67.0	67.2	67.5	67.5	67.5	67.5	67.3	67.0	66.9	66.7
	4	66.3	66.6	66.9	67.4	67.8	68.3	68.3	68.1	68.0	67.8	67.7	67.4	67.2
	5	66.7	67.0	67.4	67.5	68.0	68.3	68.5	68.6	68.6	68.5	68.3	68.2	68.0
	6	68.6	68.8	69.2	69.5	69.8	70.1	70.1	70.2	70.2	70.1	70.0	69.8	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	70.6
	8	69.9	70.2	70.6	71.0	71.4	71.7	71.9	72.0	72.0	71.9	71.8	71.5	71.2
	9	70.7	71.0	71.2	71.7	71.8	71.8	71.7	71.5	71.3	71.1	70.6	70.1	69.7
	10	67.8	68.0	68.1	68.2	68.2	68.2	67.8	67.3	67.0	66.6	66.4	66.6	65.7
	11	65.6	65.8	66.3	66.6	66.8	67.0	67.0	67.0	66.9	66.9	66.7	66.6	66.6
	12	67.1	67.6	68.0	68.7	69.2	69.7	69.9	69.9	69.9	69.7	69.5	69.1	68.8
	13	68.3	68.6	68.9	69.2	69.3	69.6	69.8	69.8	69.8	69.8	69.7	69.6	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	69.8
	15	68.2	68.3	68.5	68.6	68.6	68.8	68.9	68.7	68.5	68.3	67.8	67.4	67.0
	16	66.9	67.3	67.8	68.2	68.7	68.8	68.9	68.8	68.7	68.6	68.4	68.3	68.1
	17	67.8	68.1	68.5	68.7	68.9	69.0	69.1	69.0	68.9	68.9	68.6	68.5	68.5
	18	68.7	69.0	69.1	69.5	69.6	69.8	69.8	69.9	69.8	69.6	69.5	69.1	68.8
	19	67.5	67.8	68.0	68.4	68.6	68.8	69.0	68.9	68.8	68.5	68.3	68.1	67.8
	20	67.3	67.6	68.0	68.3	68.5	68.5	68.6	68.6	68.6	68.5	68.5	68.3	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	66.6
	22	66.7	67.2	67.3	67.6	67.9	68.1	68.2	68.1	67.8	67.8	67.5	67.4	67.3
	23	68.3	68.7	69.0	69.2	69.6	69.7	69.8	69.8	69.5	69.4	69.2	69.0	68.8
	24	69.5	70.0	70.4	70.8	71.0	71.4	71.4	71.2	71.2	71.1	71.1	71.5	71.5
	25	71.3	71.6	72.0	72.2	72.2	72.1	72.1	72.1	72.0	71.8	71.3	70.8	70.1
	26	69.6	69.8	70.2	70.5	70.5	70.8	70.9	70.8	70.8	70.6	70.6	70.4	70.3
	27	71.3	71.8	72.2	72.6	72.7	72.8	72.6	72.5	72.1	71.6	71.3	70.9	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	68.1
	29	67.2	67.5	67.8	68.0	68.2	68.3	68.2	67.9	67.8	67.6	67.3	67.2	66.8
	30	67.8	68.4	69.0	69.5	69.9	70.4	70.7	70.8	70.8	70.7	70.7	70.3	70.0
	31	69.4	69.5	69.7	70.0	70.1	70.0	70.0	69.5	69.3	69.1	68.6	68.2	67.6
Hourly Means	67.89	68.21	68.54	68.86	69.08	69.27	69.30	69.21	69.11	68.94	68.73	68.50	68.16	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
DECEMBER.	1	100.5	100.5	100.5	101.1	101.6	101.6	101.6	99.6	96.9	93.9	93.1	99.25
	2	98.3	98.7	98.7	98.9	97.9	97.3	97.3	93.5	90.6	93.6	93.6	96.31
	3	94.5	93.4	92.3	94.2	95.5	96.9	96.7	96.0	93.0	88.6	87.8	98.90
	4	95.4	95.4	95.4	95.4	95.9	96.7	98.6	98.6	98.5	96.2	92.8	93.95
	5	94.2	96.4	94.7	95.4	95.4	96.6	97.2	95.7	91.9	86.2	83.0	93.85
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	90.3	90.6	91.4	91.4	92.2	94.1	97.8	97.5	91.9	85.4	82.6	90.34
	8	87.7	88.7	89.0	90.6	92.6	93.9	92.5	88.7	87.2	84.4	84.4	88.17
	9	89.4	89.7	89.6	89.8	91.7	94.4	94.4	89.5	82.2	77.6	80.2	87.53
	10	92.6	92.6	93.3	93.9	94.4	94.3	93.7	93.2	91.5	87.1	84.6	91.23
	11	92.6	91.8	92.3	93.0	93.3	94.9	94.7	91.3	89.5	85.8	85.0	90.48
	12	88.7	88.7	89.4	90.2	91.1	92.0	92.0	91.3	86.2	81.0	81.0	87.85
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	87.0	87.0	87.4	87.6	88.8	90.3	92.1	92.8	91.6	86.5	83.9	88.90
	15	89.0	90.3	90.6	91.1	91.1	92.2	89.9	88.3	85.6	80.8	80.9	88.22
	16	89.0	89.2	89.2	87.9	89.0	89.7	89.7	88.1	87.6	86.0	86.0	87.82
	17	87.1	87.9	88.5	88.5	90.0	91.2	93.7	94.3	90.9	84.3	82.5	87.94
	18	88.2	88.6	89.4	90.2	91.4	92.0	93.6	92.2	89.0	85.8	81.0	88.07
	19	89.4	89.4	89.4	90.5	90.5	90.0	89.8	91.5	91.5	93.7	85.4	88.25
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	90.6	91.5	91.2	93.3	94.7	93.5	91.8	87.0	84.5	84.5	85.6	88.61
	22	89.5	89.5	90.5	90.5	90.5	91.4	92.7	92.4	90.7	87.3	85.5	88.83
	23	86.6	88.8	88.8	89.7	89.7	90.9	90.9	91.3	86.7	83.5	83.1	86.79
	24	84.5	84.5	86.0	87.3	87.9	88.5	86.4	85.0	84.8	83.8	81.6	85.10
	25	86.6	86.6	86.6	86.6	88.5	88.8	88.1	87.1	84.7	84.7	84.7	85.28
	26	86.0	86.0	85.7	86.2	88.5	90.4	89.7	88.9	83.9	80.0	80.0	85.28
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	88.1	87.9	87.9	89.1	89.1	90.1	90.1	90.1	87.9	85.0	83.1	86.34
	29	88.6	88.3	88.3	87.7	90.0	90.0	91.3	91.9	89.7	84.1	81.3	87.76
	30	88.3	88.3	88.4	88.4	88.4	89.0	87.3	87.3	85.6	84.0	84.0	87.44
	31	89.7	89.7	90.0	90.6	90.6	89.9	90.7	91.8	92.5	92.5	89.3	88.85
Hourly Means	90.10	90.37	90.54	91.08	91.86	92.61	92.75	91.66	89.13	86.16	84.67	89.53	

TEMPERATURE OF THE MAGNET.

DECEMBER.	1	63.7	63.5	63.1	63.0	62.9	62.8	62.8	63.0	63.0	63.3	63.7	63.93
	2	64.8	64.8	64.8	64.2	64.2	64.5	64.7	65.0	65.3	65.6	65.9	65.02
	3	66.6	66.5	66.4	66.1	65.8	65.7	65.5	65.5	65.6	65.9	66.2	66.57
	4	66.8	66.5	66.2	66.0	65.7	65.7	65.7	65.8	66.0	66.1	66.4	66.86
	5	67.8	67.8	67.7	67.6	67.5	67.5	67.4	67.5	67.7	67.9	68.3	67.85
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	70.4	70.1	69.8	69.4	69.4	69.2	69.1	69.2	69.4	69.6	69.7	69.68
	8	71.0	70.7	70.6	70.2	70.0	69.8	69.8	69.8	70.0	70.2	70.5	70.82
	9	69.0	68.9	68.7	68.5	68.0	67.8	67.7	67.6	67.6	67.8	67.8	69.73
	10	65.2	65.0	64.7	64.5	64.3	64.1	64.1	64.4	64.5	64.7	65.0	66.08
	11	66.3	66.2	66.0	65.8	65.7	65.5	65.5	65.6	66.0	66.4	66.7	66.31
	12	68.6	68.3	67.7	67.5	67.3	67.0	67.0	67.2	67.5	67.8	68.0	68.38
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	69.6	69.4	69.1	68.9	68.8	68.6	68.2	68.0	67.9	67.9	68.0	69.03
	15	66.9	66.6	66.6	66.1	65.9	65.8	65.8	65.9	66.1	66.4	66.6	67.35
	16	67.8	67.7	67.6	67.3	67.3	67.2	67.1	67.0	67.2	67.3	67.6	67.86
	17	68.3	68.2	68.0	67.8	67.7	67.6	67.6	67.9	68.0	68.2	68.6	68.35
	18	68.5	67.9	67.5	67.3	66.9	66.7	66.6	66.6	66.8	67.0	67.2	68.38
	19	67.6	67.2	67.0	66.8	66.7	66.6	66.6	66.7	66.8	66.9	67.0	67.68
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	66.3	66.1	66.0	65.8	65.7	65.6	65.8	65.8	65.8	66.2	66.4	67.14
	22	67.1	66.9	66.6	66.5	66.5	66.6	66.6	66.7	67.0	67.3	67.7	67.27
	23	68.7	68.5	68.1	68.1	67.8	68.1	68.1	68.2	68.4	68.7	69.1	68.83
	24	71.6	71.5	71.3	71.2	71.3	70.9	70.8	70.9	70.9	70.9	71.0	71.02
	25	69.9	69.7	69.5	69.4	69.0	68.9	68.8	69.0	69.2	69.2	69.4	70.57
	26	70.2	70.1	70.2	70.1	70.0	69.8	69.9	70.0	70.2	70.5	71.0	70.33
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	67.7	67.4	66.8	66.6	66.5	66.1	66.1	66.1	66.4	66.7	66.8	69.40
	29	66.8	66.7	66.6	66.3	66.2	66.4	66.4	66.5	66.9	67.2	67.6	67.23
	30	69.8	69.8	69.3	69.1	69.1	68.7	68.6	68.7	68.7	68.8	69.1	69.53
	31	67.2	66.9	66.2	66.0	65.8	65.7	65.6	65.7	65.8	65.8	66.0	67.82
Hourly Means	67.93	67.74	67.49	67.26	67.11	67.00	66.96	67.05	67.21	67.42	67.68	68.11	

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^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.	
JANUARY.	1	86.4	84.5	85.1	87.5	87.5	88.4	88.4	86.9	88.0	88.9	88.9	90.4	90.4
	2	84.4	82.8	83.2	84.9	84.9	84.5	84.3	84.3	84.7	85.6	87.1	87.9	87.9
	3	78.8	76.7	78.8	82.4	84.0	84.8	85.2	84.6	84.6	83.8	84.9	85.5	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	85.9
	5	79.7	76.7	79.9	83.2	85.2	85.2	85.2	85.2	84.8	84.8	86.2	87.8	85.5
	6	82.3	83.3	83.5	84.6	88.7	89.6	87.0	87.8	88.6	88.6	89.3	89.3	89.8
	7	83.4	81.8	86.0	89.0	92.2	90.7	94.1	91.5	89.0	90.7	89.8	90.3	90.3
	8	83.4	83.9	86.5	88.5	89.4	88.6	88.2	89.1	89.1	89.1	89.1	89.1	89.4
	9	87.3	89.7	91.0	91.0	90.1	89.1	89.5	90.3	90.6	90.6	91.0	91.0	90.5
	10	85.3	86.2	87.5	86.5	86.5	87.8	88.5	89.4	89.9	91.0	91.0	91.0	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	90.7
	12	86.3	87.5	90.7	92.5	89.6	88.0	87.5	87.5	88.4	88.4	88.4	88.4	88.8
	13	81.2	83.4	85.3	89.1	88.6	87.8	86.1	86.1	85.6	84.2	86.8	84.1	88.0
	14	80.2	83.0	84.0	85.6	85.6	85.0	85.0	84.4	86.6	86.8	83.7	84.6	85.5
	15	79.5	80.5	81.4	81.4	83.2	82.5	82.0	81.5	82.2	83.1	83.7	84.0	84.0
	16	83.9	82.2	83.4	84.0	82.7	83.3	83.3	81.5	82.2	83.3	84.7	85.1	84.2
	17	80.4	80.7	82.7	82.5	86.4	84.3	86.6	84.7	85.5	88.4	81.3	81.3	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	84.7
	19	86.4	83.6	81.4	81.4	83.3	86.1	88.6	89.5	87.6	87.0	87.0	87.0	87.0
	20	81.1	80.5	81.7	84.8	88.6	91.8	91.6	89.5	88.8	89.5	90.0	89.6	89.6
	21	87.3	80.9	79.2	83.1	87.4	90.4	91.2	87.9	87.9	87.9	88.0	87.3	87.3
	22	81.1	81.3	80.6	80.9	84.9	87.3	87.3	85.1	84.5	83.7	82.6	83.0	84.7
	23	87.3	83.9	80.4	79.7	84.2	89.5	87.3	86.1	87.0	86.4	83.5	92.4	97.7
	24	90.3	86.0	85.1	85.1	87.3	87.3	86.0	92.6	85.7	87.7	89.7	88.3	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	86.5
	26	84.4	85.9	85.9	85.0	83.6	84.1	85.1	85.1	86.2	86.8	86.8	88.2	87.7
	27	79.9	83.5	86.7	88.7	87.2	88.4	88.4	86.4	87.5	88.8	89.4	89.4	88.7
	28	77.8	80.7	87.2	88.5	88.8	87.4	84.9	82.9	83.6	82.5	83.7	83.7	85.2
	29	80.9	83.1	84.9	84.9	84.9	84.9	84.0	82.8	82.0	83.2	84.0	85.9	86.7
	30	74.4	77.1	77.9	80.4	81.3	79.5	80.2	80.7	81.7	82.3	82.3	82.3	82.3
Hourly Means	82.82	82.67	84.23	85.20	86.39	86.78	86.79	86.28	86.24	86.66	86.67	87.19	87.65	
TEMPERATURE OF THE MAGNET.														
JANUARY.	1	66.4	66.5	66.8	67.2	67.4	67.5	67.5	67.4	67.2	67.0	66.8	66.6	66.6
	2	67.3	68.1	68.7	69.1	69.4	69.7	69.8	69.8	69.7	69.5	69.2	69.1	68.9
	3	69.5	69.7	69.9	70.1	70.4	70.6	70.6	70.6	70.4	70.2	70.2	70.1	—
	4	—	—	—	—	—	—	—	—	—	—	—	—	70.8
	5	70.3	70.5	70.8	71.0	71.1	71.2	71.1	71.1	70.8	70.6	70.5	70.0	69.8
	6	68.0	68.1	68.0	67.8	67.6	67.5	67.2	67.0	66.7	66.5	66.5	66.1	66.0
	7	65.4	65.6	65.8	65.8	66.1	66.1	66.3	66.2	65.9	65.8	65.3	65.1	64.9
	8	64.9	65.2	65.3	65.6	65.8	66.0	66.2	66.1	66.0	65.8	65.6	65.4	65.2
	9	65.0	65.2	65.5	65.7	65.9	66.0	66.1	66.2	66.1	66.0	65.8	65.8	65.8
	10	66.2	66.4	66.5	66.6	66.8	67.0	67.0	66.9	66.8	66.6	66.6	66.5	—
	11	—	—	—	—	—	—	—	—	—	—	—	—	66.3
	12	66.0	66.4	66.8	67.1	67.5	67.6	67.5	67.5	67.3	66.9	66.8	66.5	66.3
	13	67.0	67.5	67.8	68.3	68.5	68.9	69.0	69.0	68.8	68.6	68.5	68.3	68.5
	14	69.5	70.0	70.3	70.8	71.1	71.5	71.6	71.5	71.2	70.8	70.6	70.4	70.2
	15	70.3	70.8	71.3	71.7	71.8	72.0	72.2	72.1	71.7	71.5	71.2	71.1	70.8
	16	71.4	71.8	72.0	72.4	72.6	72.7	72.7	72.7	72.2	72.0	71.8	71.6	71.3
	17	71.6	72.1	72.7	73.2	73.3	73.5	73.6	73.2	72.9	72.8	72.7	72.6	—
	18	—	—	—	—	—	—	—	—	—	—	—	—	72.5
	19	69.8	69.8	70.0	70.1	70.1	70.0	70.0	69.6	69.3	69.1	68.9	68.8	68.3
	20	67.9	68.0	68.0	68.0	68.0	67.8	67.7	67.7	67.6	67.6	67.3	67.0	67.2
	21	67.3	67.5	67.9	68.5	68.8	68.9	69.1	69.3	69.3	69.3	69.1	69.3	69.4
	22	70.1	70.5	70.8	71.0	71.3	71.5	71.7	71.8	72.1	72.1	72.4	72.0	71.8
	23	69.6	69.6	69.8	69.8	69.8	69.9	69.8	69.7	69.4	69.1	68.6	68.4	68.2
	24	68.7	69.2	69.6	70.0	70.3	70.6	70.7	70.5	70.4	70.2	69.9	69.9	—
	25	—	—	—	—	—	—	—	—	—	—	—	—	71.0
	26	70.9	71.1	71.0	71.2	71.1	70.9	70.5	70.0	69.6	69.1	68.8	68.5	68.2
	27	67.5	67.8	68.0	68.2	68.4	68.6	68.7	68.6	68.5	68.3	68.2	68.0	67.9
	28	69.1	69.7	70.2	70.7	71.1	71.3	71.6	71.3	71.2	70.8	70.7	70.6	70.2
	29	69.9	70.0	70.1	70.1	70.4	70.3	70.5	70.2	70.0	69.8	69.6	69.3	69.1
	30	70.3	71.1	71.8	72.4	72.8	73.2	73.5	73.7	73.6	73.5	73.2	73.0	72.8
Hourly Means	68.46	68.78	69.05	69.33	69.52	69.65	69.70	69.61	69.41	69.21	69.03	68.85	68.77	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
JANUARY.	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	90.4	90.8	90.8	90.8	90.8	92.3	92.3	93.9	92.9	91.1	88.9	89.43
	2	88.4	87.5	87.5	86.3	88.7	90.3	90.3	90.3	89.5	85.9	83.1	86.43
	3	—	—	—	—	—	—	—	—	—	—	—	84.74
	4	85.0	85.0	86.6	86.6	87.7	89.7	91.6	90.9	86.6	82.8	81.3	85.41
	5	86.8	87.5	86.3	88.2	88.8	89.8	89.8	89.8	86.9	83.4	83.2	88.48
	6	90.7	92.2	91.9	91.9	91.9	92.3	92.3	91.5	88.6	84.3	83.4	89.81
	7	91.7	91.7	93.4	91.1	92.9	92.9	92.9	90.8	88.6	86.3	84.3	88.98
	8	91.2	91.2	91.2	91.2	92.1	92.4	91.9	90.3	87.6	86.5	86.5	89.91
	9	90.5	91.3	91.0	91.0	91.6	93.3	94.5	88.5	88.1	82.8	83.6	89.01
	10	—	—	—	—	—	—	—	—	—	—	—	88.15
	11	90.0	89.6	90.2	90.5	90.8	92.5	92.8	90.5	86.3	87.2	84.6	87.03
	12	89.4	89.4	89.4	89.2	90.9	92.1	93.3	90.3	82.7	78.4	78.4	84.96
	13	90.4	87.8	90.7	89.4	88.8	88.8	91.6	94.2	90.5	83.0	77.2	83.84
	14	83.4	84.5	85.3	85.8	87.0	87.7	88.9	87.0	82.7	83.9	82.9	85.01
	15	83.5	84.2	81.4	85.1	86.4	87.1	89.1	89.1	89.1	84.7	83.4	84.44
	16	85.6	86.6	86.2	84.0	85.8	85.8	85.7	90.9	90.9	89.1	85.9	86.60
	17	—	—	—	—	—	—	—	—	—	—	—	89.05
	18	84.7	85.4	83.3	84.6	84.6	84.9	84.2	85.7	86.9	86.4	86.4	86.73
	19	87.0	87.7	87.7	87.4	88.7	89.6	90.4	90.4	87.3	83.6	82.6	85.71
	20	88.7	88.7	90.1	88.7	89.1	89.5	92.0	94.0	94.8	93.1	91.5	89.12
	21	87.0	87.0	86.9	86.1	88.0	88.8	88.3	87.1	87.4	86.4	82.6	87.63
	22	85.3	86.1	87.5	87.5	87.5	89.0	90.7	89.6	88.2	89.7	88.9	86.29
	23	92.4	88.6	91.6	92.3	92.9	93.3	100.9	92.5	88.5	89.4	91.1	87.88
	24	—	—	—	—	—	—	—	—	—	—	—	85.58
	25	86.8	86.8	87.0	87.0	88.8	89.7	90.2	89.0	88.1	88.2	83.8	85.50
	26	87.7	87.7	87.7	88.1	89.1	91.2	92.4	88.6	83.2	81.8	78.7	81.78
	27	88.2	88.0	88.8	89.3	90.1	93.4	95.6	95.6	88.1	81.2	77.9	—
	28	87.6	88.0	88.0	87.5	88.0	86.0	88.1	90.0	88.9	85.0	80.0	—
	29	86.7	86.7	85.9	88.8	87.9	89.6	92.7	93.3	88.0	83.8	76.3	—
30	83.4	83.4	83.2	83.2	85.1	87.3	87.2	86.4	84.0	81.4	75.8	—	
Hourly Means	87.79	87.82	88.06	88.14	89.00	89.97	91.14	90.39	87.86	85.36	83.16	86.84	

TEMPERATURE OF THE MAGNET.

JANUARY.	1	66.3	66.1	66.0	65.9	65.8	65.5	65.6	65.8	66.0	66.4	66.8	66.55
	2	68.5	68.5	68.3	68.1	68.1	68.1	68.2	68.3	68.6	68.9	69.2	68.80
	3	—	—	—	—	—	—	—	—	—	—	—	70.13
	4	70.7	70.6	70.1	70.0	69.9	69.8	69.6	69.7	69.7	69.8	70.0	69.69
	5	69.6	69.4	69.1	68.8	68.5	68.4	68.1	68.1	68.0	67.9	67.9	66.35
	6	65.8	65.8	65.7	65.6	65.5	65.2	65.1	65.1	65.1	65.1	65.3	65.10
	7	64.8	64.6	64.6	64.5	64.3	64.1	64.0	64.1	64.2	64.4	64.6	65.11
	8	65.0	64.8	64.4	64.4	64.3	64.2	64.2	64.3	64.5	64.6	64.8	65.79
	9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	66.04
	10	—	—	—	—	—	—	—	—	—	—	—	66.52
	11	66.0	65.8	65.4	65.3	65.1	64.9	65.0	65.0	65.1	65.5	65.7	68.35
	12	66.1	66.0	66.0	65.8	65.8	65.8	65.8	65.8	66.0	66.4	66.8	70.13
	13	68.5	68.3	68.3	68.3	68.1	67.9	68.0	68.1	68.4	68.6	69.1	70.91
	14	70.0	69.7	69.5	69.3	69.1	69.1	69.1	69.0	69.2	69.7	70.0	71.38
	15	70.8	70.7	70.3	70.1	70.0	69.9	70.0	70.0	70.2	70.6	70.8	71.82
	16	71.0	70.8	70.7	70.4	70.3	70.1	70.0	70.2	70.5	70.7	71.1	68.65
	17	—	—	—	—	—	—	—	—	—	—	—	67.40
	18	72.3	71.9	71.5	71.3	70.8	70.3	69.9	69.8	69.8	69.7	69.7	69.07
	19	68.1	68.1	67.7	67.6	67.4	67.4	67.3	67.5	67.5	67.5	67.8	70.94
	20	67.1	67.1	67.1	67.1	67.1	67.0	67.0	67.0	67.0	67.1	67.3	68.78
	21	69.4	69.5	69.4	69.4	69.4	69.2	69.2	69.3	69.4	69.7	70.0	70.19
	22	71.6	71.4	70.9	70.6	70.4	70.1	69.9	69.8	69.7	69.5	69.6	68.66
	23	68.2	68.3	68.2	68.2	68.1	67.8	67.8	67.8	67.9	68.1	68.6	67.90
	24	—	—	—	—	—	—	—	—	—	—	—	70.09
	25	70.9	70.7	70.7	70.5	70.1	69.9	69.8	69.8	70.0	70.4	70.7	69.46
	26	67.8	67.5	67.2	67.0	66.9	66.6	66.6	66.6	66.7	66.9	67.2	72.42
	27	67.8	67.7	67.3	67.2	67.2	67.2	67.3	67.3	67.5	67.9	68.5	—
	28	70.0	69.8	69.5	69.2	69.2	69.1	69.1	69.2	69.4	69.6	69.6	—
	29	68.8	68.8	68.7	68.7	68.6	68.6	68.6	68.8	69.0	69.3	69.8	—
	30	72.6	72.3	72.2	72.0	71.8	71.8	71.7	71.6	72.0	72.4	72.8	—
Hourly Means	68.60	68.46	68.25	68.12	67.99	67.84	67.80	67.88	67.97	68.17	68.44	68.70	

VERTICAL FORCE.													
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.													
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 .	12 ^h .
Jan. 31	Sc. Div. 69.4	Sc. Div. 68.7	Sc. Div. 72.8	Sc. Div. 76.7	Sc. Div. 77.4	Sc. Div. 79.6	Sc. Div. 80.6	Sc. Div. 79.3	Sc. Div. 79.6	Sc. Div. 79.6	Sc. Div. 80.3	Sc. Div. 80.7	—
1	—	—	—	—	—	—	—	—	—	—	—	—	81.7
2	72.4	70.6	71.9	75.8	79.0	82.4	83.5	82.9	82.2	82.0	82.5	80.9	83.1
3	76.6	76.6	77.7	78.5	82.1	81.9	83.1	83.1	83.1	83.7	83.5	83.5	82.9
4	78.8	77.9	76.6	76.6	78.5	80.7	82.7	83.5	82.1	81.6	81.6	82.4	82.4
5	73.2	73.2	74.3	76.6	79.5	81.3	82.8	83.1	83.1	83.1	83.1	83.1	83.1
6	72.2	75.2	77.0	78.5	80.0	81.3	81.3	81.7	81.7	81.7	82.2	81.9	82.5
7	79.9	79.9	81.2	80.2	83.1	84.7	82.0	80.6	80.6	80.6	79.7	80.9	—
8	—	—	—	—	—	—	—	—	—	—	—	—	77.8
9	70.1	70.4	73.6	85.8	86.2	84.2	84.2	79.9	79.9	79.9	80.8	80.4	80.2
10	71.2	72.6	67.5	74.6	80.6	82.9	86.2	84.4	82.9	82.6	82.6	83.9	83.9
11	69.0	67.3	72.2	76.8	82.1	82.1	82.6	81.8	82.8	82.0	82.0	82.8	83.6
12	75.8	73.7	73.7	77.0	79.0	81.5	80.9	79.9	79.9	80.4	79.7	81.7	82.7
13	66.5	64.8	69.5	74.4	78.8	81.6	80.7	78.8	78.3	79.9	80.6	82.1	83.4
14	71.6	70.9	74.5	76.5	78.2	81.4	79.3	78.3	75.9	76.6	80.9	82.1	—
15	—	—	—	—	—	—	—	—	—	—	—	—	79.2
16	73.9	72.5	73.3	76.2	78.9	84.1	84.2	86.2	81.0	81.3	86.5	83.4	84.0
17	78.1	74.5	74.5	74.9	78.4	82.2	83.5	82.3	83.8	79.4	82.5	85.0	83.5
18	78.1	73.6	75.5	79.7	81.8	83.9	86.5	86.3	86.7	86.1	83.1	85.3	84.4
19	77.7	72.7	71.4	72.2	76.6	81.4	83.1	82.3	81.8	81.0	81.0	81.0	81.1
20	71.6	71.6	72.9	74.1	76.3	78.8	80.0	79.4	79.4	79.8	80.2	80.2	81.2
21	70.7	67.6	67.6	71.7	78.1	82.0	82.0	79.4	79.4	79.4	79.4	79.4	—
22	—	—	—	—	—	—	—	—	—	—	—	—	79.0
23	73.9	72.4	73.6	76.0	78.1	80.6	80.9	79.6	80.1	80.1	80.1	80.1	80.1
24	70.9	69.6	72.7	75.7	77.4	79.6	80.9	80.9	80.9	81.3	81.8	82.2	81.9
25	69.5	66.5	67.3	72.5	77.6	82.1	84.5	84.8	84.8	87.3	91.5	89.5	88.5
26	71.8	70.7	71.8	76.3	80.5	81.5	82.8	82.8	82.5	80.0	81.3	83.2	80.4
27	75.4	72.2	72.8	74.6	77.9	80.1	80.0	79.2	79.7	80.7	81.4	81.4	80.9
Hourly Means	73.26	71.90	73.16	76.33	79.42	81.75	82.43	81.69	81.34	81.25	82.01	82.38	82.15
TEMPERATURE OF THE MAGNET.													
Jan. 31	73.4	73.9	74.5	74.8	75.4	75.6	75.8	75.8	75.7	75.6	75.6	75.3	—
1	—	—	—	—	—	—	—	—	—	—	—	—	73.3
2	72.8	73.0	73.2	73.3	73.3	73.2	72.9	72.8	72.6	72.3	72.0	71.8	71.6
3	70.8	71.1	71.3	71.4	71.5	71.5	71.4	71.3	71.1	70.9	70.9	70.8	70.6
4	71.1	71.7	72.0	72.3	72.6	72.7	72.9	72.8	72.6	72.4	72.2	71.9	71.7
5	72.2	72.3	72.5	72.5	72.4	72.3	72.2	71.9	71.8	71.5	71.2	70.8	70.6
6	70.5	70.9	71.4	71.7	71.8	72.0	72.0	71.8	71.8	71.5	71.5	71.4	71.2
7	71.6	72.0	72.6	73.0	73.4	73.5	73.7	73.6	73.6	73.3	73.0	72.8	—
8	—	—	—	—	—	—	—	—	—	—	—	—	72.8
9	72.8	73.4	73.6	74.0	74.1	74.5	74.8	75.0	74.8	74.5	74.4	74.0	73.6
10	72.0	72.1	72.3	72.5	72.6	72.5	72.6	72.3	72.0	71.8	71.8	71.4	71.2
11	71.5	71.7	72.0	72.1	72.1	72.2	72.0	71.8	71.5	71.3	70.8	70.6	70.4
12	70.5	70.9	71.2	71.7	72.1	72.4	72.6	72.6	72.6	72.5	72.3	72.2	71.9
13	71.8	72.4	72.6	73.0	73.4	73.5	73.7	73.6	73.5	73.3	72.8	72.8	72.6
14	71.6	72.0	72.3	72.4	72.5	72.7	72.8	72.8	72.8	72.8	72.8	72.8	—
15	—	—	—	—	—	—	—	—	—	—	—	—	72.5
16	71.4	71.6	71.6	71.6	71.4	71.4	71.4	71.3	71.1	70.8	70.8	70.6	70.5
17	69.9	70.1	70.4	70.6	70.7	70.7	70.4	70.3	70.0	69.8	69.5	69.2	69.0
18	68.5	68.6	68.7	68.9	69.0	69.0	68.9	68.8	68.6	68.3	68.0	67.6	67.4
19	67.6	68.1	68.8	69.4	69.8	70.1	70.4	70.4	70.4	70.1	69.8	69.8	69.6
20	70.3	70.7	71.0	71.4	71.8	71.9	72.0	71.9	71.7	71.6	71.5	71.3	71.0
21	71.0	71.4	71.8	72.1	72.4	72.5	72.4	72.1	72.0	71.8	71.5	71.4	—
22	—	—	—	—	—	—	—	—	—	—	—	—	70.7
23	70.2	70.6	70.7	71.0	71.1	71.1	71.1	70.9	70.7	70.5	70.2	70.0	69.9
24	68.9	68.9	69.0	69.2	69.4	69.5	69.4	69.4	69.1	69.0	69.0	68.8	68.5
25	67.7	68.1	68.5	68.8	68.9	68.9	68.8	68.8	68.6	68.4	68.3	68.1	68.1
26	68.6	68.8	69.1	69.4	69.8	70.0	69.8	69.8	69.9	69.7	69.7	69.5	69.4
27	68.7	69.0	69.3	69.5	69.7	69.8	69.9	69.9	69.8	69.7	69.5	69.5	69.4
Hourly Means	70.64	70.97	71.27	71.53	71.72	71.81	71.83	71.74	71.60	71.39	71.21	71.02	70.73

VERTICAL FORCE.													
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.													
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 .	12 ^h .
Feb. 28	74.2	72.6	73.5	76.4	79.8	81.7	81.6	80.7	80.1	80.0	81.6	82.2	—
1	—	—	—	—	—	—	—	—	—	—	—	—	83.6
2	75.3	71.2	69.4	74.5	80.8	85.1	83.6	83.6	82.6	82.6	82.6	83.3	83.8
3	78.6	74.0	73.8	76.3	79.4	84.7	83.1	81.6	81.6	81.6	81.6	82.6	81.6
4	71.0	65.6	66.7	72.0	76.2	81.4	79.6	79.6	79.6	80.3	78.8	78.8	78.8
5	67.1	67.1	66.5	71.9	75.4	77.6	78.1	78.2	78.2	77.5	78.2	78.2	78.2
6	69.8	69.8	71.9	73.7	76.5	78.1	78.5	79.8	79.8	79.8	79.8	79.3	79.3
7	69.3	67.6	69.0	72.8	76.5	77.4	77.0	77.4	77.8	78.6	79.0	79.0	—
8	—	—	—	—	—	—	—	—	—	—	—	—	78.1
9	65.3	65.3	69.1	73.3	77.8	81.7	81.7	80.9	79.6	79.6	80.0	80.0	80.0
10	72.4	72.4	73.9	77.4	80.5	83.0	83.0	82.1	81.0	81.0	81.3	81.3	81.3
11	68.1	68.1	72.3	76.5	79.6	81.8	81.8	81.3	81.3	82.3	79.9	78.2	78.2
12	71.4	70.4	72.3	75.6	76.5	77.8	78.9	78.9	78.9	77.9	77.5	78.8	79.0
13	66.8	70.9	75.6	84.0	88.2	89.0	90.4	82.0	82.5	79.5	82.0	83.3	80.9
14	71.5	73.0	78.0	82.8	83.5	85.7	82.4	84.6	82.3	81.9	77.5	76.3	—
15	—	—	—	—	—	—	—	—	—	—	—	—	80.6
16	68.2	71.0	74.2	82.4	83.6	83.6	83.4	81.9	82.8	82.8	80.9	85.4	78.7
17	75.7	79.2	81.1	82.8	81.1	82.9	80.5	79.6	81.1	82.4	77.8	81.0	81.0
18	74.6	72.4	75.4	78.6	81.9	83.0	83.0	81.8	80.4	80.4	79.1	80.0	79.6
19	70.9	69.1	70.8	78.2	80.4	81.8	81.3	79.7	79.5	79.5	78.8	79.5	79.5
20	69.7	69.0	71.4	74.5	78.2	80.0	79.4	79.2	78.7	76.9	76.9	77.2	77.2
21	73.6	69.4	69.9	71.6	74.3	75.1	74.0	74.4	75.8	75.8	74.9	73.7	—
22	—	—	—	—	—	—	—	—	—	—	—	—	74.8
23	67.8	67.8	70.7	74.4	76.8	78.3	77.3	77.3	78.5	77.6	77.6	77.6	77.6
24	66.9	68.7	69.7	74.6	77.2	77.5	78.3	79.1	77.2	76.2	76.2	76.2	76.2
25	65.1	66.8	69.0	72.3	74.1	74.5	74.8	74.8	74.8	74.8	75.7	75.7	75.7
26	69.4	68.7	69.9	77.1	76.6	76.3	75.4	77.0	77.0	78.0	77.3	76.8	76.8
27	70.6	70.6	72.4	73.8	79.0	77.8	75.8	78.2	74.5	74.5	76.0	76.8	75.1
28	60.8	63.3	66.9	70.2	73.8	74.4	73.7	73.0	73.4	75.0	75.0	75.0	—
29	—	—	—	—	—	—	—	—	—	—	—	—	75.0
30	61.8	65.1	70.6	73.9	77.1	78.1	76.9	75.9	76.7	75.9	75.5	75.5	76.0
31	66.6	67.3	70.0	73.1	75.1	76.3	76.3	75.9	75.4	75.4	75.7	77.6	76.3
Hourly Means	69.72	69.50	71.63	75.73	78.51	80.17	79.62	79.20	78.98	78.81	78.41	78.84	78.63

TEMPERATURE OF THE MAGNET.													
Feb. 28	68.5	68.5	68.6	68.5	68.4	68.6	68.5	68.5	68.5	68.3	68.2	67.9	—
1	—	—	—	—	—	—	—	—	—	—	—	—	66.0
2	65.5	65.7	65.7	65.8	66.0	66.0	65.9	65.8	65.7	65.6	65.5	65.3	65.3
3	64.9	65.2	65.4	65.8	65.9	66.0	66.0	65.8	65.8	65.6	65.5	65.3	65.3
4	66.1	66.8	67.1	67.6	67.9	68.1	68.1	68.1	68.0	68.0	67.9	67.9	67.9
5	68.8	69.2	69.8	70.0	70.6	70.8	70.9	70.8	70.7	70.4	70.2	70.1	70.0
6	70.0	70.1	70.5	70.5	70.8	70.7	70.6	70.5	70.3	70.2	70.0	69.9	69.6
7	69.3	69.8	70.1	70.7	71.0	71.2	71.6	71.5	71.4	71.2	71.2	71.0	—
8	—	—	—	—	—	—	—	—	—	—	—	—	71.1
9	69.5	69.6	69.6	69.8	69.6	69.6	69.6	69.3	69.2	68.8	68.3	68.0	67.7
10	66.3	66.6	66.9	67.3	67.5	67.5	67.6	67.4	67.2	67.0	67.0	66.8	66.8
11	66.9	67.3	67.3	67.7	68.0	68.1	68.3	68.3	68.2	68.0	68.0	68.0	67.8
12	68.1	68.7	69.0	69.5	69.7	69.9	69.9	70.0	69.9	69.8	69.7	69.3	69.0
13	68.3	68.4	68.7	69.0	69.1	69.1	69.7	69.7	69.7	69.5	69.3	69.0	68.5
14	67.8	68.0	68.0	68.1	68.1	68.1	68.1	68.2	68.1	67.6	67.7	67.6	—
15	—	—	—	—	—	—	—	—	—	—	—	—	67.8
16	66.9	67.0	67.0	67.0	67.1	67.1	66.9	66.8	66.8	66.7	66.7	66.6	66.5
17	65.8	66.2	66.7	67.1	67.4	67.4	67.3	67.1	66.9	66.6	66.6	66.2	65.9
18	65.1	65.6	65.9	66.3	66.5	66.6	66.5	66.5	66.5	66.4	66.4	66.1	66.4
19	67.1	67.4	67.7	68.0	68.1	68.5	68.2	68.1	68.1	68.0	68.1	67.4	67.1
20	67.2	67.7	68.4	68.6	68.9	69.1	69.2	69.3	69.2	69.2	69.2	69.2	69.1
21	70.5	70.9	71.3	71.9	72.3	72.7	72.8	72.8	72.8	72.7	72.7	72.7	—
22	—	—	—	—	—	—	—	—	—	—	—	—	70.6
23	68.0	68.3	68.4	68.5	68.9	69.1	69.1	68.9	68.8	68.6	68.0	67.5	67.1
24	66.2	66.6	66.8	67.4	67.8	68.0	68.3	68.4	68.3	68.4	68.1	68.0	67.9
25	67.6	68.1	68.4	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.7	68.6	68.5
26	68.3	68.6	68.6	68.8	69.0	69.1	69.0	69.0	68.9	68.6	68.6	68.4	68.2
27	66.8	67.2	67.6	67.9	68.3	68.6	68.6	68.7	68.7	68.6	68.7	68.6	68.6
28	69.1	69.3	69.5	69.9	70.1	70.5	70.7	70.7	70.7	70.7	70.5	70.3	—
29	—	—	—	—	—	—	—	—	—	—	—	—	70.0
30	69.3	69.5	69.6	69.7	69.6	69.5	69.3	69.2	69.1	68.9	68.7	68.6	68.5
31	67.8	67.8	67.8	68.0	68.1	68.1	68.0	67.8	67.6	67.4	67.4	67.1	67.0
Hourly Means	67.64	67.93	68.16	68.44	68.65	68.77	68.80	68.74	68.66	68.51	68.38	68.20	67.93

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
Feb. 28	—	—	—	—	—	—	—	—	—	—	—	81.46
1	83.0	83.0	83.0	82.6	82.2	82.5	86.7	89.1	88.7	85.8	80.4	82.13
2	83.8	83.8	83.8	82.7	82.7	83.2	85.0	87.8	88.2	87.6	84.0	81.33
3	81.9	81.9	82.7	81.8	80.6	81.9	84.1	88.3	87.5	83.1	77.5	77.61
4	79.2	79.2	79.6	79.2	79.2	79.2	81.8	84.8	83.0	77.9	71.1	77.08
5	78.2	79.2	79.4	79.9	78.7	78.7	80.9	83.4	83.4	80.2	75.6	78.07
6	79.3	79.3	79.0	79.0	79.0	80.0	82.8	85.8	83.8	77.7	71.9	76.82
7	—	—	—	—	—	—	—	—	—	—	—	78.92
8	78.7	78.7	78.7	78.7	78.7	79.3	82.8	86.0	82.2	73.0	67.3	80.38
9	80.5	80.5	79.7	79.7	80.5	82.5	85.8	88.3	88.2	82.4	71.6	79.11
10	81.3	81.3	81.8	81.8	81.7	81.7	83.9	87.2	87.2	80.4	70.3	77.34
11	80.2	80.2	81.9	80.3	79.6	77.9	81.9	84.2	86.1	81.1	75.8	81.04
12	78.1	78.1	78.0	78.0	78.3	77.6	80.8	82.3	82.3	78.1	70.6	80.68
13	77.7	79.0	76.4	77.8	80.9	81.4	83.4	83.4	86.5	83.7	79.6	80.71
14	—	—	—	—	—	—	—	—	—	—	—	81.12
15	80.8	81.4	79.8	81.2	81.0	82.8	85.5	86.2	83.9	79.7	73.9	79.89
16	78.2	82.1	83.3	81.9	81.7	81.2	83.4	84.8	84.8	80.2	76.6	79.15
17	79.1	78.7	80.4	80.8	82.1	81.8	85.1	88.9	86.9	80.8	76.1	77.76
18	76.9	81.6	80.7	80.7	79.9	80.5	84.2	85.1	83.8	78.4	73.9	74.83
19	80.0	80.7	80.7	80.7	80.0	82.4	84.8	85.5	84.3	79.2	72.3	76.76
20	77.2	77.2	77.2	77.9	77.9	79.5	82.5	84.7	84.7	81.7	77.4	75.54
21	—	—	—	—	—	—	—	—	—	—	—	73.27
22	74.3	74.3	75.0	75.8	75.8	77.4	80.4	82.9	80.1	73.2	69.5	74.60
23	76.9	76.9	77.1	77.5	78.1	79.0	81.6	84.5	83.0	77.6	70.8	75.17
24	75.1	75.9	75.9	75.6	75.9	76.8	81.0	82.4	76.6	68.0	66.7	73.94
25	75.7	74.8	75.5	75.5	75.5	76.4	78.8	79.7	77.1	71.0	66.4	76.02
26	76.8	77.0	77.0	77.0	76.7	78.7	81.9	80.2	77.8	72.8	72.3	75.54
27	75.8	75.3	75.3	75.5	76.2	77.4	79.8	82.6	81.0	72.6	66.4	73.27
28	—	—	—	—	—	—	—	—	—	—	—	74.60
29	75.4	75.4	74.7	76.1	76.1	77.4	80.1	81.8	78.1	69.7	64.1	75.17
30	76.0	76.0	76.0	76.0	76.0	76.6	79.6	81.6	77.3	69.6	66.6	78.00
31	77.1	77.1	75.5	76.3	76.3	77.9	81.0	82.8	79.7	72.4	67.0	
Hourly Means	78.41	78.84	78.82	78.89	78.94	79.69	82.58	84.60	83.19	77.70	72.43	78.00

TEMPERATURE OF THE MAGNET.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.
Feb. 28	—	—	—	—	—	—	—	—	—	—	—	66.91
1	65.9	65.7	65.7	65.4	65.2	65.1	65.1	65.1	65.1	65.2	65.3	65.20
2	65.2	65.1	64.8	64.7	64.6	64.5	64.0	64.2	64.5	64.6	64.7	65.35
3	65.3	65.2	65.0	64.9	64.9	64.8	64.8	64.8	65.1	65.4	65.6	67.67
4	67.8	67.8	67.9	67.8	67.6	67.3	67.4	67.3	67.6	67.8	68.2	70.00
5	70.0	69.8	69.8	69.9	69.8	69.7	69.6	69.6	69.7	69.7	70.0	69.50
6	69.3	69.1	68.9	68.7	68.5	68.2	68.0	68.0	68.2	68.5	68.9	70.34
7	—	—	—	—	—	—	—	—	—	—	—	67.83
8	70.8	70.8	70.4	70.1	69.6	69.4	69.1	69.1	69.1	69.2	69.4	66.64
9	67.5	67.4	66.8	66.3	66.1	66.0	65.8	65.7	65.8	65.8	66.0	67.72
10	66.6	66.5	66.3	66.2	66.0	65.8	65.8	65.7	65.8	66.2	66.6	68.83
11	67.7	67.6	67.5	67.6	67.6	67.5	67.4	67.4	67.4	67.7	67.9	68.33
12	69.0	68.8	68.7	68.5	68.0	67.8	67.6	67.6	67.6	67.8	68.1	67.53
13	68.4	68.0	67.8	67.4	67.2	67.2	67.1	67.1	67.1	67.3	67.4	66.20
14	—	—	—	—	—	—	—	—	—	—	—	65.84
15	67.7	67.6	67.2	67.0	66.9	66.9	66.8	66.8	66.8	66.8	66.9	66.39
16	66.1	66.0	65.8	65.5	65.3	65.1	65.0	65.0	65.1	65.2	65.5	67.27
17	65.4	65.3	65.1	65.1	65.0	64.8	64.4	64.5	64.7	64.7	64.9	68.95
18	66.6	66.6	66.7	66.7	66.7	66.6	66.5	66.4	66.4	66.5	66.8	70.52
19	66.9	66.8	66.6	66.4	66.2	66.5	66.5	66.5	66.7	66.6	66.9	67.25
20	69.2	69.0	69.0	68.8	68.8	69.1	69.0	69.1	69.2	69.6	69.8	67.55
21	—	—	—	—	—	—	—	—	—	—	—	68.27
22	70.1	69.8	69.6	69.3	69.0	68.5	68.2	67.9	67.7	67.8	67.8	67.84
23	66.8	66.5	66.1	66.0	65.8	65.6	65.4	65.4	65.6	65.7	65.8	68.16
24	67.8	67.8	67.7	67.6	67.5	67.1	67.0	66.9	66.9	67.3	67.4	69.69
25	68.4	68.2	68.0	67.8	67.8	67.8	67.7	67.7	67.8	67.8	68.1	68.55
26	67.9	67.7	67.2	66.9	66.8	66.6	66.5	66.4	66.1	66.4	66.6	67.84
27	68.5	68.3	68.2	68.0	68.0	67.8	67.8	67.8	67.8	68.3	68.5	68.16
28	—	—	—	—	—	—	—	—	—	—	—	68.55
29	69.9	69.8	69.2	69.1	69.0	69.0	68.9	68.8	68.8	68.9	69.1	66.74
30	68.3	68.1	68.0	67.9	67.8	67.7	67.6	67.6	67.5	67.6	67.6	
31	66.8	66.5	66.1	65.8	65.5	65.5	65.1	65.0	65.1	65.1	65.3	
Hourly Means	67.77	67.62	67.41	67.24	67.08	66.96	66.82	66.79	66.86	67.02	67.23	67.82

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.														
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 .	12 ^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.	
APRIL.	1	67.0	67.0	70.5	70.5	75.7	77.1	78.4	77.8	76.3	76.3	77.7	77.2	76.7
	2	66.3	66.3	71.4	73.7	74.6	74.6	74.9	75.1	75.4	74.7	75.6	75.4	75.4
	3	67.5	68.4	71.8	74.4	75.4	76.8	76.5	76.1	75.8	75.8	75.8	75.8	75.8
	4	62.8	62.3	62.5	70.3	73.6	76.2	78.2	78.2	76.2	75.3	76.1	75.5	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	75.0
	6	69.7	73.2	77.7	86.1	81.3	85.7	85.5	84.2	89.2	88.8	81.6	75.2	73.8
	7	73.2	74.7	78.6	78.6	78.6	78.6	82.2	83.9	81.2	81.8	82.6	81.1	78.7
	8	71.0	73.9	77.8	77.8	79.7	78.6	78.6	79.9	77.6	78.8	77.0	76.2	76.2
	9	70.2	69.3	70.3	71.2	72.7	74.0	74.4	73.8	73.8	73.8	73.2	73.2	— ^a
	10	—	—	—	—	—	—	—	—	—	—	—	—	77.2
	11	65.5	68.0	72.1	73.8	73.8	75.3	76.0	78.6	75.1	76.2	73.7	72.6	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	78.5
	13	70.4	71.5	75.8	80.2	81.3	82.6	84.6	85.1	82.5	81.8	73.6	79.8	78.9
	14	68.2	73.8	78.1	78.9	78.9	78.9	76.4	77.0	81.4	81.3	77.7	79.0	78.0
	15	67.7	72.2	74.1	74.1	76.6	75.0	74.6	74.9	78.2	73.7	77.7	79.9	78.8
	16	73.5	73.3	75.7	82.1	82.6	83.9	81.4	78.7	80.4	78.2	76.1	78.5	73.8
	17	71.2	73.2	77.9	82.0	77.8	77.8	81.7	78.8	76.3	78.6	75.2	79.0	77.6
	18	71.7	72.6	74.7	76.5	78.4	79.8	79.8	79.8	78.5	78.5	78.9	78.9	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	77.4
	20	69.1	70.6	74.1	75.2	76.9	77.6	78.1	79.3	79.3	80.2	78.5	79.1	78.6
	21	68.3	70.6	73.9	76.0	77.9	78.3	77.8	78.5	78.5	78.5	78.5	77.8	77.8
	22	64.6	71.8	75.1	75.9	78.1	78.7	77.8	80.0	80.8	81.2	78.6	77.1	77.9
	23	68.9	70.9	73.0	76.9	77.6	78.9	78.9	78.9	79.2	77.1	77.7	77.7	77.7
	24	69.9	73.7	77.0	79.5	79.5	80.3	81.2	80.8	80.8	80.8	80.8	80.8	80.8
	25	76.5	75.7	76.8	79.8	84.2	82.8	82.8	82.8	84.9	84.5	82.4	83.9	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	83.6
	27	72.9	72.9	76.7	82.5	83.4	82.5	81.6	82.1	82.1	82.5	82.8	82.6	82.9
	28	73.8	74.1	76.2	80.1	82.7	83.8	83.3	82.9	82.9	83.5	83.5	83.5	83.5
	29	74.7	75.5	76.0	77.5	79.4	82.1	82.8	81.1	80.4	80.4	80.4	80.4	81.9
	30	72.7	74.2	74.9	78.9	78.9	78.0	78.2	78.2	78.2	78.2	79.0	79.0	78.5
Hourly Means	69.89	71.59	74.51	77.30	78.38	79.12	79.43	79.46	79.40	79.22	78.19	78.37	78.20	
TEMPERATURE OF THE MAGNET.														
	°	°	°	°	°	°	°	°	°	°	°	°	°	
APRIL.	1	65.6	65.9	66.0	66.4	66.6	66.6	66.6	66.4	66.3	66.1	65.8	65.5	65.3
	2	64.6	64.8	65.0	65.1	65.4	65.6	65.6	65.5	65.3	65.2	65.3	65.2	65.2
	3	65.4	65.8	66.3	66.6	67.1	67.2	67.0	66.9	66.8	66.8	66.7	66.7	66.5
	4	65.8	66.0	66.6	66.8	67.0	67.1	67.3	67.2	67.1	67.0	66.8	66.8	—
	5	—	—	—	—	—	—	—	—	—	—	—	—	66.5
	6	65.4	65.3	65.5	65.6	65.6	65.6	65.8	65.8	65.8	65.7	65.3	65.1	64.9
	7	63.7	63.8	64.0	64.0	64.0	64.0	63.9	63.7	63.5	63.4	63.1	62.9	62.8
	8	62.8	63.4	63.6	64.2	64.5	65.0	65.0	65.0	65.0	65.0	65.1	65.2	65.0
	9	65.5	66.5	66.9	67.3	67.8	68.1	68.7	68.7	68.6	68.5	68.2	67.8	— ^a
	10	—	—	—	—	—	—	—	—	—	—	—	—	68.5
	11	67.4	67.6	67.8	67.8	67.8	67.8	67.6	67.5	67.4	67.1	67.0	66.9	—
	12	—	—	—	—	—	—	—	—	—	—	—	—	61.8
	13	61.0	61.1	61.2	61.6	61.6	61.7	61.8	61.8	61.7	61.7	61.5	61.3	61.2
	14	61.8	62.4	62.8	63.1	63.6	63.8	63.9	63.9	64.0	63.9	63.8	63.8	63.7
	15	63.6	64.1	65.1	65.3	65.5	65.6	65.7	65.6	65.3	65.2	65.3	65.0	64.8
	16	63.7	63.9	64.0	64.2	64.5	64.5	64.5	64.4	64.2	64.1	63.7	63.4	63.1
	17	62.7	62.9	63.2	63.6	63.7	63.8	64.0	64.0	64.0	64.0	63.8	63.8	63.8
	18	63.5	63.6	63.8	64.0	63.8	63.9	63.8	63.7	63.6	63.6	63.5	63.4	—
	19	—	—	—	—	—	—	—	—	—	—	—	—	63.2
	20	63.1	63.3	63.5	63.8	64.1	64.1	64.0	64.0	64.0	63.8	63.8	63.7	63.6
	21	62.8	63.0	63.2	63.5	63.5	63.6	63.6	63.6	63.4	63.3	63.4	63.2	63.0
	22	61.9	62.0	62.4	62.6	63.0	63.2	63.4	63.4	63.4	63.4	63.2	63.4	63.6
	23	63.8	63.8	63.9	64.0	64.3	64.6	64.5	64.5	64.5	64.3	64.2	63.9	63.3
	24	62.2	62.5	62.6	62.8	63.0	63.1	63.0	62.9	62.8	62.6	62.3	61.9	61.6
	25	61.4	61.7	62.1	62.3	62.5	62.8	62.8	62.8	62.8	62.7	62.7	62.7	—
	26	—	—	—	—	—	—	—	—	—	—	—	—	62.7
	27	63.7	63.8	64.0	64.3	64.3	64.4	64.3	64.2	64.2	64.1	64.3	64.3	64.2
	28	63.0	63.3	63.7	63.8	63.9	63.9	64.1	64.0	63.9	63.7	63.6	63.4	63.3
	29	63.1	63.6	63.7	64.2	64.5	64.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8
	30	64.9	65.2	65.7	66.1	66.5	66.6	66.8	66.8	66.7	66.6	66.5	66.4	66.0
Hourly Means	63.70	63.97	64.27	64.52	64.72	64.85	64.90	64.84	64.76	64.66	64.55	64.42	64.10	

^a Good Friday.

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah° = .00005.

Mean Göttingen Time.	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .	22 ^h .	23 ^h .	Means.	
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	77.0	77.5	77.1	77.1	77.1	77.1	78.3	81.4	81.4	76.3	71.4	75.83
	2	76.0	76.0	76.1	75.5	76.8	76.8	78.2	84.6	81.1	77.5	71.3	75.14
	3	75.8	74.8	74.8	75.2	75.2	76.3	77.6	79.1	79.1	71.0	64.8	74.57
	4	—	—	—	—	—	—	—	—	—	—	—	74.06
	5	76.6	74.7	73.9	75.2	75.9	77.9	77.9	82.2	80.3	72.7	67.9	
	6	76.1	77.4	76.3	77.0	77.0	77.9	82.0	82.0	78.7	78.1	73.7	79.51
	7	77.5	77.6	78.9	78.9	78.3	78.9	83.1	83.1	83.1	78.6	73.7	79.40
	8	76.2	76.2	76.4	76.2	76.7	78.5	79.2	80.9	80.9	76.1	72.3	77.20
	9	—	—	—	—	—	—	—	—	—	—	—	72.96
	10	77.2	73.4	73.4	73.8	72.5	70.4	70.4	76.2	77.9	73.1	65.6	
	11	—	—	—	—	—	—	—	—	—	—	—	75.98
	12	74.7	77.5	77.5	80.0	79.4	79.4	81.7	83.1	83.1	77.2	70.8	
	13	79.4	77.4	74.0	75.8	72.7	79.2	79.2	82.0	79.7	73.0	68.2	77.86
	14	75.5	76.0	76.5	75.9	74.8	75.8	77.6	78.3	78.1	75.6	70.7	76.77
	15	71.6	76.2	77.2	75.0	75.0	74.0	75.2	80.4	81.9	77.6	74.7	75.68
	16	74.5	75.9	78.0	75.9	79.8	79.0	79.0	80.7	80.7	78.4	74.3	78.10
	17	76.2	76.2	77.7	77.7	77.0	78.2	79.5	81.5	81.2	79.3	74.3	77.75
	18	—	—	—	—	—	—	—	—	—	—	—	78.19
	19	77.1	77.4	77.4	78.6	78.6	78.3	80.9	83.1	84.1	81.3	74.2	
	20	78.5	76.9	76.3	76.3	76.8	77.2	78.8	81.4	81.4	77.0	71.8	77.04
	21	77.8	77.5	77.5	77.5	78.4	78.4	79.4	82.4	83.8	79.2	73.5	77.41
	22	77.4	76.5	77.1	76.7	76.1	75.6	76.6	80.1	78.6	75.7	72.3	76.68
	23	77.7	80.5	80.6	81.3	79.4	80.1	82.0	82.3	80.3	74.5	74.1	77.76
	24	81.5	81.5	81.5	81.5	80.7	81.2	83.5	86.4	86.4	84.1	81.0	80.63
	25	—	—	—	—	—	—	—	—	—	—	—	81.92
	26	83.5	81.5	80.6	83.0	83.0	83.0	81.5	83.9	85.9	83.2	76.2	
	27	82.9	83.2	83.2	81.9	81.9	81.9	84.3	88.3	88.6	84.7	78.8	81.97
	28	83.5	83.0	82.2	83.6	83.5	83.5	84.4	85.7	85.3	80.5	75.5	81.85
	29	81.7	81.7	82.1	80.3	80.3	81.1	81.1	85.0	85.0	81.2	74.8	80.29
30	78.5	79.6	79.6	79.6	79.2	78.9	80.6	83.9	85.5	83.2	78.1	78.90	
Hourly Means	77.78	77.84	77.84	77.98	77.84	78.34	79.68	82.32	82.08	77.96	72.96	77.74	

TEMPERATURE OF THE MAGNET.

APRIL.	1	64.9	64.8	64.2	64.1	63.9	64.1	63.8	63.9	63.9	64.0	64.3	65.21
	2	65.1	64.9	65.0	64.7	64.5	64.3	64.3	64.2	64.5	64.8	65.0	64.96
	3	66.3	66.0	65.8	65.9	65.8	65.6	65.4	65.4	65.4	65.2	65.6	66.18
	4	—	—	—	—	—	—	—	—	—	—	—	66.20
	5	66.2	66.2	66.0	65.9	65.7	65.3	65.1	65.0	65.0	65.1	65.3	
	6	64.7	64.5	64.1	64.0	63.8	63.8	63.6	63.4	63.2	63.5	63.6	64.73
	7	62.7	62.5	62.1	61.9	62.0	62.0	61.8	61.8	62.0	62.1	62.5	62.93
	8	65.1	64.8	64.6	64.6	64.4	64.4	64.1	64.1	64.2	64.5	65.0	64.53
	9	—	—	—	—	—	—	—	—	—	—	—	67.80
	10	68.4	68.4	68.0	68.0	68.0	68.0	67.6	67.4	67.5	67.3	67.4	
	11	—	—	—	—	—	—	—	—	—	—	—	64.08
	12	61.5	61.1	60.9	60.8	60.7	60.2	60.0	60.0	60.0	60.4	60.7	
	13	61.0	60.9	60.8	60.8	60.8	60.7	60.7	60.7	60.9	61.1	61.6	61.22
	14	63.7	63.6	63.4	63.1	62.8	62.9	62.8	62.8	62.8	63.1	63.3	63.28
	15	64.8	64.6	64.3	64.1	63.9	63.7	63.5	63.2	63.2	63.3	63.7	64.52
	16	62.8	62.7	62.7	62.6	62.6	62.3	62.3	62.2	62.2	62.4	62.6	63.32
	17	63.8	63.7	63.7	63.7	63.7	63.6	63.5	63.4	63.5	63.5	63.5	63.62
	18	—	—	—	—	—	—	—	—	—	—	—	63.30
	19	63.3	63.2	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.9	
	20	63.4	63.2	63.0	62.8	62.7	62.5	62.3	62.3	62.2	62.5	62.6	63.26
	21	62.8	62.7	62.4	62.1	62.0	61.7	61.5	61.3	61.3	61.3	61.4	62.65
	22	63.7	63.8	63.8	63.9	63.9	63.8	63.8	63.8	63.8	63.7	63.7	63.36
	23	63.1	62.8	62.8	62.6	62.5	62.2	62.0	62.0	61.8	61.8	61.9	63.30
	24	61.5	61.4	61.0	60.8	60.4	60.5	60.4	60.2	60.3	60.2	61.7	61.74
	25	—	—	—	—	—	—	—	—	—	—	—	62.56
	26	62.7	62.6	62.5	62.5	62.5	62.5	62.5	62.5	62.8	62.9	63.5	
	27	64.1	63.9	63.9	63.8	63.5	63.2	63.1	63.0	63.0	63.0	62.9	63.81
	28	63.2	63.0	62.9	62.8	62.7	62.7	62.5	62.5	62.5	62.7	62.8	63.25
	29	64.8	64.8	64.8	64.7	64.5	64.0	64.0	64.0	64.0	64.2	64.4	64.40
	30	65.7	64.8	64.3	64.1	64.1	63.9	63.7	63.5	63.4	63.7	63.7	65.24
Hourly Means	63.97	63.80	63.59	63.48	63.37	63.23	63.08	63.02	63.05	63.16	63.42	63.98	

VERTICAL FORCE.
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00005.

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 .	12 ^h .	
MAY.	1	74.9	74.6	76.5	77.8	79.3	79.0	79.4	76.3	78.8	78.8	79.0	79.5	
	2	74.3	74.3	75.7	77.1	79.2	80.4	81.0	79.7	80.8	80.8	81.1	81.1	
	3	—	—	—	—	—	—	—	—	—	—	—	79.6	
	4	71.8	73.3	72.8	76.0	83.9	86.3	79.7	76.6	83.5	82.6	79.7	79.4	72.5
	5	72.0	74.2	76.3	76.3	76.3	76.8	78.9	76.4	77.1	77.1	78.4	77.2	75.4
	6	70.7	70.7	72.8	73.7	76.0	76.0	75.9	75.4	74.4	74.2	74.2	74.3	74.7
	7	68.3	70.5	70.5	73.0	74.8	76.6	80.1	79.0	79.0	78.1	75.5	75.5	74.8
	8	72.4	73.4	74.1	74.6	79.4	78.6	79.9	81.2	79.8	81.3	79.7	78.0	77.1
	9	68.7	73.1	74.6	79.1	84.0	86.0	82.8	81.3	84.2	89.4	86.6	83.2	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	85.1
	11	78.6	78.6	80.2	81.6	82.4	82.4	82.4	83.2	82.3	83.6	83.6	83.6	80.5
	12	85.6	84.1	82.8	83.7	88.3	84.9	87.8	79.5	90.1	85.3	84.6	87.7	80.0
	13	77.4	78.8	81.8	81.8	80.9	83.6	84.6	79.4	84.3	81.7	81.2	81.7	79.9
	14	78.4	81.4	82.3	82.6	85.0	82.9	81.0	81.0	80.2	79.7	80.2	81.0	81.1
	15	78.7	77.3	77.3	79.6	80.8	80.8	81.1	80.8	80.8	80.2	78.8	78.8	80.3
	16	74.1	76.2	77.1	77.5	79.3	80.1	80.1	80.1	80.1	81.5	80.6	80.6	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	79.7
	18	73.2	73.7	73.7	76.0	80.4	82.2	82.2	81.3	80.2	79.6	79.6	78.3	77.8
	19	76.6	75.6	74.2	77.9	79.9	82.9	82.9	82.9	84.1	81.3	81.7	81.7	80.3
	20	82.2	78.9	78.9	81.3	82.9	84.7	83.0	81.9	82.9	82.9	82.2	82.9	81.6
	21	81.0	81.6	79.0	83.5	85.4	83.5	83.3	85.5	83.9	83.9	84.2	83.9	83.9
	22	82.1	82.5	86.2	84.9	84.9	84.3	85.8	87.5	81.4	80.3	80.3	84.4	85.4
	23	82.9	83.3	84.6	86.6	87.7	91.1	86.4	86.3	86.3	84.6	84.2	83.9	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	87.5
	25	86.2	86.4	88.1	88.8	89.4	85.0	85.0	88.0	84.4	87.6	86.9	86.4	84.1
	26	84.4	84.4	84.4	84.4	85.4	86.3	86.3	86.7	85.5	85.1	87.0	87.0	86.5
	27	83.3	84.1	82.0	81.2	81.2	81.2	80.5	80.5	84.8	85.2	85.2	85.2	85.2
	28	84.0	83.2	82.6	83.6	85.7	85.7	86.7	85.7	85.7	86.0	85.7	85.7	85.7
	29	82.7	83.6	85.1	84.4	85.5	86.1	85.9	85.6	86.3	86.3	85.5	87.4	88.9
	30	85.5	83.1	85.4	88.5	87.9	87.6	89.5	90.1	87.5	87.4	87.9	87.9	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	87.6
Hourly Means	78.08	78.50	79.19	80.60	82.53	82.88	82.78	82.00	82.63	82.48	82.06	82.17	81.33	

TEMPERATURE OF THE MAGNET.

MAY.	1	64.1	64.6	65.0	65.3	65.5	65.8	66.0	65.9	65.5	65.4	65.2	65.0	64.9
	2	63.7	63.8	64.0	64.1	64.3	64.2	64.3	64.3	64.3	64.2	64.3	64.0	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	64.6
	4	63.8	64.4	64.9	65.4	65.6	66.1	66.5	66.7	66.7	66.7	66.6	66.6	66.7
	5	65.6	65.7	66.0	66.2	66.6	66.6	66.8	66.8	66.9	66.9	66.6	66.6	66.3
	6	65.9	66.1	66.1	66.3	66.6	66.7	66.8	66.7	66.6	66.5	66.3	66.3	66.0
	7	65.1	65.1	65.3	65.6	65.6	65.6	65.6	65.5	65.5	65.4	65.4	65.3	65.2
	8	64.1	64.1	64.1	64.1	63.9	63.6	63.4	63.1	62.8	62.7	62.6	62.3	61.9
	9	60.4	60.5	60.7	60.9	61.0	61.0	61.0	60.8	60.7	60.5	60.0	59.8	—
	10	—	—	—	—	—	—	—	—	—	—	—	—	57.5
	11	56.3	56.7	57.1	57.5	57.8	57.9	58.2	58.2	58.1	58.1	58.0	58.0	57.8
	12	58.6	58.9	59.0	59.2	59.4	59.7	59.7	59.8	59.9	60.4	60.3	60.2	60.1
	13	61.0	61.1	61.0	61.0	61.0	61.1	61.2	61.2	61.3	61.2	61.1	61.0	60.9
	14	60.4	60.6	60.8	60.8	60.9	60.9	60.8	60.8	60.8	60.8	60.8	60.8	60.7
	15	60.3	60.6	60.8	60.8	61.0	61.1	61.3	61.2	61.1	60.9	60.9	60.8	60.7
	16	60.6	60.8	61.0	61.1	61.3	61.5	61.6	61.6	61.5	61.3	61.1	61.1	—
	17	—	—	—	—	—	—	—	—	—	—	—	—	61.0
	18	61.3	61.3	61.3	61.3	61.4	61.5	61.4	61.4	61.4	61.4	61.4	61.4	61.3
	19	61.1	61.1	61.2	61.2	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.0
	20	61.3	61.3	61.1	61.1	61.1	61.1	61.0	60.9	60.9	60.8	60.9	61.0	60.8
	21	60.2	60.1	60.1	60.0	59.8	59.8	59.6	59.5	59.2	58.9	58.8	58.5	58.3
	22	57.6	57.6	57.8	58.0	58.0	58.1	58.1	58.0	57.9	57.8	57.6	57.6	57.4
	23	56.5	56.8	56.9	57.1	57.3	57.5	57.6	57.7	57.8	57.8	57.9	57.9	—
	24	—	—	—	—	—	—	—	—	—	—	—	—	56.8
	25	56.1	56.4	56.5	57.0	57.2	57.2	57.3	57.2	57.2	57.0	57.0	56.9	56.9
	26	56.5	56.7	56.7	56.8	56.8	56.9	57.0	57.0	57.0	57.0	57.1	57.1	57.0
	27	57.0	57.0	57.5	57.6	57.7	57.8	57.9	57.9	57.8	57.8	57.7	57.6	57.5
	28	56.7	57.0	57.2	57.3	57.3	57.3	57.3	57.2	57.2	57.2	57.1	57.1	56.9
	29	55.5	55.5	55.9	55.9	55.8	55.8	55.8	55.8	55.7	55.6	55.3	55.7	55.8
	30	55.2	55.7	55.8	56.0	56.1	56.4	56.5	56.5	56.5	56.5	56.4	56.0	—
	31	—	—	—	—	—	—	—	—	—	—	—	—	55.1
Hourly Means	60.19	60.37	60.53	60.68	60.77	60.86	60.92	60.88	60.82	60.77	60.67	60.60	60.35	

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.

Mean Göttingen Time.	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. 79·7	Sc. Div. 79·9	Sc. Div. 79·5	Sc. Div. 79·5	Sc. Div. 79·6	Sc. Div. 79·6	Sc. Div. 80·8	Sc. Div. 84·9	Sc. Div. 86·1	Sc. Div. 83·9	Sc. Div. 78·2	Sc. Div. 79·38
MAY. 1	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	79·6	78·7	77·4	77·4	75·5	72·4	72·4	76·5	77·2	77·2	72·8	77·59
4	70·1	72·4	68·9	67·9	73·2	72·5	76·2	78·0	78·0	75·0	72·0	75·93
5	75·4	72·9	72·6	72·6	73·3	71·5	75·6	76·6	78·4	75·4	70·9	75·32
6	71·2	73·4	74·3	74·3	73·2	72·8	75·3	78·8	79·3	77·1	71·7	74·35
7	75·8	74·7	73·2	73·2	71·1	73·2	74·0	77·4	77·9	75·5	74·0	74·82
8	76·0	76·0	76·3	74·8	74·8	76·0	78·1	81·8	80·8	78·1	73·0	77·30
9	—	—	—	—	—	—	—	—	—	—	—	—
10	83·2	83·2	82·4	82·4	82·6	81·7	83·8	86·3	86·8	83·1	78·6	82·18
11	82·7	81·3	82·9	78·0	76·8	76·0	78·6	85·1	92·6	90·6	87·6	82·30
12	79·1	79·5	79·5	77·7	77·7	77·7	78·3	80·1	80·1	80·1	78·7	82·20
13	77·8	78·3	80·6	79·3	79·3	79·8	82·2	82·2	81·0	81·4	79·1	80·75
14	79·4	78·4	78·4	79·1	79·8	78·7	81·7	84·6	83·6	82·5	79·7	80·95
15	80·3	80·3	80·8	80·8	79·9	78·6	81·4	83·2	83·2	78·8	75·6	79·93
16	—	—	—	—	—	—	—	—	—	—	—	—
17	79·7	78·9	78·9	78·9	78·9	78·9	78·9	81·2	81·2	77·3	73·2	78·88
18	79·8	80·1	79·9	79·9	81·5	81·5	80·2	84·4	83·5	82·8	78·5	79·60
19	80·3	80·0	81·1	81·4	80·2	76·6	76·0	85·8	85·8	85·5	83·7	80·77
20	81·1	81·1	81·4	81·4	80·3	77·6	76·4	81·1	82·3	82·4	77·6	81·21
21	83·9	83·9	85·1	83·3	82·5	81·3	81·3	84·0	87·7	89·8	86·1	83·81
22	85·0	85·0	84·5	83·1	83·1	81·3	82·0	87·0	88·0	86·6	84·3	84·16
23	—	—	—	—	—	—	—	—	—	—	—	—
24	84·3	85·4	86·7	84·8	83·8	83·1	86·6	87·9	87·6	86·3	83·7	85·65
25	84·8	85·7	85·7	85·7	83·9	83·3	83·3	85·8	87·7	88·9	87·5	86·19
26	86·7	86·5	84·4	84·4	85·1	84·1	84·1	85·5	86·6	86·6	84·8	85·51
27	85·2	85·2	86·0	85·2	85·1	84·1	83·4	87·0	87·8	87·1	84·6	84·18
28	85·7	85·7	85·7	85·7	85·7	84·5	84·5	86·7	88·2	86·8	84·7	85·41
29	85·8	86·3	85·9	83·3	83·4	81·8	83·5	87·0	88·9	89·2	87·0	85·64
30	—	—	—	—	—	—	—	—	—	—	—	—
31	88·0	87·6	87·1	86·6	85·5	84·3	84·3	87·5	87·4	87·4	87·4	87·04
Hourly Means	80·79	80·78	80·74	80·03	79·84	78·96	80·11	83·32	84·14	82·90	79·81	81·19

TEMPERATURE OF THE MAGNET.

	64·8	64·4	64·0	63·9	63·8	63·6	63·5	63·3	63·3	63·4	63·6	64·58
MAY. 1	—	—	—	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—
3	64·4	64·1	64·0	63·7	63·4	63·1	63·0	63·0	63·0	63·1	63·5	63·85
4	66·6	66·5	66·5	66·5	66·5	66·5	65·8	65·7	65·5	65·4	65·5	65·99
5	66·1	66·0	66·0	65·9	65·8	65·8	65·7	65·5	65·5	65·6	65·7	66·13
6	65·8	65·7	65·5	65·4	65·1	65·3	65·2	65·1	65·0	64·9	65·0	65·87
7	65·1	64·9	64·8	64·7	64·6	64·6	64·5	64·5	64·2	64·0	64·0	65·00
8	61·8	61·7	61·6	61·3	61·0	60·6	60·5	60·3	60·3	60·3	60·3	62·18
9	—	—	—	—	—	—	—	—	—	—	—	—
10	57·5	57·2	57·0	56·8	56·7	56·2	56·1	56·0	56·0	55·9	56·0	58·59
11	57·8	57·8	57·8	57·9	57·9	57·8	57·8	57·9	58·0	58·3	58·4	57·80
12	60·1	60·3	60·3	60·2	60·2	60·6	60·6	60·7	60·8	60·8	60·9	60·03
13	60·8	60·8	60·6	60·3	60·2	60·2	60·1	60·1	60·0	60·2	60·3	60·74
14	60·6	60·5	60·5	60·2	60·3	60·1	60·1	60·1	60·1	60·1	60·2	60·53
15	60·6	60·4	60·4	60·4	60·4	60·1	60·0	59·9	59·8	59·9	60·1	60·56
16	—	—	—	—	—	—	—	—	—	—	—	—
17	60·9	60·9	60·9	60·9	60·9	60·8	61·0	61·0	61·0	61·2	61·2	61·09
18	61·4	61·3	61·1	61·1	61·1	61·2	61·1	61·1	61·1	61·0	61·0	61·26
19	61·1	61·1	61·0	61·0	61·0	61·2	61·2	61·2	61·2	61·3	61·4	61·13
20	68·8	60·8	60·8	60·8	60·8	60·8	60·7	60·6	60·6	60·7	60·5	60·88
21	58·1	58·0	57·8	57·8	57·7	57·3	57·2	57·0	56·9	57·1	57·0	58·53
22	57·0	57·0	56·8	56·7	56·6	56·3	56·2	56·1	56·1	56·2	56·4	57·20
23	—	—	—	—	—	—	—	—	—	—	—	—
24	56·8	56·5	56·2	56·1	56·1	56·1	56·1	56·0	56·0	56·0	56·0	56·81
25	56·8	56·7	56·6	56·4	56·2	56·3	56·0	56·0	56·0	56·1	56·4	56·64
26	56·9	56·8	56·8	56·6	56·7	56·8	56·8	56·8	56·8	56·8	56·8	56·84
27	57·3	57·1	57·0	56·9	56·8	56·7	56·6	56·5	56·5	56·4	56·6	57·22
28	56·8	56·8	56·7	56·5	56·2	55·8	55·8	55·6	55·5	55·5	55·5	56·65
29	55·8	55·9	55·7	55·6	55·5	55·3	55·2	55·3	55·0	55·0	55·1	55·56
30	—	—	—	—	—	—	—	—	—	—	—	—
31	55·4	55·5	55·3	55·2	55·0	55·0	55·0	54·9	54·9	55·0	55·1	55·63
Hourly Means	60·27	60·18	60·07	59·95	59·87	59·77	59·68	59·62	59·58	59·62	59·71	60·28

VERTICAL FORCE.														
One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.														
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 .	12 ^h .	
JUNE.	1	85.6	86.3	86.3	85.8	89.1	87.2	88.5	86.6	86.6	86.6	86.9	86.1	86.1
	2	88.1	87.2	86.6	86.6	86.6	86.6	87.0	87.8	91.1	85.3	85.3	85.3	82.9
	3	83.9	83.9	84.9	85.7	86.6	86.6	86.0	86.9	84.2	85.3	85.3	82.0	83.7
	4	85.3	85.3	87.0	87.0	87.4	87.4	87.4	86.8	84.3	84.3	83.6	84.0	84.0
	5	88.9	89.4	86.8	85.5	85.4	85.4	86.7	88.5	86.6	86.6	86.6	83.2	84.1
	6	82.4	82.4	82.0	84.8	85.5	86.1	87.2	87.2	87.7	87.7	85.5	86.0	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	83.5
	8	82.1	82.1	82.0	83.1	83.1	83.9	84.5	84.5	84.5	84.0	84.0	84.0	84.0
	9	84.6	83.0	83.0	84.4	87.0	88.7	88.7	85.4	85.7	86.8	85.7	85.7	84.5
	10	83.9	81.7	82.6	85.6	88.4	86.8	86.4	85.9	84.9	85.2	84.8	84.8	84.2
	11	85.7	84.8	83.5	84.0	86.0	86.6	86.5	86.5	86.0	86.0	86.0	85.9	85.6
	12	81.0	82.2	80.7	80.7	84.2	85.4	83.1	83.8	84.2	84.2	83.7	83.5	83.5
	13	74.7	79.0	88.6	87.4	88.1	86.0	86.0	86.0	86.0	85.0	83.9	83.9	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	85.6
	15	83.1	83.8	83.8	86.6	86.6	87.0	87.0	88.9	88.9	85.9	83.9	83.9	85.3
	16	84.0	85.2	85.2	87.7	87.1	87.7	87.7	86.0	87.2	85.7	84.1	86.4	81.8
	17	81.4	82.9	81.7	84.1	86.9	86.1	86.1	87.1	84.4	84.4	85.0	85.9	84.9
	18	84.3	84.3	84.3	86.0	87.0	87.0	86.1	86.1	86.1	85.2	85.2	85.0	86.8
	19	89.0	85.8	85.3	86.5	87.8	87.8	87.1	87.1	87.1	87.1	87.1	87.1	86.7
	20	87.3	87.3	86.3	85.8	86.3	86.3	86.3	86.2	86.5	86.5	87.6	86.8	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	86.2
	22	85.6	84.5	83.1	86.1	87.4	86.6	85.3	83.9	84.7	84.7	86.7	85.8	85.0
	23	84.1	84.7	85.3	86.2	88.0	87.0	83.9	85.6	86.1	86.1	87.6	87.6	82.9
	24	85.5	87.0	85.7	85.7	86.6	86.6	86.6	85.2	84.4	85.9	86.4	84.6	84.2
	25	81.3	82.2	83.7	85.2	85.9	84.7	84.5	83.4	83.5	85.4	85.2	85.5	85.9
	26	81.8	81.8	83.4	84.7	85.4	86.3	86.3	86.3	85.6	85.0	87.4	86.7	85.7
	27	85.5	85.5	85.5	85.7	86.7	87.1	87.9	88.3	88.9	89.6	89.1	82.7	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	84.9
	29	81.5	82.7	84.6	85.8	85.8	85.8	85.7	87.0	87.9	87.2	87.8	86.2	84.8
	30	84.6	83.6	82.8	85.3	87.0	88.3	87.6	88.4	86.4	85.9	85.9	86.4	86.2
	Hourly Means	84.05	84.18	84.41	85.46	86.61	86.58	86.39	86.36	86.13	85.83	85.78	85.19	84.73

TEMPERATURE OF THE MAGNET.														
JUNE.	1	55.4	55.8	56.2	56.5	56.8	57.1	57.0	57.1	57.1	57.0	57.2	57.2	57.1
	2	57.7	58.1	58.4	58.7	58.9	59.0	59.1	59.0	59.0	58.8	58.6	58.3	58.1
	3	57.4	57.7	57.8	58.0	58.2	58.6	58.5	58.8	59.0	59.0	58.9	58.8	58.9
	4	58.5	58.4	58.5	58.5	58.5	58.5	58.6	58.5	58.1	57.8	57.6	57.5	57.2
	5	55.7	55.9	56.0	56.3	56.5	56.6	56.8	56.9	56.8	56.7	56.5	56.5	56.5
	6	56.8	56.9	57.4	57.5	57.8	58.0	58.1	58.2	58.3	58.3	58.6	58.6	—
	7	—	—	—	—	—	—	—	—	—	—	—	—	58.0
	8	58.4	58.5	58.8	58.9	58.9	59.1	59.2	59.2	59.1	59.1	58.8	58.6	58.6
	9	58.2	58.3	58.7	58.8	58.9	59.0	59.0	59.0	59.0	59.0	59.0	58.9	58.8
	10	58.7	59.1	59.1	59.2	59.3	59.6	59.7	59.7	59.7	59.7	59.4	59.3	59.0
	11	56.9	57.2	57.6	57.8	57.8	58.1	58.3	58.4	58.4	58.5	58.6	58.6	58.6
	12	59.5	59.7	59.7	59.9	59.9	59.9	59.9	59.8	59.8	59.8	59.8	59.8	59.8
	13	59.0	59.4	59.7	59.9	60.1	60.1	59.8	59.8	59.5	59.4	59.3	59.2	—
	14	—	—	—	—	—	—	—	—	—	—	—	—	57.9
	15	58.5	58.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.7
	16	58.1	58.1	58.2	58.2	58.4	58.5	58.4	58.3	58.3	58.3	58.4	58.4	58.3
	17	58.5	58.7	58.8	59.1	59.2	59.3	59.2	59.0	58.9	58.7	58.6	58.4	58.3
	18	57.5	57.7	57.8	58.0	58.4	58.6	58.7	58.7	58.5	58.3	58.3	58.0	57.8
	19	56.2	56.7	57.1	57.4	57.6	57.8	57.8	57.8	57.8	57.8	57.6	57.2	57.1
	20	56.1	56.4	56.8	57.1	57.5	57.6	57.5	57.4	57.4	57.3	57.0	56.8	—
	21	—	—	—	—	—	—	—	—	—	—	—	—	57.7
	22	58.5	58.8	59.0	59.3	59.5	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.7
	23	59.1	59.2	59.5	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.7	59.7	59.7
	24	58.8	59.0	59.0	59.1	59.3	59.4	59.3	59.2	59.2	59.2	59.4	59.7	59.8
	25	59.3	59.3	59.6	59.7	60.1	60.1	60.2	60.3	60.3	60.3	60.3	59.9	59.8
	26	58.7	58.8	58.9	59.1	59.1	59.1	58.8	58.6	58.5	58.3	58.0	57.9	57.9
	27	57.6	57.8	57.8	58.1	58.1	58.1	58.1	58.0	57.9	57.8	57.5	57.5	—
	28	—	—	—	—	—	—	—	—	—	—	—	—	57.9
	29	58.8	58.7	58.6	58.6	58.6	58.6	58.5	58.5	58.5	58.4	58.4	58.4	58.5
	30	57.6	57.7	57.7	57.8	57.8	57.9	57.8	57.8	57.6	57.5	57.5	57.2	57.0
	Hourly Means	57.90	58.10	58.28	58.46	58.60	58.72	58.72	58.71	58.66	58.59	58.52	58.42	58.33

VERTICAL FORCE.

One Scale Division = .00014 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.

Mean Göttingen Time.	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.
JUNE.	1	85.5	84.9	—	—	82.7	83.9	87.9	90.8	91.3	91.3	86.95
	2	82.9	85.2	82.6	82.2	83.5	83.8	86.5	87.4	90.3	87.9	86.00
	3	83.7	84.3	84.1	83.9	82.7	82.7	83.5	83.9	85.0	85.0	84.44
	4	84.0	84.6	84.1	84.6	84.6	84.0	84.0	85.3	86.4	86.4	85.29
	5	84.9	84.4	84.4	84.4	83.2	84.7	85.4	86.9	88.2	85.9	83.3
	6	—	—	—	—	—	—	—	—	—	—	—
	7	81.4	82.0	82.6	83.2	81.5	80.1	80.1	82.7	83.4	83.4	81.7
	8	85.5	85.5	84.3	82.2	82.2	81.0	80.5	86.2	87.8	87.8	85.6
	9	81.8	84.3	82.8	82.1	82.1	82.9	81.7	82.4	85.7	86.9	85.6
	10	84.9	84.7	83.8	84.1	84.9	84.2	84.2	86.4	87.3	87.3	85.7
	11	86.7	86.8	85.6	85.6	85.0	83.3	82.9	84.4	84.2	84.2	81.0
	12	83.3	83.3	82.6	82.6	81.7	79.8	77.2	80.5	82.9	81.7	79.3
	13	—	—	—	—	—	—	—	—	—	—	—
	14	85.6	85.6	85.6	79.7	84.5	84.0	82.2	83.2	83.5	82.6	82.6
	15	79.9	82.3	84.0	84.2	84.2	83.3	81.5	84.0	82.4	83.7	81.4
	16	77.0	85.4	87.2	85.3	85.3	84.1	81.4	82.6	83.6	84.3	83.7
	17	85.0	85.9	86.5	85.5	85.5	84.5	83.3	84.8	84.9	85.0	84.9
	18	86.6	87.7	84.7	86.8	87.0	86.3	81.0	86.2	87.2	88.8	88.0
	19	86.7	86.7	86.4	86.7	87.0	86.3	85.8	88.0	90.0	89.3	88.3
	20	—	—	—	—	—	—	—	—	—	—	—
	21	86.2	84.3	85.0	83.6	84.2	83.3	83.3	85.5	87.7	87.7	87.2
	22	82.8	84.1	84.1	82.8	84.6	83.8	83.8	84.9	85.7	85.4	84.5
	23	83.6	84.5	83.7	83.9	83.9	83.0	82.3	84.5	87.6	87.3	87.3
	24	83.5	83.5	82.9	82.8	83.0	82.2	81.8	82.8	83.3	83.9	81.1
	25	81.8	83.6	83.4	84.8	85.1	84.0	83.5	84.5	85.4	85.7	83.9
	26	85.2	85.4	84.5	84.5	84.5	84.5	83.4	85.4	86.4	85.0	84.8
	27	—	—	—	—	—	—	—	—	—	—	—
	28	86.0	83.9	83.9	85.7	86.0	86.0	85.4	86.6	85.5	85.5	81.5
	29	84.8	85.5	80.0	85.0	84.8	83.6	84.1	86.0	86.6	86.0	85.4
	30	86.2	86.2	86.6	85.4	84.3	84.3	83.1	84.6	85.6	86.4	85.5
Hourly Means	84.06	84.79	84.22	84.06	84.21	83.55	82.88	84.89	86.01	85.94	84.58	85.05

TEMPERATURE OF THE MAGNET.

	°	°	°	°	°	°	°	°	°	°	°	°
JUNE.	1	57.1	57.0	—	—	56.9	56.9	56.9	57.0	57.3	57.5	56.86
	2	57.9	57.7	57.6	57.5	57.4	57.3	57.2	57.0	57.1	57.1	58.02
	3	59.0	59.0	59.3	59.2	59.2	58.9	58.9	58.8	58.8	58.6	58.66
	4	57.0	56.7	56.3	56.0	56.0	55.8	55.6	55.3	55.4	55.5	55.6
	5	56.4	56.3	56.0	56.0	55.9	56.1	56.1	56.1	56.2	56.3	56.4
	6	—	—	—	—	—	—	—	—	—	—	—
	7	58.1	58.1	58.2	58.1	58.0	57.9	57.8	57.8	57.8	58.1	58.2
	8	58.6	58.5	58.6	58.6	58.5	58.3	58.3	58.1	58.1	57.9	58.0
	9	58.8	58.7	58.7	58.7	58.6	58.5	58.3	58.5	58.5	58.6	58.7
	10	58.7	58.5	58.2	57.9	57.6	57.3	57.0	56.8	56.8	56.8	56.8
	11	58.7	58.8	58.8	58.8	58.8	59.0	59.0	59.1	59.3	59.3	59.4
	12	59.8	59.7	59.5	59.5	59.3	59.1	59.0	59.0	58.9	58.9	59.0
	13	—	—	—	—	—	—	—	—	—	—	—
	14	57.9	57.8	58.0	58.0	58.1	58.2	58.1	58.1	58.2	58.3	58.5
	15	58.6	58.6	58.6	58.5	58.4	58.0	58.0	58.0	58.0	58.1	58.1
	16	58.3	58.4	58.5	58.5	58.3	58.4	58.1	57.9	57.8	57.8	58.1
	17	58.1	58.0	57.8	57.6	57.6	57.4	57.3	57.1	56.9	57.1	57.2
	18	57.6	57.5	57.1	56.9	56.6	56.3	56.0	56.0	55.9	55.9	56.0
	19	57.0	56.8	56.7	56.5	56.3	56.0	55.9	55.8	55.7	55.8	56.0
	20	—	—	—	—	—	—	—	—	—	—	—
	21	57.7	57.6	57.7	57.8	57.7	57.6	57.6	57.7	57.8	58.0	58.2
	22	59.5	59.5	59.5	59.3	59.2	59.1	58.9	58.9	58.9	58.9	59.1
	23	59.6	59.5	59.1	59.1	59.0	58.9	58.8	58.7	58.5	58.7	58.8
	24	59.9	59.8	59.9	59.8	59.7	59.7	59.7	59.7	59.6	59.4	59.3
	25	59.6	59.5	59.4	59.4	59.3	59.0	58.8	58.8	58.7	58.6	58.7
	26	57.8	57.8	57.8	57.7	57.6	57.4	57.3	57.3	57.2	57.4	57.4
	27	—	—	—	—	—	—	—	—	—	—	—
	28	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.3	58.8
	29	58.4	58.3	57.8	58.0	57.6	57.5	57.4	57.3	57.3	57.5	57.5
	30	57.0	56.8	56.8	56.5	56.5	56.2	56.0	56.0	56.0	56.0	56.0
Hourly Means	58.27	58.19	58.16	58.08	57.97	57.80	57.69	57.65	57.63	57.70	57.80	58.20



CAPE OF GOOD HOPE, 1841 to 1846.

TERM OBSERVATIONS.

MAGNETICAL OBSERVATIONS.

April 21st and 22nd.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0' 751.											
M.	S.	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.
0	0	50.5	51.1	51.0	52.0	51.9	51.9	51.6	49.9	49.6	49.5	49.1	50.1
5	0	50.5	51.0	52.1	51.9	51.8	51.7	51.8	49.5	50.2	48.2	49.7	50.0
10	0	50.5	51.6	52.5	51.7	51.7	51.7	51.5	49.6	50.2	47.2	49.8	49.9
15	0	50.5	51.0	52.6	51.9	51.9	51.9	51.5	49.5	50.1	46.8	49.9	49.8
20	0	50.5	50.7	52.7	51.9	51.9	52.0	51.2	49.5	50.0	46.9	50.0	49.7
25	0	50.4	51.2	53.0	52.0	51.7	51.7	51.1	49.6	49.9	47.3	50.0	49.7
30	0	50.5	51.1	52.8	51.9	51.7	51.7	51.0	49.6	49.6	48.1	50.1	49.7
35	0	50.5	51.5	52.6	51.9	51.8	51.7	51.0	49.8	49.5	48.7	50.0	49.9
40	0	50.4	—	52.5	51.7	51.9	51.5	50.8	50.2	49.6	49.3	50.1	49.9
45	0	50.5	—	52.4	51.8	51.9	51.5	50.6	50.0	49.7	49.3	50.3	49.8
50	0	50.7	51.5	52.4	51.8	52.0	51.4	50.2	50.0	50.0	49.2	50.2	49.5
55	0	51.0	51.6	52.2	51.8	52.0	51.3	50.1	49.8	50.1	49.2	50.1	49.3

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00029.											
2	30	95.9	95.6	96.3	94.3	94.7	95.8	95.5	93.0	92.4	92.9	94.1	94.0
12	30	95.8	95.0	96.5	94.0	94.3	95.6	95.4	92.0	92.4	95.2	95.0	93.8
22	30	95.6	95.1	96.5	94.0	94.4	95.6	95.3	92.0	92.1	96.9	95.0	93.7
32	30	95.3	96.5	95.9	94.3	94.7	95.6	95.2	92.1	91.3	97.2	95.0	93.8
42	30	95.4	97.0	96.0	93.9	95.3	95.6	94.2	92.2	91.3	95.8	94.7	94.0
52	30	95.7	95.9	95.4	92.1	95.1	95.8	93.4	92.2	91.9	94.5	94.7	93.6

Thermometer	67.4	67.3	67.1	67.2	67.0	67.0	67.1	67.4	67.3	67.1	67.2	67.2

VERTICAL FORCE.

Declination, and increasing Horizontal Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
21	22	0	30.099	62.4	57.2	S.	0.3	1.0	Nim.
	23	0	30.084	63.6	58.0	S.	0.8	1.0	Cum.-strat.
22	0	0	30.068	64.0	57.9	S.	0.1	1.0	Cum.-strat. and nim.; light rain.
	1	0	30.049	63.6	58.4	S.	1.3	1.0	Cum.-strat.
	2	0	30.050	64.4	58.6	S.	1.3	1.0	Cum.-strat.; wind in gusts.
	3	0	30.064	62.4	58.2	S.	0.5	1.0	Cum.-strat.; wind in gusts.
	4	0	30.056	61.8	57.6	S.	1.3	0.8	Cum.-strat.
	5	0	30.058	60.8	57.6	S. by E.	0.5	0.9	Cum.-strat. and cir.-cum.
	6	0	30.050	60.4	57.8	S.	1.7	0.8	Cum.-strat.
	7	0	30.066	61.3	58.3	S.	1.7	0.4	Cum.
	8	0	30.010	60.3	58.7	S.	0.5	0.6	Cir.-strat.
	9	0	30.056	60.3	58.4	S.	0.5	0.6	Cum.-strat.

May 28th and 29th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		46.3	48.8	48.1	48.9	48.3	49.9	50.6	50.6	51.8	52.7	50.3	46.4
5	0		46.5	48.8	48.5	48.5	48.7	49.9	50.1	50.8	51.9	52.4	50.0	46.4
10	0		47.0	48.8	48.9	48.3	48.9	50.1	50.0	50.9	52.0	52.3	49.7	46.1
15	0		47.7	48.6	48.2	48.1	48.7	50.0	49.9	51.0	52.2	52.0	48.9	46.2
20	0		48.0	48.4	49.2	48.4	49.3	50.0	49.8	51.1	52.2	51.8	48.7	46.1
25	0		48.7	48.1	49.1	48.5	49.0	50.0	50.0	51.2	52.3	51.8	48.8	45.4
30	0		49.0	48.0	48.9	48.7	49.5	50.0	50.0	51.4	52.6	51.5	48.8	46.2
35	0		49.1	48.2	48.7	48.6	49.6	50.0	50.0	51.3	52.7	51.5	48.4	45.6
40	0		48.9	48.1	48.4	48.5	49.8	50.0	50.1	51.4	52.9	51.2	47.9	45.5
45	0		48.9	48.0	48.8	48.9	49.9	50.1	50.1	51.7	52.9	50.8	47.7	45.2
50	0		49.0	48.0	49.0	48.8	49.6	50.2	50.3	51.6	52.8	50.8	47.1	45.4
55	0		49.0	48.0	48.9	48.5	49.7	50.4	50.4	51.7	52.9	50.5	47.2	45.5

M. S.		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
2	30	77.1	75.6	76.9	77.1	76.1	76.8	77.5	77.6	79.0	80.3	82.9	84.1
12	30	77.0	75.9	77.1	77.7	75.9	78.0	77.5	77.6	79.2	81.0	83.5	84.2
22	30	76.9	76.0	77.0	77.6	76.3	76.9	77.6	78.2	79.4	81.9	83.5	84.6
32	30	76.4	76.4	76.8	77.3	76.3	76.9	77.6	78.2	79.7	82.0	84.1	84.3
42	30	76.1	76.3	76.7	77.3	76.8	76.8	77.5	78.5	79.9	82.6	84.1	84.2
52	30	75.9	76.5	76.7	77.0	76.5	77.1	77.6	78.8	80.0	82.3	84.4	84.8

Thermometer												
61.5	61.4	61.5	61.5	61.7	61.5	61.6	61.7	61.3	61.5	60.9	60.7	60.7

VERTICAL FORCE.												

Increasing Numbers denote decreasing Westerly

METEOROLOGICAL OBSERVATIONS.										
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.	
				Dry.	Wet.	Direction.	Force.			
D.	H.	M.	In.	°	°		lbs.			
28	10	0	30.144	52.6	51.2	N. W.	0.1	0.6	Cum. in detached masses.	
.	11	0	30.138	52.6	50.8	N. W.	0.1	0.5	Cum. in masses.	
	12	0	—	52.0	50.5	N. W.	0.1	—	Light cum. N. W. and strat. S. E. horizon; dew.	
	13	0	30.123	51.8	50.4	N. W.	0.1	—	Clear; dew.	
	14	0	30.114	51.8	50.4	N. W.	0.1	—	Clear; dew; bright zodiacal light E.	
	15	0	30.024	50.9	49.4	N. W.	0.1	—	Clear; dew; zodiacal light E.; one shooting star S.	
	16	0	30.111	50.2	48.8	N. W.	0.1	—	Clear; dew; two shooting stars W.	
	17	0	30.101	50.2	48.8	N. W.	0.1	—	Haze over the flats.	
	18	0	30.097	50.4	48.9	N. W.	0.1	—	Haze round horizon.	
	19	0	30.111	49.9	48.7	N. W.	0.1	0.1	Strat. round horizon.	
	20	0	30.116	51.7	50.4	N. W.	0.1	—	Dense cum. S. hor.; thick strat. over sea N.	
	21	0	30.115	55.9	53.4	N. W.	0.1	—	Clear.	

June 23rd and 24th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'·751.					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	—	53·1	54·2	52·7	54·0	51·5	52·9	54·0	53·7	56·0	54·9	53·9
5	0	—	53·5	54·4	52·5	54·0	51·9	52·6	53·6	53·7	56·0	55·2	53·6
10	0	—	53·5	54·1	52·4	53·9	52·1	52·4	53·8	53·7	56·0	55·8	53·0
15	0	—	53·5	54·0	53·0	54·5	52·5	52·4	53·5	54·2	55·7	56·1	53·0
20	0	—	53·4	53·9	53·4	53·2	52·9	52·6	53·7	54·3	55·6	56·2	53·3
25	0	53·7	53·1	53·8	53·9	53·1	53·0	53·0	53·7	54·5	55·7	55·8	53·3
30	0	53·8	53·3	53·7	54·7	53·0	52·9	53·3	53·7	55·0	55·5	55·3	53·1
35	0	53·9	53·1	53·7	54·0	52·7	53·0	53·5	53·8	55·2	55·4	54·8	52·8
40	0	53·4	52·9	53·5	54·0	52·1	53·3	53·7	53·8	55·2	55·2	54·3	52·3
45	0	53·0	53·1	53·5	54·0	51·9	53·3	53·8	53·8	55·2	55·2	54·0	51·5
50	0	53·1	53·5	53·1	54·0	51·4	53·1	54·0	53·7	55·6	54·4	53·4	51·9
55	0	53·1	54·0	53·0	54·1	51·4	53·0	54·2	53·8	55·6	54·9	54·2	51·8

M. S.		One Scale Division = '00018 parts of the H. F.					HORIZONTAL FORCE.						
		—	—	—	—	—	—	—	—	—	—	—	—
2	30	—	65·6	67·9	68·9	67·7	68·1	68·8	68·9	69·5	69·7	72·8	71·9
12	30	—	65·6	68·0	69·4	67·9	67·6	68·1	69·1	68·7	70·3	72·4	71·9
22	30	—	66·4	69·4	69·3	68·0	67·5	68·3	69·0	68·6	71·2	71·5	72·4
32	30	—	66·5	70·0	68·5	68·3	67·3	68·0	69·0	68·5	71·7	72·0	71·9
42	30	—	67·9	69·0	67·4	68·4	67·6	68·2	69·0	68·6	71·7	71·	72·2
52	30	65·5	67·7	68·9	67·9	68·4	68·0	68·7	69·2	69·5	72·5	71·9	72·2

THERMOMETER													
		°	°	°	°	°	°	°	°	°	°	°	
		55·5	55·7	56·1	56·1	56·2	56·5	56·5	56·5	56·5	55·9	55·5	55·2

VERTICAL FORCE.												

Increasing Numbers denote decreasing Westerly

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
23	10	0	30·371	56·2	49·5	S.	0·1	—	Clear.			
	11	0	30·359	56·5	52·8	S.	0·5	—	Bright starlight.			
	12	0	30·358	56·4	49·2	S.	0·8	—	Bright starlight; air very dry.			
	13	0	30·334	56·8	48·8	S.	1·5	—	Bright starlight; air dry.			
	14	0	30·328	55·2	47·4	S. E.	0·3	—	Clear starlight.			
	15	0	30·322	53·1	49·0	S. E.	Light Air.	—	Bright starlight.			
	16	0	30·308	53·6	48·4	S. E.	Light Air.	—	Clear starlight.			
	17	0	30·304	42·8	41·4	S.	0·1	—	Clear.			
	18	0	30·306	50·4	46·6	S.	0·3	—	Strat. N. E. horizon.			
	19	0	30·311	42·9	41·4	S.	0·3	—	Strat. N. E. horizon.			
	20	0	30·313	55·8	49·6	S. by W.	0·3	—	Strat. N. E. horizon.			
	21	0	30·319	56·6	50·1	S.	0·5	—	Clear.			

MAGNETICAL OBSERVATIONS. June 23rd and 24th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	51.8	50.8	51.8	52.8	54.3	54.0	53.0	52.5	52.1	52.3	52.3	52.1
5	0	51.5	50.8	52.5	53.2	54.5	54.1	53.0	52.5	52.1	52.1	52.3	52.2
10	0	52.0	50.8	52.2	52.7	54.5	54.1	53.0	52.3	52.1	52.0	52.1	52.2
15	0	51.1	51.7	52.3	53.3	54.8	54.0	52.9	52.1	52.1	52.2	52.3	52.3
20	0	51.5	51.3	52.5	53.8	54.8	54.0	53.0	52.4	52.2	52.2	52.3	52.4
25	0	52.0	51.1	52.1	53.8	54.4	53.9	53.1	52.5	52.3	52.2	52.4	52.4
30	0	51.3	50.6	52.1	53.8	54.1	53.6	53.0	52.0	52.0	52.2	52.4	52.4
35	0	52.4	50.6	52.6	54.2	54.2	53.6	52.8	52.1	52.1	52.3	52.4	52.3
40	0	51.9	51.2	52.7	54.1	54.0	53.5	52.6	51.8	52.2	52.1	52.2	52.3
45	0	51.6	51.6	53.0	54.1	54.0	53.5	52.4	52.1	52.1	52.1	52.3	52.4
50	0	51.4	52.3	52.6	54.1	54.1	53.2	52.4	52.1	52.1	52.2	52.3	52.5
55	0	51.5	52.7	52.7	54.2	54.1	53.0	52.5	52.1	52.3	52.1	52.2	52.6

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00027.											
2	30	71.1	69.5	69.6	69.1	69.3	69.7	69.0	68.0	67.5	67.0	66.4	66.4
12	30	71.5	68.5	69.9	69.0	69.3	69.9	68.9	67.6	67.0	66.6	66.4	66.3
22	30	71.8	69.2	69.5	69.1	69.9	70.0	68.5	67.6	66.9	66.7	66.7	66.4
32	30	71.9	69.5	69.5	68.9	69.5	69.8	68.1	67.3	67.4	66.5	66.4	66.4
42	30	71.4	70.0	69.5	68.9	69.4	69.7	68.6	67.4	67.2	66.5	66.0	66.5
52	30	70.7	69.7	69.4	69.2	69.7	70.0	68.4	67.7	67.0	66.9	66.4	66.8

Thermometer	55.0	55.0	55.5	55.6	55.7	55.9	56.0	56.5	57.1	57.5	57.3	57.5
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VERTICAL FORCE.												

Declination, and increasing Horizontal Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
23	22	0	30.312	56.9	50.8	S. by W.	0.5	—	Hazy E. and S. horizon.
	23	0	30.282	59.2	51.6	S.	0.8	—	Strat. round horizon; fog at base of Lion Mount.
24	0	0	30.264	60.2	51.4	S.	0.5	—	Hazy round horizon and base of Lion Mount.
	1	0	30.257	60.4	51.1	S.	0.8	—	Hazy round horizon.
	2	0	30.234	59.6	50.6	S.	1.7	0.1	Strat. in horizon.
	3	0	30.240	58.8	56.2	S.	1.7	0.1	Strat. in horizon.
	4	0	30.240	57.8	55.4	S.	1.7	0.1	Strat. in horizon.
	5	0	30.224	58.7	53.4	S.	1.7	0.3	Strat. round horizon.
	6	0	30.232	58.7	52.6	S.	1.7	—	Clear.
	7	0	30.214	59.1	52.6	S.	1.7	—	Clear.
	8	0	30.225	58.4	52.4	S.	1.7	—	Bright starlight.
	9	0	30.225	57.6	52.0	S.	1.3	—	Bright starlight.

July 21st and 22nd.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.					DECLINATION.						
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	52.5	52.8	52.8	52.8	51.8	52.9	56.3	55.0	52.0	54.5	52.8	50.5
5	0	52.8	53.2	52.9	53.5	51.9	53.5	57.3	55.0	52.3	54.5	53.1	50.4
10	0	52.2	52.9	48.0	51.8	52.9	53.7	57.0	54.6	52.2	53.7	53.5	50.3
15	0	53.0	52.9	52.1	51.6	52.3	55.2	56.8	54.5	52.5	53.9	53.1	50.8
20	0	52.6	52.8	52.8	52.4	52.8	55.8	57.0	53.8	52.3	53.6	52.3	50.3
25	0	52.9	53.0	52.9	52.0	54.0	56.0	57.0	53.4	53.4	54.1	52.3	50.7
30	0	53.3	51.5	52.8	51.3	54.5	56.0	57.3	53.3	53.3	54.0	52.6	50.5
35	0	53.3	51.8	53.0	52.8	53.8	56.0	56.4	52.1	53.6	53.3	51.6	50.8
40	0	53.1	52.3	52.3	52.8	53.5	56.3	56.0	51.5	52.7	54.2	52.4	50.3
45	0	53.6	52.3	52.5	52.8	53.5	56.6	56.5	51.3	54.5	53.8	51.1	50.7
50	0	52.7	52.9	53.8	53.1	53.0	57.0	55.3	51.9	54.5	53.5	50.6	51.2
55	0	53.3	52.5	52.3	53.4	53.4	57.4	54.7	51.9	54.8	53.8	50.3	51.4

M. S.		One Scale Division = .00018 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 .	21 ^h .
2	30	66.7	66.5	69.6	68.9	69.1	70.4	69.5	73.6	70.9	70.5	72.0	70.9
12	30	67.0	67.9	67.1	68.1	68.5	70.1	70.5	73.4	71.1	70.0	72.6	69.9
22	30	67.2	67.2	68.0	68.2	69.1	71.2	71.5	73.1	71.1	70.6	72.6	69.4
32	30	66.9	67.7	67.6	68.1	69.6	70.9	72.9	73.4	71.4	70.2	72.5	69.7
42	30	66.5	67.1	68.4	69.4	69.9	69.8	72.7	70.1	71.3	70.7	72.4	70.1
52	30	66.2	68.2	68.4	68.6	67.6	69.6	73.1	70.0	71.4	71.2	72.3	70.0

Thermometer	10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
	56.8	56.7	56.9	56.7	56.7	56.6	56.4	56.5	56.5	56.2	55.9	55.7

VERTICAL FORCE.												

Increasing Numbers denote decreasing Westerly

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
21	10	0	30.448	49.7	45.4	S.	0.5	—	Bright starlight.			
	11	0	30.428	49.8	45.4	S.	0.3	—	Bright starlight.			
	12	0	30.402	49.5	45.6	S.	0.3	—	Clear.			
	13	0	30.380	49.4	45.6	S.	0.3	—	Clear.			
	14	0	30.376	48.6	45.4	S.	0.3	—	Clear.			
	15	0	30.369	49.2	45.8	S.	0.5	—	Clear; dry air.			
	16	0	30.359	48.8	45.6	S.	0.4	—	Clear; sea sounding loud.			
	17	0	30.349	48.8	45.4	S.	0.4	—	Bright starlight; sea sounding.			
	18	0	30.345	48.6	45.2	S.	0.4	—	Clear; dry air; sea sounding.			
	19	0	30.346	48.4	45.6	S.	0.3	—	A few cir. S.; strat. round horizon.			
	20	0	30.351	49.8	47.2	S.	Light Air.	—	A few cir. S.; strat. round horizon.			
	21	0	30.346	52.8	48.6	Calm.	Calm.	—	Light cum. S.; strat. round horizon.			

MAGNETICAL OBSERVATIONS.

July 21st and 22nd.

Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	50.4	49.4	52.2	52.6	52.0	51.3	51.6	50.5	50.7	51.0	51.4	51.8	
5	0	50.4	49.4	52.5	52.8	51.9	51.2	51.5	50.4	50.8	50.9	51.4	51.8	
10	0	49.7	50.0	52.5	52.7	51.7	51.1	51.1	50.4	50.9	51.9	51.3	51.8	
15	0	49.7	50.0	52.7	52.7	51.6	51.1	51.1	50.4	51.0	51.0	51.3	51.8	
20	0	50.0	50.5	52.7	52.3	51.5	51.1	51.6	50.5	50.9	51.0	51.1	51.8	
25	0	50.9	50.4	52.8	52.4	51.4	51.1	51.4	50.6	51.0	51.1	51.2	51.8	
30	0	49.8	50.8	52.5	52.3	51.5	51.3	51.5	50.7	51.0	51.0	51.2	51.8	
35	0	49.8	51.0	52.3	52.2	51.5	51.0	51.0	50.7	50.8	51.0	51.4	51.9	
40	0	49.6	51.3	52.1	52.1	51.3	51.3	50.9	50.7	50.9	51.1	51.6	51.9	
45	0	49.6	51.2	52.6	52.1	51.0	51.7	50.7	50.6	51.0	51.2	51.7	52.0	
50	0	49.5	51.8	52.6	51.8	51.2	51.3	50.6	50.6	51.1	51.3	51.7	52.0	
55	0	49.3	52.2	52.5	51.6	51.2	51.2	50.5	50.7	51.0	51.3	51.8	52.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
		2	30	70.9	70.5	70.8	69.7	68.5	68.2	68.6	68.1	66.9	66.1	66.0
12	30	70.5	70.9	70.6	69.2	68.4	67.7	68.5	67.7	66.9	66.5	66.3	66.0	
22	30	71.3	71.9	70.5	69.0	68.7	67.9	68.4	67.7	66.5	66.0	66.5	65.9	
32	30	71.1	70.9	70.4	69.0	68.5	67.7	68.7	66.9	66.4	66.1	66.6	65.2	
42	30	71.0	70.9	70.6	68.7	68.3	68.2	68.3	66.5	66.1	66.1	66.1	65.0	
52	30	70.9	71.1	69.7	68.6	68.2	68.6	68.2	66.5	65.9	66.0	65.9	64.9	

Thermometer	55.7	55.7	56.0	56.2	56.7	56.9	57.1	57.7	58.2	58.3	58.3	58.2
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VERTICAL FORCE.

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Declination, and incret sing Horizontal Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
21	22	0	30.330	54.3	49.4	S.	0.3	—	A few cir. S.; light strat. round horizon.
	23	0	30.312	55.3	49.8	S.	0.3	0.1	Strat. round horizon.
22	0	0	30.279	57.4	51.4	S.	0.3	0.1	Strat. round horizon.
	1	0	30.252	58.2	53.4	Calm.	Calm.	—	Hazy.
	2	0	30.244	58.4	52.4	S. S. E.	0.3	0.1	Strat. round horizon.
	3	0	30.234	57.6	52.9	S.	Light Air.	—	Clear.
	4	0	30.227	55.4	51.4	S.	Light Air.	—	Clear.
	5	0	30.251	51.7	49.4	S. by E.	0.4	—	Hazy round horizon., a few cir. S. W.
	6	0	30.252	51.0	49.0	S. by E.	0.4	—	Clear.; sea sounding loud.
	7	0	30.248	51.1	48.9	S.	0.3	0.1	Cir. W.; light dew; sea sounding.
	8	0	30.242	50.8	47.0	S.	0.3	—	Hazy round horizon.; light dew.
	9	0	30.222	52.1	45.9	S.	Light Air.	—	Clear.

August 27th and 28th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		52.1	48.8	51.6	55.2	55.7	53.2	53.0	52.2	56.1	57.9	55.0	52.1
5	0		52.1	48.8	51.4	56.3	55.0	53.2	53.2	52.1	56.1	57.6	55.1	51.6
10	0		52.0	49.0	51.1	56.0	54.1	53.0	53.3	52.0	56.0	56.9	54.9	51.6
15	0		51.8	49.7	51.0	57.9	53.7	53.1	53.6	52.0	56.6	56.2	54.1	51.9
20	0		51.5	50.1	51.2	59.0	53.3	53.0	53.4	52.2	57.2	56.8	54.0	51.7
25	0		51.0	51.0	51.3	58.5	53.0	53.0	53.2	53.1	57.4	57.1	53.8	51.5
30	0		50.8	51.2	51.3	58.0	53.0	53.1	53.2	54.0	57.6	57.7	53.3	51.6
35	0		50.9	51.6	51.3	57.5	53.1	53.0	53.2	55.0	57.8	57.5	53.0	51.2
40	0		49.9	52.0	51.1	57.6	53.2	53.0	53.2	55.0	58.0	57.1	52.8	51.0
45	0		49.6	52.2	51.0	57.3	53.2	53.1	53.0	55.5	58.4	56.5	52.9	50.8
50	0		49.0	52.0	52.0	56.8	53.2	53.1	53.0	55.9	58.3	55.7	52.8	51.1
55	0		49.0	51.9	53.8	56.0	53.2	53.0	52.1	56.0	58.2	55.0	52.6	51.2
M. S.			One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
			51.0	53.0	52.1	63.0	61.2	60.3	58.4	55.8	54.0	59.2	61.2	62.0
12	30		50.8	53.2	52.0	61.2	61.9	59.0	57.7	54.9	54.2	60.8	61.0	62.0
22	30		50.4	53.0	51.5	65.6	61.6	58.3	57.0	54.7	54.9	62.0	61.5	62.6
32	30		51.1	53.0	53.2	63.2	61.8	58.1	56.8	54.2	56.0	62.2	61.8	63.0
42	30		52.6	52.6	53.3	63.5	62.0	58.0	56.2	53.2	57.1	61.9	62.2	63.0
52	30		53.0	52.0	52.3	62.8	61.8	57.7	55.9	53.6	58.4	61.8	62.0	62.6
Thermometer			58.7	58.9	59.3	59.4	59.5	59.5	59.4	59.2	59.1	58.7	58.5	58.0
VERTICAL FORCE.														
Increasing Numbers denote decreasing westerly														
METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.					
				Dry.	Wet.	Direction.	Force.							
D.	H.	M.	In.	°	°		lbs.							
27	10	0	29.850	56.4	56.4	N. W.	1.7	0.9	Nim.					
	11	0	29.857	56.0	55.5	N. W.	1.7	1.0	Nim.					
	12	0	29.862	56.7	54.2	W. N. W.	2.2	0.7	.2 nim.; .5 cum.; lunar halo.					
	13	0	29.884	56.4	53.6	N. W.	2.2	0.3	Cum. S. and W.					
	14	0	29.884	54.6	51.6	W.	2.2	0.7	.5 nim.; .2 cum.					
	15	0	29.916	54.9	52.4	N. W.	1.7	0.9	Cum. and cum.-strat.; wind in gusts.					
	16	0	29.920	54.4	50.2	N. W.	1.7	0.7	Cum.; wind increasing.					
	17	0	29.956	52.0	50.4	W. by N.	2.6	0.8	.4 cum. and .4 nim.					
	18	0	30.002	51.2	48.4	W.	2.4	0.7	Cum. and cum.-strat.; squally.					
	19	0	30.048	49.5	46.8	W.	0.1	0.7	Cum. and cum.-strat. squalls at intervals.					
	20	0	30.072	52.0	49.0	W. by N.	1.3	0.7	.1 nim.; .6 cum. and cum.-strat.; rainbow W.					
	21	0	30.094	53.1	49.2	W. by N.	0.3	0.4	Cum. and cum.-strat.					

September 22nd and 23rd.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					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		53.5	52.3	52.6	52.9	53.0	53.4	53.2	53.4	54.5	54.4	52.3
5	0		53.5	52.1	52.6	52.9	53.0	53.6	53.2	53.5	54.8	54.2	52.2
10	0		53.9	52.2	52.8	52.9	53.0	53.9	53.0	53.4	54.8	54.0	52.1
15	0		54.0	52.2	52.5	52.8	52.9	53.7	53.0	53.4	54.6	53.7	52.1
20	0		53.1	52.2	52.8	53.0	53.0	53.3	53.0	53.6	55.0	53.8	52.1
25	0		53.4	52.2	52.8	52.9	53.0	53.5	53.0	54.0	54.1	53.2	51.9
30	0		53.1	52.2	52.9	52.9	53.0	53.5	53.2	54.0	54.3	53.0	51.8
35	0		53.0	52.1	53.0	52.9	53.0	53.5	53.2	53.9	54.3	53.0	51.9
40	0		52.9	52.2	53.0	53.0	53.0	53.1	53.0	53.8	54.5	52.5	51.8
45	0		52.9	52.3	53.0	52.9	53.0	53.0	53.4	54.0	54.1	52.6	51.9
50	0		52.5	52.8	53.0	53.0	53.0	53.0	53.4	53.9	54.0	52.4	51.9
55	0		52.5	52.8	53.0	53.0	53.0	53.7	53.7	54.0	54.1	52.5	51.9
			One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	30		48.8	46.1	46.4	46.4	47.8	48.1	47.9	48.2	48.5	50.5	53.8
12	30		48.3	46.1	46.5	46.4	47.7	48.2	48.0	48.3	48.9	51.4	54.1
22	30		48.0	46.0	46.8	47.0	47.8	48.0	47.8	48.2	49.0	52.0	54.9
32	30		47.5	46.0	46.9	47.0	48.0	48.1	47.9	48.0	49.3	52.1	55.0
42	30		46.7	46.1	46.7	47.0	48.0	48.0	48.2	48.0	49.5	53.0	55.4
52	30		46.1	46.8	46.8	47.7	48.0	48.0	48.2	48.2	50.0	53.0	55.8
Thermometer			57.7	57.9	58.0	57.8	57.8	58.0	57.8	57.5	57.6	57.5	57.3
			One Scale Division = .00002 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
7	30		72.7	82.2	79.7	81.6	76.1	71.6	78.4	76.4	68.5	70.5	68.5
17	30		73.8	80.4	79.7	83.1	76.0	76.7	79.5	75.6	65.4	72.0	67.8
27	30		76.4	81.6	79.5	81.0	74.5	78.3	80.7	72.8	69.4	71.4	69.1
37	30		80.4	81.8	78.6	79.7	75.0	78.9	80.5	74.5	68.7	72.6	68.1
47	30		79.6	80.2	79.2	79.9	73.7	79.8	76.9	74.5	74.2	72.6	69.7
57	30		80.2	78.7	79.2	78.0	70.9	78.6	76.5	70.9	71.3	69.6	69.3
Thermometer			57.6	58.0	58.0	58.0	58.0	57.8	57.8	57.9	57.8	57.6	57.5
Increasing Numbers denote decreasing westerly Declination,													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.				lbs.						
22	10	0	30.066	52.6	48.8	N. W.	0.8	1.0	Nim.; showery.				
	11	0	30.093	52.3	46.8	W.	0.3	0.4	.1 cum.-strat; .3 nim; showery; lightning S. E.				
	12	0	30.099	51.7	46.5	W.	0.5	0.6	.3 cum.-strat; .3 nim; showery.				
	13	0	30.109	51.4	46.2	W.	0.5	0.3	Dense cum.-strat. round horizon.				
	14	0	30.117	51.0	46.2	W. by N.	0.3	0.1	Cum.-strat.; sea sounding				
	15	0	30.133	48.7	45.4	S. E.	0.3	0.4	Cum.-strat.				
	16	0	30.169	48.2	45.7	S.	0.1	0.4	Cum.-strat.				
	17	0	30.191	46.8	45.3	N.	Light Air.	1.0	Cum.-strat. and nim; showery.				
	18	0	30.217	45.8	43.6	S. W.	Light Air.	1.0	.6 cum.-strat. and .4 nim.; showery.				
	19	0	30.261	48.4	45.6	S.	0.1	1.0	.4 cum.-strat. and .6 nim.				
	20	0	30.265	50.0	47.8	S. E.	0.1	0.7	Cum.-strat.; showery.				
	21	0	30.281	51.8	48.4	S. E.	Light Air.	0.3	Cum.-strat. round horizon.				

MAGNETICAL OBSERVATIONS.													September 22nd and 23rd.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	52.5	53.0	54.1	56.0	56.5	55.8	54.5	54.0	53.9	54.0	54.5	54.5	
5	0	52.7	53.0	54.3	56.1	56.5	55.5	54.5	53.9	53.8	54.4	54.5	54.5	
10	0	52.7	53.1	54.7	56.1	56.4	55.4	54.5	54.0	54.0	54.5	54.5	54.5	
15	0	52.8	53.3	55.0	56.4	56.5	55.1	54.5	54.0	54.0	54.6	54.6	54.5	
20	0	52.9	53.4	55.3	56.5	56.3	55.1	54.5	54.0	54.3	54.6	54.7	54.5	
25	0	52.9	53.5	55.2	56.5	56.2	55.0	54.5	54.0	54.3	54.5	54.6	54.5	
30	0	52.9	53.5	55.5	56.6	56.0	55.0	54.5	53.9	54.3	54.3	54.6	54.4	
35	0	52.9	53.9	55.7	56.6	56.0	55.0	54.5	54.0	54.0	54.3	54.7	54.3	
40	0	52.9	54.0	56.0	56.6	56.0	55.0	54.0	53.8	54.0	54.1	54.7	54.4	
45	0	53.0	54.0	56.0	56.5	56.0	54.9	54.0	53.9	54.0	54.2	54.6	54.4	
50	0	53.0	54.1	56.0	56.5	56.0	54.9	54.0	53.9	54.0	54.2	54.6	54.3	
55	0	53.0	54.1	56.0	56.5	56.0	54.6	54.0	53.9	54.3	54.5	54.6	54.2	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	30	56.4	54.0	53.9	53.1	52.0	49.8	48.8	48.2	47.0	44.7	46.1	46.7	
12	30	56.9	54.0	54.0	53.0	51.8	50.0	49.0	48.3	46.7	45.1	46.0	47.2	
22	30	56.1	54.0	54.0	53.0	51.0	50.0	48.9	48.0	45.8	45.2	46.3	47.2	
32	30	55.4	53.9	54.3	52.9	50.8	49.9	49.0	47.5	45.1	45.2	46.5	47.1	
42	30	55.0	54.0	54.0	52.6	50.7	49.7	48.7	47.6	44.9	45.6	46.9	47.2	
52	30	54.4	54.0	53.5	52.0	50.5	49.0	48.5	47.2	44.9	45.7	46.8	47.4	

Thermometer		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
		57.3	57.5	57.8	57.9	57.9	57.8	58.1	58.5	58.7	58.9	58.9	58.8

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
7	30	55.7	47.2	35.3	38.4	56.6	81.3	88.4	87.2	81.8	83.7	77.8	74.3	
17	30	50.7	42.2	33.1	39.0	59.1	82.1	86.6	85.8	78.0	81.0	77.3	73.8	
27	30	51.3	40.4	33.6	38.4	64.3	81.5	85.9	84.6	84.7	80.5	76.5	74.3	
37	30	51.3	37.5	31.1	43.7	69.2	82.7	86.4	85.1	85.6	82.1	75.2	74.6	
47	30	50.2	35.2	31.1	49.8	72.8	84.3	87.3	82.8	87.4	81.7	75.2	76.0	
57	30	47.4	34.3	35.1	51.5	75.6	86.1	86.4	82.4	86.9	78.8	75.2	74.2	

Thermometer		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
		57.5	57.7	57.9	57.9	57.9	58.0	58.2	58.5	58.6	58.8	59.0	58.9

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
22	22	0	30.296	55.0	50.2	N.	Light Air.	0.6	Cum. ; snow visible on top of Hottentot Holland.				
	23	0	30.295	55.7	50.6	W. by N.	0.4	0.5	Cum.				
23	0	0	30.306	52.6	47.1	W.	0.5	1.0	Cum.-strat. and nim. ; beginning to rain.				
	1	0	30.338	47.8	44.8	E.	0.5	0.9	Cum.-strat. and nim ; raining.				
	2	0	30.330	51.5	47.1	E.	Light Air.	0.3	Dense cir.-cum. and cum.-strat. round horizon.				
	3	0	30.332	52.9	47.8	W. by N.	0.1	0.7	.6 cum. and cum.-strat. ; .1 cir. in zenith.				
	4	0	30.346	52.0	47.1	W. by N.	0.1	0.8	.2 nim. ; .2 cir.-cum. ; and .4 cum. and cum.-strat.				
	5	0	30.343	52.1	47.2	W. by N.	Light Air.	0.4	Dense cum.-strat.				
	6	0	30.361	49.6	45.4	W.	Light Air.	0.1	Cum.-strat. dense S.W. horizon.				
	7	0	30.383	45.9	43.4	W.	Light Air.	0.1	Cum.-strat. dense S.W. horizon.				
	8	0	30.405	44.8	42.7	W. N. W.	Light Air.	0.1	Cum. scattered S. and E. horizons.				
	9	0	30.418	43.1	41.4	W.	Light Air.	0.3	Cum. scattered.				

October 20th and 21st.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.					DECLINATION.						
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	54.0	53.2	53.7	52.5	52.0	54.0	53.0	53.1	52.5	56.3	52.8	49.9
5	0	53.9	53.4	53.9	52.0	51.6	53.0	53.2	53.2	51.4	57.0	52.0	49.9
10	0	53.9	53.2	54.0	52.0	52.0	53.0	53.5	53.2	51.0	57.3	51.6	50.0
15	0	53.9	53.2	53.8	52.0	52.2	52.6	52.8	53.1	50.3	57.0	51.3	50.1
20	0	53.9	53.1	53.8	52.0	52.9	52.6	51.5	53.0	52.0	56.6	51.0	50.2
25	0	53.9	53.1	53.5	52.0	54.2	52.6	51.5	53.2	52.5	56.3	50.9	50.0
30	0	53.9	53.0	53.3	51.6	55.0	52.8	51.5	53.5	54.0	56.2	50.6	49.7
35	0	53.5	53.0	53.0	51.7	54.8	53.3	52.0	53.7	55.6	56.3	50.3	49.5
40	0	53.5	52.9	52.8	51.8	55.1	53.4	52.5	54.1	57.0	55.8	50.1	49.4
45	0	53.5	52.9	52.8	52.1	55.0	53.5	52.2	54.0	58.9	55.2	49.4	49.4
50	0	53.5	53.0	52.7	51.9	55.0	53.5	52.8	53.9	59.8	54.0	49.4	49.4
55	0	53.2	53.1	52.5	51.9	54.1	53.0	53.0	53.0	58.1	53.4	49.5	49.2
M. s.		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
2	30	67.2	67.5	71.9	71.8	69.7	75.5	79.9	80.0	73.7	77.9	78.1	75.8
12	30	67.3	67.3	72.7	71.0	71.0	76.9	80.0	79.1	72.5	80.1	77.7	73.6
22	30	67.8	66.8	73.1	71.0	71.7	77.6	80.0	78.1	71.3	80.9	77.4	73.3
32	30	67.8	66.8	73.0	70.7	73.1	78.5	80.0	76.4	73.2	79.7	77.1	70.7
42	30	67.8	66.6	72.9	70.5	75.7	78.9	80.0	75.2	75.8	78.9	76.6	68.9
52	30	67.8	69.4	72.8	70.1	77.0	79.7	79.0	74.1	76.3	78.2	76.8	67.6
Thermometer		63.0	62.9	63.0	62.7	62.7	62.7	62.7	62.3	62.1	61.7	61.8	62.9
M. s.		One Scale Division = .00005 parts of the V. F.					VERTICAL FORCE.						
7	30	69.9	72.8	68.8	73.8	77.9	63.2	58.0	59.1	81.2	61.5	75.4	73.2
17	30	69.9	74.6	67.5	75.4	72.5	62.7	58.0	62.0	83.9	48.2	77.2	73.0
27	30	69.5	75.9	67.6	76.7	69.7	58.3	58.1	63.1	80.1	50.5	78.7	75.0
37	30	70.3	77.1	69.7	77.6	58.6	55.8	57.5	66.5	68.7	66.6	78.6	74.7
47	30	70.8	77.1	70.2	77.1	60.4	55.8	57.7	68.5	50.3	67.4	79.4	75.7
57	30	71.2	73.2	71.4	78.2	61.3	55.2	59.2	74.1	58.5	67.7	75.3	76.5
Thermometer		63.1	63.1	63.2	62.8	62.6	62.6	62.5	62.5	62.0	61.8	61.8	62.0

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
20	10	0	30.102	55.6	53.1	S. by E.	0.5	0.4	Dense cum.-strat.; showery.
	11	0	30.124	54.4	50.8	S.	0.3	0.3	Cum.-strat. S. and E.
	12	0	30.138	53.4	50.0	S.	0.3	0.4	Cum.-strat.
	13	0	30.140	52.8	50.4	S.	0.3	0.3	Cum. and cum.-strat. scattered.
	14	0	30.143	53.2	50.8	S.	0.3	0.3	Cum.-strat.
	15	0	30.147	52.9	50.4	S. W.	0.1	0.1	Dense cum.-strat. W. hor.; heavy dew.
	16	0	30.158	54.1	51.2	S. W.	0.1	0.1	Cum.-strat. W. hor., a few cum. S.; heavy dew.
	17	0	30.201	53.5	51.1	S.	0.1	0.2	Detached cum.; dense round hor.
	18	0	30.205	57.2	54.2	S.	0.1	0.1	Cum. W. and S. horizon; hazy E. and N. W.
	19	0	30.215	59.3	55.8	W.	0.1	0.3	Cum.
	20	0	30.221	59.4	54.8	W.	Light Air.	0.5	Cum.
	21	0	30.217	64.4	58.2	N. W.	Light Air.	0.6	Cum.

MAGNETICAL OBSERVATIONS. October 20th and 21st.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	49.8	53.4	54.4	55.8	55.2	54.0	53.0	53.0	52.0	49.8	50.7	52.0
5	0	49.8	53.2	54.8	55.8	55.0	54.0	52.2	53.0	52.0	50.0	51.0	52.0
10	0	50.3	53.2	54.5	55.8	55.0	54.0	51.6	52.9	51.8	50.0	51.4	52.0
15	0	50.8	53.4	54.4	55.7	54.9	54.0	50.6	52.9	51.8	50.7	51.5	52.0
20	0	50.8	53.9	54.5	56.0	54.7	53.9	50.0	52.8	51.5	51.3	51.5	52.0
25	0	51.0	54.9	54.6	56.2	54.5	53.5	51.2	52.8	51.0	51.3	51.5	52.0
30	0	51.4	55.0	55.0	57.0	54.5	53.5	52.2	52.8	50.3	51.0	51.5	52.1
35	0	51.8	56.0	55.0	56.0	54.3	53.6	52.5	52.8	49.6	50.5	51.8	52.3
40	0	52.1	56.0	55.2	55.7	54.0	53.8	52.5	53.0	49.2	50.0	52.0	52.5
45	0	52.1	55.0	55.2	55.5	54.0	53.8	52.9	53.0	49.2	50.0	52.0	52.5
50	0	52.5	54.9	55.2	55.6	54.0	53.8	53.0	52.5	49.6	50.2	52.0	52.5
55	0	53.2	54.5	55.7	55.5	54.0	53.3	53.0	52.0	48.7	50.5	52.0	52.5

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00028.											
2	30	67.8	66.7	62.4	62.5	56.5	58.8	55.3	62.4	59.2	61.4	61.8	61.0
12	30	67.7	65.9	62.4	60.0	55.4	59.1	57.8	62.1	59.6	61.0	61.0	60.9
22	30	66.7	66.7	63.0	58.0	55.3	59.4	62.4	61.3	60.5	60.8	60.5	61.2
32	30	66.5	67.1	63.1	56.1	56.4	58.8	62.8	60.2	61.1	60.9	60.6	62.3
42	30	66.1	65.8	63.3	56.0	57.6	57.0	62.0	58.9	62.0	61.4	61.0	62.7
52	30	66.3	63.2	62.8	57.1	58.1	56.0	61.8	58.9	62.0	61.3	61.2	63.2

Thermometer	62.2	62.6	62.9	63.1	63.5	63.4	63.7	63.7	63.9	64.2	64.2	63.9
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = 0.0005.											
7	30	74.1	55.3	61.5	60.5	76.3	74.7	80.1	66.1	72.2	73.1	67.0	68.7
17	30	68.2	55.7	60.9	64.2	78.1	73.7	82.1	66.8	72.3	70.7	67.0	70.9
27	30	70.9	52.4	60.0	67.3	77.3	74.6	73.1	68.5	72.8	69.7	68.1	68.5
37	30	64.0	46.9	59.2	73.4	77.8	75.2	68.3	70.1	73.7	71.2	67.7	65.2
47	30	59.4	53.2	59.2	75.6	76.8	77.3	66.1	71.1	72.0	70.9	66.7	64.4
57	30	54.9	59.3	58.9	74.7	76.0	79.4	66.1	72.2	72.7	69.2	67.9	63.7

Thermometer	62.3	62.4	62.8	63.0	63.3	63.6	63.4	63.9	63.8	64.0	64.1	63.8
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
20	22	0	30.206	63.0	56.7	N. W.	Light Air.	0.8	Cum.; a few cir.-strat. N.; hazy.
	23	0	30.200	62.9	56.6	S.	Light Air.	0.7	Cum.; hazy.
21	0	0	30.208	63.8	57.8	S.	Light Air.	0.9	Cum.; hazy.
	1	0	30.185	64.2	56.6	S.	0.1	0.5	Cum.; hazy.
	2	0	30.172	63.8	56.1	S. by E.	0.3	0.3	Cum.; hazy.
	3	0	30.172	64.0	56.4	S.	—	0.4	Cum. scattered.
	4	0	30.167	63.1	55.0	S.	0.3	0.1	Cum. scattered.
	5	0	30.182	60.9	54.0	S.	Light Air.	—	A few cum.; hazy round horizon.
	6	0	30.180	57.2	52.9	S.	0.1	—	Hazy.
	7	0	30.194	53.6	50.7	S.	0.1	—	Clear moonlight; dew.
	8	0	30.200	53.7	50.9	S.	0.1	—	Clear moonlight; heavy dew.
	9	0	30.219	53.2	50.2	S.	0.4	—	Clear moonlight.

November 26th and 27th.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.						DECLINATION.					
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	52.8	52.9	52.1	52.0	52.2	53.0	51.0	50.1	48.6	46.8	48.3	52.5
5	0	52.8	52.9	52.1	52.1	52.2	52.9	51.0	50.0	48.6	46.8	48.2	53.0
10	0	52.8	52.6	52.1	52.1	52.2	52.9	51.0	50.0	48.3	46.9	49.0	53.1
15	0	52.8	52.9	52.1	52.1	52.4	52.6	51.3	49.4	48.1	47.0	49.4	53.4
20	0	52.9	52.8	52.1	52.2	52.5	52.5	51.7	49.0	48.3	47.1	50.0	53.9
25	0	52.9	52.5	52.1	52.2	52.5	52.0	51.6	49.0	47.9	47.2	50.0	54.0
30	0	53.0	52.6	52.2	52.4	52.6	51.9	51.3	49.0	47.6	47.3	50.4	54.4
35	0	53.0	52.7	52.2	52.5	52.6	51.8	51.1	48.9	47.4	47.6	50.7	54.9
40	0	52.6	52.7	52.4	52.2	52.8	51.2	51.0	48.4	47.0	47.6	51.2	55.0
45	0	52.8	52.5	52.2	52.2	53.0	51.1	51.0	48.6	47.1	48.2	51.6	55.0
50	0	52.9	52.4	52.0	52.2	52.9	51.0	51.0	48.4	47.0	48.0	51.9	55.4
55	0	52.9	52.2	52.0	52.1	52.9	51.0	50.8	48.6	47.0	48.1	52.1	55.4

M. S.		One Scale Division = .00018 parts of the H. F.						HORIZONTAL FORCE.					
		70.0	71.7	71.8	73.0	74.0	74.9	75.3	75.7	77.0	78.2	78.2	78.9
2	30	70.7	71.7	72.1	72.5	74.4	74.6	75.2	76.4	77.4	78.1	78.3	79.0
12	30	71.1	71.8	72.9	73.0	74.8	74.7	75.2	76.0	78.1	77.9	78.5	79.1
22	30	71.5	71.9	72.9	73.5	74.8	74.7	75.5	76.1	78.5	77.7	78.9	79.3
32	30	70.8	72.0	72.9	73.3	74.8	74.5	75.9	76.4	78.2	77.9	79.0	79.4
42	30	71.1	71.7	72.9	73.3	74.7	74.6	76.4	76.6	77.9	78.1	79.1	79.2

Thermometer	66.6	66.6	66.6	66.5	66.2	66.1	66.0	65.7	65.4	65.1	64.9	65.0
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M. S.		One Scale Division = .00005 parts of the V. F.						VERTICAL FORCE.					
		63.9	60.1	62.1	60.9	58.8	58.0	63.4	70.8	74.7	70.5	55.5	40.6
7	30	61.9	59.9	60.1	60.4	56.8	60.9	63.8	73.4	73.9	67.7	52.8	39.1
17	30	61.3	59.9	59.6	60.0	56.8	62.2	65.7	75.7	71.1	64.2	46.9	34.8
27	30	61.7	60.1	60.4	60.6	56.8	63.4	67.5	75.9	70.7	62.2	43.5	33.5
37	30	60.7	61.5	61.1	59.9	58.0	63.4	68.7	75.2	71.7	58.7	46.8	32.8

Thermometer	66.6	66.7	66.6	66.3	66.4	66.3	66.1	65.7	65.3	65.1	65.0	65.0
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
26	10	0	29.986	61.0	57.6	S.	2.2	1.0	Cum.-strat. and cir.-strat.			
	11	0	29.977	60.1	57.4	S.	4.2	1.0	Dense cum.-strat. and cir.-strat.			
	12	0	29.978	58.8	56.6	S.	2.6	1.0	Cum.-strat. and cir.-strat. ; lunar halo.			
	13	0	29.978	58.9	56.4	S.	3.4	1.0	Cum.-strat., cir., and cir.-strat.			
	14	0	29.963	58.8	56.1	S.	2.4	1.0	Cum.-strat. and cir.-strat.			
	15	0	29.969	58.8	55.8	S. E.	2.2	1.0	Dense cum.-strat., and cir.-strat.			
	16	0	29.994	58.9	55.3	S. E.	2.4	1.0	Cum.-strat., cir., and cir.-strat.			
	17	0	30.013	59.0	54.8	S. by E.	2.0	1.0	Cum.-strat., cir., and cir.-strat.			
	18	0	30.028	61.1	55.8	S. by E.	2.2	1.0	Cum., cum.-strat., and cir.-strat.			
	19	0	30.057	62.4	56.0	S. E.	2.2	0.9	Cum., cir., and cir.-strat.			
	20	0	30.063	63.6	56.6	S.	3.1	0.5	Cir.-strat. and cum.			
	21	0	30.081	64.2	56.2	S.	3.6	0.4	Cum.			

MAGNETICAL OBSERVATIONS. November 26th and 27th.

Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	55.9	56.5	56.6	56.0	54.5	52.9	51.4	50.9	51.4	52.3	52.4	51.5	
5	0	55.9	56.8	56.5	55.9	54.4	52.7	51.4	50.9	51.3	52.3	52.3	51.9	
10	0	56.0	56.8	56.2	55.9	54.2	52.4	51.3	50.9	51.5	52.3	52.1	51.9	
15	0	56.0	56.9	56.2	55.6	54.0	52.2	51.2	50.9	51.5	52.4	52.0	51.9	
20	0	56.0	56.8	56.2	55.5	54.0	52.2	51.2	50.9	51.9	52.4	52.0	51.9	
25	0	56.1	56.8	56.1	55.5	53.9	52.1	51.1	50.9	51.9	52.4	52.0	52.0	
30	0	56.1	56.8	56.1	55.5	53.7	52.1	51.0	50.9	52.0	52.5	52.0	52.0	
35	0	56.2	56.8	56.1	55.2	53.4	52.1	51.0	50.9	52.0	52.6	51.6	52.0	
40	0	56.2	56.8	56.1	55.0	53.2	52.0	51.0	50.9	52.0	52.7	51.5	52.0	
45	0	56.2	56.8	56.0	55.0	53.1	51.9	51.0	50.9	52.0	52.8	51.2	52.0	
50	0	56.2	56.7	56.0	55.0	53.0	51.7	50.9	51.0	52.3	52.8	51.2	52.0	
55	0	56.2	56.5	56.0	54.9	53.0	51.5	50.9	51.3	52.3	52.5	51.3	52.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.	
		2	30	79.1	77.4	75.1	73.2	72.2	71.2	71.6	70.0	70.7	71.6	72.2
12	30	78.7	77.4	76.0	73.1	72.0	71.7	71.2	70.1	71.0	71.8	71.9	72.3	
22	30	79.2	77.1	75.6	73.0	72.0	71.9	71.1	70.2	71.0	71.7	72.0	72.5	
32	30	79.0	77.1	75.1	73.0	71.8	71.9	71.0	70.3	71.1	71.8	72.0	72.8	
42	30	78.2	77.0	74.6	72.9	71.6	71.9	70.6	70.3	71.4	71.9	72.0	72.8	
52	30	77.8	76.8	74.0	72.7	71.4	71.8	70.0	70.7	71.2	72.0	72.7	73.0	

Thermometer	65.0	65.1	65.3	65.5	65.5	65.5	65.5	65.4	65.4	65.3	65.4	65.2
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.	
		7	30	32.2	37.0	39.9	46.8	57.2	65.8	66.8	68.7	65.6	61.3	63.6
17	30	32.2	37.8	39.9	48.1	58.2	65.8	66.8	68.5	65.6	61.4	64.8	66.5	
27	30	31.8	37.8	40.6	49.6	59.5	65.4	69.9	68.8	64.4	62.0	65.7	66.6	
37	30	35.5	37.6	51.5	51.4	61.4	65.4	67.7	68.0	63.5	61.4	66.4	66.7	
47	30	33.9	38.4	37.8	53.3	63.0	66.0	68.2	67.3	62.5	62.0	66.9	66.2	
57	30	36.3	39.1	44.3	54.3	64.2	66.8	68.9	65.8	61.9	62.9	65.9	65.5	

Thermometer	65.1	65.2	65.4	65.4	65.5	65.5	65.6	65.5	65.4	65.4	65.5	65.3
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
26	22	0	30.095	64.6	56.8	S.	3.1	0.4	Cum.
	23	0	30.110	64.8	57.0	S.	3.6	0.1	Cum. ; hazy round horizon.
27	0	0	30.102	64.6	56.4	S.	4.7	0.1	Cum. S. W. ; hazy round horizon.
	1	0	30.094	64.7	56.6	S.	4.4	—	A few cum. S. W.
	2	0	30.082	64.2	56.4	S. by E.	4.7	—	A few cum. S. W. ; hazy.
	3	0	30.076	64.0	55.9	S.	3.1	—	A few cum. S. ; hazy N. and E. horizons.
	4	0	30.076	64.5	57.3	S.	4.7	—	A few cum. S. ; hazy round horizon.
	5	0	30.076	63.9	56.2	S.	3.6	—	Cum. in S. horizon.
	6	0	30.087	59.9	54.8	S.	4.2	—	Cum. S. W. ; dense strat. round horizon.
	7	0	30.098	59.7	54.9	S.	4.2	—	Cum. in S. E. horizon.
	8	0	30.110	59.2	54.6	S.	2.0	—	Strat. round horizon.
	9	0	30.132	58.8	54.0	S.	1.7	—	A few cum. S. W.

December 22nd and 23rd.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.						DECLINATION.					
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	45.0	44.0	43.5	44.7	43.4	43.0	42.9	41.8	42.0	41.0	41.6	43.0
5	0	45.0	43.9	43.4	44.0	43.4	43.0	42.9	41.9	42.0	41.8	41.7	42.8
10	0	44.4	44.0	43.9	43.9	43.5	43.0	43.0	41.9	42.0	41.6	42.0	42.7
15	0	44.0	44.0	44.0	43.8	43.3	43.0	42.6	42.5	41.9	41.3	42.6	42.7
20	0	43.9	44.3	44.0	43.1	43.3	43.0	42.8	42.0	41.0	40.7	42.8	42.4
25	0	43.5	44.0	44.1	43.0	43.3	42.9	42.4	41.3	41.1	39.9	42.8	42.8
30	0	43.1	43.8	44.1	43.3	43.3	42.9	42.0	41.3	40.0	39.0	43.0	42.6
35	0	42.9	43.9	43.9	43.5	43.1	42.8	41.3	42.0	39.9	40.0	43.0	42.5
40	0	43.0	43.4	44.0	43.4	43.1	42.4	41.8	42.6	39.4	41.0	42.9	42.4
45	0	43.0	43.0	44.5	43.3	43.0	42.4	41.9	42.0	40.0	41.4	43.1	42.2
50	0	43.7	43.4	44.5	43.3	43.0	42.4	41.9	41.9	40.0	41.5	43.0	42.0
55	0	44.0	43.4	45.0	43.4	43.1	42.5	42.1	41.8	40.0	41.8	43.1	42.0

M. S.		One Scale Division = .00018 parts of the H. F.						HORIZONTAL FORCE.					
		71 ^h .	71 ^h .	73 ^h .	73 ^h .	72 ^h .	74 ^h .	75 ^h .	76 ^h .	76 ^h .	77 ^h .	80 ^h .	82 ^h .
2	30	71.9	71.7	73.8	73.8	72.7	74.2	75.2	76.4	76.8	77.9	80.0	82.7
12	30	68.7	70.5	74.0	73.8	72.7	74.0	75.6	76.1	76.7	78.2	80.1	82.7
22	30	68.3	71.6	73.9	73.0	73.1	74.0	76.2	77.1	77.1	78.8	80.2	82.4
32	30	67.5	73.4	73.0	73.7	73.0	74.3	76.0	76.4	79.0	79.5	80.5	81.8
42	30	68.7	73.5	73.8	72.6	73.7	74.5	76.0	76.8	78.2	79.0	81.4	80.9
52	30	70.7	73.5	74.3	72.3	74.0	74.7	76.0	77.1	78.0	79.2	82.3	80.0

M. S.		One Scale Division = .00004 parts of the V. F.						VERTICAL FORCE.					
		63 ^h .	62 ^h .	56 ^h .	59 ^h .	62 ^h .	61 ^h .	61 ^h .	61 ^h .	56 ^h .	53 ^h .	62 ^h .	50 ^h .
7	30	63.5	62.6	56.8	59.1	62.0	61.5	61.7	61.1	56.3	53.3	62.0	50.9
17	30	70.3	60.6	54.9	60.6	61.6	62.2	61.5	57.6	58.4	56.8	60.6	50.1
27	30	73.5	61.8	55.1	62.8	60.2	64.7	59.5	61.8	61.3	63.9	61.4	52.0
37	30	75.4	58.4	58.0	62.2	62.0	65.3	64.7	57.2	59.3	58.0	59.4	55.5
47	30	70.4	57.0	54.1	61.8	61.9	65.6	64.6	57.0	59.0	57.8	56.6	58.1
57	30	64.4	57.9	53.3	60.6	62.1	64.3	61.7	58.0	56.5	60.4	51.2	59.4

Thermometer												
68.8	68.7	69.0	68.8	68.7	68.6	68.3	68.1	67.8	67.5	67.5	67.5	67.1

Thermometer												
68.6	68.6	68.6	68.5	68.6	68.2	68.1	67.9	67.8	67.5	67.4	67.4	67.2

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
22	10	0	29.839	60.2	57.1	N. by W.	Light Air.	0.3	Cum.-strat. ; dense N.W. ; moonlight.			
	11	0	29.835	60.4	57.2	N. by W.	Light Air.	0.9	Cum.-strat. and strat. ; dew.			
	12	0	29.836	60.3	57.2	N. W.	Light Air.	0.9	Cum.-strat. ; a few stars visible ; sea sounding.			
	13	0	29.823	59.9	57.1	N. W.	Light Air.	0.9	Cum.-strat. ; dark ; sea sounding.			
	14	0	29.806	60.0	56.8	N. W.	Light Air.	1.0	Cum.-strat. ; sea sounding.			
	15	0	29.805	59.8	56.6	N. W.	Light Air.	1.0	Cum.-strat. and cir.-strat.			
	16	0	29.807	59.2	56.0	N.	Light Air.	1.0	Cum. and cum.-strat.			
	17	0	29.807	59.6	56.2	N.	Light Air.	1.0	Dense cum.-strat.			
	18	0	29.803	60.8	56.8	N.	Light Air.	1.0	Dense cum.-strat.			
	19	0	29.804	60.8	56.8	N.	Light Air.	1.0	Cum.-strat.			
	20	0	29.795	63.1	58.2	N.	0.5	1.0	Cum.-strat.			
	21	0	29.798	64.2	58.7	N. N. W.	0.8	1.0	Cum.-strat.			

MAGNETICAL OBSERVATIONS. December 22nd and 23rd.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	42.0	40.9	41.0	40.6	41.2	42.1	43.0	44.0	44.1	44.1	44.8	44.9
5	0	41.4	40.6	41.1	40.9	41.2	42.3	43.0	44.1	44.1	44.1	45.0	44.6
10	0	41.4	40.6	41.3	40.9	41.4	42.2	43.1	44.1	44.1	44.1	45.0	44.6
15	0	41.0	40.9	40.9	41.0	41.4	42.2	43.1	44.0	44.1	44.0	45.0	44.8
20	0	40.7	40.8	40.5	41.0	41.4	42.2	43.3	44.0	44.2	44.0	45.0	44.9
25	0	40.7	40.2	40.2	41.1	41.9	42.4	43.3	44.1	44.3	44.0	45.1	45.0
30	0	40.9	40.5	40.2	41.2	41.9	42.4	43.3	44.1	44.4	44.0	45.1	45.1
35	0	40.6	40.1	40.5	42.2	41.9	42.6	43.4	44.1	44.3	44.0	45.1	45.2
40	0	40.6	40.2	40.3	41.2	41.9	42.4	43.6	44.0	44.2	44.2	45.2	45.2
45	0	40.3	40.4	40.1	41.1	42.0	42.7	43.8	44.0	44.2	44.5	45.2	45.2
50	0	40.9	41.0	40.2	41.1	42.0	42.9	43.9	44.0	44.2	44.6	45.2	45.0
55	0	40.9	41.1	40.6	41.0	42.0	42.9	43.9	44.0	44.2	44.8	45.0	45.0

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.											
2	0	79.0	77.1	75.6	72.8	72.7	72.3	72.0	72.9	72.2	71.8	72.2	73.6
12	0	78.7	77.0	75.5	72.5	72.6	72.7	72.3	72.9	72.1	71.8	72.2	74.1
22	0	78.1	77.0	74.4	72.8	72.7	72.4	72.0	72.8	72.0	71.9	72.2	73.8
32	0	79.1	77.0	73.9	72.7	72.7	72.0	72.0	72.9	72.1	71.9	72.5	73.8
42	0	78.2	76.7	73.0	72.5	72.6	72.0	72.4	72.6	71.5	72.0	72.5	73.4
52	0	78.0	76.8	72.9	72.7	72.2	72.2	72.7	72.4	71.7	72.2	72.8	73.2

Thermometer	66.9	66.9	67.2	67.2	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.											
7	30	62.9	69.8	65.4	62.3	55.3	56.0	53.4	51.8	59.4	58.5	56.2	59.9
17	30	64.6	70.0	67.5	60.5	54.3	53.4	52.6	52.5	57.0	58.9	56.2	55.0
27	30	64.6	72.1	67.6	57.9	53.3	53.4	53.2	53.4	57.1	60.5	55.5	54.5
37	30	63.5	72.3	66.1	58.8	53.1	53.7	53.5	54.0	57.1	59.5	56.2	55.3
47	30	65.8	71.3	66.6	59.1	52.7	54.0	52.9	55.7	58.3	58.3	56.4	56.7
57	30	65.9	66.3	64.6	58.6	53.8	54.2	52.6	56.6	58.5	56.8	57.5	59.2

Thermometer	67.0	66.9	66.9	67.2	67.4	67.4	67.5	67.5	67.6	67.5	67.8	67.7
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
22	22	0	29.794	65.5	59.5	N.	0.8	1.0	Cum. and cum.-strat.
	23	0	29.796	65.9	59.9	N. W. by N.	0.8	0.7	Cum. and cir.
23	0	0	29.782	67.2	60.4	N. W.	2.0	0.6	Cum. and cir.-cum.
	1	0	29.774	65.6	59.9	N. W.	2.0	0.8	.6 cum. and cum.-strat. ; .2 cir. and cir.-strat.
	2	0	29.767	65.4	60.0	N. W.	1.0	1.0	.6 cum. and cum.-strat. ; .4 cir. and cir.-strat.
	3	0	29.767	65.0	59.8	N. W.	—	0.9	.5 cum. and cum.-strat. ; .3 cir.-strat.
	4	0	29.733	64.0	59.4	N.	0.5	1.0	Cum.-strat.
	5	0	29.735	62.7	58.9	N.	—	1.0	Dense cum.-strat.
	6	0	29.739	62.3	59.1	N. by W.	0.5	1.0	Dense cum.-strat. ; gloomy.
	7	0	29.735	61.6	59.0	N. by W.	—	1.0	Dense cum.-strat. ; gloomy.
	8	0	29.761	61.1	59.4	N. W.	1.3	1.0	Nim. ; light rain.
	9	0	29.783	60.9	59.4	N. N. W.	—	1.0	Nim. ; light rain.

January 19th and 20th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.						DECLINATION.					
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		44.2	44.1	44.1	45.6	44.0	43.4	43.7	44.0	44.4	44.1	41.0	41.9
6	0		—	—	—	—	43.8	—	—	—	—	—	41.0	41.7
12	0		—	—	—	—	43.9	—	—	—	—	—	40.8	41.9
18	0		—	—	—	—	43.9	—	—	—	—	—	41.1	42.0
24	0		—	—	—	—	43.8	—	—	—	—	—	41.3	42.2
30	0		—	—	—	—	43.5	—	—	—	—	—	41.0	42.6
36	0		—	—	—	—	43.5	—	—	—	—	—	41.1	42.5
42	0		—	—	—	—	43.5	—	—	—	—	—	41.0	42.5
48	0		—	—	—	—	43.5	—	—	—	—	—	41.4	42.8
54	0		—	—	—	—	43.4	—	—	—	—	—	41.2	42.7

		One Scale Division = .00018 parts of the H. F.						HORIZONTAL FORCE.						
M.	S.													
2	0		67.3	66.8	69.8	71.2	71.0	71.0	71.2	72.8	74.5	75.7	76.4	75.4
8	0		—	—	—	—	71.0	—	—	—	—	—	75.9	75.2
14	0		—	—	—	—	71.0	—	—	—	—	—	76.4	75.4
20	0		—	—	—	—	71.0	—	—	—	—	—	76.1	75.0
26	0		—	—	—	—	71.0	—	—	—	—	—	76.0	75.2
32	0		—	—	—	—	71.0	—	—	—	—	—	76.0	75.1
38	0		—	—	—	—	70.9	—	—	—	—	—	75.7	75.0
44	0		—	—	—	—	71.0	—	—	—	—	—	75.9	75.2
50	0		—	—	—	—	70.8	—	—	—	—	—	75.7	75.0
56	0		—	—	—	—	70.7	—	—	—	—	—	75.5	75.2

Thermometer		72.2	71.8	71.7	71.6	71.7	71.6	71.3	70.9	70.7	70.2	69.9	70.0
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		One Scale Division = .00005 parts of the V. F.						VERTICAL FORCE.						
M.	S.													
4	0		46.8	47.5	46.1	46.4	47.6	46.3	48.0	46.8	49.3	49.7	44.4	41.3
10	0		—	—	—	—	44.7	—	—	—	—	—	44.1	41.0
16	0		—	—	—	—	44.9	—	—	—	—	—	43.1	41.1
22	0		—	—	—	—	44.9	—	—	—	—	—	41.9	40.6
28	0		—	—	—	—	45.9	—	—	—	—	—	41.3	40.4
34	0		—	—	—	—	45.7	—	—	—	—	—	40.4	40.4
40	0		—	—	—	—	46.2	—	—	—	—	—	41.2	40.2
46	0		—	—	—	—	46.0	—	—	—	—	—	40.5	40.4
52	0		—	—	—	—	46.5	—	—	—	—	—	40.4	40.6
58	0		—	—	—	—	46.3	—	—	—	—	—	41.0	40.9

Thermometer		71.8	71.8	71.7	71.6	71.5	71.4	71.0	70.6	70.4	70.2	70.0	70.0
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32'.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
19	10	0	29.818	65.4	62.9	N.	—	1.0	Cum.-strat. and cum.
	11	0	29.811	65.2	62.6	—	—	—	—
	12	0	29.803	64.6	62.0	N. W.	—	0.5	Cum.
	13	0	29.886	64.0	61.7	—	—	—	—
	14	0	29.773	63.0	60.9	N. W.	—	1.0	Cum.-strat.
	15	0	29.770	62.8	60.8	—	—	—	—
	16	0	29.763	61.6	59.8	N. W.	—	1.0	Dense cum.-strat.
	17	0	29.758	62.2	60.5	—	—	—	—
	18	0	29.748	62.5	60.9	N. N. W.	—	1.0	Cum.-strat. and cum.
	19	0	29.774	62.6	60.3	—	—	—	—
	20	0	29.780	64.3	62.6	Variable from S. E. to N. W.	—	1.0	Cum.-strat. and cum. ; showers.
	21	0	29.786	64.9	62.6	N. W.	—	1.0	Nim. and cum.-strat.

MAGNETICAL OBSERVATIONS. January 19th and 20th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'·751.											
M.	S.	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.
0	0	42·5	43·4	44·2	46·1	47·7	46·9	46·6	46·8	46·2	46·1	46·4	45·8
6	0	42·7	43·9	44·2	46·3	47·9	46·9	46·5	46·8	46·1	46·1	46·2	45·9
12	0	42·8	43·7	44·3	46·6	47·9	46·7	46·5	46·9	46·0	46·2	46·1	45·9
18	0	43·0	43·8	44·6	46·6	47·6	46·5	46·5	46·8	45·9	46·2	46·1	45·9
24	0	43·1	44·0	44·9	46·8	47·5	46·5	46·9	46·8	45·8	46·2	46·1	46·0
30	0	43·2	44·0	45·1	47·0	47·3	46·5	46·9	46·5	46·0	46·1	46·1	46·0
36	0	43·3	44·1	45·3	47·1	47·2	46·4	46·9	46·4	46·0	46·0	46·0	45·9
42	0	43·4	44·1	45·5	47·3	47·0	46·3	46·9	46·2	46·0	46·0	46·0	46·0
48	0	43·4	44·1	45·9	47·4	46·9	46·2	46·9	46·2	46·0	46·0	45·9	46·1
54	0	43·3	44·1	45·9	47·5	46·9	46·5	46·8	46·2	46·0	46·1	45·8	46·0

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = ·00029.											
2	0	75·0	73·5	70·5	69·6	70·6	72·7	73·5	73·2	72·9	72·0	71·8	71·8
8	0	74·9	73·1	70·1	69·8	71·0	72·9	73·3	73·2	72·6	72·0	71·5	71·9
14	0	74·9	73·0	69·9	69·8	71·1	73·0	73·2	73·2	72·5	72·2	71·7	71·7
20	0	74·9	72·2	69·6	69·8	71·5	73·0	73·4	73·2	72·3	73·0	71·7	71·8
26	0	74·8	72·3	69·4	69·8	71·7	73·0	73·3	73·1	72·6	73·2	71·7	71·9
32	0	74·7	72·1	69·6	69·8	72·0	73·0	73·4	73·0	72·3	73·0	71·7	71·9
38	0	74·2	72·0	69·8	70·0	72·0	73·1	73·2	73·0	72·1	72·0	71·4	71·9
44	0	74·3	71·6	69·5	70·0	72·2	73·1	73·2	73·0	72·0	72·0	71·4	71·8
50	0	74·0	71·1	69·6	70·0	72·4	73·1	73·2	73·0	72·0	72·0	71·2	71·7
56	0	73·3	71·1	69·6	70·3	72·5	73·2	73·2	72·9	72·0	72·0	71·8	71·5

Thermometer	70·0	70·2	70·5	70·7	70·8	70·9	71·0	70·9	70·7	70·7	70·6	70·2
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = ·00005.											
4	0	41·6	42·5	40·1	35·6	34·4	35·5	37·9	40·2	44·8	45·7	45·5	47·9
10	0	41·7	42·0	39·4	34·4	34·2	35·8	37·3	40·8	45·3	45·7	45·5	47·5
16	0	41·7	41·5	39·4	34·6	33·9	35·8	38·3	41·6	45·6	44·8	45·8	47·4
22	0	41·7	41·3	39·0	35·5	33·6	36·3	38·7	42·2	45·8	44·3	46·1	47·3
28	0	42·0	40·8	38·2	34·9	33·6	36·4	39·0	42·7	45·8	44·3	46·0	47·3
34	0	42·3	40·7	38·3	35·0	33·6	36·1	38·7	43·0	46·4	44·3	46·6	47·4
40	0	42·3	40·2	36·7	34·9	33·6	36·8	39·3	43·2	46·9	45·0	47·3	47·4
46	0	42·5	39·8	34·5	34·7	33·6	37·2	39·3	43·9	43·2	45·0	46·4	47·2
52	0	42·9	40·2	36·6	34·9	34·4	37·5	39·3	44·0	44·6	45·0	46·3	48·1
58	0	42·9	39·9	36·7	34·9	34·8	37·6	39·8	44·7	46·2	45·0	46·1	48·1

Thermometer	70·0	70·3	70·6	70·6	70·7	70·8	70·8	70·8	70·8	70·7	70·7	70·3
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
19	22	0	29·728	66·4	63·2	S. by E.	—	1·0	Nim. and cum.-strat.
	23	0	29·820	65·4	61·4	N. W.	—	0·7	·6 cum.-strat. ; ·1 nim. S.
20	0	0	29·815	68·0	63·6	N. W.	—	0·6	·4 cum. ; ·2 nim. S.W.
	1	0	29·837	68·0	61·1	N. W.	—	0·0	Clear.
	2	0	29·817	68·0	61·0	Variable S.	—	0·9	·8 cum.-strat. and cum. ; ·1 nim.
	3	0	29·825	68·2	60·2	N.	—	0·5	·2 cir. ; ·3 cum.-strat. and cum.
	4	0	29·838	67·8	59·8	S.	—	0·7	Cir. and cum.
	5	0	29·864	66·0	58·0	—	—	—	—
	6	0	29·879	64·2	57·2	S.	—	0·5	Cum.
	7	0	29·909	62·6	56·4	S. W.	—	0·7	·6 detached cum. ; ·7 nim. S.W.
	8	0	29·917	61·1	53·4	S. W.	—	0·4	·2 cum. ·2 cir. N.
	9	0	29·923	60·6	55·4	—	—	—	—

February 25th and 26th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.							DECLINATION.				
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		45.2	42.9	42.5	41.7	40.0	39.2	39.1	39.0	38.0	35.6	34.0	33.3
6	0		44.5	42.9	42.0	41.1	39.8	39.1	39.1	39.0	38.0	35.0	34.0	33.2
12	0		43.4	42.4	42.0	41.2	39.4	39.1	39.1	39.0	37.9	35.0	33.9	33.0
18	0		43.0	42.0	41.9	41.0	39.6	39.2	39.2	39.0	37.9	35.2	34.0	33.1
24	0		43.0	42.0	41.7	41.1	39.1	39.3	39.3	38.9	37.5	35.0	34.0	33.4
30	0		43.0	41.9	41.9	40.9	39.5	39.2	39.0	38.5	37.0	34.7	34.0	33.5
36	0		42.5	42.1	41.8	40.9	39.2	39.1	39.0	38.2	37.0	35.0	33.9	33.7
42	0		42.6	42.1	41.7	40.9	39.3	39.1	39.0	38.3	36.8	34.9	33.8	33.9
48	0		42.9	42.5	41.2	40.2	39.1	39.0	39.0	38.8	36.7	34.6	33.5	34.0
54	0		43.0	42.2	41.3	40.1	39.1	39.2	39.0	38.4	36.4	34.4	33.3	34.0

		One Scale Division = .00018 parts of the H. F.							HORIZONTAL FORCE.					
M.	S.													
2	0		76.1	76.1	77.8	78.2	78.1	80.0	77.8	77.0	77.7	78.5	76.5	74.4
8	0		75.6	76.4	77.8	78.0	78.8	79.3	77.8	77.0	77.7	78.5	76.7	74.1
14	0		75.3	76.0	77.4	78.3	78.0	79.3	77.8	77.0	77.7	78.2	76.0	73.9
20	0		75.2	76.2	77.1	78.7	78.0	79.6	77.8	77.0	77.9	77.9	75.5	73.1
26	0		75.3	75.8	77.1	78.7	78.9	79.6	77.5	77.1	78.1	77.7	75.0	72.5
32	0		75.5	75.3	78.0	78.8	79.0	79.0	77.6	77.2	78.3	77.5	74.8	72.0
38	0		75.9	76.8	78.0	78.9	79.0	78.8	77.4	77.0	78.4	76.7	75.0	71.7
44	0		76.0	76.2	77.9	78.8	80.0	78.3	77.4	77.1	78.2	76.3	74.9	71.2
50	0		77.1	77.2	77.1	78.8	79.7	78.0	77.1	77.1	78.1	76.3	75.0	71.0
56	0		76.0	77.1	78.1	78.7	79.8	77.8	77.0	77.4	78.2	76.5	74.8	70.4

Thermometer													
	°	69.4	69.4	69.4	69.4	69.1	69.0	68.9	68.9	68.7	68.4	68.3	68.4

		One Scale Division = .00011 parts of the V. F.							VERTICAL FORCE.					
M.	S.													
4	0		46.4	48.7	49.7	49.7	51.6	50.5	50.4	51.3	53.6	55.9	56.9	53.6
10	0		48.4	49.0	49.8	49.8	51.2	49.9	50.9	51.8	53.9	55.9	56.5	52.7
16	0		49.0	50.0	50.3	49.8	51.7	49.6	50.8	51.8	53.6	55.6	56.0	52.4
22	0		49.7	50.5	50.6	49.8	52.1	49.2	50.8	52.3	54.3	55.7	56.0	52.0
28	0		49.4	50.5	50.4	49.9	51.2	49.0 ^a	50.8	52.1	54.8	56.1	56.1	51.7
34	0		50.1	50.9	50.4	50.1	51.2	49.2	50.7	52.5	54.7	56.6	55.8	50.8
40	0		49.9	49.7	50.2	50.1	50.9	49.5	51.2	53.1	54.7	56.3	55.5	50.9
46	0		49.6	49.5	50.2	50.4	50.5	49.9	51.1	52.9	54.7	57.1	55.0	50.6
52	0		49.1	48.6	50.4	50.6	50.1	49.9	51.1	52.9	55.1	57.2	54.4	49.8
58	0		49.4	48.8	49.1	50.5	50.1	50.4	51.0	52.9	55.6	57.1	53.6	49.1

Thermometer													
	°	69.4	69.5	69.2	69.1	69.0	69.0	68.8	68.8	68.6	68.3	68.2	68.3

Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
25	10	0	30.078	66.3	58.6	S. by W.	Mod. Gale.	0.0	Clear.
	11	0	30.074	66.3	57.4	S. by W.	Mod. Gale.	0.0	Clear.
	12	0	30.072	66.0	58.0	S. by W.	Mod. Gale.	0.0	Clear.
	13	0	30.062	65.2	59.4	S. W.	Mod. Gale.	0.0	Clear.
	14	0	30.033	64.8	58.2	S. W.	Mod. Gale.	0.0	Clear.
	15	0	30.026	64.6	58.0	S. by W.	Mod. Gale.	0.0	Clear.
	16	0	30.020	64.2	57.9	S. S. W.	Mod. Gale.	—	Light haze round horizon.
	17	0	30.016	64.3	57.8	S. S. W.	Mod. Gale.	0.0	Clear.
	18	0	30.029	65.0	58.5	S. S. W.	Mod. Gale.	—	Cir.-haze round hor.; wind, strong gusts.
	19	0	30.028	66.2	59.2	S. S. W.	Mod. Gale.	—	Clear, except cir.-haze round hor.; wind, strong gusts.
	20	0	30.022	68.2	60.2	S. by W.	Mod. Gale.	—	Clear, except cir.-haze round hor.; wind, strong gusts.
	21	0	30.023	71.2	61.5	S. by W.	Mod. Gale.	—	Clear, except cir.-haze in hor.; strong gusts of wind.

^a Vibrating.

MAGNETICAL OBSERVATIONS. February 25th and 26th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'·751.											
M.	S.	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.
0	0	34·5	40·2	44·9	46·6	46·0	44·0	41·9	40·8	41·5	40·3	40·9	41·3
6	0	34·2	40·9	45·0	46·8	45·9	43·8	41·7	40·8	41·4	40·6	41·0	41·5
12	0	34·9	41·4	45·0	46·5	45·8	43·3	41·4	40·8	41·1	40·2	41·0	41·4
18	0	35·2	42·0	45·4	46·5	45·7	43·1	41·2	41·0	41·1	40·4	41·1	41·4
24	0	35·8	42·7	45·7	46·6	45·6	42·9	41·2	41·1	41·0	40·8	41·0	41·3
30	0	36·4	43·2	45·8	46·5	45·2	42·7	41·1	41·1	41·0	40·8	41·1	41·5
36	0	37·1	43·5	46·0	46·3	45·0	42·9	41·1	41·2	40·9	40·9	41·1	41·3
42	0	37·9	43·9	46·1	46·2	44·9	42·3	41·1	41·5	40·9	40·9	41·3	41·2
48	0	38·9	44·0	46·3	46·0	44·7	42·2	41·0	41·5	40·9	41·0	41·4	41·2
54	0	39·4	44·3	46·6	46·0	44·3	42·0	41·3	41·6	40·4	41·0	41·4	41·5

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah ^t . = ·00029.											
2	0	70·1	70·3	71·9	72·8	73·0	73·0	72·9	72·2	71·8	71·8	71·0	71·7
8	0	70·0	70·6	71·8	72·8	73·2	73·0	72·7	72·1	71·8	72·1	71·2	71·6
14	0	69·6	70·8	72·0	72·3	73·2	72·8	72·8	72·0	71·5	71·8	71·4	71·4
20	0	69·6	71·1	72·1	72·2	73·4	73·1	73·0	72·0	71·8	71·8	71·5	71·4
26	0	69·2	71·2	72·3	72·3	73·2	73·0	72·9	72·2	71·8	71·8	71·8	71·5
32	0	69·2	71·1	72·3	72·2	73·1	73·1	73·0	72·1	72·0	71·2	71·8	72·0
38	0	69·2	71·0	72·6	72·4	73·0	73·1	72·9	72·0	71·9	71·2	71·7	71·6
44	0	69·6	71·3	72·8	72·8	73·0	73·1	72·8	72·0	71·8	71·0	71·7	71·5
50	0	69·9	71·6	72·8	72·9	73·0	73·0	72·7	72·0	71·5	71·1	71·7	71·5
56	0	70·0	71·8	72·8	72·9	73·0	73·0	72·4	71·9	71·5	71·0	71·6	71·7

Thermometer	68·7	68·9	69·5	70·1	70·7	71·3	71·7	72·1	72·3	72·6	72·7	72·7
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah ^t . = 00005.											
4	0	48·6	37·1	34·7	37·4	42·8	47·9	49·9	48·9	45·9	44·8	44·8	43·8
10	0	47·6	36·4	35·0	38·0	43·5	48·5	49·8	48·7	45·9	44·6	44·3	44·0
16	0	47·0	35·7	35·3	38·7	43·8	48·9	49·8	48·3	45·6	44·6	44·1	44·4
22	0	47·2	35·3	35·3	39·5	44·1	49·0	49·8	47·6	45·5	44·3	44·1	44·4
28	0	43·9	34·9	35·5	40·0	44·8	49·2	49·6	47·1	45·5	44·3	44·1	44·4
34	0	42·4	34·7	35·6	40·4	45·4	49·2	49·3	47·1	45·7	44·3	44·1	44·4
40	0	41·0	34·9	35·6	40·9	46·0	49·2	49·1	46·6	44·7	44·4	43·7	44·8
46	0	39·6	35·1	35·9	41·3	46·7	49·2	49·1	46·5	44·7	44·4	44·0	45·1
52	0	38·4	34·9	36·2	41·8	47·1	49·2	49·1	46·1	45·1	44·3	43·4	45·1
58	0	37·9	35·2	36·7	42·4	47·7	49·3	48·7	45·9	45·3	44·5	43·8	45·1

Thermometer	68·6	68·9	69·6	69·8	70·5	70·8	71·3	71·6	71·8	72·0	72·0	72·1
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
25	22	0	29·995	74·0	62·5	S. W.	Mod. Gale.	—	Clear, except cir.-haze in hor. ; wind in strong gusts.
	23	0	29·985	77·0	63·2	S. by W.	Str. Breeze.	—	Clear, except cir.-haze in hor. ; wind moderating.
26	0	0	29·978	78·9	64·0	S. W.	Str. Breeze.	—	Clear, except cir.-haze in hor. ; wind moderating.
	1	0	29·959	78·8	64·6	S. by W.	Str. Breeze.	—	Clear, except cir.-haze in hor. ; wind moderating.
	2	0	29·936	78·6	64·4	S.	Str. Breeze.	—	Hazy round hor.
	3	0	29·916	77·8	65·0	S.	Str. Breeze.	—	Cir.-haze in hor.
	4	0	29·923	76·5	64·6	S.	Str. Breeze.	—	Cir.-haze in hor.
	5	0	29·916	75·6	63·9	S.	Str. Breeze.	—	Cir.-haze in hor.
	6	0	29·922	73·2	63·1	S.	Str. Breeze.	0·1	Cir.-haze in hor.
	7	0	29·922	72·2	62·7	S.	Str. Breeze.	—	Cir.-haze in hor.
	8	0	29·926	71·4	62·6	S.	Str. Breeze.	0·0	Clear.
	9	0	29·923	70·7	62·0	S.	Str. Breeze.	0·0	Clear.

March 23rd and 24th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		44.3	43.9	43.1	40.5	42.1	41.2	40.8	41.8	40.8	37.5	37.0	
6	0		44.8	43.8	43.0	39.3	42.2	41.2	40.8	42.0	40.3	37.0	37.0	
12	0		45.0	44.0	42.9	39.9	42.2	41.2	40.7	42.0	40.0	37.0	37.0	
18	0		44.9	44.1	43.1	40.0	42.0	41.2	40.7	41.8	39.9	38.0	37.5	
24	0		44.3	43.9	42.9	40.0	42.0	41.0	40.9	42.0	39.5	36.9	37.5	
30	0		44.0	43.2	42.9	40.0	42.3	40.8	41.0	41.5	39.3	37.6	37.2	
36	0		44.0	43.2	42.7	40.6	42.0	40.8	41.2	41.3	39.0	37.3	37.4	
42	0		44.2	43.1	42.8	40.0	42.0	40.5	41.3	41.1	38.1	37.2	37.6	
48	0		44.0	43.3	43.0	40.9	42.0	40.3	41.6	41.0	37.5	38.2	37.5	
54	0		44.1	43.1	42.5	42.0	41.6	40.8	41.6	40.9	38.4	37.7	37.6	

M. S.		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
		77.7	80.3	82.2	85.1	84.0	82.8	82.0	82.5	84.0	85.7	84.9	83.9
2	0	77.9	80.2	82.5	84.5	84.0	83.0	81.9	82.5	84.1	85.8	85.0	84.0
8	0	79.0	81.1	84.0	84.0	83.6	82.2	82.0	83.6	84.5	85.5	85.0	84.1
14	0	78.8	82.5	86.0	84.0	83.8	82.0	81.9	82.9	84.7	85.7	85.0	83.4
20	0	79.2	82.5	86.2	84.0	83.2	82.0	81.8	83.3	84.7	85.9	84.7	83.0
26	0	80.1	82.1	85.8	84.1	83.8	82.2	81.8	83.7	84.5	85.3	84.2	82.8
32	0	81.7	81.6	85.0	84.8	83.4	82.2	81.8	83.4	85.0	85.3	84.0	82.7
38	0	82.2	81.1	84.7	84.9	83.3	82.2	82.0	83.7	85.3	85.0	84.4	82.3
44	0	81.2	82.0	85.8	85.0	83.0	81.8	82.0	83.9	85.2	84.8	84.0	82.0
50	0	80.7	82.8	85.1	84.8	82.8	81.5	82.1	84.0	85.1	85.0	84.0	81.7

Thermometer		66.9	67.0	66.9	67.0	67.0	67.2	67.2	67.2	67.2	67.0	66.7	66.7
		°	°	°	°	°	°	°	°	°	°	°	°

M. S.		One Scale Division = .00011 parts of the V. F.					VERTICAL FORCE.						
		48.2	44.5	43.4	44.9	39.3	41.3	41.2	38.9	40.9	43.6	41.8	38.5
4	0	47.8	44.3	42.4	45.4	39.6	41.0	41.4	39.0	41.3	43.6	42.1	37.7
10	0	46.6	43.5	41.4	45.0	40.0	41.2	41.1	38.4	41.3	42.8	41.5	36.9
16	0	46.5	43.0	40.8	45.0	40.2	41.0	40.9	38.7	41.7	42.8	41.1	36.3
22	0	46.7	43.3	41.3	44.3	40.0	41.3	40.5	39.4	41.7	42.5	41.0	35.6
28	0	46.1	43.8	41.7	43.4	39.8	41.0	40.2	39.8	42.1	42.0	41.0	35.4
34	0	44.7	44.2	41.2	42.5	39.7	41.3	39.5	40.0	43.1	42.6	40.2	35.0
40	0	44.4	44.3	41.4	41.0	40.1	41.3	39.5	40.2	43.9	41.6	40.2	34.8
46	0	44.2	43.8	41.4	39.8	40.0	41.3	39.5	40.2	42.5	42.0	39.5	34.3
52	0	44.4	43.7	43.1	39.2	41.4	41.3	39.2	40.5	43.2	42.5	38.5	33.9

Thermometer		66.8	66.8	66.9	66.8	66.9	66.9	66.9	66.9	66.9	66.8	66.8	66.8
		°	°	°	°	°	°	°	°	°	°	°	°

Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
23	10	0	29.964	61.0	58.7	W. N. W.	Light Air.	1.0	Cir.-cum. and cir.-strat.			
	11	0	29.962	61.4	58.9	W. N. W.	Calm.	1.0	Nim.			
	12	0	29.950	61.3	59.4	N. W.	Light Air.	1.0	Nim.			
	13	0	29.946	61.4	59.5	N. W.	Light Air.	1.0	Heavy rain.			
	14	0	29.962	61.3	59.6	N. W.	Light Air.	1.0	Heavy rain.			
	15	0	29.970	61.3	59.6	N. W.	Light Air.	0.9	Nim.			
	16	0	29.984	60.7	59.1	N. W.	Light Air.	0.3	Cir.-strat. and nim.			
	17	0	30.012	60.5	58.8	N. W.	Light Air.	1.0	Cum.-strat., cum., and nim.			
	18	0	30.034	60.2	58.8	W.	Light Air.	0.9	Cum.-strat. and cum.			
	19	0	30.058	60.9	59.0	S. by W.	Light Air.	1.0	Cum.-strat. and cum.			
	20	0	30.070	63.0	58.8	S. by W.	Light Air.	0.7	Cum.			
	21	0	30.086 ^a	64.4	59.2	S. by W.	Light Air.	0.9	Cum.-strat. and cum.			

^a Mercury oscillating.

MAGNETICAL OBSERVATIONS.

March 23rd and 24th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	41.4	44.9	43.8	44.9	44.9	44.0	43.9	43.8	43.0	44.0	44.2	45.1
6	0	41.9	45.0	44.0	44.9	44.5	43.9	43.7	43.5	43.0	44.0	44.2	44.9
12	0	42.5	44.8	44.1	45.0	44.5	43.8	43.5	43.6	43.1	44.0	44.1	44.5
18	0	42.9	44.3	44.5	45.0	44.5	43.8	43.9	43.5	43.1	43.5	43.9	44.5
24	0	43.1	44.4	44.6	45.0	44.5	43.8	43.9	43.2	43.8	43.8	43.9	44.6
30	0	43.2	44.3	44.9	45.0	44.5	43.8	43.9	43.1	43.9	43.8	43.7	44.3
36	0	43.3	44.1	44.8	44.9	44.3	43.9	43.9	43.1	44.0	43.4	43.4	44.1
42	0	43.8	43.9	44.7	45.0	44.1	44.0	44.0	43.0	43.7	43.4	44.1	44.0
48	0	44.0	43.8	44.8	44.9	44.1	43.9	43.9	43.0	43.5	43.9	45.0	43.9
54	0	44.4	43.8	44.9	44.9	44.0	43.7	43.7	42.9	43.9	44.1	45.2	43.9

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00029.											
2	0	80.7	77.8	81.4	83.8	83.3	82.8	83.0	80.9	80.8	79.0	77.8	86.0
8	0	79.4	77.2	81.8	83.9	82.9	82.7	82.1	80.5	81.0	79.0	77.2	85.9
14	0	79.0	77.5	82.0	84.0	82.9	82.7	82.4	79.8	80.7	79.0	77.3	86.1
20	0	78.2	78.0	82.5	84.0	82.9	82.8	82.1	79.1	80.0	79.2	77.3	86.0
26	0	78.1	78.6	82.9	83.9	82.6	82.7	82.0	79.4	79.6	79.9	77.9	85.7
32	0	77.9	79.0	83.1	84.0	82.5	82.7	82.0	79.8	79.2	80.1	80.7	84.8
38	0	78.0	79.3	83.3	83.5	82.5	82.8	81.9	80.0	79.2	80.0	82.7	83.6
44	0	78.0	79.8	83.3	83.3	82.4	82.6	81.5	80.0	79.1	79.8	85.1	83.8
50	0	77.7	80.3	83.6	83.2	82.5	82.5	81.2	80.0	79.1	79.0	85.7	84.1
56	0	77.8	80.8	.7	83.2	82.4	82.5	81.0	80.2	79.2	78.8	86.1	83.3

Thermometer		66.7	66.7	66.8	66.9	67.1	67.0	67.0	66.7	66.7	66.6	66.4	66.3
		°	°	°	°	°	°	°	°	°	°	°	°

M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
4	0	33.9	33.9	34.9	34.1	34.5	36.4	37.7	40.4	40.9	41.0	42.4	35.4
10	0	34.4	34.5	34.4	33.8	34.7	36.4	38.2	40.8	40.9	41.1	42.4	35.8
16	0	34.4	35.3	34.0	33.6	35.0	36.8	38.0	41.3	40.9	41.3	43.3	36.0
22	0	34.6	35.3	33.7	33.6	35.1	36.8	38.3	42.0	40.6	41.5	43.6	35.9
28	0	34.6	35.0	33.7	33.6	35.1	37.0	38.5	42.3	40.6	41.0	43.2	36.5
34	0	34.7	35.2	33.7	33.6	35.3	36.9	38.5	42.0	40.9	41.0	42.2	36.4
40	0	35.0	35.2	33.7	33.9	35.5	36.9	38.7	41.8	40.9	41.3	39.1	38.6
46	0	34.8	35.2	33.9	34.1	35.7	37.3	39.1	41.6	41.2	41.0	36.4	39.3
52	0	34.8	35.4	33.7	34.3	35.7	37.5	39.5	41.4	41.2	40.8	35.0	39.5
58	0	34.1	35.1	33.7	34.3	36.2	37.9	40.0	41.3	40.9	41.8	34.8	39.7

Thermometer		66.8	66.8	66.9	67.0	67.1	67.1	67.0	66.8	66.8	66.7	66.7	66.4
		°	°	°	°	°	°	°	°	°	°	°	°

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
23	22	0	30.100	64.6	58.4	S.	Light Air.	0.9	Cum.
	23	0	30.094	65.0	58.1	S.	Light Air.	0.9	Cum.
24	0	0	30.090	65.1	57.7	S.	Light Air.	0.6	Cum.
	1	0	30.080	65.5	56.9	S.	Light Air.	0.4	Cum.
	2	0	30.097	65.4	57.0	S.	Mod. Breeze	0.4	Cum.; hazy.
	3	0	30.099	64.2	55.4	S. E.	Mod. Breeze	0.5	Detached cum.
	4	0	30.111	62.7	55.6	S. E.	Mod. Breeze	0.6	Cum.
	5	0	30.110	61.6	53.9	S. by E.	Mod. Breeze	—	A few cum. S. W.; dense strat. on horizon.
	6	0	30.106	59.1	52.7	S.	Mod. Breeze	—	Dense strat. and cum. on the horizon.
	7	0	30.108	58.6	52.2	S.	Mod. Breeze	—	Dense strat. on the horizon.
	8	0	30.112	58.7	52.8	S.	Mod. Breeze	—	Strat. on the horizon.
	9	0	30.121	58.3	53.6	S.	Mod. Breeze	0.0	Clear.

April 20th and 21st.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		42.9	42.9	42.9	43.7	43.5	41.1	43.8	45.7	43.9	42.9	41.1	39.6
6	0		42.9	42.9	42.7	43.5	43.3	42.0	45.5	45.7	44.0	42.5	40.6	39.6
12	0		43.0	42.9	42.5	43.9	43.0	42.6	47.0	45.5	44.0	42.0	40.0	40.0
18	0		42.9	42.7	42.3	45.0	43.0	43.0	48.0	45.1	44.0	41.9	40.0	40.0
24	0		42.9	42.8	42.4	44.1	43.0	43.4	48.0	45.0	43.9	41.9	40.0	40.0
30	0		42.9	43.0	42.3	44.0	43.1	43.0	47.7	44.7	44.0	42.2	40.5	40.0
36	0		43.0	43.0	42.3	44.1	43.1	42.0	47.2	44.5	44.0	42.0	41.0	40.1
42	0		43.1	43.0	42.7	44.8	42.6	41.5	46.8	44.4	43.9	42.1	40.0	40.0
48	0		43.0	42.9	43.2	44.7	41.5	41.3	46.4	44.0	44.0	42.0	39.7	40.2
54	0		43.0	42.8	44.0	44.0	41.2	42.0	46.0	44.0	43.3	41.8	40.0	40.2

			One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.													
2	0		75.5	76.1	78.0	77.8	82.1	83.0	75.4	79.2	79.7	81.8	81.0	80.7
8	0		75.5	76.3	78.3	78.0	82.7	83.5	75.4	78.9	80.0	82.3	81.2	81.0
14	0		75.5	76.2	79.0	78.8	83.7	82.1	75.9	78.6	80.0	83.0	80.9	81.0
20	0		75.4	76.0	79.3	82.7	82.6	81.3	76.7	78.6	79.9	83.4	80.4	81.0
26	0		77.0	76.5	79.8	83.0	82.5	81.6	77.6	78.7	79.8	83.7	80.2	81.1
32	0		77.1	77.0	79.6	83.4	82.6	80.0	78.0	78.6	79.5	84.0	80.2	81.3
38	0		77.1	77.2	79.3	83.1	82.8	79.2	78.7	78.8	79.5	83.3	79.8	81.5
44	0		76.9	77.3	78.7	82.8	83.0	78.0	79.1	78.9	79.5	83.0	79.4	81.5
50	0		76.4	77.5	77.8	82.8	83.1	77.1	79.3	79.1	79.0	82.2	80.2	81.5
56	0		76.2	77.7	77.9	82.4	83.0	76.0	79.3	79.2	80.7	81.5	80.3	82.0

Thermometer			70.4	70.4	70.2	69.8	69.7	69.8	69.8	69.7	69.7	69.5	69.2	69.2
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			One Scale Division = .00011 parts of the V. F.					VERTICAL FORCE.						
M.	S.													
4	0		49.9	49.5	48.4	47.7	45.7	49.3	50.9	48.8	49.7	51.8	55.2	54.0
10	0		50.5	49.4	47.9	46.7	46.3	47.0	49.3	49.2	49.5	52.5	56.5	53.4
16	0		49.7	49.5	48.2	43.8	45.2	47.2	47.5	49.7	49.2	51.7	56.0	53.0
22	0		49.9	49.6	48.3	43.8	46.1	46.8	46.4	50.0	49.5	52.0	55.6	53.2
28	0		49.4	49.1	48.0	43.5	46.1	47.0	46.6	50.2	49.4	51.9	54.8	53.2
34	0		48.3	48.7	48.1	43.0	45.9	50.9	46.7	50.2	50.2	51.7	53.7	52.7
40	0		47.9	48.4	47.8	43.0	46.4	52.5	46.6	50.8	51.1	51.8	55.4	52.2
46	0		48.1	48.7	47.5	43.4	48.2	53.5	45.8	50.1	51.4	51.8	55.4	52.0
52	0		48.2	48.7	47.4	44.8	49.3	54.3	47.2	50.6	51.7	53.0	55.4	51.8
58	0		49.1	48.5	47.3	44.8	49.7	52.9	48.0	50.3	51.8	54.0	54.9	50.9

Thermometer			70.1	70.0	69.9	69.7	69.5	69.5	69.4	69.5	69.6	69.5	69.1	69.0
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Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
20	10	0	30.029	61.5	60.0	N. W. by N.	Lt. Air.	1.0	Cum. and fog.
	11	0	30.028	61.2	59.8	N. W. by N.		1.0	Cum. and fog.
	12	0	30.030	62.6	60.4	N. W. by N.		1.0	Fog.
	13	0	30.025	62.3	60.2	N. W. by N.		1.0	Fog.
	14	0	30.019	61.7	60.2	N. W. by N.		1.0	Fog.
	15	0	30.015	60.7	59.4	N. W. by N.		1.0	Fog.
	16	0	30.021	60.5	59.4	N. W. by N.		1.0	Fog.
	17	0	30.022	60.7	59.4	N. W. by N.		1.0	Fog.
	18	0	30.028	59.5	59.2	N. W. by N.		1.0	Cum.-strat. and fog.
	19	0	30.034	61.1	59.8	N. W. by N.		1.0	Cum.-strat. and cum.
	20	0	30.043	62.3	60.6	W. by N.		1.0	Cum.-strat. and cum.
	21	0	30.055	64.0	61.5	N. W. by N.	0.1	Cum. to S. E.	

MAGNETICAL OBSERVATIONS.

April 20th and 21st.

Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0' 751.
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	40·0	41·3	43·3	43·7	42·5	42·7	40·0	41·0	41·8	42·6	42·8	43·1
6	0	40·2	41·0	43·1	43·7	42·8	42·5	40·0	40·5	41·7	42·8	42·7	43·0
12	0	40·8	41·0	43·5	43·4	42·7	42·4	40·0	40·0	41·6	42·9	42·3	43·0
18	0	40·9	41·7	43·1	43·2	42·8	42·3	40·2	40·5	41·8	42·9	42·3	42·6
24	0	40·7	42·2	43·3	43·0	42·8	42·1	41·0	41·2	41·9	43·0	42·5	42·8
30	0	40·8	42·4	43·4	43·0	43·1	42·2	41·5	41·7	42·0	42·9	42·2	43·0
36	0	40·6	42·7	43·2	43·0	43·1	41·8	41·9	41·7	42·1	42·6	42·0	43·0
42	0	40·8	43·0	43·4	43·0	43·1	41·0	42·0	41·9	42·1	42·3	42·5	42·9
48	0	41·0	43·0	43·5	43·0	43·0	40·1	41·6	42·0	42·5	42·6	43·0	42·5
54	0	41·1	43·1	43·8	42·9	42·8	40·0	41·1	41·9	42·6	42·7	43·0	42·4

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = ·00029.
		2	0	81·1	80·7	75·8	76·8	78·9	75·0	70·8	71·1	73·1	69·9
8	0	81·1	79·7	75·6	77·1	78·9	74·4	70·7	70·6	72·3	70·0	72·8	75·2
14	0	81·9	79·2	75·0	77·5	78·8	73·3	71·3	71·3	71·9	70·2	72·9	75·2
20	0	82·1	78·6	74·8	77·6	78·8	72·4	72·0	72·1	71·2	70·5	73·0	75·2
26	0	82·2	78·7	75·0	77·6	78·3	71·7	72·0	72·2	71·0	71·1	73·1	75·1
32	0	82·1	78·6	75·3	77·8	78·0	71·5	72·1	72·7	70·8	71·8	73·8	75·4
38	0	82·3	77·5	75·6	78·1	77·4	71·4	72·0	73·1	70·7	72·1	74·3	75·3
44	0	81·9	76·5	76·2	78·4	77·0	71·0	71·9	73·7	70·4	72·5	75·6	74·9
50	0	81·7	75·7	76·4	78·7	76·5	71·2	71·4	73·8	69·9	72·6	75·7	74·3
56	0	81·4	75·5	77·0	78·8	75·8	71·2	71·0	73·7	69·8	72·7	75·5	74·1

Thermometer		69·2	69·4	69·6	69·9	70·0	70·4	70·5	70·5	70·6	70·5	70·4	69·8
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = ·00005.
		4	0	50·7	47·0	48·4	49·1	49·4	52·3	58·7	55·2	50·8	53·1
10	0	50·3	47·3	48·8	49·1	49·4	52·8	58·5	56·2	51·7	52·8	50·6	48·3
16	0	49·9	47·2	49·4	48·9	49·2	53·6	56·8	55·5	52·1	52·4	50·7	49·2
22	0	49·5	47·0	50·2	49·2	49·2	54·8	56·4	53·7	52·4	52·0	50·7	49·4
28	0	49·6	47·0	49·8	49·3	49·0	55·5	55·3	52·4	52·7	51·6	51·2	49·1
34	0	49·3	46·2	49·9	49·3	49·0	56·2	54·5	51·9	52·8	51·6	51·2	48·8
40	0	48·2	47·1	50·0	49·2	49·3	57·4	53·6	52·5	53·0	51·4	50·1	49·1
46	0	47·9	47·3	49·4	48·8	50·0	58·6	54·2	50·7	52·9	50·9	48·1	50·4
52	0	47·2	48·1	49·4	48·9	50·7	58·8	54·4	50·4	53·1	50·8	47·5	50·4
58	0	46·1	48·1	48·8	49·2	51·9	58·3	54·5	50·5	53·4	50·6	47·5	50·6

Thermometer		69·0	69·3	69·5	69·7	69·9	70·1	70·1	70·1	70·5	70·3	70·1	69·9
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
20	22	0	30·046	65·7	61·2	W. N. W.	} Lt. Air.	0·3	Detached cum.-strat. S. and S. E.
	23	0	30·023	67·4	60·8	N. W.		—	A few cum.-strat.; S. and E.
21	0	0	29·994	68·9	61·3	W. N. W.		—	A few cum. near the horizon.
	1	0	29·971	71·0	62·2	W. N. W.		0·0	Clear.
	2	0	29·976	70·6	62·6	W. N. W.		—	A few cir.-strat. to N.W.
	3	0	29·977	69·5	61·6	W. N. W.		0·1	Cir.-strat. N.W.
	4	0	29·979	66·3	59·8	W. N. W.		0·5	Cir.; cir.-strat.; and cir.-cum. N. and W.
	5	0	29·979	64·6	58·8	W. N. W.		0·9	Small detached cum.
	6	0	29·971	63·4	57·9	W. N. W.		1·0	Detached cum.
	7	0	29·965	63·1	57·4	W. N. W.		0·9	Detached cum.
	8	0	29·948	62·5	57·4	W. N. W.	0·9	Detached cum.	
	9	0	29·930	62·9	57·9	W. N. W.	1·0	Cum.	

May 27th and 28th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		46.0	46.0	45.9	46.3	46.1	46.2	46.2	46.1	46.0	46.0	43.9	
6	0		46.0	46.0	46.0	46.3	46.1	46.6	46.2	46.1	46.0	45.9	43.4	
12	0		45.9	46.0	46.0	46.2	46.0	46.8	46.2	46.1	46.0	45.9	43.1	
18	0		45.9	46.0	46.0	46.2	46.0	46.2	46.1	46.1	46.0	45.7	43.1	
24	0		45.9	45.9	46.1	46.1	46.0	46.2	46.2	46.2	46.0	45.3	43.0	
30	0		45.9	45.9	46.2	46.2	45.9	46.1	46.2	46.3	46.0	45.2	42.9	
36	0		45.8	45.9	46.7	46.1	45.7	46.1	46.1	46.3	46.0	45.3	42.8	
42	0		45.8	46.0	46.8	46.2	45.8	46.0	46.1	46.1	46.0	45.0	42.2	
48	0		46.0	46.0	46.8	46.1	46.0	46.0	46.2	46.1	46.1	44.9	42.1	
54	0		46.0	45.9	46.3	46.2	46.1	46.0	46.1	46.1	46.0	44.2	41.8	

M. S.		One Scale Division = .00018 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 .	21 ^h .
2	0	94.9	95.0	94.0	95.8	95.0	94.7	95.7	95.5	96.0	96.1	97.1	97.3
8	0	94.8	95.0	94.1	95.5	95.0	95.0	95.6	95.6	96.0	96.1	97.1	97.4
14	0	94.8	94.8	94.1	95.7	95.0	95.2	95.4	95.4	96.0	96.3	97.3	97.4
20	0	95.0	94.8	94.0	95.7	95.1	95.6	95.2	95.9	96.0	96.5	97.5	97.3
26	0	94.9	94.8	94.2	95.8	95.0	95.8	95.3	96.0	96.0	96.7	97.5	97.3
32	0	94.8	94.7	94.9	95.7	95.0	95.8	95.5	96.0	96.0	96.6	97.3	97.3
38	0	94.7	94.7	95.2	95.4	94.8	95.8	95.8	96.0	96.0	96.4	97.3	97.1
44	0	95.0	94.6	95.3	95.2	94.8	95.8	95.8	96.0	96.0	96.6	97.2	97.0
50	0	95.3	94.2	95.7	95.1	94.6	95.8	95.7	96.0	96.0	96.7	97.1	97.0
56	0	95.2	94.0	95.7	95.0	94.7	95.8	95.7	96.0	96.0	97.0	97.2	97.0

Thermometer		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
		60.4	60.7	60.8	60.9	61.2	61.2	61.0	60.9	61.1	61.0	60.8	60.7

M. S.		One Scale Division = .00011 parts 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 .	21 ^h .
4	0	52.5	49.2	51.3	48.5	49.3	49.0	48.2	48.2	48.2	50.7	53.8	55.3
10	0	52.5	49.5	51.2	49.0	49.3	47.9	48.4	48.0	48.3	50.7	54.0	55.5
16	0	52.6	49.8	51.3	48.8	49.4	48.7	49.3	48.4	48.3	51.0	54.0	56.2
22	0	52.6	49.8	50.9	48.8	49.4	48.7	47.6	48.3	48.5	51.5	53.6	55.5
28	0	50.9	50.0	50.7	48.8	49.4	48.6	48.2	47.8	48.8	51.4	53.6	55.6
34	0	50.6	50.2	50.0	48.7	49.7	48.7	48.2	47.7	49.2	51.3	53.9	54.8
40	0	50.3	50.0	49.4	49.0	50.0	49.0	48.1	47.9	49.1	51.8	54.1	55.5
46	0	49.5	50.1	49.1	48.8	49.9	49.0	48.0	48.0	49.3	52.6	55.1	54.7
52	0	48.9	50.4	49.5	49.0	49.5	48.6	48.2	48.0	49.7	53.2	56.0	55.4
58	0	48.9	50.9	49.3	49.4	49.4	48.0	48.0	48.1	50.0	53.7	55.0	54.4

Thermometer		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
		60.3	60.9	61.1	61.2	61.3	61.3	61.3	61.3	61.6	61.6	61.4	61.1

Increasing Numbers denote increasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
27	10	0	30.264	55.7	54.1	N. W.		1.0	Dense cum.-strat. and cir.-strat.
	11	0	30.253	55.6	54.1	N. by W.		1.0	Dense cir.-cum. and cir.-strat.; light fog.
	12	0	30.253	54.2	52.0	N.		0.5	Cum. and cir.-strat.; dense cum.-strat. N. W.
	13	0	30.245	53.4	51.6	N.		0.9	Cum. and nim.; dense cir.-cum. to N. W.
	14	0	30.245	53.1	50.8	N. by E.		0.9	Dense cum.-strat. and cir.-cum.
	15	0	30.239	53.0	50.9	N. by W.		1.0	Dense cum.-strat. and nim.; raining.
	16	0	30.233	53.1	51.6	N.	Lt. Air.	1.0	Nim. and dense cum.-strat.; showers.
	17	0	30.229	52.9	51.4	N.		1.0	Cum. and cum.-strat.
	18	0	30.231	52.7	51.3	N.		1.0	Nim.; light rain.; mountains covered with clouds.
	19	0	30.245	52.9	51.5	N.		1.0	Nim.; rainbow to S.
	20	0	30.257	54.2	53.0	N. N. W.		1.0	Nim.; light rain.
	21	0	30.255	55.2	54.5	N.		1.0	Nim.; light rain.

MAGNETICAL OBSERVATIONS.													May 27th and 28th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	40.1	41.9	44.0	45.4	46.6	46.2	45.9	45.1	45.4	45.3	45.6	45.9	
6	0	40.3	42.2	44.2	45.2	46.5	46.2	45.5	45.0	45.4	45.3	45.6	45.9	
12	0	40.0	42.6	44.5	45.2	46.5	46.4	45.5	45.2	45.3	45.4	45.8	46.0	
18	0	40.5	43.0	45.0	45.2	46.3	46.2	45.2	45.3	45.3	45.5	45.9	46.0	
24	0	40.4	43.0	45.0	45.7	46.1	46.1	45.1	45.3	45.4	45.4	46.0	46.0	
30	0	40.9	43.0	45.0	45.9	46.2	46.1	44.9	45.2	45.5	45.4	45.9	46.0	
36	0	41.0	43.3	45.0	46.0	46.2	46.1	45.1	45.2	45.5	45.4	45.9	45.9	
42	0	41.2	43.3	45.0	46.1	46.2	46.1	45.0	45.1	45.3	45.3	45.9	45.9	
48	0	41.2	43.5	45.2	46.1	46.5	45.9	45.0	45.1	45.3	45.3	46.0	45.9	
54	0	41.3	43.6	45.3	46.2	46.4	45.8	45.0	45.2	45.4	45.6	45.9	45.9	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00028.	
		97.0	97.9	96.0	95.5	96.2	97.1	97.5	96.8	95.0	94.0	93.8	93.4	
2	0	97.2	97.8	96.2	95.8	96.1	97.2	97.1	96.2	94.7	94.1	93.9	93.4	
8	0	97.3	97.5	96.0	95.0	96.2	97.3	97.0	96.0	94.6	94.1	93.7	93.2	
14	0	97.6	97.3	96.4	95.0	96.2	97.7	97.2	95.8	94.6	94.1	93.7	93.1	
20	0	97.6	97.2	96.4	95.0	96.4	97.5	97.8	95.5	94.5	93.9	93.5	93.0	
26	0	97.8	96.9	96.2	95.2	96.7	97.8	97.2	95.2	94.3	94.0	93.3	93.2	
32	0	97.9	96.7	96.0	95.2	96.8	97.6	97.0	95.2	94.5	94.0	93.2	93.5	
38	0	98.1	96.4	95.8	95.5	97.0	97.7	96.8	95.1	94.4	94.0	93.5	93.4	
44	0	98.0	96.3	96.0	96.0	96.8	97.5	96.8	95.0	94.3	93.9	93.8	93.3	
50	0	98.0	96.2	95.7	96.0	96.8	97.6	96.7	94.9	94.2	93.8	93.6	93.2	

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = 0.0005.	
		53.8	46.8	43.2	42.3	45.4	49.4	49.6	50.1	50.5	50.3	49.1	48.7	
4	0	53.1	45.7	42.5	42.7	46.0	49.7	50.0	49.4	50.5	49.8	49.1	48.5	
10	0	51.8	45.7	42.3	43.0	46.6	49.3	50.6	49.4	50.5	49.7	49.2	48.6	
16	0	50.7	44.7	41.6	43.5	47.3	49.5	50.3	49.8	50.6	49.7	49.0	48.6	
22	0	50.1	44.7	41.5	44.2	47.8	49.7	50.2	50.2	50.5	49.7	49.0	48.6	
28	0	49.5	44.7	41.7	44.5	47.8	49.6	50.0	50.6	50.5	49.7	49.4	48.8	
34	0	49.1	44.3	41.9	44.5	48.3	49.8	50.2	50.8	50.5	49.7	49.4	48.6	
40	0	47.9	43.6	42.2	44.9	48.6	49.8	50.3	50.8	50.7	49.5	49.0	48.8	
46	0	48.1	43.8	42.1	44.9	48.9	50.0	50.4	50.7	50.5	49.3	48.8	48.7	
52	0	47.1	43.6	42.4	44.9	49.4	49.4	50.3	50.6	50.4	49.3	—	48.6	
58	0	60.9	61.0	61.1	61.2	61.3	61.3	61.6	61.8	62.0	62.2	62.2	62.3	

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
27	22	0	30.251	56.1	55.0	N. W. by N.	Lt. Air.	1.0	Nim.; misty.
	23	0	30.231	56.4	55.2	N. W. by N.		1.0	Nim.
28	0	0	30.207	57.4	55.8	W. N. W.		1.0	Nim.
	1	0	30.189	57.8	56.0	N. W.		0.9	Cum. and cum.-strat.
	2	0	30.177	58.5	56.0	N. N. W.		1.0	Nim. and cum.
	3	0	30.185	57.9	55.6	N. W. by W.		1.0	Cum.-strat. and detached cum.
	4	0	30.187	57.6	55.4	N. W. by N.		1.0	Cum.-strat. and cum. in detached masses.
	5	0	30.186	57.4	55.4	N. W.		1.0	Cum.-strat. and cum.
	6	0	30.191	56.6	55.0	N. W.		0.6	Cum.-strat. and cum.
	7	0	30.191	56.8	55.6	N. by W.		1.0	Cum.-strat. and cum.
	8	0	30.185	56.1	54.8	N.	1.0	Nim.	
	9	0	30.180	55.4	54.2	N.	0.5	Nim. and cum.-strat.	

June 22nd and 23rd.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.					DECLINATION.						
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	46.5	47.4	47.9	45.7	45.9	46.8	46.0	44.1	47.8	48.5	47.1	45.3
6	0	46.4	47.3	48.1	45.2	45.4	46.9	45.0	44.0	47.1	48.7	47.5	45.5
12	0	46.4	47.4	48.0	46.2	45.8	46.7	44.9	44.9	47.1	48.3	47.0	48.6
18	0	46.7	47.4	47.7	46.9	45.9	46.9	44.8	45.4	47.9	48.4	46.9	45.4
24	0	46.9	47.6	47.7	46.9	45.4	47.0	45.0	45.9	48.5	48.8	46.7	45.1
30	0	47.0	47.8	47.5	46.9	45.3	46.7	45.6	45.2	48.3	49.1	46.9	45.0
36	0	47.2	47.9	47.2	46.9	45.3	46.1	45.0	45.7	48.2	49.2	46.4	44.8
42	0	47.6	48.3	47.3	46.9	46.0	45.9	45.2	46.0	48.2	48.9	45.7	44.9
48	0	47.5	48.2	47.1	46.3	46.1	46.0	45.2	46.9	48.9	49.2	45.5	45.1
54	0	47.4	48.1	46.7	46.0	46.3	45.1	44.9	47.7	48.9	47.6	45.1	45.0

M. S.		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
2	0	94.0	93.2	94.5	95.9	93.8	92.3	93.4	92.1	92.8	93.4	94.1	93.9
8	0	94.1	93.2	95.1	93.8	93.0	93.1	93.8	92.0	92.6	93.4	94.1	93.2
14	0	94.5	93.6	95.1	93.6	92.9	92.7	93.7	91.6	92.8	93.7	94.1	93.3
20	0	94.3	93.9	95.3	93.6	92.6	92.5	93.3	91.0	92.4	94.8	94.5	93.6
26	0	94.2	94.0	95.9	93.8	93.0	93.8	93.7	91.5	92.0	94.8	94.6	93.8
32	0	94.2	94.0	96.1	94.1	92.9	93.5	92.8	91.9	91.9	94.3	94.1	93.9
38	0	94.1	94.1	96.0	93.9	92.3	93.3	93.4	92.0	92.0	94.1	94.0	94.2
44	0	94.2	95.6	96.6	94.3	92.2	94.0	92.9	92.6	92.2	94.2	93.3	94.1
50	0	93.4	95.1	97.0	94.2	92.2	94.2	92.3	92.5	92.5	94.0	93.5	94.1
56	0	93.5	95.2	97.4	94.0	92.0	93.1	92.7	92.7	93.0	93.7	93.9	94.3

Thermometer		62.9	62.7	62.7	62.6	62.5	62.5	62.4	62.1	62.1	61.9	61.6	61.4
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M. S.		One Scale Division = .00011 parts of the V. F.					VERTICAL FORCE.						
4	0	43.3	42.6	40.6	43.6	46.4	44.9	45.5	47.3	42.0	41.3	46.8	49.6
10	0	43.2	42.6	40.6	45.1	46.1	44.9	45.7	47.0	42.4	41.7	46.6	49.5
16	0	42.6	42.6	41.5	43.9	46.2	44.4	44.8	45.8	42.0	42.4	47.2	51.0
22	0	42.6	42.3	41.2	44.4	46.5	44.3	45.6	45.2	41.2	42.1	47.4	51.3
28	0	41.9	42.0	41.2	44.5	47.1	43.6	44.6	46.0	40.4	41.5	47.5	50.7
34	0	41.5	42.0	41.2	44.5	46.7	44.6	45.2	45.6	41.3	42.1	48.2	50.4
40	0	41.5	41.1	41.2	44.6	46.6	44.7	45.3	44.8	41.3	43.3	49.1	50.3
46	0	41.4	39.8	41.0	44.8	46.3	44.0	45.4	43.5	41.6	43.5	50.4	49.7
52	0	41.6	40.2	41.7	45.2	45.7	44.8	45.5	42.3	41.3	44.7	50.7	49.7
58	0	42.0	40.6	42.1	45.6	45.6	45.3	46.8	41.5	41.3	47.6	50.9	49.4

Thermometer		62.9	62.8	62.7	62.6	62.6	62.5	62.4	62.3	62.1	61.9	61.6	61.5
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
22	10	0	30.091	54.5	52.3	N. N. E.		1.0					Dense cir. and cir.-strat.
	11	0	30.080	54.5	52.4	N. E. by N.		1.0					Cir.-strat. and cum.; lunar halo.
	12	0	30.062	54.1	52.5	N. N. E.		0.7					Cir.-strat., cum.-strat., and cum.
	13	0	30.060	53.8	52.2	N. N. E.		1.0					Nim. and cum.-strat.; raining.
	14	0	30.051	53.5	51.7	N.		0.9					Cir.-strat., cum.-strat., and cum.
	15	0	30.045	53.6	51.6	S. S. W.		0.9					Cir.-cum. and cum.-strat.
	16	0	30.046	53.8	50.5	S. S. W.	Lt. Air.	0.9					Cir.-strat., cir.-cum., and cum.
	17	0	30.049	53.9	49.1	S. S. W.		0.9					Cir.-cum. and cum. blended.
	18	0	30.055	54.4	50.5	S. S. W.		0.5					Cir.-strat., cum., and nim.
	19	0	30.071	54.7	50.6	S. S. W.		0.6					Cir. and cum.-strat.
	20	0	30.080	56.1	52.1	S. S. W.		0.6					Nim., cum., and cum.-strat.
	21	0	30.084	56.9	52.5	S. S. W.		0.3					Cum.-strat. and cum.

MAGNETICAL OBSERVATIONS. June 22nd and 23rd.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	45.1	45.1	45.0	45.6	45.7	45.4	45.4	44.4	44.6	44.8	44.0	44.1
6	0	45.0	45.2	44.9	45.8	45.5	45.2	45.5	44.5	44.5	44.6	43.4	44.6
12	0	45.1	45.0	45.0	45.2	45.8	45.1	45.2	44.0	44.6	44.3	43.3	44.9
18	0	45.0	44.8	44.8	45.4	46.1	45.5	45.0	44.5	44.7	44.0	43.3	44.9
24	0	45.0	44.8	45.0	45.1	45.8	46.0	45.0	44.5	44.7	44.0	43.3	45.0
30	0	44.9	45.1	44.5	45.7	45.9	45.9	44.9	44.6	44.7	44.0	43.4	45.0
36	0	44.7	45.7	44.8	45.5	45.5	45.9	44.6	44.6	44.7	44.1	43.3	44.5
42	0	44.9	45.9	44.3	45.6	45.5	45.9	44.7	44.6	44.9	44.0	43.0	44.2
48	0	44.8	45.5	44.9	45.6	45.3	45.9	44.7	44.8	44.9	43.6	43.2	44.0
54	0	45.0	45.5	45.1	45.5	45.2	45.7	44.4	44.8	44.9	43.7	43.7	43.8

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00027.											
2	0	94.1	94.8	94.1	90.6	91.4	92.1	92.8	92.7	91.4	88.8	90.7	88.9
8	0	94.0	94.9	93.3	90.4	91.5	91.9	92.4	92.9	91.3	88.3	91.5	88.7
14	0	94.1	94.7	93.2	90.2	91.6	92.1	92.2	92.7	91.2	87.7	92.0	88.9
20	0	94.2	94.5	92.7	90.6	91.2	92.2	92.3	92.7	91.2	87.0	92.0	89.2
26	0	94.3	94.4	92.1	90.3	91.5	91.6	92.4	92.5	91.3	86.5	91.7	89.6
32	0	94.2	94.0	93.3	90.2	91.8	91.8	92.6	92.4	91.0	86.1	91.3	89.4
38	0	94.3	94.1	92.4	90.4	92.0	92.0	92.9	92.6	90.7	85.9	90.4	89.5
44	0	94.8	93.9	91.9	90.9	92.0	92.0	92.7	92.5	90.2	86.3	90.0	89.1
50	0	94.8	93.1	91.3	91.0	92.2	92.5	92.9	92.3	89.7	88.0	89.5	89.0
56	0	94.5	93.0	91.0	91.2	92.1	92.9	92.9	91.6	89.3	89.8	89.1	89.0

Thermometer		61.0	60.9	60.9	60.9	61.0	61.1	61.0	61.3	61.5	61.5	61.5	61.5
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
4	0	48.8	46.6	45.5	47.0	46.1	46.9	46.9	47.2	47.6	49.0	49.2	47.1
10	0	48.8	46.6	45.5	47.9	46.1	47.6	47.3	47.6	47.4	49.9	48.1	47.6
16	0	49.1	46.5	44.8	48.2	46.1	47.5	48.0	46.9	47.7	50.5	47.2	47.2
22	0	47.4	46.1	45.7	48.5	46.7	46.6	47.9	46.8	47.3	51.2	46.9	46.8
28	0	49.6	45.8	46.0	47.8	46.5	47.3	47.9	46.8	47.3	51.6	46.9	46.6
34	0	49.2	44.9	46.7	47.9	46.8	47.7	47.9	46.9	47.3	51.6	47.3	47.3
40	0	47.3	44.0	47.0	46.3	46.4	47.7	47.7	46.4	47.4	51.8	48.0	47.7
46	0	47.4	43.7	47.1	47.6	46.8	47.7	47.6	46.4	47.7	52.2	48.4	48.5
52	0	47.3	45.1	47.1	47.2	47.0	47.8	47.3	46.4	47.7	51.6	47.9	49.6
58	0	46.8	45.6	47.3	46.7	47.0	47.6	47.6	47.2	47.6	49.1	48.0	49.6

Thermometer		61.4	61.5	61.2	61.3	61.4	61.5	61.3	61.5	61.6	61.6	61.5	61.5
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
22	22	0	30.089	57.2	52.1	N. W. by N.		0.7	Nim., cum., and dense cum.-strat.
	23	0	30.067	57.8	52.6	N. W. by N.		0.1	Cum. and nim. on the horizon.
23	0	0	30.049	58.0	51.0	N. W.		0.6	Cum. and cum.-strat.
	1	0	30.041	58.3	51.9	N. W. by W.		0.6	Cir.-cum., cum.-strat., and cum.
	2	0	30.032	58.5	51.5	N. W. by W.		0.5	Cir.-cum., cum.-strat., and cum.
	3	0	30.032	58.0	51.1	N. W. by W.		0.7	Cir.-cum., cum.-strat., and cum.
	4	0	30.037	56.8	50.4	W. by N.	Lt. Air.	1.0	Nim. and cum.-strat.
	5	0	30.042	56.3	52.1	W. by N.		1.0	Nim. and cum.-strat.
	6	0	30.056	55.8	52.2	W. by N.		1.0	Nim.
	7	0	30.064	55.2	51.3	W. by N.		1.0	Nim. and cum.-strat. ; light rain.
	8	0	30.072	55.0	51.4	W. by N.		0.5	Nim., cir.-cum., cum., and cum.-strat.
	9	0	30.076	54.5	51.6	W. by N.		0.6	Nim., cum., and cum.-strat.

July 20th and 21st.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.											
			DECLINATION.											
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		44.7	45.9	45.9	48.9	47.1	46.0	46.4	46.0	46.2	46.9	45.9	45.0
6	0		45.0	45.2	45.9	49.1	47.1	45.9	46.5	46.1	46.3	47.0	45.8	45.0
12	0		45.2	45.0	45.9	48.9	47.0	45.7	46.3	46.0	46.6	46.9	45.8	45.0
18	0		45.9	44.9	45.9	48.2	46.9	45.9	46.4	46.1	46.8	46.8	45.3	44.9
24	0		46.1	44.9	46.0	48.0	46.5	46.2	46.3	46.1	46.9	46.4	45.2	44.9
30	0		46.6	45.0	46.1	47.9	46.3	46.4	46.1	46.1	47.0	46.3	45.5	45.0
36	0		46.9	45.1	46.9	47.9	46.2	46.4	46.0	46.0	47.0	46.1	45.2	45.0
42	0		46.7	45.5	47.1	47.9	46.2	46.4	46.1	46.0	47.0	46.1	45.0	45.0
48	0		46.4	45.9	47.8	47.8	46.2	46.5	46.1	46.1	47.0	46.0	45.0	45.0
54	0		46.0	45.9	48.1	47.2	46.0	46.5	46.0	46.1	46.9	46.0	45.0	45.0

			One Scale Division = .00018 parts of the H. F.											
			HORIZONTAL FORCE.											
M.	S.													
2	0		92.1	92.1	91.0	93.7	92.9	92.0	90.9	91.2	91.3	92.7	93.7	94.2
8	0		92.0	91.7	91.0	93.3	92.9	91.9	90.9	91.1	91.1	92.8	93.5	94.2
14	0		92.1	91.2	91.0	93.2	92.9	91.9	91.0	91.1	91.0	93.0	93.5	94.4
20	0		92.1	90.9	91.0	93.1	92.8	91.7	91.0	91.1	91.1	93.2	93.7	94.6
26	0		92.2	90.9	91.0	93.0	92.8	91.2	91.2	91.4	91.5	93.3	93.7	94.7
32	0		92.3	90.9	91.9	93.0	92.5	91.0	91.0	91.5	91.8	93.5	94.0	94.9
38	0		92.3	90.8	92.8	93.0	92.3	91.0	91.4	91.6	91.9	93.8	94.0	95.0
44	0		92.1	90.8	93.1	92.9	92.2	90.9	91.3	91.6	91.1	93.8	94.0	95.0
50	0		92.2	90.9	93.1	93.0	92.2	90.9	91.3	91.6	92.3	93.8	94.1	95.0
56	0		92.2	91.0	93.7	93.0	92.2	90.9	91.4	91.3	92.6	93.8	94.1	95.0

Thermometer			59.9	60.2	60.5	60.6	60.7	60.8	60.8	60.9	60.9	60.9	60.9	60.8

			One Scale Division = .00011 parts of the V. F.											
			VERTICAL FORCE.											
M.	S.													
4	0		65.1	63.5	63.4	57.4	61.0	62.7	61.5	61.2	60.8	60.4	62.3	64.9
10	0		64.2	64.2	63.4	57.9	61.0	62.8	61.6	61.4	60.8	60.4	63.0	64.0
16	0		63.5	65.1	63.5	58.7	61.3	62.5	61.3	61.5	60.8	60.7	63.0	64.8
22	0		62.9	65.6	63.3	59.4	61.8	61.8	61.1	61.3	60.9	60.9	63.3	64.8
28	0		62.6	65.4	63.0	59.7	62.2	62.0	61.1	61.3	60.1	60.9	63.4	64.7
34	0		62.0	64.7	62.1	59.8	62.1	61.7	61.6	61.3	60.3	61.0	63.3	64.5
40	0		61.9	64.3	61.0	60.1	61.8	61.8	61.2	61.1	60.3	61.5	64.3	64.5
46	0		62.0	63.9	59.9	60.1	61.9	61.7	61.0	61.4	60.2	61.9	64.8	64.5
52	0		62.5	63.5	59.2	60.5	62.0	61.4	61.4	60.6	60.2	62.3	64.8	64.0
58	0		63.1	63.3	58.1	60.6	62.1	61.3	61.4	60.6	60.5	62.3	64.8	64.0

Thermometer			59.8	60.4	60.6	60.8	60.8	60.8	61.0	61.0	61.0	60.9	61.0	60.9

Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
20	10	0	30.002	56.5	54.5	W.	Light Air.	1.0	Cum.
	11	0	30.010	58.0	55.5	W.	— ^a	1.0	Cum.
	12	0	30.025	60.1	55.3	W.	—	0.9	Cum.
	13	0	30.035	60.1	55.0	W.	—	0.9	Cum.
	14	0	30.035	58.5	54.6	N. W.	—	0.4	Cir.-cum. S. and N. W.
	15	0	30.045	56.8	54.6	W. N. W.	—	1.0	Cir.-strat. and cum.-strat.
	16	0	30.057	56.6	54.7	W.	—	1.0	Cum.-strat.
	17	0	30.061	56.5	55.1	N. W.	—	1.0	Nim. ; sky densely overcast ; beginning to rain.
	18	0	30.073	55.6	53.8	N. by E.	—	1.0	Cum.-strat. and cum.
	19	0	30.083	55.8	54.0	N.	—	1.0	Cum.-strat. and cum.
	20	0	30.091	56.3	54.6	N.	Str. Gusts.	1.0	Cum.-strat. and cum.
	21	0	30.095	57.8	55.9	N.	—	1.0	Cum.-strat. and cum.

^a Anemometer out of order.

MAGNETICAL OBSERVATIONS.														July 20th and 21st.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.		
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	45.0	45.0	47.0	46.6	46.9	46.1	46.2	45.1	45.2	45.7	45.8	46.1		
6	0	45.0	45.2	46.9	46.7	46.9	46.0	46.1	45.0	45.1	45.7	45.5	46.1		
12	0	45.0	45.5	46.9	46.9	46.3	46.0	46.0	45.0	45.3	45.8	45.4	46.2		
18	0	45.0	45.8	47.0	46.9	46.2	46.0	45.8	45.1	45.3	45.9	45.5	46.2		
24	0	45.0	45.9	47.0	46.9	46.2	46.1	45.7	45.2	45.4	45.8	45.8	46.2		
30	0	45.0	46.0	47.0	46.9	46.1	46.2	45.8	45.1	45.5	45.9	45.9	46.2		
36	0	45.0	46.1	47.0	46.9	46.1	46.2	45.2	45.2	45.5	45.7	46.0	46.2		
42	0	45.0	46.3	47.0	46.9	46.0	46.2	45.1	45.3	45.5	45.6	46.0	46.2		
48	0	45.0	46.7	46.9	46.9	46.1	46.1	45.1	45.3	45.5	45.7	46.0	46.2		
54	0	45.0	47.0	46.8	47.0	46.1	46.1	45.1	45.1	45.5	45.7	46.0	46.2		

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
		95.0	94.3	94.8	93.4	91.8	90.9	91.6	91.2	90.3	90.1	89.8	89.5	
2	0	95.0	94.3	94.8	93.4	91.8	90.9	91.6	91.2	90.3	90.1	89.8	89.5	
8	0	95.1	94.3	94.2	93.1	91.9	91.0	91.5	91.0	90.4	90.0	89.9	89.4	
14	0	95.1	94.7	94.3	93.0	91.4	91.0	91.5	90.9	90.3	89.7	90.0	89.5	
20	0	95.1	94.8	94.2	92.7	91.2	91.3	91.7	90.9	90.1	89.6	90.0	89.7	
26	0	95.1	94.7	94.0	92.3	91.1	91.7	91.9	90.8	89.9	89.5	90.0	89.8	
32	0	95.0	94.8	93.8	92.1	91.0	91.7	91.9	90.8	89.9	89.3	89.9	89.6	
38	0	94.9	94.6	93.7	92.0	91.1	91.6	91.6	90.8	90.0	89.3	89.8	89.6	
44	0	94.7	94.5	93.7	91.9	91.0	91.6	91.3	90.6	90.1	89.3	89.7	89.6	
50	0	94.5	94.5	93.7	91.8	91.0	91.6	91.3	90.3	90.3	89.5	89.6	89.7	
56	0	94.3	94.8	93.5	91.8	90.9	91.5	91.2	90.2	90.2	89.7	89.6	89.9	

Thermometer	60.7	60.6	60.6	60.6	60.7	60.7	60.8	61.0	61.4	61.5	61.7	61.7
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		63.9	62.2	60.2	62.5	63.0	63.6	63.2	63.4	63.3	62.3	62.5	61.5	
4	0	63.9	62.2	60.2	62.5	63.0	63.6	63.2	63.4	63.3	62.3	62.5	61.5	
10	0	63.6	61.8	60.8	62.9	63.2	63.8	63.4	63.6	63.3	62.4	62.7	61.3	
16	0	63.6	61.4	60.7	62.9	63.6	63.8	63.4	63.1	62.8	62.4	62.3	61.3	
22	0	63.4	61.4	60.8	62.3	63.7	63.3	63.0	63.1	62.8	62.5	61.8	61.2	
28	0	63.2	61.0	61.2	63.1	64.1	63.0	62.9	63.0	63.4	62.4	61.4	61.2	
34	0	63.2	61.0	61.6	62.7	64.1	63.0	62.9	63.0	63.1	63.0	61.4	61.3	
40	0	62.5	60.5	61.8	62.5	64.0	62.9	63.0	63.0	63.0	63.0	61.4	61.3	
46	0	62.5	60.3	62.1	62.5	63.7	63.1	63.2	63.0	62.8	63.0	61.5	61.1	
52	0	62.5	60.0	62.1	62.7	63.5	63.3	63.3	63.4	62.3	62.7	61.4	61.4	
58	0	62.2	59.9	62.1	62.7	63.5	63.6	63.3	63.6	62.2	62.5	61.7	61.4	

Thermometer	60.7	60.7	60.7	60.7	60.9	61.0	61.0	61.4	61.4	61.6	61.6	61.7
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
20	22	0	30.095	58.7	57.2	N.	— ^a	1.0	Cum.-strat. and cum.
	23	0	30.095	58.7	56.7	N.	—	1.0	Cum.-strat. and cum.
21	0	0	30.077	58.8	56.6	N.	—	1.0	Cum.-strat. and cum.
	1	0	30.063	59.1	57.2	N.	—	1.0	Cum.-strat. and cum.
	2	0	30.059	59.0	57.2	N.	—	1.0	Cum.-strat. and cum.
	3	0	30.059	59.2	57.3	N. W.	—	1.0	Cum.-strat. and cum.
	4	0	30.077	59.0	57.2	N. W.	—	1.0	Dense cum.-strat.
	5	0	30.078	58.8	57.1	N. W.	—	1.0	Nim. and cum.-strat.
	6	0	30.088	58.2	56.6	N. W.	—	1.0	Cum.-strat. and cir.-strat.
	7	0	30.097	58.0	57.4	W. N. W.	—	1.0	Nim. and cum.-strat.
	8	0	30.101	57.6	56.3	N.	—	1.0	Cum.-strat. and cum.
	9	0	30.105	57.6	56.2	N. by W.	—	1.0	Cum.-strat. and cum.

^a Anemometer out of order.

August 26th and 27th.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.						DECLINATION.					
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	45.0	46.0	47.9	46.8	46.1	48.2	47.1	47.0	48.0	49.8	48.4	45.6
6	0	44.9	45.9	47.9	47.0	46.2	48.7	47.0	47.1	48.1	50.0	48.1	45.1
12	0	45.0	46.0	47.5	47.2	46.5	48.6	47.0	47.0	48.6	50.0	47.8	45.0
18	0	45.9	46.0	47.0	47.2	46.5	48.2	46.9	47.2	48.6	50.1	47.3	44.7
24	0	46.2	46.3	47.1	47.0	46.9	48.2	46.9	47.2	48.8	50.2	47.0	44.3
30	0	46.2	47.1	46.9	47.0	46.9	48.2	46.9	47.5	49.0	50.2	46.9	44.2
36	0	46.4	48.0	46.4	47.0	47.2	48.1	47.0	47.6	49.0	50.3	46.4	44.1
42	0	46.4	48.8	46.5	46.9	47.9	48.0	47.0	47.6	49.0	50.0	46.4	44.0
48	0	46.1	48.5	46.7	46.6	48.0	47.8	47.0	47.8	49.9	49.4	46.1	44.0
54	0	46.0	48.2	46.6	46.1	48.0	47.2	47.0	48.0	49.7	49.0	46.0	44.0

		One Scale Division = .00018 parts of the H. F.						HORIZONTAL FORCE.					
M.	S.	93.0	93.4	96.2	93.0	94.8	96.0	94.8	94.1	95.0	94.5	96.0	95.2
2	0	92.7	93.2	95.9	92.9	94.6	94.0	94.3	94.7	94.8	94.3	96.0	95.1
8	0	93.5	93.3	96.1	93.1	94.1	94.6	94.6	94.8	94.7	94.2	96.3	95.2
14	0	94.6	94.0	95.5	93.5	93.8	94.9	94.1	94.8	94.6	94.3	96.3	95.0
20	0	94.2	94.6	95.0	93.9	93.7	95.1	94.1	94.8	94.6	94.8	96.3	95.0
26	0	94.1	95.7	94.2	93.7	93.6	95.1	94.0	95.0	94.6	94.9	96.2	94.9
32	0	94.1	96.5	94.0	93.9	93.2	95.0	94.0	95.0	94.7	95.3	96.0	94.6
38	0	93.9	96.5	93.7	94.4	93.0	95.0	94.1	94.8	94.7	95.6	95.9	94.6
44	0	93.1	96.2	93.2	94.7	93.2	94.8	94.1	94.8	94.6	95.7	95.7	94.6
50	0	92.9	96.2	93.1	94.7	93.8	94.4	94.0	95.0	94.6	95.8	95.6	94.4

Thermometer	59.3	59.7	59.8	59.9	60.0	60.5	60.5	60.5	60.2	60.0	59.8	59.7
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		One Scale Division = .00011 parts of the V. F.						VERTICAL FORCE.					
M.	S.	70.2	69.3	65.4	68.6	68.3	66.5	67.1	67.1	64.7	66.2	70.0	72.5
4	0	70.2	69.3	66.1	68.8	68.3	66.5	67.5	67.1	64.8	67.7	70.2	72.9
10	0	69.7	69.0	66.4	68.6	68.3	66.5	67.7	67.1	65.3	68.2	70.6	72.9
16	0	68.5	68.5	67.2	68.6	68.3	66.3	68.0	66.9	65.4	68.2	70.5	73.4
22	0	67.9	67.6	67.2	68.6	68.5	66.1	68.0	66.6	65.4	68.3	71.1	73.4
28	0	68.2	66.3	68.3	68.6	68.3	66.0	68.0	65.9	65.8	68.6	71.5	73.4
34	0	68.1	64.4	68.7	68.6	67.9	66.1	68.0	65.4	65.8	69.1	71.5	73.5
40	0	68.1	64.4	68.7	68.3	67.9	66.6	67.7	65.4	65.8	69.4	71.5	73.6
46	0	68.6	4.7	68.6	68.5	67.7	67.0	67.7	65.1	66.1	69.8	71.5	73.2
52	0	69.0	5.0	68.6	68.6	67.2	67.3	67.5	64.9	66.7	69.8	71.7	73.2

Thermometer	59.3	59.6	59.8	59.8	59.9	60.1	60.2	60.3	60.0	59.9	59.9	59.8
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
26	10	0	29.798	55.8	54.6	N. W. by N.	4.0	1.0	Nim. light rain ; occasionally heavy showers.
	11	0	29.799	56.1	54.7	N. N. W.	—	1.0	Nim. and cum.-strat.; showers.
	12	0	29.801	55.9	54.7	N. N. W.	2.0	1.0	.2 nim. and .8 cum.-strat.
	13	0	29.793	55.7	54.4	N. W.	—	1.0	Nim. and cum.-strat.; showery.
	14	0	29.777	55.8	54.6	N. W. by N.	2.0	0.9	Dense cum.-strat. and cum. in large masses.
	15	0	29.772	55.3	53.5	N. W.	—	1.0	Cum. and cum.-strat.
	16	0	29.773	55.7	53.8	N. W.	2.0	0.7	Cum. and cum.-strat. in large masses.
	17	0	29.783	55.8	53.8	N. W.	—	0.9	Cum.-strat.
	18	0	29.795	55.6	54.2	N. W.	2.0	1.0	Nim. and cum.-strat. ; heavy rain.
	19	0	29.800	55.6	54.3	N. by W.	—	0.9	.2 nim. to E. and W. .5 cum. and cum.-strat.
	20	0	29.795	56.7	55.0	N.	2.5	0.7	.5 cum.-strat. on horizon ; .2 cum. and cir.-cum. zenith.
	21	0	29.803	57.7	56.0	N.	—	0.9	Nim. and dense cum.-strat.

NOTE.—On 27th, at 16^h 40^m, a violent storm of lightning and thunder. The following instruments were recorded :—Dec. 47.0, Hor. F. 95.1, Vert. F. 69.2, Barometer 29.650. Mercury in the tube oscillating violently.

MAGNETICAL OBSERVATIONS. August 26th and 27th.

Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	43.8	43.1	43.8	46.0	46.0	47.0	47.0	46.0	46.0	46.1	46.1	46.1	
6	0	43.2	43.1	43.6	46.4	46.0	47.0	47.0	45.9	46.0	46.1	46.1	46.1	
12	0	43.2	43.3	43.9	46.3	46.0	47.0	47.0	46.0	46.0	46.2	46.1	46.1	
18	0	43.1	43.4	44.1	46.3	46.1	47.0	47.0	46.0	46.1	46.2	46.1	46.1	
24	0	43.0	43.5	44.6	46.2	46.2	47.0	46.9	46.0	46.2	46.2	46.1	46.1	
30	0	43.0	43.5	45.0	46.0	46.1	47.0	46.6	45.9	46.2	46.2	46.1	46.6	
36	0	42.9	43.5	45.1	46.0	46.2	47.0	46.5	45.9	46.3	46.1	46.1	46.6	
42	0	42.9	43.6	45.4	46.1	46.4	47.0	46.4	46.0	46.3	46.1	46.0	46.5	
48	0	42.9	43.7	45.7	46.1	46.5	47.0	46.2	46.0	46.3	46.1	46.1	46.5	
54	0	43.0	43.8	45.9	46.0	47.0	47.0	46.0	46.0	46.2	46.2	46.2	46.3	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
		2	0	94.4	95.1	93.1	92.5	91.9	93.3	94.2	94.1	93.7	93.4	92.2
8	0	94.3	95.2	92.9	92.1	92.0	93.2	94.6	93.9	93.2	93.3	92.1	91.7	
14	0	94.3	95.1	92.8	91.9	92.0	93.5	94.9	93.8	93.1	93.2	91.9	92.1	
20	0	95.0	94.8	92.6	92.0	92.2	93.6	95.0	93.5	93.5	92.9	91.9	92.0	
26	0	94.8	94.5	92.4	91.8	92.5	93.9	95.0	93.3	93.8	93.1	91.9	91.7	
32	0	95.1	94.4	92.2	91.7	92.8	93.8	94.8	93.3	93.8	93.2	92.0	92.8	
38	0	95.1	94.3	92.0	91.8	93.0	93.7	94.8	93.3	93.4	93.0	92.0	92.9	
44	0	95.1	94.2	91.9	91.7	93.0	93.5	94.6	93.5	93.7	93.1	91.9	93.0	
50	0	95.1	94.2	92.2	91.7	93.4	93.4	94.6	93.3	93.8	92.6	92.0	92.9	
56	0	95.1	93.7	92.4	91.9	93.1	93.8	94.5	93.6	93.7	92.6	91.9	92.5	

Thermometer	59.8	60.0	60.0	60.3	60.2	60.5	60.6	60.7	61.0	61.0	60.9	60.8
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		4	0	73.0	69.3	67.6	66.2	66.9	66.1	66.5	67.5	67.4	67.4	67.4
10	0	73.0	69.1	67.6	66.5	67.1	66.1	66.4	68.1	67.5	67.5	67.5	67.7	
16	0	72.8	69.1	67.9	66.5	67.1	66.1	66.3	68.1	67.4	67.4	67.6	67.4	
22	0	72.5	68.3	67.1	66.5	67.1	66.1	66.4	68.1	67.2	67.2	67.8	67.6	
28	0	72.0	68.3	67.3	66.5	67.0	66.1	66.6	68.1	67.1	67.1	67.8	67.7	
34	0	71.3	68.1	67.7	66.4	67.0	65.9	66.8	68.0	67.1	67.1	68.2	67.1	
40	0	71.0	68.1	67.7	66.4	66.5	65.9	67.0	67.9	66.9	66.9	68.2	67.1	
46	0	71.0	67.7	67.7	66.4	66.5	66.4	67.0	67.7	67.0	66.9	66.9	66.5	
52	0	71.2	67.1	67.7	66.6	66.5	66.7	67.0	67.7	67.0	66.9	67.6	66.7	
58	0	70.2	67.1	67.0	66.6	66.1	66.7	67.2	67.4	66.6	67.3	67.6	67.3	

Thermometer	59.9	60.2	60.2	60.4	60.6	60.6	60.7	60.8	60.9	60.9	60.8	60.8
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
26	22	0	29.806 ^a	57.8	56.2	N. N. W.	5.0	1.0	Nim. ; light rain.
	23	0	29.794 ^a	57.9	56.2	N. W.	—	0.7	Cum. and cum.-strat ; showery.
27	0	0	29.786 ^a	58.0	56.3	N. W.	5.0	1.0	Nim. ; heavy squalls.
	1	0	29.771 ^a	59.0	57.2	N. N. W.	—	0.6	.3 cir. and cir.-cum.; .2 cum.; .1 dense cum.-strat.
	2	0	29.777 ^a	58.0	55.2	N. N. W.	5.0	1.0	Nim. and dense cum.-strat. ; squally.
	3	0	29.777 ^a	57.2	54.8	N. N. W.	—	1.0	Dense cum.-strat., nim. to S. W.
	4	0	29.769 ^a	56.6	54.2	N. N. W.	5.0	1.0	Dense cir.-strat. and cum.-strat. ; stormy.
	5	0	29.759 ^a	56.5	54.0	N. N. W.	—	1.0	Dense cir.-strat. and cum.-strat. ; stormy.
	6	0	29.760	56.5	53.7	N. N. W.	5.0	1.0	Dense cir.-strat. and cum.-strat. ; stormy.
	7	0	29.754	56.2	53.5	N. N. W.	—	1.0	Dense cir.-strat. and cum.-strat. ; stormy.
	8	0	29.734 ^a	56.0	53.5	N. N. W.	5.0	1.0	Dense cir.-strat. and cum.-strat. ; stormy.
	9	0	29.718 ^a	55.9	53.5	N. N. W.	—	1.0	Dense cir.-strat. and cum.-strat. ; stormy.

^a Mercury oscillating ; at noon oscillating violently.

September 21st and 22nd.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.					DECLINATION.						
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	44.8	44.1	45.1	46.8	48.0	46.4	46.2	47.0	48.2	46.4	43.4	40.8
6	0	44.3	44.2	45.0	47.2	47.9	46.4	46.5	47.0	48.0	46.2	43.4	40.4
12	0	44.1	44.4	45.1	49.1	47.8	46.6	46.2	47.0	47.5	45.9	42.9	40.1
18	0	43.8	44.9	45.5	50.8	47.1	46.2	46.0	47.2	47.3	45.9	42.7	39.9
24	0	44.1	44.9	45.8	51.2	47.0	46.0	46.1	47.0	47.0	45.4	42.5	39.3
30	0	44.2	44.8	46.0	51.0	47.0	46.0	46.1	47.0	47.0	45.2	42.2	39.1
36	0	44.3	44.7	46.0	50.4	47.2	46.0	46.1	47.8	46.8	44.8	41.9	38.9
42	0	44.2	45.4	46.0	49.9	47.0	46.0	46.2	48.2	46.9	44.5	41.4	38.8
48	0	44.3	45.7	47.1	49.0	46.8	46.0	46.3	48.7	47.0	44.2	41.3	38.8
54	0	44.1	45.8	47.2	48.2	46.6	46.0	46.7	48.3	46.9	44.0	41.0	38.4

M. S.		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
2	0	94.1	95.0	92.8	97.4	97.0	94.2	94.1	93.6	92.9	95.2	97.4	97.0
8	0	93.6	94.7	92.8	100.0	96.2	94.0	94.3	93.6	92.9	95.7	97.6	96.7
14	0	93.0	94.2	93.0	101.8	95.9	94.1	94.1	93.7	93.3	95.5	97.8	96.7
20	0	93.3	94.2	93.3	102.6	95.5	94.0	94.0	93.5	93.5	95.8	97.8	96.5
26	0	93.9	93.7	93.3	102.4	95.2	93.9	94.1	93.2	93.5	96.0	97.8	96.5
32	0	94.3	93.2	93.8	101.7	95.0	93.9	93.9	93.0	93.8	96.3	97.8	96.9
38	0	94.9	93.0	93.8	100.8	95.0	94.0	93.7	93.0	94.0	96.5	97.6	96.3
44	0	95.2	93.2	93.9	99.8	94.7	94.0	93.7	93.0	94.4	96.8	97.6	96.0
50	0	95.4	93.3	95.3	98.7	94.6	94.0	93.8	92.9	94.6	97.0	97.6	95.6
56	0	95.2	93.0	96.2	98.0	94.3	94.0	93.6	92.9	94.9	97.0	97.5	95.2

Thermometer		58.8	59.3	59.6	59.7	59.8	59.8	59.8	59.8	59.9	60.1	60.0	59.9	59.8
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M. S.		One Scale Division = .00011 parts of the V. F.					VERTICAL FORCE.						
4	0	35.7	35.5	35.6	30.8	30.7	33.4	32.2	32.0	31.5	34.0	37.1	38.0
10	0	36.5	35.5	35.6	27.1	31.2	33.1	32.2	32.1	32.1	34.2	37.3	38.4
16	0	37.2	35.4	35.0	24.2	32.4	33.1	32.5	32.2	32.6	34.5	37.3	38.7
22	0	37.0	35.3	34.5	22.9	32.2	33.6	32.5	31.1	32.6	35.2	37.0	38.5
28	0	36.4	35.7	34.0	23.2	32.7	33.6	32.5	31.4	32.8	35.8	37.3	38.5
34	0	36.2	36.2	33.7	24.7	31.9	33.5	32.5	31.4	32.8	36.1	37.4	37.9
40	0	35.7	35.7	33.6	25.8	31.9	33.0	32.6	31.3	32.8	36.1	37.9	37.6
46	0	35.5	35.2	32.6	27.6	32.7	33.2	32.4	30.7	32.8	36.1	37.9	37.7
52	0	35.3	35.0	31.3	29.1	33.1	32.8	32.1	30.7	33.0	36.5	37.9	37.9
58	0	35.4	35.1	31.5	30.1	33.4	32.8	32.0	31.2	33.4	36.8	38.0	38.0

Thermometer		58.7	59.0	59.2	59.5	59.6	59.7	59.7	59.8	59.7	59.8	59.6	59.8
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Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
21	10	0	30.217	55.7	54.9	N. N. E.	} Lt. Air. }	1.0	Dense cum.-strat. and strat.
	11	0	30.209	55.2	54.5	N. E.		0.9	Cum.-strat. and cum.
	12	0	30.210	55.1	54.3	N.		0.9	Cum.-strat. and strat.
	13	0	30.204	55.6	54.7	N.		0.9	Cum.-strat. and strat.
	14	0	30.197	55.8	54.8	N.		1.0	Cum.-strat. and mist.
	15	0	30.189	55.6	54.4	N. W.		1.0	Cum.-strat.; cum. and strat. blended.
	16	0	30.193	55.3	54.4	N. W.		1.0	Cum.-strat. and dense strat.
	17	0	30.199	55.3	54.3	N. W.		1.0	Cum.-strat. and mist.
	18	0	30.219	55.6	54.6	N.		1.0	Nim.; light rain.
	19	0	30.222	57.0	56.2	N.		1.0	Nim. and cum.-strat.
	20	0	30.232	58.4	57.2	N.	1.0	Nim.; cum.-strat. and cum.	
	21	0	30.218	60.1	57.8	N. N. W.	0.5	*4 cum. in masses; .1 light cir. in the zenith.	

MAGNETICAL OBSERVATIONS. September 21st and 22nd.

Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
M.	S.	22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
0	0	38.2	40.0	43.0	45.2	47.0	46.6	45.8	45.8	45.7	44.0	45.2	44.8	
6	0	38.3	40.3	43.2	45.2	46.9	46.2	45.9	45.8	45.3	43.6	45.0	44.9	
12	0	38.3	40.9	43.5	45.8	46.8	46.0	46.0	45.8	45.5	43.8	44.8	45.0	
18	0	38.1	41.1	44.1	45.9	46.9	46.2	45.9	45.6	46.0	43.2	44.3	45.0	
24	0	38.0	41.4	44.0	46.1	46.8	46.7	46.1	45.2	45.9	42.5	44.2	44.9	
30	0	38.1	41.9	44.6	46.2	46.9	46.7	46.0	45.3	45.7	41.0	44.2	44.8	
36	0	38.3	42.1	44.9	46.3	47.1	46.6	45.9	45.2	45.3	42.0	44.2	44.9	
42	0	38.9	42.4	44.9	46.7	47.1	46.0	45.4	45.1	45.0	43.8	44.2	44.9	
48	0	39.8	42.6	45.1	46.7	46.9	46.0	46.0	45.3	44.8	44.8	44.2	45.0	
54	0	38.9	42.7	45.2	46.8	46.8	46.2	46.0	45.2	44.2	45.1	44.7	45.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
2	0	94.9	93.0	92.0	90.8	90.3	92.1	90.7	90.2	89.4	83.2	84.0	84.3	
8	0	94.0	93.0	92.0	90.8	90.5	91.8	90.8	90.3	89.1	82.8	83.8	84.9	
14	0	93.9	93.3	91.8	90.8	90.5	91.6	91.0	90.3	88.9	83.1	83.7	85.0	
20	0	93.1	93.5	92.0	90.7	91.0	91.1	91.0	90.3	88.0	81.7	83.9	85.1	
26	0	93.0	93.3	91.6	90.6	90.0	91.5	91.0	90.3	88.0	83.8	83.9	85.0	
32	0	93.1	93.1	91.7	90.5	90.7	91.7	91.0	89.8	88.0	86.3	84.2	85.0	
38	0	92.9	93.1	91.5	90.3	90.8	91.6	90.8	89.7	87.4	87.3	84.0	85.3	
44	0	93.2	93.1	91.6	90.5	91.2	91.5	90.3	89.6	87.1	87.0	84.2	85.9	
50	0	93.0	92.6	91.7	90.2	91.6	91.6	90.4	89.7	85.9	86.0	84.3	86.5	
56	0	93.1	92.0	91.1	90.2	92.0	91.4	90.4	89.4	84.2	85.0	84.4	87.0	

Thermometer	60.1	60.4	60.7	61.0	61.4	61.7	61.9	62.4	62.7	62.9	62.8	62.8
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
4	0	38.0	34.1	29.3	26.7	28.5	29.5	31.2	31.7	30.8	36.9	33.7	33.3	
10	0	38.2	33.2	29.2	27.0	28.7	30.1	31.1	31.9	31.0	37.3	34.5	32.9	
16	0	37.5	35.0	29.2	27.2	29.0	30.1	31.2	32.0	30.8	37.9	35.0	32.5	
22	0	38.2	31.5	27.8	27.2	29.0	30.1	30.9	32.0	31.1	38.9	35.0	32.5	
28	0	38.2	31.0	28.0	27.5	30.1	29.8	30.9	31.6	31.4	40.2	34.8	32.5	
34	0	37.3	30.4	27.2	27.6	29.5	29.8	31.4	31.7	31.5	37.8	34.8	32.5	
40	0	36.8	30.1	26.9	27.9	29.5	30.2	31.9	31.8	32.1	35.3	34.3	32.2	
46	0	35.7	29.8	26.8	27.9	29.4	30.6	31.7	31.6	32.8	33.1	34.0	31.9	
52	0	35.2	29.9	26.7	28.0	29.5	30.2	31.7	31.4	33.7	32.4	33.6	31.3	
58	0	34.6	29.9	26.5	28.0	29.5	30.8	31.7	31.1	35.3	33.0	33.3	30.6	

Thermometer	60.2	60.5	60.7	61.0	61.4	61.6	61.8	62.1	62.3	62.6	62.6	62.6
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
D.	H.	M.		Dry.	Wet.	Direction.	Force.		
21	22	0	In. 30.208	60.6	57.5	N.W. by W.	Light Air.	0.4	.2 cum.-strat. and cum.; .2 cir. and cir.-strat.
	23	0	30.189	61.5	58.1	N. N. W.	Light Air.	0.9	.8 cir. and cir.-strat.; .1 cum. round the horizon.
22	0	0	30.161	62.6	58.5	W. by N.	Light Air.	0.9	Cir. and cir.-strat.; cum. round horizon.
	1	0	30.160	63.5	59.4	N. W.	Light Air.	0.4	Cir. and detached cum.
	2	0	30.145	63.6	59.6	W.	Light Air.	0.1	Light cum.; cir. and cir.-strat. round horizon.
	3	0	30.134	62.7	58.4	W. by N.	Light Air.	0.1	Detached cum. round horizon.
	4	0	30.128	61.1	57.9	W. by N.	Light Air.	0.1	Cum.-strat. and cum. round horizon.
	5	0	30.132	60.8	56.7	Calm.	Calm.	0.1	Cum. S. and E.
	6	0	30.148	59.1	55.7	S.	Light Air.	—	Strat. in the horizon.
	7	0	30.167	57.6	52.1	Calm.	Calm.	—	Strat. in the horizon; very clear to W.
	8	0	30.162	56.3	53.9	S.	Light Air.	—	Strat. in N. E. horizon.
	9	0	30.162	54.8	52.7	S.	Light Air.	—	A few cum. on the horizon.

October 19th and 20th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		43.6	43.7	44.1	43.7	43.3	42.5	42.9	42.2	41.1	39.5	38.1	38.5
6	0		44.7	43.5	44.2	43.9	43.2	42.8	43.1	41.9	41.1	39.0	38.1	38.9
12	0		45.2	43.6	44.0	44.5	43.2	42.9	43.3	41.9	41.0	38.9	37.9	38.8
18	0		45.0	43.6	44.0	45.2	43.3	42.8	43.3	41.9	41.1	38.7	37.9	39.0
24	0		44.2	43.4	44.0	45.1	43.4	42.6	43.3	41.9	40.9	38.3	35.1	39.3
30	0		43.5	43.3	43.7	44.7	43.5	42.5	42.8	41.9	40.8	38.1	38.1	39.8
36	0		43.0	43.6	43.4	44.1	43.1	42.5	42.2	41.5	40.2	38.0	38.1	40.0
42	0		43.0	43.7	43.3	43.7	42.9	42.5	42.1	41.4	40.1	38.0	38.2	40.2
48	0		43.0	43.8	43.6	43.3	42.8	42.8	42.2	41.4	40.0	38.0	38.3	40.7
54	0		43.4	44.0	44.0	43.4	42.6	42.8	42.3	41.2	39.9	38.0	38.5	41.0
M. S.			One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
			89.7	91.0	89.6	90.0	91.0	90.0	90.9	90.3	91.0	90.5	89.1	87.9
2	0		91.6	90.4	89.7	90.4	91.0	90.4	90.8	90.6	91.0	90.3	89.1	87.9
8	0		91.5	90.5	89.7	91.2	91.0	90.6	90.5	90.6	90.9	89.9	89.1	87.9
14	0		90.9	90.1	89.5	92.2	91.0	90.2	90.2	90.7	90.8	89.5	89.1	87.9
20	0		90.1	89.7	89.7	92.4	91.0	90.5	90.3	90.7	90.7	89.4	89.1	87.5
26	0		90.0	89.5	89.5	93.3	90.9	90.5	90.2	90.6	90.8	89.5	89.0	87.6
32	0		90.7	89.5	89.3	92.0	90.8	90.8	90.2	90.8	90.8	89.4	88.8	87.4
38	0		90.7	89.5	89.5	91.5	90.8	90.8	90.3	90.8	90.3	89.4	88.4	87.3
44	0		91.0	89.4	89.7	91.5	90.6	90.9	90.2	90.9	90.4	89.2	88.4	87.5
50	0		91.4	89.7	89.8	91.3	90.3	90.9	90.3	90.9	90.5	89.2	88.1	87.2
Thermometer			64.1	64.3	64.5	64.6	64.6	64.5	64.5	64.4	63.7	63.5	63.5	63.7
M. S.			One Scale Division = .00015 parts of the V. F.					VERTICAL FORCE.						
			39.1	37.6	37.7	38.1	37.4	38.5	36.9	39.0	41.3	42.3	40.7	36.5
4	0		36.9	38.0	38.0	37.5	37.7	37.9	36.9	39.5	41.3	42.3	40.2	35.8
10	0		36.9	38.0	38.3	36.3	36.8	37.8	36.9	39.7	41.3	42.6	39.8	35.8
16	0		37.7	38.3	38.6	35.9	37.1	37.8	37.2	40.0	41.8	42.8	39.2	34.8
22	0		38.7	38.5	38.2	36.1	37.0	37.8	37.8	40.2	42.1	43.0	38.7	34.2
28	0		39.1	38.5	39.0	36.3	37.6	38.0	38.5	40.7	42.1	43.0	38.2	33.6
34	0		39.2	38.5	39.0	36.7	38.0	38.1	38.6	40.7	41.8	42.4	38.2	33.3
40	0		38.4	38.2	39.0	37.1	38.2	37.7	38.2	40.8	42.1	42.0	37.7	33.0
46	0		38.4	38.1	38.3	37.1	38.2	37.4	38.2	40.8	42.1	41.6	37.2	32.3
52	0		37.6	37.7	38.2	37.4	38.4	37.3	38.2	41.0	42.2	41.2	36.9	32.1
Thermometer			63.8	64.0	64.1	64.2	64.1	64.2	64.1	64.1	63.7	63.7	63.7	63.8

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
19	10	0	30.123	62.0	55.1	S.	Light Air.	0.0	Clear starlight.			
	11	0	30.112	61.5	54.6	S. by E.	Light Air.	0.0	Clear starlight.			
	12	0	30.091	62.5	54.8	S. by E.	Light Air.	0.0	Clear starlight.			
	13	0	30.075	61.0	54.2	S. S. E.	Light Air.	0.0	Clear starlight.			
	14	0.	30.058	60.7	53.9	S. S. E.	Light Air.	0.0	Clear starlight.			
	15	0	30.032	61.6	54.2	S. by E.	Light Air.	0.0	Clear starlight.			
	16	0	30.026	60.5	53.5	S.	Light Air.	0.0	Clear.			
	17	0	30.036	61.2	53.9	S.	Light Air.	0.0	Cum.-strat. in the N. horizon.			
	18	0	30.041	63.4	55.6	S.	Lt. Breeze.	0.0	Dense strat. N. horizon.			
	19	0	30.045	66.2	57.6	S.	Light Air.	0.0	Cum. in N. horizon.			
	20	0	30.045	69.0	58.8	S.	Light Air.	0.1	Cir.-strat. N.			
	21	0	30.047	71.7	61.2	S.	Light Air.	0.1	Cir.-strat. N.			

MAGNETICAL OBSERVATIONS.													October 19th and 20th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	41.4	45.3	47.0	46.9	46.1	44.7	43.3	43.2	43.9	44.1	45.0	44.2	
6	0	41.9	45.4	47.1	46.6	46.2	44.4	43.1	42.9	43.9	44.5	45.1	44.2	
12	0	42.2	45.3	47.4	46.3	46.5	44.3	43.1	43.1	43.9	44.1	45.1	44.3	
18	0	42.9	45.8	47.4	46.4	46.3	44.2	43.1	43.2	44.0	43.9	45.0	44.6	
24	0	43.2	45.9	47.1	46.3	46.1	44.0	43.1	43.2	44.1	44.1	44.9	44.6	
30	0	43.5	46.1	47.0	46.2	45.8	43.8	43.2	43.2	44.1	44.2	44.9	44.4	
36	0	44.1	46.2	46.9	46.2	45.5	43.7	43.2	43.2	44.1	44.8	44.7	44.4	
42	0	44.2	46.6	46.9	46.2	45.3	43.7	43.2	43.6	44.1	44.9	44.8	44.5	
48	0	44.6	46.8	46.8	46.2	45.1	43.5	43.1	43.9	44.1	45.0	44.4	44.5	
54	0	45.0	46.9	46.8	46.2	44.9	43.4	43.2	43.9	44.1	45.0	44.4	44.7	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00028.	
2	0	87.1	86.9	87.4	87.5	91.3	90.7	88.4	86.7	84.0	81.7	82.9	82.0	
8	0	87.0	86.6	87.6	87.6	90.8	90.6	88.4	86.6	83.7	82.1	82.8	82.0	
14	0	87.6	86.3	87.9	88.4	90.8	90.6	88.2	86.2	83.3	82.5	82.8	81.9	
20	0	87.9	86.8	87.9	88.8	90.5	90.4	88.0	86.1	83.5	83.0	82.2	81.9	
26	0	87.6	86.9	87.3	89.3	90.5	90.0	88.0	85.9	83.2	83.1	82.4	82.0	
32	0	87.7	86.9	86.9	89.8	90.5	89.9	87.9	85.2	83.0	83.1	82.9	81.9	
38	0	87.7	86.9	86.5	90.0	90.6	89.8	87.7	84.9	82.4	83.2	82.5	81.6	
44	0	87.3	87.0	86.3	90.4	90.6	89.6	87.5	84.8	82.1	82.9	82.1	81.9	
50	0	86.8	87.2	86.6	90.8	90.5	89.0	87.3	84.3	82.1	83.0	81.9	82.6	
56	0	86.8	87.0	87.1	91.0	90.8	88.7	87.2	84.1	82.0	82.9	82.0	82.6	

Thermometer		64.2	64.7	65.5	65.9	66.7	67.4	67.9	68.4	68.7	69.0	69.1	69.0
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1 ₀ Fah. = .00005.	
4	0	31.8	29.8	29.1	32.5	32.0	34.7	35.8	35.1	34.5	35.4	34.0	35.4	
10	0	31.6	30.0	29.1	33.0	32.1	34.8	35.6	35.1	34.5	35.5	33.9	35.4	
16	0	31.0	30.2	28.8	32.6	32.3	34.8	35.6	34.8	34.7	35.7	33.9	34.2	
22	0	30.7	29.6	29.0	32.6	33.0	35.1	35.6	35.0	34.5	35.1	34.1	34.9	
28	0	30.3	29.5	30.1	32.6	33.4	35.1	35.6	35.0	34.5	34.5	34.4	34.9	
34	0	30.0	29.4	30.7	32.4	33.8	35.2	35.2	35.0	34.8	34.1	34.4	35.4	
40	0	30.0	29.4	31.3	32.4	34.0	35.2	35.2	34.8	35.1	33.7	34.4	35.0	
46	0	30.0	29.4	32.0	32.1	34.1	35.2	35.1	34.5	35.2	33.7	34.7	35.3	
52	0	30.2	29.1	32.3	32.1	34.4	35.6	35.1	34.5	35.2	33.7	35.1	35.9	
58	0	30.2	29.4	32.5	32.1	34.5	35.8	34.9	34.5	35.2	33.6	35.1	35.1	

Thermometer		64.2	64.6	65.2	65.7	66.2	66.8	67.2	67.6	68.1	68.5	68.6	68.5
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
19	22	0	30.027	74.0	62.8	S.	Light Air.	0.1	Cir. and cir.-strat. N.
	23	0	30.006	75.8	62.9	S.	Breeze.	0.3	Cir. and cir.-strat. N.
20	0	0	29.990	76.6	63.2	S. by E.	Light Air.	0.5	Cir. and cir.-strat.
	1	0	29.964	78.1	65.3	S.	Light Air.	0.4	Cir. and cir.-strat. S.
	2	0	29.950	78.4	66.2	S. by E.	Light Air.	0.5	Cir. and cir.-strat. ; hazy N. horizon.
	3	0	29.945	77.0	66.0	S. by E.	Light Air.	0.2	Cir. and cir.-strat. near the horizon.
	4	0	29.933	75.1	65.4	S. by E.	Light Air.	0.1	Cir.-strat. S., strat. and haze N. horizon.
	5	0	29.940	72.0	63.2	S. S. E.	Light Air.	0.1	Cir. and cir.-strat. round horizon ; hazy.
	6	0	29.937	69.2	61.4	S. S. E.	Light Air.	0.1	Cir. and cir.-strat. round horizon.
	7	0	29.932	71.5	61.0	S. E. by S.	Light Air.	—	Cir. and cir.-strat. round horizon.
	8	0	29.922	70.8	60.3	S. S. E.	Light Air.	0.3	Cir. scattered.
	9	0	29.904	71.9	60.3	S. S. E.	Light Air.	0.3	Cir. scattered.

November 25th and 26th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					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	42.1	41.9	41.9	41.4	41.3	41.0	40.9	40.4	38.9	37.6	37.3	37.5
6	0	42.1	41.9	41.9	41.3	41.1	40.9	40.8	40.2	38.7	37.5	37.4	37.7
12	0	42.0	41.9	41.9	41.5	41.1	41.0	40.8	40.0	38.4	37.5	37.3	37.8
18	0	42.0	41.9	41.9	41.8	41.1	41.0	40.8	40.0	38.2	37.4	37.1	37.9
24	0	42.0	41.9	41.9	41.8	41.3	41.1	40.9	39.9	38.1	37.5	37.2	38.0
30	0	42.0	41.9	41.8	41.6	41.3	41.1	40.8	39.4	38.0	37.3	37.2	38.0
36	0	41.9	42.0	41.8	41.2	41.2	41.1	40.8	39.2	38.0	37.5	37.2	38.1
42	0	41.9	42.0	41.6	41.8	41.0	41.1	40.7	39.1	38.0	37.5	37.2	38.3
48	0	41.9	42.0	41.5	41.8	41.0	41.0	40.7	39.0	38.0	37.3	37.2	38.4
54	0	41.9	41.9	41.5	41.5	41.0	40.9	40.5	38.9	37.9	37.2	37.5	38.7

M. S.		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
2	0	84.1	84.4	84.7	84.9	85.1	85.3	85.3	86.9	88.9	90.2	90.2	89.5
8	0	84.1	84.5	84.7	84.9	85.1	85.4	85.5	87.0	89.1	90.3	90.1	89.3
14	0	84.2	84.5	84.8	84.9	85.0	85.4	85.6	87.1	89.2	90.2	90.1	89.0
20	0	84.2	84.5	84.9	84.9	85.0	85.4	85.8	87.3	89.5	90.1	90.1	88.9
26	0	84.1	84.5	84.9	84.9	85.1	85.3	86.0	87.6	89.6	90.1	90.1	88.5
32	0	84.1	84.6	84.9	84.9	85.1	85.3	86.2	87.9	89.7	90.3	90.2	88.2
38	0	84.1	84.8	84.9	84.8	85.2	85.4	86.3	88.0	89.8	90.4	90.1	88.0
44	0	84.1	84.7	84.9	85.0	85.3	85.5	86.5	88.2	90.0	90.5	90.0	87.6
50	0	84.1	84.7	84.9	85.0	85.2	85.4	86.6	88.4	90.1	90.2	89.8	87.3
56	0	84.2	84.6	84.9	85.1	85.2	85.3	86.7	88.8	90.1	90.3	89.7	87.3

Thermometer		°	°	°	°	°	°	°	°	°	°	°	°
		66.7	66.7	66.7	66.8	66.8	66.8	66.7	66.6	66.4	66.1	66.0	66.0

M. S.		One Scale Division = .00015 parts of the V. F.					VERTICAL FORCE.						
4	0	28.5	28.2	28.9	28.8	28.7	28.8	29.4	30.1	31.7	32.2	30.7	28.8
10	0	28.5	28.1	29.1	28.7	28.8	28.6	29.4	30.2	32.0	31.9	30.5	28.4
16	0	28.2	28.1	29.1	28.5	28.9	28.6	29.5	30.6	32.0	31.6	30.5	28.3
22	0	28.2	28.1	29.1	28.5	29.0	28.6	29.5	30.8	32.2	31.6	30.5	27.9
28	0	28.4	28.1	29.2	28.7	29.0	28.6	29.5	31.0	32.2	31.6	30.3	27.8
34	0	28.4	28.2	29.2	28.7	29.0	28.8	29.5	31.0	32.2	31.3	30.0	27.4
40	0	28.6	28.3	29.4	28.7	29.0	28.8	29.5	31.3	31.9	31.2	29.9	27.2
46	0	28.6	28.5	29.1	28.6	29.0	28.9	29.6	31.5	31.9	31.2	29.9	27.0
52	0	28.6	28.7	29.1	28.6	29.1	29.3	29.7	31.5	31.8	31.2	29.3	26.6
58	0	28.4	28.8	28.8	28.6	29.1	29.4	29.9	31.7	31.8	30.7	29.1	26.1

Thermometer		°	°	°	°	°	°	°	°	°	°	°	°
		66.6	66.7	66.8	66.8	66.8	66.6	66.6	66.6	66.3	66.1	66.1	66.2

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
25	10	0	30.020	59.3	56.1	N. W. by W.	Light Air.	1.0	Nim. ; light rain.
	11	0	30.018	59.6	56.5	N. W. by W.	Light Air.	1.0	Nim. and cum.-strat.
	12	0	30.018	58.7	56.3	W. S. W.	Light Air.	1.0	Nim.
	13	0	30.012	58.5	56.8	W by S.	Light Air.	1.0	Nim. ; light rain.
	14	0	30.016	58.7	57.1	E. N. E.	Light Air.	1.0	Nim. ; light rain.
	15	0	30.030	58.5	56.9	N. W. by W.	Light Air.	1.0	Nim. and cum.-strat.
	16	0	30.046	57.9	56.4	N. W. by W.	Light Air.	1.0	Nim. and cum.-strat.
	17	0	30.062	58.2	55.6	N. W. by W.	Light Air.	0.6	Cum. and cum.-strat.
	18	0	30.076	59.7	54.2	N. W. by W.	Light Air.	0.7	Cum. and cum.-strat.
	19	0	30.089	60.4	55.0	N. W. by W.	Light Air.	1.0	Cir.-strat. ; cum. and cum.-strat.
	20	0	30.093	62.2	55.6	W. by S.	Light Air.	1.0	Cum. and cum.-strat.
	21	0	30.099	64.7	56.0	N. W. by N.	Light Air.	0.7	Cir.-cum. and cum. ; hazy E.

MAGNETICAL OBSERVATIONS.

November 25th and 26th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	38.9	40.8	41.2	41.5	41.9	42.8	43.0	43.1	43.0	43.1	43.3	43.0
6	0	39.0	40.9	41.3	41.9	41.9	42.9	43.0	43.0	43.0	43.1	43.3	43.1
12	0	39.2	41.0	41.5	42.0	41.9	43.0	43.0	43.0	43.0	43.1	43.2	43.3
18	0	39.5	41.0	41.3	42.1	42.0	43.1	43.0	42.9	43.0	43.1	43.2	43.4
24	0	39.7	41.0	41.1	42.1	42.0	43.1	43.1	42.9	43.0	43.1	43.1	43.4
30	0	39.9	41.0	41.1	42.0	42.0	43.2	43.1	42.9	43.0	43.1	43.1	43.3
36	0	40.0	41.0	41.1	42.0	42.1	43.2	43.1	42.9	42.9	43.1	43.1	43.3
42	0	40.1	41.0	41.5	42.1	42.2	43.2	43.1	42.9	42.9	43.1	43.1	43.2
48	0	40.5	41.0	41.5	42.0	42.5	43.1	43.1	43.0	43.0	43.1	43.1	43.0
54	0	40.7	41.2	41.5	41.9	42.7	43.0	43.2	43.0	43.0	43.1	43.1	43.0

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00028.											
2	0	86.8	86.0	86.3	85.8	85.2	85.3	83.9	82.8	82.9	83.1	83.7	84.0
8	0	86.6	86.0	86.5	86.1	85.0	85.1	83.8	82.3	83.0	83.2	83.7	84.3
14	0	86.5	85.9	86.5	86.2	85.2	85.0	83.7	82.1	82.9	83.2	83.7	84.3
20	0	86.4	85.7	86.1	86.1	85.2	85.0	83.6	82.2	82.9	83.2	83.8	84.3
26	0	86.3	85.7	86.0	86.0	85.1	85.0	83.3	82.3	82.9	83.3	83.8	84.5
32	0	86.4	85.9	86.0	85.8	85.0	84.7	83.0	82.5	83.0	83.3	83.9	84.6
38	0	86.5	86.0	86.0	85.8	85.0	84.7	83.0	82.8	83.0	83.1	83.9	84.6
44	0	86.2	86.2	86.0	85.8	85.3	84.6	83.0	82.7	83.1	83.1	84.0	84.4
50	0	86.3	86.3	85.7	85.4	85.5	84.3	82.9	82.9	83.2	83.2	84.0	84.2
56	0	86.3	86.3	85.8	85.1	85.3	83.9	83.0	82.9	83.2	83.4	84.0	84.3

Thermometer		66.3	66.5	66.7	67.0	67.2	67.5	67.7	67.8	67.8	67.7	67.7	67.6
		°	°	°	°	°	°	°	°	°	°	°	°

M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.											
4	0	25.9	24.2	23.8	24.4	26.4	25.9	27.1	28.2	29.3	27.5	27.2	27.5
10	0	25.9	24.4	23.6	23.8	26.6	26.1	27.1	28.8	29.0	27.4	27.1	27.3
16	0	25.5	24.2	23.7	23.9	26.6	26.0	27.1	29.3	28.8	27.4	27.2	26.8
22	0	25.4	24.2	23.8	24.3	26.6	26.1	27.3	29.5	28.8	27.4	27.2	26.8
28	0	25.4	24.2	24.0	24.8	26.6	26.1	27.4	29.5	28.7	27.5	27.2	26.8
34	0	25.1	24.2	24.1	25.3	26.8	26.2	27.5	29.5	28.6	27.5	27.2	26.8
40	0	24.8	24.2	24.1	25.3	26.8	26.3	27.9	29.5	28.6	27.7	27.2	26.9
46	0	24.9	24.2	24.2	25.5	26.5	26.3	27.9	29.5	28.4	27.7	27.2	27.1
52	0	24.3	23.9	24.4	26.0	26.5	26.6	27.9	29.5	28.0	27.7	27.2	27.2
58	0	24.2	23.9	24.4	26.3	26.3	27.1	28.2	29.5	27.7	27.5	27.3	27.2

Thermometer		66.3	66.5	66.6	66.8	67.0	67.2	67.5	67.6	67.8	67.7	67.7	67.6
		°	°	°	°	°	°	°	°	°	°	°	°

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
25	22	0	30.100	65.4	55.6	W.	1.5	0.3	Cum. ; thick round the horizon.
	23	0	30.106	65.6	55.2	W.	1.8	0.1	Cum. scattered.
26	0	0	30.100	66.0	56.4	W. by N.	1.2	0.3	Cum. scattered.
	1	0	30.094	66.8	56.6	W.	1.2	0.6	Cum. ; hazy E.
	2	0	30.097	67.2	57.0	W.	3.0	0.3	Cum. scattered chiefly to the S. ; wind in gusts.
	3	0	30.105	67.4	56.2	W.	1.0	0.5	Cum. scattered.
	4	0	30.113	65.1	54.4	S. S. W.	1.0	0.4	Detached cum. dense to the S.
	5	0	30.128	63.0	55.0	S. S. W.	0.5	0.7	Cum.
	6	0	30.142	61.1	53.5	S. W. by S.	0.7	0.4	Cum.
	7	0	30.148	59.1	52.7	S. W. by S.	0.2	0.1	Cum. in the horizon.
	8	0	30.167	58.6	52.8	S. W. by S.	0.2	0.1	Cum. and cum.-strat.
	9	0	30.171	56.1	51.7	S. by E.	Light Air.	—	A few cir.-strat. and cum. in the horizon.

December 21st and 22nd.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		44.4	44.2	44.1	43.9	43.9	44.0	43.7	42.5	41.0	38.8	37.7	39.2
6	0		44.4	44.2	44.1	44.1	44.0	44.0	43.8	42.8	40.9	38.4	37.7	39.4
12	0		44.2	44.2	44.1	44.0	44.1	44.0	43.8	42.8	40.7	38.2	37.9	39.9
18	0		44.2	44.1	44.0	44.1	43.9	44.0	43.2	42.2	40.2	38.2	37.9	40.0
24	0		44.2	44.0	44.1	44.0	43.9	44.0	43.0	42.1	40.1	38.1	38.0	40.1
30	0		44.2	44.0	44.0	44.0	43.9	44.0	42.9	41.9	40.0	38.0	38.2	40.4
36	0		44.2	43.9	44.9	44.0	43.8	43.9	42.7	41.8	39.7	37.8	38.5	40.8
42	0		44.2	43.9	44.0	44.0	43.8	43.9	42.6	41.3	39.3	37.8	38.8	41.0
48	0		44.2	44.0	44.9	44.0	43.9	43.9	42.8	41.2	39.0	37.7	39.0	41.0
54	0		44.3	44.2	44.0	44.0	43.9	43.7	42.6	41.0	39.0	37.5	39.1	41.1
M. S.			One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
			79.9	80.3	80.3	81.6	82.2	82.2	82.4	83.5	85.5	86.6	85.2	85.1
2	0		79.9	80.2	80.6	81.9	82.0	82.5	82.9	83.5	85.2	86.0	85.2	85.2
8	0		79.9	80.1	81.0	82.0	82.0	82.4	83.0	83.9	85.3	85.9	85.2	85.4
14	0		79.9	80.1	80.9	82.1	82.1	82.4	82.8	83.6	85.5	85.8	85.4	85.5
20	0		79.6	80.1	80.9	82.1	82.1	82.4	82.8	83.6	85.5	85.8	85.4	85.5
26	0		79.3	79.6	81.3	82.4	81.9	82.3	83.1	83.8	85.6	85.6	85.1	85.5
32	0		79.8	79.9	81.4	82.4	82.0	82.5	83.0	84.0	85.8	85.6	85.1	85.4
38	0		79.3	80.2	81.5	81.7	82.2	82.3	83.1	84.3	86.3	85.6	85.1	85.3
44	0		79.9	80.3	81.6	81.9	82.2	82.5	83.2	84.7	86.5	85.4	85.0	85.1
50	0		79.6	80.6	81.6	82.1	82.3	82.2	83.2	85.1	86.8	85.3	85.1	84.7
56	0		80.2	80.3	82.0	81.3	82.1	82.5	83.6	85.6	86.4	85.3	85.0	84.5
Thermometer			71.9	71.9	71.7	71.7	71.6	71.5	71.4	71.1	70.7	70.7	70.8	71.1
M. S.			One Scale Division = .00015 parts of the V. F.					VERTICAL FORCE.						
			13.8	13.5	14.0	13.9	14.3	13.8	14.6	15.9	17.6	17.9	17.5	15.0
4	0		13.8	13.5	14.0	13.9	14.3	13.8	14.6	15.9	17.6	17.9	17.5	15.0
10	0		13.8	13.5	14.0	13.9	14.3	13.6	14.6	15.9	17.8	17.8	17.0	14.6
16	0		13.8	13.8	14.0	13.9	14.1	13.7	14.7	16.5	17.4	17.7	17.0	14.4
22	0		13.8	14.0	14.0	13.7	14.1	13.9	15.1	16.5	17.6	17.7	16.4	14.2
28	0		13.8	14.2	14.0	13.7	14.2	14.0	15.5	16.7 ^a	17.6	18.0	16.2	13.9
34	0		13.8	14.3	14.0	13.7	14.4	14.1	15.5	17.0	17.6	18.0	16.0	13.6
40	0		13.8	14.3	14.0	13.9	14.4	14.2	15.6	17.5	17.8	18.0	15.7	13.2
46	0		13.8	14.3	14.0	13.9	14.4	14.3	15.8	17.0	18.0	18.0	15.6	12.8
52	0		13.6	14.0	14.0	13.9	14.2	14.5	15.8	16.9 ^a	18.0	17.7	15.3	12.7
58	0		13.6	14.0	13.8	14.3	13.8	14.5	15.6	16.9	17.8	17.5	15.0	12.4
Thermometer			71.9	72.0	71.9	71.7	71.5	71.6	71.5	71.0	70.8	70.8	70.8	71.1
Increasing Numbers denote decreasing Westerly Declination.														
METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.					
				Dry.	Wet.	Direction.	Force.							
D.	H.	M.	In.	°	°		lbs.							
21	10	0	29.869	65.4	62.2	S. W. by S.	3.8	0.3	Cir.-cum. and cum.					
	11	0	29.867	65.1	62.0	S. W. by S.	3.8	0.1	Cum. W. and E.					
	12	0	29.866	64.7	62.1	S. W. by S.	3.5	—	Cum. in the horizon.					
	13	0	29.838	65.1	62.1	S. S. W.	2.5	—	Cum. and strat. in the horizon.					
	14	0	29.839	64.6	62.0	S. S. W.	2.5	—	Strat. and a few cum. in the horizon.					
	15	0	29.841	64.5	61.9	S. W. by S.	2.5	—	Strat. and cum. in horizon.					
	16	0	29.854	64.7	62.1	S. W. by S.	2.5	0.3	.1 cum. S. and .2 cir.-cum. N.					
	17	0	29.868	65.5	63.0	S. W. by S.	3.0	0.3	Cum. S., a few cir.-strat. N.					
	18	0	29.879	66.3	63.4	S. W. by S.	2.8	0.4	Cum.					
	19	0	29.889	67.8	64.0	S. W. by S.	2.8	0.6	Cum.-strat. and cum.					
	20	0	29.889	68.2	64.3	S. W. by S.	3.0	0.9	Cir.-strat. and cum. blended.					
	21	0	29.881	70.2	65.1	S. W.	3.0	0.4	Cir.-cum. and cum. scattered.					

* Needle vibrating.

MAGNETICAL OBSERVATIONS.													December 21st and 22nd.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	41.5	42.7	44.0	45.1	46.1	45.8	45.8	45.9	45.8	46.0	46.2	46.2	
6	0	41.7	42.9	44.2	45.1	46.2	45.8	45.8	45.9	45.9	46.0	46.1	46.2	
12	0	42.0	42.9	44.6	45.3	46.1	45.8	45.8	45.9	45.9	46.0	46.2	46.8	
18	0	42.0	43.0	45.0	45.6	46.1	45.8	45.8	45.9	45.9	46.0	46.2	46.9	
24	0	42.1	43.3	45.2	45.7	46.1	45.7	45.8	45.9	45.8	46.1	46.2	46.9	
30	0	42.0	43.5	45.5	45.8	46.1	45.8	46.0	45.9	45.8	46.1	46.3	46.6	
36	0	42.1	43.4	45.5	46.0	46.0	45.8	46.1	45.9	45.9	46.1	46.6	46.5	
42	0	42.4	43.5	45.3	46.1	46.0	45.9	46.1	45.9	45.9	46.1	46.4	46.5	
48	0	42.5	43.5	45.1	46.0	46.0	45.8	46.1	45.8	46.0	46.1	46.2	46.4	
54	0	42.6	43.9	45.0	46.1	45.9	45.8	46.0	45.8	46.0	46.1	46.2	46.5	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00029.	
		84.3	83.0	80.7	79.0	77.9	78.0	78.9	80.1	80.9	80.6	80.3	82.0	
2	0	84.3	83.0	80.7	79.0	77.9	78.0	78.9	80.1	80.9	80.6	80.3	82.0	
8	0	84.0	82.7	80.8	78.9	78.0	78.0	79.0	80.2	80.9	80.8	80.3	82.5	
14	0	84.0	82.2	80.8	78.5	77.9	78.2	79.0	80.7	81.0	80.6	81.0	83.1	
20	0	84.0	82.0	80.6	78.3	78.0	78.4	79.2	80.6	80.9	80.2	81.1	83.0	
26	0	83.8	82.0	80.5	78.0	78.0	78.4	79.6	80.8	80.7	80.1	81.5	83.0	
32	0	83.7	81.7	80.5	78.0	77.8	78.6	79.8	81.1	80.7	80.1	81.4	83.0	
38	0	83.7	81.2	80.2	78.0	77.8	78.8	79.9	81.3	80.4	80.1	81.7	83.0	
44	0	83.6	81.0	79.8	77.9	77.9	78.8	80.0	81.1	80.3	80.0	81.7	83.0	
50	0	83.6	80.8	79.3	77.8	77.9	78.8	80.0	81.0	80.2	80.0	81.8	83.0	
56	0	83.4	80.8	79.3	77.9	78.0	78.8	80.0	81.0	80.2	80.0	81.9	83.2	

Thermometer		71.2	71.6	72.0	72.4	72.7	72.8	72.9	72.9	73.3	73.2	73.1	72.8
		71.2	71.6	72.0	72.4	72.7	72.8	72.9	72.9	73.3	73.2	73.1	72.8

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		12.0	11.1	9.1	8.0	10.1	10.8	11.7	11.6	12.3	11.6	12.3	11.5	
4	0	12.0	11.1	9.1	8.0	10.1	10.8	11.7	11.6	12.3	11.6	12.3	11.5	
10	0	11.9	11.1	8.7	8.0	10.1	10.8	11.7	11.7	12.2	11.5	12.2	11.4	
16	0	11.8	11.1	8.3	8.3	10.7	10.8	11.8	11.7	11.9	11.5	12.2	10.7	
22	0	11.7	10.6	7.9	8.6	10.1	10.8	11.6	11.7	11.8	11.5	12.2	10.6	
28	0	11.7	10.1	7.7	8.6	10.4	10.8	11.6	11.7	12.0	11.6	12.1	11.1	
34	0	11.7	10.1	7.5	9.1	10.5	11.1	11.4	11.7	12.0	11.6	12.0	11.1	
40	0	11.5	10.1	7.6	9.1	10.5	11.1	11.4	11.5	11.8	11.7	11.7	11.2	
46	0	11.5	10.1	7.8	9.4	10.6	11.2	11.4	11.8	11.8	11.9	11.7	11.2	
52	0	11.2	9.8	8.0	9.8	10.7	11.2	11.4	12.1	11.6	12.2	11.6	11.3	
58	0	11.0	9.4	8.0	10.0	10.7	11.4	11.4	12.1	11.6	12.3	11.6	11.2	

Thermometer		71.3	71.4	71.7	72.1	72.3	72.5	72.6	72.7	72.8	72.9	72.8	72.7
		71.3	71.4	71.7	72.1	72.3	72.5	72.6	72.7	72.8	72.9	72.8	72.7

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
21	22	0	29.886	72.2	65.6	S. S. W.	2.5	0.1	Dense cir.-strat. and cum. round the horizon.
	23	0	29.882	73.1	65.7	S. S. W.	3.0	0.4	Cum. and cir.-strat. S.
22	0	0	29.879	73.2	65.2	S. S. W.	3.3	0.3	Cum. S. and round horizon.
	1	0	29.872	73.3	65.1	S. S. W.	3.0	0.3	Dense cum. and cir.-strat. S. and E. horizons.
	2	0	29.866	73.1	65.4	S. W. by S.	3.3	0.1	Cum. S. and round horizon.
	3	0	29.858	72.3	64.4	S. S. W.	4.0	0.1	Cum. S. and round horizon.
	4	0	29.855	72.1	64.8	S. S. W.	4.0	0.1	Cum. S. and E.; a few cir.-strat. scattered.
	5	0	29.858	70.2	64.4	S. W. by S.	3.0	0.1	Dense cum S. and E. horizons.
	6	0	29.869	67.5	64.2	S. W. by S.	2.8	0.1	Dense cum. S. and E. horizons.
	7	0	29.879	66.1	63.1	S. W. by S.	3.0	0.1	Cum. S. and E. horizons.
	8	0	29.893	65.6	62.6	S. W. by S.	3.0	0.1	Cum.-strat. S. and E. horizons.
	9	0	29.908	65.7	61.8	S. W.	2.3	0.3	.2 dense cum.-strat. S., .1 cum.-strat. scattered.

January 18th and 19th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		43.8	43.2	43.0	43.0	42.9	42.1	41.9	41.8	42.0	40.3	38.0	38.9
5	0		43.8	43.2	43.1	43.0	42.9	42.0	41.8	41.8	42.0	40.0	38.1	39.0
10	0		43.7	43.1	43.2	43.0	42.9	42.0	41.7	41.9	41.9	40.0	38.1	39.0
15	0		43.5	43.0	43.1	43.0	42.8	42.0	41.7	42.0	41.9	39.6	38.0	39.1
20	0		43.5	42.8	43.0	43.0	42.7	41.9	41.7	42.0	41.8	39.1	38.0	39.2
25	0		43.4	42.7	43.0	43.0	42.4	41.9	41.5	42.0	41.2	39.1	38.1	39.2
30	0		43.4	42.8	43.0	42.9	42.2	42.0	41.4	42.1	41.1	38.9	38.3	39.5
35	0		43.3	42.9	43.0	42.9	42.2	42.1	41.5	42.1	41.1	38.8	38.7	39.6
40	0		43.3	43.0	43.0	42.9	42.2	42.1	41.6	42.1	41.0	38.4	38.7	39.7
45	0		43.3	43.0	43.0	42.9	42.1	42.1	41.7	42.1	40.9	38.2	38.8	39.9
50	0		43.3	43.0	43.0	42.8	42.1	42.1	41.7	42.1	40.9	38.1	38.9	39.9
55	0		43.3	43.0	43.0	42.8	42.1	42.0	41.8	42.1	40.2	38.1	38.9	39.9

M. S.		One Scale Division = .00018 parts of the H. F. HORIZONTAL FORCE.											
2	0	79.6	79.6	81.1	81.6	82.2	82.8	83.3	84.3	86.5	86.9	86.1	84.5
7	0	79.7	79.6	81.1	81.7	82.2	82.8	83.4	84.5	86.7	86.9	86.2	84.0
12	0	79.6	79.6	81.0	81.6	82.3	82.8	83.4	85.0	86.8	87.0	86.2	83.8
17	0	79.5	80.0	81.0	81.6	82.3	82.8	83.5	85.4	86.9	87.0	86.2	83.4
22	0	79.5	80.2	81.0	81.7	82.6	83.0	83.6	85.3	86.9	86.8	86.2	83.1
27	0	79.5	80.6	81.1	81.7	82.6	83.2	83.7	85.3	86.9	86.9	86.2	82.9
32	0	79.6	81.0	81.2	81.8	82.6	83.1	83.8	85.7	86.9	86.9	86.1	82.4
37	0	79.8	81.1	81.3	81.9	82.7	83.0	83.8	85.9	86.9	86.9	86.1	82.1
42	0	79.8	81.2	81.3	82.0	82.7	83.0	84.0	86.0	86.9	86.7	85.9	82.0
47	0	79.8	81.3	81.3	82.0	82.8	83.0	84.0	86.1	87.0	86.3	85.9	81.9
52	0	79.8	81.1	81.5	82.0	82.8	82.9	84.0	86.1	86.9	86.2	85.5	81.9
57	0	79.8	81.1	81.6	82.1	82.8	83.1	84.1	86.2	86.9	86.2	85.0	81.7

Thermometer		72.4	72.3	72.3	72.1	71.9	71.8	71.7	71.5	71.0	70.7	70.7	71.0

M. S.		One Scale Division = .00015 parts of the V. F. VERTICAL FORCE.											
3	0	41.9	42.8	41.6	41.5	41.7	42.5	42.6	42.8	42.5	45.0	46.2	42.9
8	0	41.9	43.0	41.8	41.7	41.6	42.7	42.5	42.3	42.7	45.3	46.0	42.9
13	0	41.9	42.9	41.8	41.7	41.6	42.8	42.7	42.2	42.9	45.8	45.6	42.8
18	0	41.9	42.9	41.9	41.7	41.8	42.9	42.8	42.1	43.2	45.9	45.3	42.7
23	0	41.9	43.0	42.1	41.7	42.0	42.8	42.7	42.1	43.3	46.1	45.1	42.7
28	0	42.1	42.9	41.9	41.7	42.0	42.3	42.8	41.8	43.5	46.3	44.7	42.4
33	0	42.2	42.5	41.9	41.3	42.1	42.3	42.6	41.9	43.8	46.6	44.2	42.2
38	0	42.4	42.5	41.8	41.5	42.5	42.4	42.7	42.0	44.1	46.4	43.9	42.2
43	0	42.5	41.9	41.8	41.7	42.4	42.4	42.8	42.0	44.5	46.4	43.6	42.0
48	0	42.5	41.9	41.8	41.7	42.6	42.4	42.6	42.1	44.7	46.4	43.3	42.0
53	0	42.5	41.9	41.8	41.8	42.5	42.4	42.6	42.2	45.0	46.4	43.0	42.0
58	0	42.6	41.9	41.8	41.6	42.8	42.6	42.6	42.3	44.4	46.3	42.8	41.8

Thermometer		72.3	72.3	72.2	72.0	71.8	71.6	71.4	71.2	70.8	70.8	70.8	70.9

Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
18	10	0	29.876	65.7	60.7	S.	2.8	0.0	Clear.			
	11	0	29.860	65.3	60.4	S.	3.0	0.0	Stratus on S. horizon.			
	12	0	29.837	66.6	60.0	S.	3.0	0.0	Stratus on S. horizon.			
	13	0	29.824	64.7	59.9	S. by W.	2.5	0.0	Clear.			
	14	0	29.808	64.8	59.9	S.	2.0	0.0	Clear; hazy round horizon.			
	15	0	29.780	63.9	59.1	S.	1.5	0.0	Clear.			
	16	0	29.799	62.5	58.2	S.	1.5	0.0	Hazy round horizon.			
	17	0	29.818	61.3	57.7	S.	Light Air.	0.0	Hazy on horizon, fog N. W.			
	18	0	29.832	63.8	59.8	S.	Light Air.	0.0	Hazy on horizon, fog N. W.			
	19	0	29.842	67.8	61.6	S.	Light Air.	0.0	Hazy on horizon, fog N. W.			
	20	0	29.860	70.3	62.5	E. S. E.	Light Air.	0.0	Dense haze round horizon.			
	21	0	29.880	74.3	65.2	S. S. E.	1.5	0.0	Hazy.			

MAGNETICAL OBSERVATIONS.													January 18th and 19th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	39.9	41.1	41.9	43.1	44.9	45.0	44.2	44.0	43.9	43.2	43.7	43.9	
5	0	39.9	41.1	41.9	43.2	44.8	44.9	44.2	43.9	43.7	43.0	43.8	44.0	
10	0	39.9	41.1	41.9	43.7	44.9	44.8	44.0	43.9	43.6	43.0	44.0	44.0	
15	0	39.8	41.2	41.9	43.9	44.9	44.7	44.0	43.8	43.7	43.0	44.0	44.0	
20	0	39.9	41.5	42.0	44.0	45.0	44.7	43.9	43.7	43.9	43.1	44.0	44.1	
25	0	39.9	41.5	42.0	44.1	45.0	44.7	43.9	44.0	43.9	43.2	44.0	44.1	
30	0	40.0	41.5	42.2	44.2	45.0	44.7	43.9	44.0	43.8	43.3	44.0	44.0	
35	0	40.1	41.5	42.2	44.2	45.0	44.7	43.9	43.9	43.6	43.4	44.0	44.0	
40	0	40.2	41.7	42.5	44.2	45.0	44.6	43.9	43.9	43.5	43.5	44.0	44.1	
45	0	40.6	41.8	42.9	44.2	45.0	44.5	43.9	43.8	43.4	43.5	44.0	44.1	
50	0	40.9	41.8	43.0	44.3	45.0	44.4	43.9	43.8	43.3	43.5	43.9	44.1	
55	0	41.0	41.9	43.2	44.5	45.0	44.3	44.0	43.9	43.3	43.6	43.9	44.1	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fahr. = .00029.	
		2	0	81.4	82.2	82.3	80.3	79.9	81.2	82.2	81.9	80.5	79.1	79.0
7	0	81.5	82.2	82.2	80.5	80.0	81.3	82.2	81.7	80.2	79.1	79.0	79.1	
12	0	81.7	82.3	82.0	80.4	80.0	81.4	82.0	81.3	80.3	79.0	78.9	79.1	
17	0	81.8	82.8	81.9	80.4	80.1	81.5	82.0	81.3	80.2	79.0	79.0	78.9	
22	0	81.9	83.0	81.8	80.2	80.2	81.6	82.1	81.3	80.0	79.0	78.8	78.8	
27	0	81.9	83.0	81.5	80.3	80.3	81.8	82.1	81.4	80.0	79.0	78.6	78.7	
32	0	81.9	83.0	81.2	80.1	80.4	82.0	82.1	81.2	79.9	78.9	78.9	78.9	
37	0	81.9	83.0	81.1	80.0	80.6	82.0	82.1	81.0	79.9	78.9	79.0	79.0	
42	0	82.0	83.0	81.0	79.9	80.7	82.0	82.1	81.0	79.5	78.9	79.0	78.9	
47	0	82.0	83.0	80.9	79.8	80.8	82.1	82.0	81.0	79.3	78.9	79.0	79.0	
52	0	82.0	82.9	80.6	79.8	81.0	82.1	82.0	80.8	79.1	79.0	79.0	79.1	
57	0	82.2	82.7	80.7	79.9	81.0	82.1	82.0	80.6	79.0	79.0	79.0	79.9	

Thermometer		71.5	71.9	72.7	73.3	73.8	74.3	74.5	74.6	74.6	74.6	74.6	74.4
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fahr. = .00005.	
		3	0	41.8	39.4	37.5	36.2	35.7	36.1	37.3	37.9	39.2	40.1	38.8
8	0	41.2	39.4	37.5	36.2	35.7	36.4	37.3	38.3	39.5	40.1	38.8	38.4	
13	0	41.3	39.2	37.5	35.7	35.7	36.4	37.5	38.4	39.6	39.9	38.8	38.1	
18	0	41.2	39.0	37.3	35.5	35.7	36.7	37.7	38.6	39.5	39.9	38.7	38.1	
23	0	41.0	38.7	37.0	35.5	35.7	36.9	37.8	38.6	39.5	39.8	38.6	38.3	
28	0	40.8	38.7	36.8	35.5	35.7	36.9	37.8	38.3	39.6	39.6	38.6	38.5	
33	0	40.5	38.7	36.7	35.5	35.9	36.9	37.8	38.5	39.6	39.4	38.6	38.4	
38	0	40.3	38.4	36.7	35.3	35.9	36.9	37.8	38.6	39.7	39.3	38.4	38.4	
43	0	40.0	38.2	36.4	35.9	35.9	37.2	37.8	38.6	39.9	39.2	38.4	38.4	
48	0	39.7	37.9	36.3	35.9	36.1	37.3	37.7	38.8	40.1	39.1	38.4	38.3	
53	0	39.6	37.8	36.2	35.9	36.1	37.3	37.9	38.8	40.1	38.9	38.2	38.3	
58	0	39.4	37.5	36.2	35.7	36.1	37.3	37.9	38.9	40.1	38.9	38.3	38.3	

Thermometer		71.2	71.8	72.1	72.8	73.5	73.8	74.0	74.2	74.2	74.3	74.2	74.1
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
18	22	0	29.874	75.9	67.3	S. by E.	3.0	0.0	Few light cum. N. E. ; hazy.			
	23	0	29.882	76.9	68.4	S.	3.0	0.1	Cir., cir.-strat., and cumulus round horizon.			
19	0	0	29.874	77.5	68.3	S.	4.5	0.4	Thin cirrus haze scattered, stratus and few cum. on horizon.			
	1	0	29.871	77.4	68.8	S. by E.	4.5	0.4	Thin cirrus haze scattered, stratus and few cum. on horizon.			
	2	0	29.855	76.1	68.1	S. by E.	4.5	0.1	Cum. and stratus round horizon.			
	3	0	29.840	74.9	67.9	S.	4.0	0.0	Few light cumulus detached S. and S. W.			
	4	0	29.832	74.0	67.4	S.	4.0	0.0	Few cumulus S. W. ; haze on horizon.			
	5	0	29.832	72.7	66.8	S.	3.8	0.0	Few cumulus S. ; hazy on horizon.			
	6	0	29.844	70.4	65.8	S. by E.	3.3	0.0	Few cumulus S. and E. horizons ; strat. all round.			
	7	0	29.855	67.4	64.8	S.	3.5	0.3	Dense stratus ; cirro-stratus round horizon.			
	8	0	29.869	66.8	64.2	S. by W.	3.0	0.1	Dense cum.-strat. on S. and E. horizons.			
	9	0	29.869	66.6	63.4	S. by W.	3.0	0.1	Cum.-strat. on horizon.			

February 24th and 25th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.										DECLINATION.	
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	42.4	41.0	41.0	42.7	42.4	42.2	40.9	42.0	41.9	38.5	37.6	38.1
5	0	42.3	41.0	41.8	42.7	42.3	42.1	40.9	42.1	41.9	38.7	37.6	38.3
10	0	42.5	41.2	43.0	42.8	42.2	42.0	40.8	42.1	41.9	38.6	37.6	38.3
15	0	42.5	41.8	43.5	43.0	42.1	42.0	40.8	42.1	41.3	38.7	37.6	38.5
20	0	42.3	42.5	43.9	42.8	42.2	42.0	40.8	42.0	41.1	38.1	37.8	38.6
25	0	42.2	43.0	44.0	42.7	42.1	42.0	40.8	42.1	40.6	38.1	37.5	38.9
30	0	42.1	43.1	44.0	42.7	42.1	41.9	40.9	42.0	40.5	38.7	37.8	38.9
35	0	42.3	43.0	43.9	42.5	42.2	41.8	41.0	42.0	40.0	37.9	37.9	39.2
40	0	42.3	42.3	43.4	42.3	42.2	41.6	40.9	42.0	40.1	37.6	37.9	39.2
45	0	42.0	41.7	43.1	42.3	42.2	41.3	41.0	42.0	39.2	37.9	37.9	39.3
50	0	41.7	41.5	43.0	42.3	42.2	41.0	41.7	40.0	39.1	37.8	37.9	39.7
55	0	41.2	41.3	43.0	42.3	42.1	40.9	42.0	42.0	38.8	37.6	38.1	40.0

		One Scale Division = .00018 parts of the H. F.										HORIZONTAL FORCE.	
M.	S.												
2	0	71.8	74.2	77.0	81.9	78.8	78.6	80.0	79.5	80.4	79.9	79.1	79.7
7	0	71.6	74.0	77.5	82.0	78.5	78.8	79.9	79.9	80.1	79.7	79.4	79.8
12	0	72.0	74.7	78.2	81.7	78.4	79.0	80.1	79.7	80.1	79.8	79.4	79.6
17	0	71.9	76.0	78.6	81.6	78.5	79.0	79.6	79.9	80.0	79.8	79.6	79.5
22	0	72.0	77.9	78.8	81.3	78.5	79.5	79.5	79.8	80.1	79.4	79.8	79.3
27	0	72.5	78.8	79.0	81.0	78.1	79.3	79.3	79.5	79.9	79.5	80.0	79.4
32	0	72.9	79.0	79.5	80.7	78.3	79.3	79.6	79.7	80.0	78.9	80.0	79.3
37	0	73.0	78.7	79.5	80.5	78.3	79.8	79.1	79.9	79.9	79.1	80.0	79.4
42	0	73.0	78.5	80.0	80.0	78.4	80.0	78.9	80.1	79.9	79.0	79.8	79.1
47	0	73.5	78.4	81.0	79.7	78.7	79.6	79.1	80.2	79.8	79.1	79.7	78.9
52	0	73.6	78.4	81.1	79.2	78.2	79.5	79.2	80.5	79.9	79.1	79.8	78.6
57	0	73.8	77.6	81.7	79.3	78.4	80.0	79.2	80.7	80.1	79.0	79.7	78.5

Thermometer		73.6	73.4	73.4	73.3	72.9	72.6	72.3	72.0	71.7	71.5	71.4	71.2
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		One Scale Division = .00015 parts of the V. F.										VERTICAL FORCE.	
M.	S.												
3	0	37.7	38.1	35.4	32.1	34.4	34.9	36.2	35.7	37.1	41.6	40.2	36.6
8	0	37.7	37.8	34.5	32.2	34.4	35.2	36.2	35.4	37.5	41.6	39.9	36.2
13	0	37.6	37.1	33.1	32.1	34.8	35.2	36.2	35.5	38.0	41.6	40.9	36.3
18	0	37.6	35.7	32.6	32.4	34.8	35.2	36.2	35.6	38.6	41.6	39.3	35.8
23	0	37.7	34.3	32.4	32.6	34.8	34.9	36.2	35.7	39.2	41.4	35.9	35.5
28	0	37.7	33.1	32.4	32.8	34.9	35.3	36.2	36.2	39.6	41.7	38.6	35.0
33	0	37.2	32.8	32.0	33.1	34.9	35.6	36.2	36.3	40.2	41.5	38.4	34.5
38	0	37.0	33.7	32.3	33.6	34.9	35.9	36.6	36.5	40.4	41.5	37.9	34.1
43	0	37.2	34.3	32.3	33.7	34.9	35.9	36.6	36.7	41.0	41.1	37.5	33.7
48	0	37.4	34.9	32.0	33.9	34.9	36.0	36.0	36.5	41.2	40.9	37.4	32.9
53	0	37.9	35.1	32.1	34.2	34.9	36.4	35.7	36.6	41.4	40.7	37.0	32.3
58	0	38.2	35.1	32.2	34.1	34.9	36.4	35.7	36.9	41.6	40.3	37.0	31.8

Thermometer		73.3	73.3	73.1	72.9	72.7	72.6	72.4	72.0	71.8	71.5	71.3	71.2
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
24	10	0	29.912	63.9	61.6	S. W. by S.	0.3	0.0	Clear.
	11	0	29.906	62.4	60.0	S. W. by S.	0.3	0.0	Clear.
	12	0	29.897	60.9	58.4	S. S. W.	0.3	0.0	Clear.
	13	0	29.878	60.5	58.4	S. S. W.	0.3	0.5	Horizon covered with a dense fog.
	14	0	29.876	59.4	57.8	S. by W.	0.3	0.0	Fog on horizon.
	15	0	29.868	59.1	57.4	S.	0.3	0.0	Fog.
	16	0	29.874	59.0	57.8	S.	0.3	0.0	Fog.
	17	0	29.872	59.0	57.6	S. W.	0.3	0.0	Fog.
	18	0	29.882	60.1	58.9	W. S. W.	0.0	0.4	Cum. and cum.-strat., with detached cirr.
	19	0	29.879	61.8	59.5	W. S. W.	0.0	0.3	Cum.-strat., cum., cirr., and cirr.-strat.
	20	0	29.881	63.7	60.2	W. by N.	0.5	0.5	Cum. and cirr.; cirr.-strat. in N. and S. horizons.
	21	0	29.878	64.7	59.6	N.W. by W.	1.3	0.9	Cum. and cum.-strat.; cir.-strat. in horizon.

MAGNETICAL OBSERVATIONS.													February 24th and 25th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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.	Sc. Div.
0	0	40.1	43.2	44.5	45.2	45.4	45.1	44.2	44.1	43.8	43.4	43.8	44.0	44.0
5	0	40.4	43.5	44.6	45.2	45.4	45.0	44.1	44.1	43.8	43.4	43.8	44.1	44.1
10	0	40.6	43.6	44.5	45.2	45.4	45.0	44.0	44.1	43.8	43.5	43.8	44.1	44.1
15	0	40.9	43.7	44.8	45.2	45.4	45.0	44.0	44.0	43.5	43.5	43.5	44.0	44.0
20	0	41.2	43.9	44.7	45.5	45.4	44.9	43.9	44.0	43.4	43.5	43.9	43.9	43.9
25	0	41.4	44.0	44.9	45.5	45.4	44.8	44.0	44.0	43.5	43.5	43.9	43.8	43.8
30	0	41.6	44.0	45.0	45.4	45.4	44.5	44.0	44.0	43.6	43.6	44.0	43.8	43.8
35	0	41.9	44.0	44.9	45.5	45.3	44.3	44.0	43.8	43.6	43.7	44.0	43.9	43.9
40	0	42.1	44.0	44.9	45.8	45.2	44.2	44.1	43.9	43.6	43.7	44.0	43.9	43.9
45	0	42.7	44.0	45.0	45.7	45.1	44.2	44.1	43.8	43.5	43.7	44.0	43.8	43.8
50	0	42.8	44.1	45.1	45.6	45.0	44.2	44.1	43.8	43.5	43.8	44.0	43.8	43.8
55	0	43.3	44.2	45.0	45.5	45.0	44.2	44.1	43.8	43.4	43.7	44.0	43.6	43.6

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00029.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	0	78.5	77.9	77.0	78.5	80.1	80.6	80.0	80.6	79.8	79.3	79.2	80.7	
7	0	78.5	77.7	76.7	78.7	80.1	80.3	80.0	80.6	79.9	79.2	79.5	80.4	
12	0	78.2	77.8	76.8	78.8	80.1	80.2	80.2	80.2	79.9	79.1	80.0	80.6	
17	0	78.1	77.5	76.7	79.0	80.1	80.3	80.2	80.0	79.9	79.2	79.4	80.5	
22	0	78.0	77.4	77.2	79.0	80.3	80.1	80.0	79.8	79.8	79.2	79.3	80.3	
27	0	77.6	77.4	77.7	79.0	80.4	80.0	80.6	79.9	79.8	79.2	79.1	80.2	
32	0	77.4	77.4	77.7	79.1	80.4	80.0	80.8	80.0	79.6	79.6	78.8	80.0	
37	0	77.3	77.3	77.8	79.2	80.8	80.1	80.8	79.8	79.5	79.7	78.7	79.9	
42	0	77.5	77.2	78.2	79.7	80.8	80.0	80.7	79.9	79.5	79.4	79.0	79.8	
47	0	77.7	77.2	78.3	79.9	80.3	80.1	80.8	79.9	79.5	79.2	79.1	79.8	
52	0	77.6	77.1	78.2	80.0	80.4	80.2	80.8	79.8	79.4	79.2	79.4	79.8	
57	0	77.8	77.1	78.3	80.0	80.5	80.0	80.7	79.8	79.3	79.1	79.8	80.0	

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
3	0	31.2	28.3	31.0	31.7	33.1	34.7	36.5	36.3	36.5	37.1	36.9	36.1	
8	0	30.6	28.6	31.4	32.1	33.4	34.7	36.5	36.3	36.5	37.1	36.9	35.8	
13	0	30.4	28.8	31.5	32.1	33.4	35.1	36.5	36.3	36.5	37.1	36.9	35.8	
18	0	29.9	29.1	31.8	32.2	33.7	35.1	36.5	36.3	36.7	37.2	36.6	36.2	
23	0	29.5	29.3	31.8	32.2	33.9	35.5	36.8	36.4	36.7	37.2	36.6	36.3	
28	0	29.2	29.5	31.4	32.6	33.9	35.6	36.8	36.4	36.7	37.2	36.8	36.5	
33	0	28.9	29.8	31.7	32.8	34.0	35.6	36.8	36.7	36.7	36.9	36.8	36.4	
38	0	28.7	30.0	31.7	32.8	34.2	35.8	36.4	36.7	36.8	36.9	36.8	36.6	
43	0	28.5	30.4	31.7	32.8	34.2	36.0	36.4	36.7	36.8	36.9	37.0	36.6	
48	0	28.4	30.6	31.7	32.7	34.2	36.0	36.3	36.7	36.8	36.9	36.8	36.9	
53	0	28.4	30.8	31.8	32.9	34.7	36.1	36.3	36.5	37.0	36.9	36.9	36.9	
58	0	28.4	31.0	31.7	33.1	34.7	36.1	36.4	36.5	37.0	36.9	36.6	37.3	

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°			lbs.					
24	22	0	29.868	67.0	60.3	W. by N.	1.3	0.9	Cum. and cum.-strat. blended.			
	23	0	29.856	68.7	60.7	W. N. W.	0.8	0.5	Cirr.-cum. in zenith; cum. and cir.-strat. in horizon.			
25	0	0	29.849	70.0	62.0	W. by N.	1.5	0.5	Cum. and cir.-strat. in dense masses.			
	1	0	29.839	69.0	62.3	W. N. W.	1.8	0.9	Cum., cum.-strat. and cir.-strat. blended.			
	2	0	29.828	68.7	62.4	W. by N.	1.5	0.4	Cirr.-cum. in zenith; cum. and cir.-strat. blended.			
	3	0	29.822	67.0	62.7	W.	1.8	1.0	Cum.-strat. and mist.			
	4	0	29.815	64.3	61.8	W.	0.5	1.0	Cum.-strat. and mist.			
	5	0	29.810	63.8	61.9	W. by S.	0.8	1.0	Cum.-strat. and mist.			
	6	0	29.810	63.4	61.6	W.	0.3	1.0	Cum.-strat. and rain.			
	7	0	29.814	62.9	61.2	W. N. W.	0.3	1.0	Cum.-strat. and rain.			
	8	0	29.822	62.7	61.1	W. N. W.	0.0	1.0	Cir.-cum.-strat. and cum.-strat.			
	9	0	29.828	62.5	60.9	W. N. W.	0.0	1.0	Strat., cum.-strat. and fog.			

March 22nd and 23rd.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		41.8	41.7	41.1	41.9	41.9	40.3	40.0	39.9	39.2	39.4	38.1	37.8
5	0		41.7	41.9	41.0	41.6	41.2	40.1	40.0	39.9	39.4	39.2	37.8	37.9
10	0		41.7	41.9	41.0	41.9	41.1	40.0	40.0	39.7	39.0	39.2	38.0	37.9
15	0		41.6	41.9	41.0	42.0	41.0	40.0	40.0	40.0	38.9	39.0	38.2	37.8
20	0		41.9	41.8	41.0	42.0	40.7	39.8	39.8	40.0	38.9	39.0	38.2	38.0
25	0		41.9	41.5	41.1	42.0	40.7	40.0	39.8	39.8	39.0	38.9	38.2	38.0
30	0		41.9	41.6	41.1	41.9	40.6	39.9	39.8	39.7	38.9	38.9	38.2	38.1
35	0		41.9	41.8	41.1	42.0	40.8	39.9	39.8	39.7	39.1	38.6	38.2	38.5
40	0		41.9	41.8	41.1	42.0	40.9	40.0	39.9	39.8	39.4	38.1	38.2	38.9
45	0		41.5	41.7	41.1	42.0	40.9	39.9	39.7	39.4	39.6	38.0	38.1	39.0
50	0		41.7	41.3	41.0	42.1	40.5	40.0	39.6	39.2	39.3	38.1	37.8	39.2
55	0		41.8	41.1	41.1	42.0	40.4	40.0	39.5	39.2	39.2	37.8	37.6	39.2
			One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.													
2	0		91.7	91.8	94.2	92.6	97.6	94.5	93.7	94.3	94.6	95.5	97.4	97.1
7	0		91.7	91.9	94.3	92.2	96.9	94.3	93.8	94.3	95.0	95.5	97.4	97.5
12	0		91.5	92.0	94.0	92.9	97.0	94.3	94.0	94.3	94.9	95.8	97.2	97.3
17	0		91.5	92.0	94.0	93.8	96.5	93.9	93.9	94.2	95.1	95.9	97.1	97.0
22	0		91.3	91.9	93.9	94.5	96.2	93.7	94.0	94.1	95.1	96.0	96.8	96.8
27	0		91.2	92.0	93.7	95.1	96.0	93.4	94.0	94.0	95.5	96.0	96.3	96.4
32	0		91.2	91.8	93.3	96.1	95.5	93.5	94.3	94.1	95.5	96.1	96.6	96.3
37	0		91.3	92.0	93.1	97.0	95.3	93.6	94.3	94.6	95.2	96.4	96.2	96.0
42	0		91.8	92.9	93.0	97.1	95.4	93.5	94.3	94.3	95.2	96.5	96.3	95.8
47	0		91.9	93.8	92.6	98.0	95.4	93.4	94.5	94.6	95.3	96.8	96.9	95.2
52	0		91.9	94.1	92.3	98.2	94.7	93.7	94.5	94.1	95.6	96.9	97.3	95.1
57	0		91.9	94.2	92.7	98.0	95.0	93.6	94.5	94.2	95.3	97.1	97.4	95.1
Thermometer			63.3	63.3	63.3	63.3	63.2	63.0	63.1	62.9	62.7	62.7	62.6	62.6
			One Scale Division = .00015 parts of the V. F.					VERTICAL FORCE.						
M.	S.													
3	0		39.5	38.9	38.2	39.0	36.1	38.9	39.2	38.2	38.7	39.1	39.2	37.5
8	0		39.4	38.9	38.2	39.0	36.5	39.2	38.7	38.4	38.7	39.5	38.7	37.3
13	0		39.3	38.9	38.2	38.7	37.5	39.6	38.8	38.4	38.9	39.3	38.4	37.3
18	0		39.2	38.6	38.2	38.3	37.9	39.5	38.9	37.8	39.3	39.3	38.0	36.5
23	0		38.9	38.9	38.1	38.1	38.1	39.6	38.9	37.8	39.3	39.4	38.0	36.2
28	0		38.9	39.1	38.2	37.7	38.4	39.6	38.9	37.8	39.3	39.6	38.0	36.2
33	0		38.9	39.1	38.2	37.3	38.2	39.6	38.4	38.2	38.9	39.5	38.3	36.0
38	0		38.9	39.1	38.4	36.8	38.1	39.4	38.4	38.2	38.7	39.5	38.5	36.0
43	0		38.9	39.1	38.5	36.4	38.2	39.5	38.5	38.6	38.8	39.5	38.5	35.6
48	0		38.7	38.8	39.0	36.0	38.2	39.5	38.4	38.6	38.8	39.5	38.5	35.6
53	0		38.7	38.5	39.2	35.4	38.8	39.5	38.5	39.3	39.1	39.5	38.5	35.6
58	0		38.7	38.4	39.2	35.7	38.8	39.2	38.2	39.3	39.1	39.8	37.9	35.6
Thermometer			63.3	63.6	63.6	63.6	63.6	63.3	63.3	63.2	63.2	63.0	62.8	62.9
Increasing Numbers denote decreasing Westerly Declination.														
METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.					
				Dry.	Wet.	Direction.	Force.							
D.	H.	M.	In.	°	°		lbs.							
22	10	0	30.104	59.4	53.5	S.	4.0	0.0	Clear.					
	11	0	30.096	59.0	53.3	S.	3.8	0.0	Clear.					
	12	0	30.080	58.9	52.6	S. by E.	3.8	0.0	Clear.					
	13	0	30.068	59.0	52.7	S. by E.	2.0	0.0	Clear.					
	14	0	30.045	59.1	53.1	S. by E.	3.0	0.0	Clear.					
	15	0	30.046	58.5	52.0	S. S. E.	2.8	0.0	Clear.					
	16	0	30.032	58.0	51.4	S. by E.	3.8	0.0	Clear.					
	17	0	30.016	58.5	51.6	S. by E.	4.0	0.0	Strat. in S. horizon; a few cirr.-strat. N. E.					
	18	0	30.000	59.3	52.1	S. by E.	5.0	0.0	Cum.-strat. in N. and N. E. horizons.					
	19	0	30.006	61.5	53.4	S. S. E.	2.0	0.0	Cum. and cirr.-strat in N. and N. E. horizons.					
	20	0	29.990	64.2	55.2	S. S. E.	5.0	0.1	Cirr.-strat. and cum. blended; haze in N. horizon.					
	21	0	29.972	67.2	55.8	S. by E.	2.8	0.1	Cirr.-cum.; and cirr.-strat. N.					

MAGNETICAL OBSERVATIONS. March 22nd and 23rd.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
		22h.	23h.	0h.	1h.	2h.	3h.	4h.	5h.	6h.	7h.	8h.	9h.
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	39.7	41.5	42.2	44.0	43.9	43.7	42.9	41.8	40.9	40.1	41.9	42.0
5	0	39.9	41.8	42.4	44.2	44.0	43.6	42.7	41.5	40.8	40.0	42.0	42.0
10	0	40.0	41.8	42.3	44.0	43.7	43.5	42.6	41.8	40.2	40.0	42.0	42.0
15	0	40.4	41.8	42.5	43.6	43.8	43.5	42.5	41.8	40.5	40.1	42.0	42.0
20	0	40.6	41.8	42.6	43.6	43.9	43.3	42.2	41.8	40.9	40.9	42.0	42.0
25	0	40.8	41.9	42.8	43.6	43.8	43.4	42.1	41.5	41.0	41.0	42.0	41.9
30	0	40.9	42.0	43.2	43.9	43.7	43.4	42.0	41.2	41.0	41.0	42.0	41.9
35	0	41.0	42.1	43.7	43.9	43.7	43.1	42.0	41.2	40.5	41.1	42.0	41.9
40	0	41.1	42.1	43.8	43.9	43.7	43.1	42.0	41.1	40.2	41.1	42.0	41.9
45	0	41.1	42.1	43.7	43.6	43.7	43.1	42.0	41.1	40.9	41.6	42.0	41.8
50	0	41.4	42.1	43.8	43.6	44.0	43.0	42.0	41.0	40.9	41.8	42.0	41.8
55	0	41.6	42.1	43.8	43.8	43.9	43.0	41.9	41.0	41.0	41.9	42.0	41.8

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00029.											
2	0	95.1	95.0	95.0	95.8	92.0	90.7	90.3	89.5	87.2	88.1	88.1	87.6
7	0	95.1	94.9	94.7	95.1	91.8	90.7	90.5	89.1	86.7	90.0	88.0	87.6
12	0	95.4	94.7	94.9	94.7	91.6	90.6	90.3	89.0	86.0	90.8	87.7	87.8
17	0	95.3	94.6	94.8	94.6	91.5	90.7	90.7	88.9	85.2	91.0	87.2	87.9
22	0	95.1	94.5	94.9	94.4	91.5	90.7	89.9	88.9	84.9	90.7	87.2	88.0
27	0	95.0	94.6	95.1	94.5	91.4	90.5	89.5	88.8	84.8	90.1	87.1	88.0
32	0	95.0	94.8	95.6	94.8	91.4	90.4	89.2	89.0	85.9	89.7	87.0	88.1
37	0	95.0	95.0	95.8	93.1	91.1	90.5	89.0	89.0	86.9	89.8	87.0	88.2
42	0	94.9	95.0	95.3	92.8	91.1	90.3	89.0	89.1	86.8	89.2	87.0	88.2
47	0	95.1	94.8	95.1	92.4	91.3	90.2	89.0	88.9	86.8	89.0	87.1	88.0
52	0	95.1	94.8	95.5	92.2	91.0	90.4	88.9	88.3	86.5	88.8	87.2	88.3
57	0	95.0	95.0	95.4	92.2	90.9	90.4	89.2	88.1	87.4	88.3	87.3	88.3

Thermometer	62.7	63.0	63.7	64.0	64.9	65.3	65.6	65.8	66.1	66.2	66.2	66.1
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
3	0	35.3	33.2	31.7	30.0	33.9	35.4	37.1	38.7	39.1	38.6	35.1	36.2
8	0	35.3	33.0	31.4	30.3	33.9	35.9	37.2	38.6	39.6	37.9	35.3	36.0
13	0	35.0	33.0	31.3	30.9	34.1	35.9	37.2	38.6	40.1	36.8	35.7	36.0
18	0	34.6	32.7	31.1	31.4	34.0	36.4	37.4	38.6	40.3	36.1	35.9	36.0
23	0	34.5	32.7	31.0	31.4	34.0	36.4	37.7	38.6	40.2	35.6	36.1	35.6
28	0	34.5	32.2	30.8	31.5	34.2	36.1	38.0	38.6	40.2	35.4	36.3	35.6
33	0	34.5	32.2	30.2	31.8	34.5	36.9	38.2	38.6	40.1	35.5	36.3	35.6
38	0	34.3	31.7	30.1	32.5	34.7	36.9	38.3	38.6	40.1	35.3	36.3	35.6
43	0	34.3	31.7	30.3	32.7	34.8	36.9	38.3	38.6	39.4	35.1	36.3	35.6
48	0	33.9	31.7	30.3	33.2	34.8	36.8	38.3	38.6	39.1	35.1	36.3	35.6
53	0	33.7	31.7	30.3	33.3	34.9	37.0	38.4	38.8	38.9	35.1	36.2	35.6
58	0	33.2	31.7	30.4	33.6	35.2	37.0	38.4	38.9	38.6	35.1	36.2	35.6

Thermometer	63.0	63.4	64.3	64.3	64.6	65.2	65.4	65.7	65.9	66.0	66.1	66.0
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
22	22	0	29.952	68.9	56.8	S. by E.	2.3	0.4	.1 cirr.-cum. in zenith; cirr.-strat., cirr.-cum. and cum. blended.
	23	0	29.918	67.8	57.8	S. by E.	3.0	0.6	Cirr.-cum., cirr.-strat. and cum. blended.
23	0	0	29.945	69.4	59.6	S. by E.	2.5	0.7	Cirr., cirr.-strat., cirr.-cum. and cum. blended from N. to S.
	1	0	29.929	-69.4	59.6	S.	3.8	0.7	Cum., cirr.-strat. and cirr.-cum. blended.
	2	0	29.901	67.7	59.8	S.	4.0	0.5	Cirr., cirr.-strat. and cum. blended; haze in horizon.
	3	0	29.896	67.2	59.2	S. by W.	4.0	0.6	Cum. and cirr.-cum.; cirr.-strat. in N. and E. horizons.
	4	0	29.887	66.4	58.6	S.	4.0	0.5	Cum. and cirr.-cum.; cirr.-strat. in N. and E. horizons.
	5	0	29.922	65.3	58.0	S. by W.	4.0	0.7	Cum. and cirr.-strat. blended.
	6	0	29.912	63.8	57.8	S. by W.	3.7	0.6	Cum.
	7	0	29.930	62.5	57.6	S. by W.	3.0	0.4	Cum.
	8	0	29.930	61.9	57.8	S. by W.	3.0	0.6	Cum. and cum.-strat.
	9	0	29.922	61.8	57.5	S. by W.	3.0	0.9	Cum. and cum.-strat.

May 26th and 27th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.					DECLINATION.						
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	53.2	53.0	52.7	52.3	51.5	52.6	51.1	51.1	52.9	54.8	53.9	51.0
5	0	53.8	52.9	52.8	52.3	52.0	52.6	51.2	51.2	52.9	54.8	53.8	50.9
10	0	53.7	52.8	52.8	52.4	52.0	52.7	51.0	51.3	53.0	54.8	53.5	50.8
15	0	53.4	52.5	52.3	52.0	51.9	52.8	50.9	51.7	53.1	54.9	53.2	50.5
20	0	53.7	52.3	52.8	51.9	52.3	52.7	50.8	51.7	53.2	54.9	53.1	50.4
25	0	53.9	52.3	52.7	51.8	52.3	52.4	50.7	51.9	53.8	54.8	52.9	50.2
30	0	53.8	52.1	52.7	51.7	52.3	52.0	50.9	52.0	53.8	54.7	52.8	50.1
35	0	53.6	52.1	52.1	51.6	52.4	51.8	50.0	52.0	54.0	54.4	52.2	50.1
40	0	53.3	52.2	52.0	51.5	52.4	51.7	50.1	52.0	54.1	54.3	52.1	50.1
45	0	53.6	52.2	51.9	51.7	52.4	51.6	50.2	52.1	54.2	54.2	51.9	50.1
50	0	53.5	52.2	51.9	51.7	52.6	51.4	51.1	52.4	54.4	54.1	51.3	49.9
55	0	53.4	52.6	52.3	51.4	52.7	51.2	51.2	52.7	54.6	54.0	51.1	49.8

		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.	51.7	50.3	51.5	51.1	48.8	50.3	51.6	52.4	53.7	55.2	58.0	59.8
2	0	51.7	50.3	51.5	51.1	48.8	50.3	51.6	52.4	53.7	55.2	58.0	59.8
7	0	53.9	51.0	51.3	50.9	49.0	50.8	52.0	52.6	53.8	55.7	58.0	59.9
12	0	54.8	51.6	51.2	50.7	49.0	51.3	52.1	52.7	54.0	55.9	58.1	59.9
17	0	54.5	52.0	51.9	50.3	49.0	51.6	51.8	52.7	54.1	56.1	58.1	60.1
22	0	53.9	52.1	52.8	50.1	49.6	51.6	51.8	52.9	54.2	56.3	58.1	60.2
27	0	53.2	52.2	52.6	50.0	49.7	51.7	51.6	53.0	54.2	56.7	58.2	60.3
32	0	52.8	51.9	52.6	49.9	49.4	51.4	51.8	53.0	54.3	56.9	58.4	60.7
37	0	52.0	51.6	51.4	49.9	49.9	51.7	51.7	53.0	54.6	57.1	58.3	60.3
42	0	51.2	51.4	51.5	49.9	49.7	51.7	51.8	53.1	54.8	57.3	58.7	60.3
47	0	50.9	51.1	51.8	49.5	49.8	51.8	52.0	53.2	55.0	57.6	59.1	60.1
52	0	50.2	51.1	51.2	49.1	50.0	51.8	52.2	53.2	55.0	57.8	59.3	58.7
57	0	50.0	51.6	51.4	49.0	50.2	51.5	52.2	53.4	55.1	57.9	59.6	58.5

Thermometer		60.5	60.5	60.7	60.8	60.8	60.8	60.8	60.8	60.9	60.7	60.4	60.0
		60.5	60.5	60.7	60.8	60.8	60.8	60.8	60.8	60.9	60.7	60.4	60.0

		One Scale Division = .00018 parts of the V. F.					VERTICAL FORCE.						
M.	S.	49.9	48.1	47.5	48.2	49.0	48.0	47.3	46.2	44.3	43.5	44.8	45.9
3	0	49.9	48.1	47.5	48.2	49.0	48.0	47.3	46.2	44.3	43.5	44.8	45.9
8	0	49.0	48.1	47.5	48.2	48.8	47.5	47.2	46.2	43.7	43.8	45.1	45.7
13	0	48.5	48.1	47.8	48.3	48.8	47.3	47.1	45.7	43.6	43.9	45.2	45.7
18	0	48.1	48.0	47.8	48.9	49.0	47.2	47.1	45.5	43.4	43.9	45.4	46.0
23	0	47.6	48.0	47.5	48.9	48.8	47.0	47.2	45.4	43.4	44.0	45.7	46.3
28	0	47.6	48.0	47.5	48.9	48.6	47.3	46.9	45.2	43.2	44.2	45.8	46.4
33	0	47.6	48.0	47.5	48.9	48.5	47.3	46.9	45.0	43.2	44.2	46.0	46.4
38	0	47.5	48.0	48.1	48.9	48.4	47.3	46.9	44.8	43.1	44.4	46.1	46.2
43	0	47.6	48.0	48.5	48.9	48.5	47.3	46.9	44.7	43.1	44.4	46.1	46.1
48	0	47.6	48.0	48.5	48.9	48.3	47.2	46.6	44.5	43.3	44.5	46.1	46.0
53	0	47.9	48.0	48.5	48.9	48.2	47.2	46.6	44.3	43.3	44.7	45.9	46.6
58	0	48.1	47.5	48.2	49.3	47.9	47.3	46.4	44.3	43.5	44.8	45.9	46.9

Thermometer		60.8	61.2	61.3	61.3	61.3	61.1	61.2	61.2	61.3	61.1	60.8	60.6
		60.8	61.2	61.3	61.3	61.3	61.1	61.2	61.2	61.3	61.1	60.8	60.6

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
26	10	0	30.236	57.4	55.8	S. W.	3.0	0.0	Clear.
	11	0	30.236	57.6	55.5	S. W. by S.	3.0	0.0	Clear.
	12	0	30.213	55.9	54.2	W. S. W.	2.5	0.0	Clear.
	13	0	30.217	57.6	55.0	S. W. by S.	5.0	0.0	Clear.
	14	0	30.207	55.1	53.3	S. W.	Light Air.	0.0	Clear.
	15	0	30.195	56.1	54.2	S. W. by S.	Light Air.	0.0	Clear.
	16	0	30.195	54.9	53.3	S. W.	Light Air.	0.0	Clear, starlight.
	17	0	30.201	52.2	51.2	S. W. by S.	Light Air.	0.0	Clear, starlight.
	18	0	30.197	50.3	49.4	S. by W.	Light Air.	0.0	Clear.
	19	0	30.205	49.7	49.1	S. S. W.	Light Air.	0.0	Clear.
	20	0	30.214	56.6	54.7	S. W. by S.	Light Air.	0.0	Clear.
	21	0	30.216	60.4	57.6	S. W. by S.	Light Air.	0.0	Light haze on horizon.

MAGNETICAL OBSERVATIONS.													May 26th and 27th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0' 751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	49·9	49·9	50·8	50·6	51·5	52·0	51·6	51·5	52·0	52·0	52·7	52·8	
5	0	49·9	50·0	50·8	50·5	51·5	52·0	51·6	51·5	52·0	52·0	52·6	52·9	
10	0	49·7	50·1	50·4	50·5	51·5	52·0	51·6	51·6	52·0	52·1	52·5	52·9	
15	0	49·8	50·2	50·5	50·8	51·5	52·0	51·6	51·7	52·0	52·2	52·7	52·9	
20	0	49·7	50·6	50·4	50·9	51·5	52·0	51·7	51·8	52·0	52·2	52·8	52·7	
25	0	49·2	50·8	50·2	50·9	51·6	52·0	51·5	51·8	52·0	52·2	52·9	52·4	
30	0	49·0	50·9	50·3	51·0	51·6	51·7	51·4	51·8	52·0	52·2	52·9	52·2	
35	0	49·1	50·9	50·3	50·9	51·8	51·7	51·4	51·8	52·0	52·2	52·9	52·2	
40	0	49·2	50·7	50·3	50·9	52·0	51·6	51·4	51·8	52·0	52·5	52·9	52·1	
45	0	49·4	50·8	50·3	51·1	52·0	51·6	51·5	51·9	52·0	52·5	52·8	52·1	
50	0	49·6	50·7	50·5	51·3	52·0	51·6	51·5	52·0	52·0	52·6	52·4	52·1	
55	0	49·9	50·8	50·6	51·4	51·9	51·6	51·5	52·0	52·0	52·6	52·2	52·2	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = ·00028.	
		59·0	55·7	53·0	51·0	49·5	49·0	49·7	49·1	48·1	46·8	45·8	46·9	
2	0	59·0	55·1	53·0	51·0	49·5	48·9	49·8	49·0	48·1	46·4	46·0	46·8	
7	0	59·0	55·1	52·8	50·7	49·3	49·0	49·7	48·9	48·0	46·3	46·1	46·8	
12	0	59·0	55·1	52·7	50·7	49·0	49·1	49·5	48·8	47·8	46·3	46·0	46·8	
17	0	58·2	55·1	52·5	50·7	49·0	49·3	49·5	48·7	47·5	46·3	45·9	46·8	
22	0	58·2	55·1	52·5	50·7	49·0	49·3	49·5	48·7	47·5	46·3	45·9	46·8	
27	0	56·4	55·0	52·4	50·5	48·8	49·0	49·3	48·4	47·5	46·2	45·8	46·8	
32	0	56·0	54·9	52·1	50·4	48·8	48·7	49·2	48·2	47·2	46·1	45·8	46·7	
37	0	56·1	54·8	52·0	49·9	49·0	48·8	49·2	48·1	47·1	46·0	45·9	46·5	
42	0	56·2	54·0	51·9	50·0	49·0	48·9	49·3	48·5	47·1	46·0	45·9	46·3	
47	0	56·2	53·8	51·8	49·9	49·0	48·9	49·3	48·7	47·1	45·9	46·0	46·4	
52	0	56·0	53·3	51·5	49·7	48·8	49·3	49·2	48·5	47·1	45·9	46·0	46·4	
57	0	56·0	53·1	51·1	49·7	48·8	49·7	49·1	48·2	47·0	45·7	46·5	46·4	

Thermometer		59·8	59·9	60·5	60·7	61·3	61·6	62·1	62·5	62·7	63·0	63·0	62·7
3	0	46·8	47·2	47·5	48·6	48·1	47·9	47·5	47·4	46·7	47·1	47·3	47·4
8	0	46·8	47·4	47·7	48·6	48·1	47·8	47·5	47·4	46·7	47·1	47·4	47·1
13	0	46·6	47·4	47·8	48·5	48·1	47·9	47·3	47·4	46·7	47·1	47·4	47·1
18	0	46·2	47·2	48·1	49·0	48·3	47·6	47·4	47·1	46·9	47·1	47·4	47·1
23	0	46·2	46·9	48·3	49·0	48·3	47·5	47·7	47·1	47·1	47·1	47·0	47·1
28	0	47·3	46·9	48·5	48·3	48·4	47·7	47·7	47·1	47·1	47·1	47·2	47·1
33	0	47·9	46·9	48·5	48·3	48·4	47·9	47·8	47·3	47·1	47·1	47·4	47·1
38	0	47·9	46·9	48·5	48·5	48·4	48·0	47·8	47·4	47·1	47·1	47·5	47·2
43	0	47·8	46·9	48·5	48·4	48·4	47·7	47·7	47·2	47·1	47·1	47·5	47·4
48	0	47·4	47·0	48·5	48·4	48·4	47·9	47·6	47·2	47·1	47·1	47·5	47·5
53	0	47·4	47·0	48·5	48·4	48·4	47·9	47·6	47·2	47·1	47·1	47·5	47·5
58	0	47·4	47·3	48·5	48·5	48·0	47·5	47·5	46·7	47·1	47·1	47·4	47·5

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	Ir.	°	°				
26	22	0	30·217	63·2	58·8	S. S. W.	Light Air.	0·0	Clear.
	23	0	30·204	65·1	60·8	S. S. W.	Light Air.	0·0	Clear.
27	0	0	30·181	66·4	62·0	S. S. W.	Light Air.	0·0	Clear.
	1	0	30·159	67·3	62·7	S. S. W.	Light Air.	0·0	Clear.
	2	0	30·141	67·2	62·7	S. S. W.	Light Air.	0·0	Stratus on horizon.
	3	0	30·144	66·0	62·3	S. W. by S.	Light Air.	0·0	Light haze round horizon.
	4	0	30·142	63·4	60·8	S. W. by S.	Light Air.	0·0	Light haze; sea sounding.
	5	0	30·134	60·5	58·7	S. W. by S.	Light Air.	0·0	Haze; stratus on S. horizon.
	6	0	30·140	58·5	55·5	S. W. by S.	Light Air.	0·0	Clear.
	7	0	30·140	59·2	55·6	S. W. by S.	Light Air.	0·0	Clear.
	8	0	30·135	56·6	54·5	S. S. W.	Light Air.	0·0	Clear.
	9	0	30·128	54·1	53·6	S. S. W.	Light Air.	0·0	Clear.

June 21st and 22nd.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.										DECLINATION.		
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	54.1	54.0	54.1	54.8	55.0	56.0	55.6	55.7	55.2	55.1	53.2	51.7	
5	0	54.2	54.0	54.2	54.8	55.0	56.0	55.6	55.8	55.2	55.1	53.1	51.3	
10	0	54.2	54.0	54.2	54.8	55.1	56.0	55.5	56.0	55.1	55.0	53.0	51.3	
15	0	54.2	54.0	54.2	54.8	55.2	55.8	55.6	55.9	55.1	55.0	52.9	51.2	
20	0	54.1	54.0	54.2	54.9	55.4	55.9	55.7	55.8	55.1	54.8	52.8	51.1	
25	0	54.1	54.0	54.1	54.9	55.5	56.0	55.6	55.9	55.2	54.6	52.5	51.0	
30	0	54.0	54.0	54.2	55.0	55.5	56.0	55.5	55.9	55.2	54.3	52.2	51.1	
35	0	54.0	54.0	54.2	55.0	56.0	56.0	55.5	55.4	55.2	54.2	52.2	51.0	
40	0	54.0	54.1	54.3	55.0	56.1	56.1	55.4	55.4	55.3	54.1	52.0	51.0	
45	0	54.1	54.1	54.3	55.0	56.1	56.0	55.5	55.2	55.2	54.0	52.0	51.0	
50	0	54.0	54.2	54.5	55.0	56.1	55.9	55.6	55.2	55.2	53.8	51.9	50.9	
55	0	54.0	54.1	54.7	55.0	56.0	55.7	55.7	55.4	55.2	53.8	51.8	50.9	

		One Scale Division = .00018 parts of the H. F.										HORIZONTAL FORCE.		
M.	S.													
2	0	59.2	58.0	58.0	57.9	57.1	58.4	58.6	58.3	58.9	59.8	61.1	63.0	
7	0	59.0	58.1	58.1	57.8	57.1	58.4	58.6	58.3	58.9	59.9	61.2	63.0	
12	0	59.0	58.1	58.0	57.8	57.1	58.5	58.6	58.3	58.9	60.0	61.6	63.1	
17	0	58.9	58.1	57.9	57.8	57.3	58.5	58.5	58.3	59.0	60.1	61.8	63.0	
22	0	58.9	58.0	57.9	57.8	57.3	58.6	58.5	58.6	59.0	60.1	62.0	63.0	
27	0	59.0	58.0	57.9	57.9	57.4	58.5	58.5	58.7	59.1	60.3	62.2	62.9	
32	0	59.0	58.0	57.9	57.8	57.5	58.4	58.4	58.6	59.1	60.6	62.4	62.7	
37	0	59.0	58.0	57.9	57.6	57.8	58.5	58.4	58.6	59.2	60.7	62.7	62.5	
42	0	59.0	58.0	57.9	57.4	57.9	58.5	58.6	58.7	59.4	60.8	62.9	62.3	
47	0	58.9	57.9	57.9	57.3	58.0	58.6	58.4	58.7	59.6	60.9	63.0	62.2	
52	0	58.6	57.9	57.9	57.2	58.2	58.6	58.4	58.8	59.7	60.9	63.0	62.1	
57	0	59.0	57.9	57.9	57.1	58.3	58.6	58.3	58.8	59.8	61.0	63.0	62.0	

Thermometer													
		56.5	56.7	57.0	57.2	57.4	57.2	57.4	57.4	57.6	57.7	57.6	57.3

		One Scale Division = .00018 parts of the V. F.										VERTICAL FORCE.		
M.	S.													
3	0	40.7	40.8	40.4	40.1	39.5	38.8	38.9	39.0	39.1	39.0	40.5	41.6	
8	0	40.7	41.0	40.4	40.1	39.5	38.8	38.9	39.0	39.1	39.0	40.5	41.6	
13	0	40.7	40.9	40.2	40.1	39.5	38.6	38.9	39.0	39.1	39.4	40.5	41.6	
18	0	40.9	40.8	40.2	39.8	39.5	38.8	38.9	39.0	39.1	39.4	40.7	41.6	
23	0	40.9	40.9	40.2	39.7	39.2	38.8	38.9	39.0	39.1	39.6	41.3	41.6	
28	0	40.9	40.9	40.2	39.6	39.2	38.6	38.9	39.0	39.1	39.6	41.3	41.6	
33	0	40.9	40.9	40.2	39.6	39.0	38.5	39.0	39.1	39.0	39.8	41.6	41.6	
38	0	40.8	40.7	40.1	39.6	38.7	38.5	39.0	39.1	39.0	40.0	41.6	41.6	
43	0	40.7	40.7	40.1	39.6	38.7	38.5	39.1	39.1	39.0	40.0	41.6	41.6	
48	0	40.7	40.7	40.1	39.6	38.6	38.8	39.2	39.1	39.0	40.2	41.6	41.6	
53	0	40.7	40.7	40.1	39.6	38.7	38.8	39.0	39.1	39.0	40.2	41.6	41.4	
58	0	40.9	40.7	40.1	39.5	38.7	38.9	39.0	39.1	39.0	40.2	41.6	41.6	

Thermometer													
		56.7	57.0	57.3	57.4	57.5	57.4	57.5	57.6	57.6	57.7	57.7	57.4

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
21	10	0	30.122	55.7	54.3	W. by N.	2.3	0.9	Cum.-strat.				
	11	0	30.139	55.2	54.1	N. W. by W.	Light Air.	0.9	Cum.-strat.				
	12	0	30.148	55.1	53.8	W. N. W.	Light Air.	1.0	Cirr. cum.-strat.				
	13	0	30.151	54.3	53.2	W. N. W.	Light Air.	0.4	Cum.-strat. round horizon; dull.				
	14	0	30.161	53.0	52.1	W. N. W.	Light Air.	0.6	Cirr. and cirr.-strat.; mountains covered.				
	15	0	30.162	52.8	52.0	W. N. W.	Light Air.	1.0	Cum.-strat. and cirr.-cum. strat.; mountains covered.				
	16	0	30.162	53.0	52.2	W. N. W.	Light Air.	1.0	Cum.-strat. and cirr.-strat.				
	17	0	30.170	53.1	52.4	W. N. W.	Light Air.	1.0	Cum.-strat. and cirr.-strat.				
	18	0	30.185	53.0	52.4	W. N. W.	Light Air.	1.0	Cum. and cum.-strat.				
	19	0	30.213	52.8	52.2	W. N. W.	Light Air.	0.5	Detached cum.				
	20	0	30.225	52.8	52.8	N. N. W.	Light Air.	0.5	Cum. and cum.-strat.				
	21	0	30.231	55.0	54.4	N. N. W.	Light Air.	0.5	Cum. and cum.-strat.				

MAGNETICAL OBSERVATIONS.													June 21st and 22nd.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	50.9	51.3	52.9	53.8	55.0	54.9	54.7	54.1	54.1	54.4	54.7	54.7	
5	0	50.9	51.8	53.0	53.9	55.0	54.9	54.6	54.1	54.1	54.4	54.7	54.8	
10	0	50.9	51.9	53.1	54.0	55.0	54.9	54.3	54.1	54.2	54.4	54.7	54.9	
15	0	50.9	52.1	53.1	54.1	55.0	54.9	54.4	54.1	54.2	54.5	54.8	54.9	
20	0	50.8	52.2	53.1	54.2	55.0	54.9	54.4	54.1	54.1	54.5	54.7	54.9	
25	0	50.7	52.2	53.2	54.5	55.0	54.9	54.4	54.1	54.1	54.6	54.7	54.9	
30	0	50.7	52.3	53.2	54.7	55.0	54.9	54.1	54.1	54.2	54.5	54.7	54.9	
35	0	50.8	52.5	53.2	54.8	55.0	54.9	54.1	54.1	54.3	54.6	54.8	54.9	
40	0	50.9	52.6	53.3	54.9	55.0	54.9	54.1	54.1	54.3	54.6	54.7	54.9	
45	0	51.0	52.7	53.3	54.9	55.0	54.8	54.1	54.1	54.3	54.6	54.7	54.9	
50	0	51.1	52.8	53.4	54.9	55.0	54.8	54.1	54.1	54.3	54.7	54.7	54.9	
55	0	51.2	52.9	53.5	54.9	55.0	54.8	54.1	54.1	54.4	54.7	54.7	54.9	
M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00027.	
		61.8	59.0	57.5	57.1	58.0	59.0	60.1	59.9	59.1	58.3	57.7	57.2	
2	0	61.6	58.8	57.5	57.1	58.1	59.1	60.0	59.7	59.0	58.2	57.7	57.2	
7	0	61.2	58.7	57.4	57.1	58.1	59.1	60.0	59.6	58.9	58.1	57.7	57.2	
12	0	61.0	58.5	57.2	57.2	58.1	59.2	59.9	59.6	58.0	58.2	57.6	57.2	
17	0	60.8	58.2	57.2	57.3	58.2	59.4	60.0	59.6	58.8	58.0	57.5	57.2	
22	0	60.5	58.1	57.1	57.3	58.4	59.8	60.0	59.6	58.7	57.9	57.4	57.2	
27	0	60.2	58.1	57.1	57.3	58.6	59.9	60.0	59.5	58.7	57.8	57.5	57.2	
32	0	60.1	58.0	57.1	57.3	58.7	60.0	60.0	59.5	58.7	57.8	57.4	57.1	
37	0	60.0	57.9	57.1	57.3	58.6	60.0	60.0	59.3	58.5	57.8	57.4	57.0	
42	0	59.8	57.6	57.1	57.7	58.7	60.0	60.0	59.3	58.4	57.8	57.3	57.0	
47	0	59.4	57.5	57.1	57.9	58.9	60.0	59.9	59.3	58.4	57.8	57.3	57.0	
52	0	59.1	57.5	57.1	58.0	58.9	60.1	60.0	59.2	58.4	57.7	57.3	57.0	
57	0													
Thermometer		57.4	57.4	57.5	57.7	57.8	58.1	58.3	58.5	58.7	58.8	58.8	58.8	
M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = 0.0005.	
		41.4	40.9	39.2	39.0	38.2	39.4	39.9	39.9	40.0	39.7	39.6	39.7	
3	0	41.4	39.8	39.2	39.0	38.2	39.4	40.1	40.1	40.0	39.6	39.7	39.7	
8	0	41.2	39.8	39.2	39.0	38.2	39.7	40.2	40.1	40.0	39.7	39.6	39.7	
13	0	41.2	39.8	39.2	39.0	38.4	39.9	40.2	40.1	39.9	39.8	39.6	39.7	
18	0	41.0	39.5	39.2	38.7	38.4	40.0	40.1	39.9	39.9	39.7	39.6	39.7	
23	0	41.0	39.5	39.4	38.7	38.5	40.0	40.0	40.0	39.9	39.7	39.7	39.7	
28	0	40.8	39.2	39.4	38.7	38.6	40.0	40.0	40.0	39.9	39.7	39.7	39.7	
33	0	40.8	39.2	39.1	38.7	38.6	40.0	40.0	39.9	39.9	39.7	39.7	39.7	
38	0	40.6	39.2	39.2	38.5	38.8	40.0	40.0	39.9	39.9	39.7	39.7	39.7	
43	0	40.6	39.2	39.2	38.5	38.9	40.0	40.0	40.1	39.7	39.6	39.7	39.7	
48	0	40.3	39.2	39.2	38.5	39.1	40.0	40.0	39.9	39.7	39.6	39.7	39.6	
53	0	40.3	39.2	39.2	38.2	39.3	40.1	39.9	39.9	39.7	39.6	39.7	39.6	
58	0													
Thermometer		57.5	57.6	57.7	57.9	58.0	58.3	58.5	58.8	58.9	59.0	59.1	59.1	

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
21	22	0	30.225	56.1	55.0	N. N. W.	Light Air.	0.7	Cum. and cum.-strat.
	23	0	30.197	57.5	56.2	N. W. by N.	Light Air.	0.7	Cum. and cum.-strat.
22	0	0	30.170	57.8	56.4	N. W.	Light Air.	1.0	Cum. and cum.-strat.
	1	0	30.136	57.9	57.1	N. W. by W.	Light Air.	1.0	Cum. and cum.-strat.
	2	0	30.124	57.7	56.3	N. W. by W.	0.5	0.7	Cum. and cum.-strat.
	3	0	30.106	57.4	55.9	N. W. by W.	0.5	0.7	Cum. and cum.-strat.
	4	0	30.094	56.5	55.0	N. W. by W.	0.5	0.1	Cum. round horizon; few cirr.
	5	0	30.082	55.3	53.2	W. N. W.	0.5	0.3	Cum. and strat.
	6	0	30.073	55.5	53.4	N. W. by W.	0.5	0.0	Few cum.-strat. S.; cirr.-cum. E.
	7	0	30.059	54.9	53.4	N. W.	0.5	0.0	Dull starlight.
	8	0	30.045	55.2	54.3	N. N. W.	0.5	0.9	Strat. and cirr.-strat.
	9	0	30.021	54.4	53.8	N. W. by N.	0.5	1.0	Strat. and mist.

July 19th and 20th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		54.9	55.0	54.8	55.1	55.0	55.0	54.0	54.0	54.5	55.1	53.4	51.2
5	0		54.9	55.0	54.8	55.1	54.9	54.9	54.0	54.0	54.5	55.0	53.3	51.1
10	0		54.8	55.0	54.8	55.2	54.9	54.9	54.0	54.0	54.5	55.0	53.1	51.1
15	0		54.8	54.9	54.8	55.2	55.0	54.9	54.0	54.1	54.6	54.9	53.0	51.0
20	0		54.8	54.7	54.8	55.1	55.0	54.8	54.0	54.0	54.8	54.7	52.9	51.1
25	0		54.8	54.7	54.8	55.2	54.9	54.9	54.0	54.0	54.9	54.8	52.6	51.0
30	0		54.8	54.7	54.8	55.0	54.9	55.0	54.9	54.0	54.9	54.2	52.3	51.0
35	0		54.8	54.7	54.8	55.0	55.0	55.0	54.7	54.1	55.0	54.1	52.2	51.0
40	0		54.9	54.6	54.9	55.0	55.0	55.0	54.2	54.3	55.0	54.0	52.0	51.0
45	0		54.9	54.7	54.9	55.0	55.0	55.0	54.2	54.3	55.0	53.8	51.9	50.9
50	0		55.0	54.8	55.0	55.0	55.0	55.0	54.0	54.4	55.0	53.7	51.6	50.9
55	0		55.0	54.7	55.0	55.0	55.0	55.0	54.0	54.4	55.0	53.5	51.5	51.0

		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.							
M.	S.													
2	0		54.0	54.6	54.2	54.2	54.2	54.0	54.1	54.3	54.0	55.6	58.0	57.8
7	0		53.9	54.8	54.2	54.2	54.2	54.0	54.2	54.3	54.0	55.9	58.0	57.7
12	0		54.0	54.8	54.2	54.2	54.3	54.1	54.2	54.3	54.1	56.2	58.0	57.4
17	0		54.0	54.8	54.2	54.3	54.2	54.1	54.3	54.2	54.3	56.5	58.2	57.2
22	0		54.1	54.8	54.2	54.3	54.3	54.1	54.5	54.2	54.4	56.6	58.3	57.1
27	0		54.1	54.8	54.1	54.3	54.3	54.1	54.6	54.2	54.5	56.9	58.2	57.0
32	0		54.1	54.7	54.1	54.3	54.2	54.0	54.5	54.2	54.6	57.2	58.2	57.0
37	0		54.1	54.6	54.1	54.3	54.1	54.1	54.4	54.0	54.7	57.3	58.1	56.9
42	0		54.2	54.6	54.3	54.2	54.1	54.1	54.6	53.9	54.8	57.5	58.2	56.7
47	0		54.2	54.4	54.1	54.2	54.1	54.1	54.2	53.9	55.0	57.7	58.2	56.4
52	0		54.3	54.2	54.2	54.2	54.1	54.1	54.2	53.9	55.2	57.9	58.0	56.1
57	0		54.3	54.2	54.2	54.3	54.0	54.1	54.4	54.0	55.3	58.0	57.9	56.1

Thermometer		58.9	59.0	59.1	59.3	59.3	58.9	58.9	58.7	58.7	58.5	58.2	58.0
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		One Scale Division = .00018 parts of the V. F.					VERTICAL FORCE.							
M.	S.													
3	0		38.8	37.9	38.2	37.9	38.4	38.3	38.0	38.4	38.1	37.6	39.4	40.1
8	0		38.8	37.7	38.2	37.9	38.3	38.3	38.0	38.4	38.1	37.7	39.4	40.1
13	0		38.7	37.7	38.3	37.8	38.1	38.1	37.8	38.3	37.8	37.9	39.7	40.2
18	0		38.6	37.8	38.3	37.8	38.1	38.2	37.8	38.3	37.8	38.0	39.8	40.2
23	0		38.6	37.8	38.2	37.8	38.2	38.2	38.0	38.4	37.6	38.1	39.9	40.2
28	0		38.3	37.9	38.2	38.0	38.2	38.2	38.0	38.4	37.6	38.3	39.9	40.2
33	0		38.2	38.0	38.1	38.1	38.2	38.0	38.0	38.4	37.4	38.5	40.0	40.2
38	0		38.2	38.1	38.2	38.2	38.2	38.0	38.2	38.3	37.4	38.8	40.0	39.9
43	0		38.0	38.1	38.2	38.3	38.2	38.0	38.2	38.4	37.4	38.9	40.0	39.7
48	0		37.9	38.1	38.0	38.1	38.2	38.0	38.3	38.4	37.4	39.1	40.0	39.7
53	0		37.9	38.1	38.1	38.6	38.2	38.0	38.4	38.4	37.5	39.1	40.1	39.7
58	0		38.0	38.3	38.0	38.4	38.3	38.1	38.4	38.1	37.7	39.3	40.1	39.4

Thermometer		58.9	59.1	59.2	59.2	59.3	59.0	58.9	58.8	58.8	58.7	58.4	58.2
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
19	10	0	30.105	55.5	53.2	S. by W.	Light Air.	1.0	Light cirr.-cum. and cirr. blended.
	11	0	30.096	55.2	53.1	S.	Light Air.	0.3	Cirr. and cirr.-cum. scattered; hazy.
	12	0	30.098	54.7	52.7	S.	Light Air.	0.3	Cirr. and cirr.-strat. scattered near horizon.
	13	0	30.096	54.0	51.9	S.	Light Air.	0.8	Cirr. and cirr.-strat.
	14	0	30.094	52.9	51.3	S. by E.	Light Air.	0.9	Cirr. and cirr.-strat. scattered; heavy dew.
	15	0	30.081	52.9	51.0	S. by E.	Light Air.	0.9	Cirr. cirr.-strat. and cum.; sea sounding.
	16	0	30.083	53.0	50.8	S. by E.	Light Air.	0.8	Cirr. and cirr.-strat. scattered; dew.
	17	0	30.088	52.3	50.3	S. by E.	Light Air.	0.9	Cirr. and cirr.-strat. scattered.
	18	0	30.084	50.0	48.2	S. by E.	Light Air.	0.9	Cirr. and cirr.-strat.; sea sounding.
	19	0	30.102	50.0	48.5	S. E.	Light Air.	0.4	Cirr. and cirr.-strat.; strat. on N. W. horizon.
	20	0	30.108	52.4	51.1	S. E.	Light Air.	0.1	Cirr. and cirr.-strat. scattered on horizon.
	21	0	30.114	54.6	53.5	S. E.	Light Air.	0.3	Cirr. and cirr.-strat. few cirr.-cum.

MAGNETICAL OBSERVATIONS.

July 19th and 20th.

Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	51.0	52.1	53.2	53.7	54.1	54.8	54.2	54.2	54.2	54.2	54.8	54.9	
5	0	51.0	52.2	53.2	53.8	54.1	54.7	54.2	54.2	54.2	54.2	54.8	54.9	
10	0	51.0	52.4	53.2	53.9	54.2	54.6	54.2	54.2	54.2	54.2	54.8	54.9	
15	0	51.1	52.6	53.2	53.9	54.3	54.6	54.2	54.1	54.3	54.8	54.9	55.0	
20	0	51.2	52.8	53.4	53.9	54.4	54.6	54.2	54.1	54.3	54.8	54.8	55.0	
25	0	51.2	52.9	53.5	53.9	54.5	54.5	54.2	54.1	54.3	54.8	54.8	55.0	
30	0	51.6	53.0	53.7	54.0	54.6	54.5	54.2	54.2	54.5	54.8	54.8	55.0	
35	0	51.8	53.1	53.7	54.0	54.6	54.6	54.2	54.2	54.6	54.8	54.9	55.0	
40	0	51.9	53.1	53.7	54.0	54.7	54.5	54.2	54.1	54.8	54.9	54.9	55.0	
45	0	51.9	53.1	53.7	54.0	54.7	54.3	54.2	54.1	54.9	54.9	54.9	55.0	
50	0	52.0	53.1	53.7	54.0	54.8	54.2	54.2	54.2	54.9	54.9	54.9	55.0	
55	0	52.0	53.2	53.7	54.0	54.8	54.2	54.2	54.2	54.9	54.9	54.9	55.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
		2	0	56.1	54.4	53.4	53.9	54.2	54.6	55.1	54.8	54.1	53.7	53.0
7	0	56.1	54.3	53.4	53.8	54.2	54.5	55.1	54.8	54.0	53.6	52.9	52.9	
12	0	56.1	54.3	53.3	53.8	54.2	54.5	55.1	54.8	54.0	53.4	52.9	52.8	
17	0	56.0	54.3	53.4	53.9	54.2	54.5	55.0	54.8	54.1	53.4	52.9	52.7	
22	0	55.9	54.4	53.5	53.9	54.2	54.5	55.0	54.8	54.1	53.4	52.9	52.9	
27	0	55.7	54.3	53.6	53.9	54.3	54.6	55.0	54.7	54.0	53.4	52.8	52.8	
32	0	55.2	54.2	53.9	53.9	54.3	54.7	55.0	54.7	54.0	53.4	52.8	52.7	
37	0	55.1	54.2	53.9	54.0	54.4	54.7	55.0	54.6	53.9	53.3	52.8	52.6	
42	0	55.0	54.1	53.9	54.0	54.4	54.8	55.0	54.4	53.9	53.2	52.8	52.7	
47	0	55.0	54.0	53.9	54.0	54.5	54.9	54.9	54.4	53.8	53.1	52.8	52.8	
52	0	54.9	53.8	53.9	54.1	54.5	54.9	54.9	54.3	53.8	53.0	52.8	52.7	
57	0	54.6	53.7	53.9	54.2	54.6	55.0	54.9	54.2	53.7	53.0	52.8	52.7	

Thermometer		58.0	58.1	58.4	58.6	58.7	59.0	59.3	59.6	59.7	59.8	59.9	59.8
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		3	0	39.4	37.5	37.0	37.1	37.6	37.8	38.7	38.7	38.3	38.4	38.1
8	0	39.1	37.4	37.0	37.1	37.6	38.1	38.8	38.7	38.3	38.4	38.1	37.7	
13	0	38.8	37.4	37.0	37.1	37.6	38.3	38.2	38.7	38.3	38.1	38.1	37.8	
18	0	38.7	37.4	37.0	37.4	37.6	38.3	38.7	38.7	38.3	38.1	38.2	37.9	
23	0	38.7	37.4	37.0	37.4	37.6	38.6	38.7	38.4	38.3	38.1	38.2	37.9	
28	0	38.5	37.4	37.0	37.4	37.6	38.6	38.7	38.4	38.3	38.1	38.2	37.9	
33	0	38.4	37.4	37.0	37.4	37.6	38.6	38.7	38.4	38.2	38.1	38.2	37.9	
38	0	38.2	37.2	37.0	37.6	37.6	38.6	38.7	38.4	38.2	38.1	38.2	37.9	
43	0	38.1	37.2	37.0	37.6	37.6	38.6	38.7	38.4	38.2	38.1	37.9	37.9	
48	0	37.8	37.2	37.0	37.6	37.6	38.7	38.7	38.4	38.2	38.1	37.9	37.9	
53	0	37.8	37.2	37.0	37.6	37.7	38.7	38.5	38.3	38.2	38.1	37.9	37.9	
58	0	37.4	37.0	37.0	37.6	37.8	38.7	38.5	38.3	38.2	38.1	37.9	37.9	

Thermometer		58.2	58.5	58.6	58.7	58.9	59.2	59.4	59.6	59.8	59.8	59.8	59.8
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
19	22	0	30.110	58.6	55.5	S. E.	Light Air.	0.0	Few cirr. and cirr.-cum. on horizon.
	23	0	30.086	61.1	55.2	S. S. E.	1.0	0.0	Few cirr. and cirr.-strat. on horizon.
20	0	0	30.060	61.4	56.6	S. S. E.	1.4	0.1	Few cirr.; strat. S. and N. E.
	1	0	30.051	61.5	56.2	S. S. E.	1.5	0.0	Cirr. and cirr.-strat. N. E.; few cum. S.
	2	0	30.050	62.3	56.2	S. S. E.	1.6	0.0	Few cum. S.; few cirr. and cirr.-strat. N. E.
	3	0	30.049	61.7	57.2	S. S. E.	2.0	0.0	Strat. and haze round horizon.
	4	0	30.059	60.3	56.6	S. by E.	2.3	0.0	Strat. and haze round horizon.
	5	0	30.075	58.9	56.0	S. by E.	2.5	0.0	Dense strat. and haze round horizon.
	6	0	30.085	59.0	54.9	S. by E.	2.3	0.0	Strat. on S. and E. horizon; zodiacal light N. W.
	7	0	30.099	57.9	54.8	S. S. E.	2.0	0.0	Clear starlight.
	8	0	30.099	57.2	53.8	S. S. E.	1.6	0.0	Clear starlight.
	9	0	30.101	56.8	54.2	S. S. E.	1.6	0.0	Clear starlight.

August 25th and 26th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		51.7	51.9	52.1	52.4	52.5	55.0	55.3	53.9	55.5	57.5	54.8	53.7
5	0		51.6	52.0	52.1	52.6	52.6	54.8	55.1	54.0	55.3	57.5	55.4	53.2
10	0		51.9	52.1	52.2	52.5	52.8	54.8	55.0	54.1	55.3	57.4	55.0	53.1
15	0		52.0	52.0	52.2	52.8	52.8	54.8	54.7	54.2	55.7	57.4	54.7	53.0
20	0		52.0	51.8	52.2	52.8	52.7	54.8	54.7	54.1	56.0	57.3	55.0	52.8
25	0		52.0	51.8	52.2	52.8	52.7	54.9	54.7	54.3	56.1	57.1	54.7	52.2
30	0		51.8	51.8	52.2	52.5	52.9	55.0	54.7	54.3	56.6	57.1	54.4	52.2
35	0		51.5	51.9	52.3	52.4	53.0	55.0	54.4	54.5	56.7	56.9	54.5	52.0
40	0		51.4	51.9	52.4	52.4	53.7	55.1	54.2	54.6	56.8	56.5	54.6	51.9
45	0		51.5	52.0	52.4	52.5	54.0	55.3	54.0	54.7	57.1	56.3	54.1	51.8
50	0		51.8	52.0	52.2	52.4	54.8	55.3	53.7	55.0	57.6	55.5	54.1	51.1
55	0		51.8	52.1	52.2	52.4	55.0	55.4	54.0	55.1	57.7	56.6	53.9	50.9

M. S.		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.						
2	0	54.4	54.6	55.0	56.0	55.9	57.0	57.6	56.3	56.7	57.4	58.5	60.0
7	0	54.9	54.9	54.8	56.2	55.6	57.0	57.8	56.3	56.8	57.8	58.9	59.9
12	0	54.9	54.8	54.6	56.4	55.6	57.0	57.8	56.6	56.7	57.9	59.0	59.7
17	0	54.4	54.2	54.7	56.8	55.3	57.0	57.8	56.4	56.6	57.9	59.4	59.9
22	0	54.0	54.2	54.9	57.0	55.3	56.8	57.7	56.4	56.8	57.9	59.4	60.0
27	0	53.8	54.2	55.1	57.0	55.2	57.0	57.5	56.4	56.7	57.7	59.7	59.5
32	0	53.4	54.2	55.3	57.0	55.3	57.3	57.2	56.4	56.9	57.9	59.6	59.3
37	0	53.3	54.5	55.4	56.9	55.7	57.1	57.2	56.3	57.0	57.9	59.9	59.2
42	0	53.6	54.8	55.5	56.5	56.2	57.2	57.0	56.4	57.3	57.8	60.0	59.0
47	0	54.2	54.8	55.5	56.3	56.3	57.6	56.7	56.3	57.5	58.0	59.8	58.8
52	0	54.9	54.9	55.4	56.0	56.4	57.1	56.8	56.7	57.5	58.0	60.0	58.8
57	0	54.4	55.1	55.8	56.0	57.0	57.6	56.3	57.0	57.5	58.5	60.0	58.8

Thermometer		55.9	56.4	56.4	56.5	56.6	56.7	56.6	56.5	56.2	56.0	55.8	55.7
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M. S.		One Scale Division = .00018 parts of the V. F.					VERTICAL FORCE.						
3	0	28.8	28.8	28.3	28.5	27.3	26.2	26.1	26.8	25.6	26.1	28.9	29.7
8	0	28.6	28.3	28.3	27.7	27.3	26.3	26.2	27.1	25.6	26.1	28.9	29.6
13	0	28.4	28.3	28.3	27.7	27.4	26.2	26.3	26.5	25.6	26.1	29.7	29.8
18	0	28.4	28.8	28.3	27.4	28.1	26.3	25.9	26.7	25.4	26.1	28.8	29.8
23	0	28.4	29.1	28.3	27.4	28.1	26.3	26.0	26.7	25.4	26.4	29.6	30.0
28	0	28.8	29.2	28.3	27.2	28.1	25.8	26.0	26.3	25.5	26.9	29.3	30.2
33	0	29.2	29.2	28.3	27.2	27.9	26.1	26.3	26.2	25.5	27.4	29.3	30.2
38	0	29.2	29.0	27.9	26.9	27.8	25.7	26.3	26.2	25.5	27.5	29.9	30.3
43	0	29.2	28.9	27.9	26.9	27.1	25.5	26.9	26.2	25.5	27.9	30.0	30.3
48	0	29.1	28.9	27.9	26.9	26.7	25.5	27.3	25.8	25.3	28.2	29.7	30.7
53	0	28.8	28.5	28.1	27.3	26.3	25.8	26.9	25.6	25.4	28.4	29.7	30.9
58	0	28.8	28.5	28.5	27.3	26.2	25.7	27.0	25.5	25.8	28.9	29.7	30.9

Thermometer		56.4	56.7	56.8	56.8	56.7	56.7	56.7	56.5	56.4	56.2	56.1
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Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
25	10	0	30.089	50.8	48.4	W. N. W.	Light Air.	0.0	Strat. on S. horizon.
	11	0	30.086	50.2	48.1	N.W. by W.	Light Air.	0.0	Strat. on S. horizon.
	12	0	30.080	49.2	47.3	W. N. W.	Light Air.	0.0	Clear.
	13	0	30.076	49.6	47.4	W. N. W.	Light Air.	0.0	Clear.
	14	0	30.066	49.6	47.0	W. N. W.	Light Air.	0.0	Clear.
	15	0	30.062	49.5	46.7	W. N. W.	Light Air.	0.0	Clear, heavy dew.
	16	0	30.068	49.5	46.7	N.W. by W.	Light Air.	0.0	Clear, heavy dew.
	17	0	30.074	49.0	46.2	N. W.	Light Air.	0.0	Few cirr.-cum. near horizon.
	18	0	30.083	48.4	46.0	N. W.	Light Air.	0.0	Few cum. on S. W. and N. E. horizon.
	19	0	30.107	48.6	46.5	N. W.	Light Air.	0.1	Detached cum. round horizon.
	20	0	30.111	50.4	48.2	N. W.	0.5	0.0	Cirr.-strat. and cum. round horizon.
	21	0	30.108	53.6	50.1	N. N. W.	1.0	0.0	Cirr.-strat. and cum. round horizon.

MAGNETICAL OBSERVATIONS.													August 25th and 26th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	50.8	49.6	50.0	50.0	51.0	52.2	51.9	51.2	51.4	52.0	52.5	51.9	
5	0	50.8	49.1	50.0	50.0	51.1	52.2	51.9	51.2	51.6	52.1	52.5	52.0	
10	0	50.5	49.0	50.0	50.1	51.2	52.1	51.9	51.2	51.6	52.1	52.6	52.3	
15	0	50.2	49.1	50.1	50.0	51.4	52.1	51.9	51.2	51.7	52.1	52.5	52.3	
20	0	50.0	49.1	50.1	50.1	51.7	52.1	51.9	51.2	51.8	52.1	52.5	52.2	
25	0	50.0	49.2	50.3	50.1	51.8	52.1	51.9	51.2	51.9	52.1	52.5	52.2	
30	0	50.0	49.2	50.2	50.5	51.9	52.0	51.9	51.2	51.9	52.1	52.7	52.2	
35	0	49.8	49.9	50.1	50.5	51.9	52.0	51.7	51.2	51.9	52.1	52.8	52.3	
40	0	49.8	49.6	50.1	50.8	52.0	52.0	51.3	51.2	51.9	52.1	52.5	52.4	
45	0	49.6	49.5	50.0	50.9	52.0	51.9	51.2	51.4	52.0	52.2	52.3	52.2	
50	0	49.8	49.9	50.0	50.9	52.1	51.9	51.2	51.3	52.0	52.3	52.1	52.1	
55	0	49.5	50.0	50.0	51.0	52.2	51.9	51.2	51.3	52.0	52.4	52.0	52.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	0	58.9	59.6	59.4	58.1	55.9	55.1	54.6	54.8	53.5	52.6	52.0	52.9	
7	0	58.8	59.0	59.6	58.2	55.9	55.2	54.7	54.7	53.5	52.6	51.8	53.2	
12	0	58.7	59.1	59.4	58.0	56.0	55.2	54.8	54.6	53.4	52.4	51.7	53.4	
17	0	58.7	59.0	59.3	58.2	55.2	55.1	54.8	54.5	53.3	52.3	51.7	53.5	
22	0	58.8	59.1	59.4	58.0	55.1	55.1	54.9	54.4	53.2	52.2	51.9	53.3	
27	0	59.0	58.9	59.1	57.9	55.1	55.0	54.9	54.4	53.1	52.1	51.9	53.2	
32	0	59.0	59.0	59.0	57.7	55.1	54.9	54.9	54.5	53.0	52.1	51.8	53.1	
37	0	59.2	59.0	58.8	57.1	55.0	54.9	54.9	54.3	52.9	52.1	51.9	53.0	
42	0	59.2	59.0	59.0	57.0	54.9	55.0	54.7	54.0	52.8	52.1	51.9	52.9	
47	0	59.3	59.0	59.0	56.5	54.9	54.8	54.6	53.9	52.7	52.0	51.9	52.9	
52	0	59.3	59.0	58.9	56.2	55.0	54.7	54.9	53.8	52.6	52.0	52.0	52.9	
57	0	59.4	59.1	58.1	56.0	55.1	54.5	54.9	53.7	52.6	52.0	52.2	52.9	

Thermometer	55.7	55.8	55.9	56.5	56.7	57.1	57.3	57.6	57.9	58.1	58.3	58.4
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
3	0	31.1	30.5	28.2	26.5	25.8	26.2	28.1	28.5	28.1	27.7	27.5	27.4	
8	0	31.4	30.8	27.9	26.5	25.8	26.2	28.1	28.3	27.7	27.7	27.5	27.0	
13	0	31.5	30.6	27.7	26.5	25.8	26.4	28.3	28.3	27.7	27.7	27.5	27.0	
18	0	31.5	30.5	27.2	26.5	25.8	26.6	28.4	28.4	27.7	27.7	27.5	27.0	
23	0	31.5	30.5	27.0	25.9	25.9	26.6	28.5	28.4	27.7	27.7	27.5	27.0	
28	0	31.4	30.5	26.6	25.9	26.1	26.8	28.5	28.4	27.7	27.7	27.5	27.2	
33	0	31.4	29.9	26.6	25.9	26.1	27.0	28.5	28.1	27.7	27.7	27.5	27.2	
38	0	31.1	29.5	26.6	25.9	26.1	27.2	28.5	28.1	27.7	27.7	27.5	27.2	
43	0	31.1	29.5	26.6	25.7	26.2	27.2	28.5	28.1	27.7	27.7	27.5	27.2	
48	0	31.1	29.2	26.6	25.8	26.2	27.5	28.5	28.1	27.7	27.7	27.5	27.2	
53	0	30.5	29.0	26.3	25.8	26.2	27.7	28.5	28.1	27.7	27.7	27.8	27.5	
58	0	30.5	28.7	25.3	25.8	26.2	27.7	28.5	28.1	27.7	27.5	27.8	27.5	

Thermometer	56.0	56.2	56.6	56.7	55.9	57.2	57.5	57.7	58.0	58.2	58.3	58.3
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
25	22	0	30.104	55.9	51.9	N. W.	1.7	0.0	Cum. and cirr.-strat. round horizon; few light cum.			
	23	0	30.083	57.6	52.1	N. W. by N.	1.8	0.4	Cirr.-cum. and cirr.-strat.			
26	0	0	30.059	57.6	51.7	N. W.	1.8	0.4	Cirr. cirr.-strat. and cirr.-cum. scattered.			
	1	0	30.047	58.0	51.6	N.W. by W.	3.0	0.2	Cum. and cirr.-strat.			
	2	0	30.044	57.9	51.9	W. N. W.	2.8	0.6	Cum. and cirr.-cum. blended.			
	3	0	30.043	57.4	52.5	W. N. W.	2.5	0.9	Cum. and cum.-strat.			
	4	0	30.047	56.9	51.7	W. N. W.	2.3	0.7	Cum. and cum.-strat.			
	5	0	30.058	55.9	50.8	N. W.	1.5	0.9	Cum. and cirr.-strat. blended.			
	6	0	30.068	56.0	51.2	N. W.	1.7	1.0	Cum., cum.-strat., and cirr.-strat. blended.			
	7	0	30.094	54.9	50.6	N. W. by N.	1.7	0.5	Cum. and cirr.-strat.			
	8	0	30.100	53.9	49.7	N. N. W.	1.6	0.5	Cirr.-strat. and cum.; dull starlight.			
	9	0	30.100	53.5	49.6	N. N. W.	1.6	0.9	Cirr.-strat. and cum. blended.			

September 20th and 21st.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		53.0	52.7	52.7	52.6	52.9	54.4	53.0	52.5	54.9	55.8	52.2	50.7
5	0		53.1	52.7	52.6	52.3	52.9	54.2	53.0	52.6	55.0	55.2	52.3	50.5
10	0		53.3	52.6	52.6	52.3	53.8	54.1	53.0	52.8	55.0	54.9	52.1	50.2
15	0		53.4	52.6	52.6	52.5	55.1	54.2	53.0	53.0	55.0	54.2	52.0	50.4
20	0		52.2	52.8	52.7	52.9	57.0	53.8	53.1	53.0	55.0	54.2	51.5	50.4
25	0		53.0	53.0	52.7	53.0	58.2	53.7	53.0	53.2	55.2	54.5	51.2	50.4
30	0		53.0	53.0	52.7	53.0	58.7	53.5	52.7	53.8	55.1	54.2	51.1	50.3
35	0		53.0	52.9	52.9	53.0	58.0	53.2	52.4	53.7	55.3	54.0	51.0	50.6
40	0		53.0	52.8	52.9	53.0	57.0	53.1	52.0	53.8	56.0	53.9	50.9	50.8
45	0		52.9	52.8	52.7	53.0	56.0	53.0	52.1	54.0	56.2	53.2	50.9	50.9
50	0		52.6	52.9	52.6	53.0	55.2	53.0	52.3	54.0	56.1	52.9	50.9	50.9
55	0		52.6	52.7	52.9	53.0	54.8	52.9	52.4	54.2	55.9	52.5	50.9	50.9

		One Scale Division = .00018 parts of the H. F.					HORIZONTAL FORCE.							
M.	S.													
2	0		53.9	54.4	54.6	54.3	54.0	58.6	57.0	56.1	55.0	59.2	58.9	58.2
7	0		53.5	54.3	54.4	54.2	54.1	58.4	57.1	56.0	55.3	59.0	58.8	58.4
12	0		53.7	54.3	54.5	54.1	54.5	58.7	57.1	56.0	55.6	59.0	58.3	58.4
17	0		53.8	54.1	54.5	54.4	56.0	58.3	56.9	55.8	56.0	59.3	58.1	58.3
22	0		54.0	54.0	54.4	54.4	58.3	57.8	57.0	55.7	56.1	59.7	57.9	58.9
27	0		54.3	54.3	54.3	54.5	59.9	57.5	56.8	55.0	56.8	59.4	58.0	59.4
32	0		54.6	54.3	54.4	54.4	60.9	57.3	56.6	54.7	57.3	59.5	57.9	60.2
37	0		54.8	54.3	54.6	54.4	60.3	57.1	56.2	54.7	57.9	59.5	57.9	60.9
42	0		54.8	54.3	54.6	54.3	60.0	57.0	56.1	54.7	58.3	59.2	58.0	60.5
47	0		54.5	54.5	54.5	54.3	59.4	56.7	56.0	54.9	58.6	59.3	57.9	59.9
52	0		54.4	54.7	54.8	54.3	59.1	56.6	56.0	54.9	58.9	59.3	58.1	59.2
57			54.5	54.7	54.7	54.2	58.9	56.6	56.1	54.9	59.0	59.4	58.3	58.5

Thermometer		57.0	57.0	57.0	56.8	56.8	56.7	56.6	56.6	56.6	56.6	56.4	56.0	55.9
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		One Scale Division = .00018 parts of the V. F.					VERTICAL FORCE.							
M.	S.													
3	0		23.6	22.3	22.5	23.2	23.5	20.6	22.3	23.0	22.3	21.7	24.7	26.5
8	0		23.3	22.3	22.6	23.4	23.2	20.6	22.3	23.0	22.3	22.1	25.0	26.7
13	0		22.9	22.4	22.6	23.4	22.1	20.6	22.0	22.8	22.3	22.3	25.4	26.5
18	0		22.9	22.5	22.8	23.1	20.4	20.9	22.2	22.8	21.8	22.5	25.6	26.5
23	0		22.7	22.4	22.7	23.0	18.5	21.3	22.2	22.8	21.8	22.4	26.4	26.5
28	0		22.7	22.4	22.8	22.8	17.5	21.3	22.4	22.6	21.9	22.5	26.4	26.0
33	0		22.3	22.4	22.8	22.9	17.1	22.0	22.9	22.6	21.9	22.9	26.6	25.4
38	0		22.2	22.5	22.6	22.9	17.7	22.0	23.0	22.6	21.6	23.1	26.6	24.9
43	0		22.1	22.5	22.7	23.1	18.5	22.1	23.0	22.6	21.1	23.9	26.6	24.5
48	0		22.3	22.5	22.8	23.1	19.8	22.1	23.0	22.6	21.1	24.2	26.8	24.5
53	0		22.4	22.6	22.8	23.1	20.0	22.1	23.0	22.6	21.0	24.5	26.7	24.5
58	0		22.4	22.5	22.8	23.3	20.4	22.1	23.0	22.3	21.2	24.7	26.7	24.8

Thermometer		57.2	57.4	57.4	57.3	57.3	57.2	57.0	56.8	56.8	56.6	56.4	56.3
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
20	10	0	30.377	47.8	44.0	S. by W.	Light Air.	0.1	Cum.-strat. scattered.
	11	0	30.376	47.0	43.1	S. by W.	Light Air.	0.1	Cum.-strat.
	12	0	30.382	47.0	43.0	S. by E.	Light Air.	0.4	Cirr.-cum. strat.
	13	0	30.376	47.7	45.0	S. S. W.	Light Air.	1.0	Cirr.-cum. strat.
	14	0	30.362	47.5	45.6	S. S. W.	Light Air.	0.5	Cum.-strat. and cum.
	15	0	30.354	47.2	45.1	S.	Light Air.	0.3	Cum. and cum.-strat.
	16	0	30.350	46.5	43.9	S.	Light Air.	0.3	Cum. and cum.-strat.
	17	0	30.348	46.4	43.9	S.	Light Air.	0.6	Cum. and cum.-strat.
	18	0	30.365	47.2	44.8	S. by E.	Light Air.	1.0	Cum.-strat. and cirr.-cum. strat.
	19	0	30.375	49.0	47.0	S. by E.	1.0	0.4	Cum. and cum.-strat.
	20	0	30.359	51.8	47.7	S. S. E.	2.0	0.7	Cum. and cum.-strat.
	21	0	30.363	52.1	48.2	S. S. E.	2.5	0.7	Cum. and cum.-strat.; few cirr. detached.

MAGNETICAL OBSERVATIONS.

September 20th and 21st.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751											
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	51.0	51.9	52.9	54.2	53.2	52.0	51.0	50.5	49.4	49.5	49.7	51.4
5	0	51.2	51.9	52.9	53.9	53.0	51.9	51.0	50.3	49.3	48.5	50.0	51.3
10	0	51.2	52.1	52.9	54.0	53.0	51.9	51.1	50.1	49.3	47.6	50.3	51.4
15	0	51.1	52.2	53.0	54.0	52.9	51.9	51.0	50.0	49.3	46.7	50.5	51.6
20	0	51.9	52.3	53.2	53.9	52.8	51.8	50.9	49.9	49.6	46.0	50.7	51.8
25	0	51.1	52.4	53.2	53.8	52.8	51.5	50.9	49.5	49.6	45.6	50.8	51.8
30	0	51.1	52.7	53.1	53.6	52.7	51.4	50.9	49.7	50.0	46.0	50.8	51.7
35	0	51.1	52.9	53.2	53.5	52.5	51.4	50.9	49.7	50.3	47.0	51.0	51.7
40	0	51.1	52.9	53.5	53.3	52.3	51.3	50.9	49.5	50.3	47.8	51.0	51.9
45	0	51.2	52.9	53.6	53.1	52.2	51.2	50.6	49.3	50.0	48.7	51.2	51.8
50	0	51.3	52.8	53.8	53.5	52.0	51.2	50.3	49.3	50.0	49.3	51.5	51.8
55	0	51.8	52.8	54.2	53.3	52.0	51.2	50.5	49.4	49.7	49.5	51.4	51.8

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00027.											
2	0	58.2	55.9	56.0	56.0	56.1	56.3	55.2	54.2	51.6	50.0	54.0	52.6
7	0	58.0	56.1	55.9	55.8	56.2	56.3	55.2	54.4	51.4	49.4	54.0	52.5
12	0	58.0	56.2	55.6	56.0	56.2	56.4	55.0	54.1	51.5	49.5	54.0	53.0
17	0	58.0	55.9	55.7	56.2	56.1	56.9	55.0	54.0	51.5	49.8	54.0	53.0
22	0	58.0	56.0	55.9	56.4	56.2	56.9	54.6	53.7	51.7	50.3	54.0	53.1
27	0	58.2	56.2	56.1	56.4	56.2	56.8	54.6	53.8	51.7	51.1	53.7	52.8
32	0	57.7	56.1	56.0	56.2	56.2	56.3	54.5	53.5	51.7	52.0	53.3	52.5
37	0	56.9	56.4	56.0	56.1	56.1	55.9	54.5	53.3	51.4	52.7	53.3	52.8
42	0	56.0	56.5	56.2	55.9	56.1	55.7	54.4	53.0	51.6	53.5	53.0	52.8
47	0	55.1	56.3	56.1	55.9	56.1	55.5	54.5	52.8	51.6	54.0	52.8	52.4
52	0	55.8	56.2	56.8	55.9	56.1	55.4	54.3	52.3	51.7	53.7	52.7	52.7
57	0	55.9	56.0	56.3	56.1	56.1	55.4	54.5	51.8	51.1	53.4	52.7	53.0

Thermometer		56.2	56.3	56.4	56.5	56.7	56.8	56.7	56.6	56.7	56.7	56.4	56.4
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
3	0	24.8	24.1	21.6	19.9	22.5	24.3	24.9	26.2	25.9	26.4	22.8	22.6
8	0	25.0	23.8	21.6	20.5	22.9	24.3	24.9	26.3	26.1	27.2	22.5	22.7
13	0	25.0	23.5	21.3	20.7	22.9	24.3	25.1	25.8	26.1	28.1	22.2	22.7
18	0	25.0	23.5	21.3	20.7	23.2	24.3	25.4	25.8	25.9	28.8	22.2	22.6
23	0	25.0	23.1	21.0	20.7	23.5	24.3	25.4	26.0	25.5	29.1	22.2	22.4
28	0	24.5	22.8	20.8	21.1	23.6	24.3	25.5	25.7	25.4	28.7	22.2	22.6
33	0	24.5	22.4	20.8	21.4	23.6	24.3	25.5	25.6	25.1	27.4	22.3	22.9
38	0	24.5	22.0	20.8	21.7	23.8	24.6	25.5	25.6	24.9	26.2	22.3	22.9
43	0	24.7	21.9	20.5	22.0	24.0	24.8	25.8	25.6	24.9	24.8	22.3	22.9
48	0	24.9	21.9	20.3	22.3	24.1	24.8	26.2	25.8	25.1	23.9	22.5	22.8
53	0	24.9	21.9	20.0	22.4	24.3	24.9	26.2	25.8	25.1	23.5	22.5	22.4
58	0	24.4	21.6	19.7	22.4	24.3	24.9	26.2	25.9	25.3	23.2	22.6	22.3

Thermometer		56.5	56.6	56.7	56.7	56.8	57.0	56.9	56.8	57.2	57.2	56.9	56.9
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometer.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
20	22	0	30.353	52.5	47.7	S. S. E.	3.0	0.9	Cum. and cum.-strat.
	23	0	30.332	53.1	48.6	S. by E.	2.7	0.7	Cum. and cum.-strat. ; few cirr. detached.
21	0	0	30.306	55.4	48.9	S.	3.0	0.6	Cum.
	1	0	30.284	55.0	48.3	S.	3.5	0.4	Cum. detached.
	2	0	30.273	55.5	48.9	S. by E.	2.7	0.4	Cum. detached.
	3	0	30.253	55.1	47.1	S.	2.5	0.4	Cum. detached.
	4	0	30.257	53.7	47.8	S.	2.5	0.4	Cum. detached.
	5	0	30.241	51.9	46.7	S.	2.4	0.1	Cum. detached.
	6	0	30.232	50.7	46.0	by W.	2.5	0.0	Few cum. detached.
	7	0	30.228	50.4	46.1	S.	2.0	0.0	Few cum.
	8	0	30.234	50.4	46.8	S.	2.3	0.0	Strat. on horizon.
	9	0	30.216	49.8	43.3	S.	2.0	0.0	Clear.

November 29th and 30th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		51.8	51.0	51.2	51.0	51.2	50.9	50.1	49.0	47.7	46.9	46.0	46.3
5	0		51.4	51.0	51.1	51.2	51.2	50.9	50.1	49.0	47.3	46.8	46.0	46.5
10	0		51.6	51.0	51.1	51.2	51.2	50.8	50.0	49.0	47.1	46.5	46.0	46.6
15	0		51.3	51.0	51.2	51.2	51.2	50.9	50.0	48.9	47.0	46.3	46.0	46.7
20	0		51.2	51.0	51.2	51.2	51.2	50.9	50.0	48.9	47.0	46.3	46.0	46.9
25	0		51.1	51.1	51.1	51.2	51.0	50.9	50.0	48.8	47.0	46.2	46.0	47.0
30	0		51.0	51.1	51.1	51.2	51.0	50.7	49.9	48.5	47.0	46.1	46.0	47.0
35	0		51.0	51.1	51.1	51.2	51.0	50.7	49.8	48.4	47.0	46.0	46.0	47.0
40	0		51.0	51.2	51.2	51.2	51.0	50.3	49.4	48.2	47.0	45.9	46.0	47.0
45	0		51.0	51.5	51.2	51.2	50.9	50.2	49.3	48.2	47.0	45.9	46.1	47.2
50	0		51.0	51.7	51.0	51.1	50.9	50.2	49.2	48.0	47.0	45.9	46.1	47.4
55	0		51.0	51.2	51.0	51.0	50.9	50.1	49.1	47.8	47.0	45.9	46.2	47.5

		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.							
M.	S.													
0	0		54.3	55.8	55.1	55.0	55.2	55.1	55.9	56.9	58.0	58.2	58.3	57.4
5	0		54.6	55.6	54.9	55.2	55.2	55.1	55.9	57.0	58.2	58.2	58.2	57.4
10	0		54.8	55.4	55.0	55.1	55.1	55.1	55.9	57.0	58.3	58.5	58.2	57.3
15	0		54.7	55.3	54.9	55.0	55.2	55.2	56.0	57.1	58.4	58.6	58.2	57.3
20	0		54.7	55.1	55.1	55.0	55.2	55.2	56.0	57.2	58.4	58.4	58.1	57.3
25	0		54.7	55.0	55.1	55.0	55.2	55.2	56.0	57.3	58.5	58.2	58.0	57.2
30	0		54.9	55.0	55.1	55.0	55.2	55.2	56.0	57.4	58.4	58.2	58.0	57.3
35	0		55.2	55.0	55.0	55.1	55.1	55.3	56.1	57.5	58.3	58.2	57.9	57.3
40	0		55.6	55.1	55.0	55.1	55.1	55.5	56.3	57.6	58.3	58.3	57.8	57.2
45	0		55.6	55.2	55.0	55.1	55.1	55.7	56.5	57.7	58.3	58.3	57.7	57.3
50	0		55.4	55.2	55.0	55.1	55.1	55.8	56.8	57.8	58.2	58.3	57.7	57.4
55	0		55.5	55.1	55.0	55.2	55.1	55.9	56.9	57.9	58.2	58.2	57.7	57.3

Thermometer		67.8	67.7	67.7	67.7	67.7	67.7	67.6	67.5	67.1	66.9	66.9	66.9
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		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE							
M.	S.													
0	0		45.7	44.9	45.9	46.3	47.0	47.3	47.0	48.7	49.2	49.1	48.5	46.9
5	0		45.7	44.9	45.0	46.3	47.5	47.3	47.2	47.9	49.4	49.3	48.5	46.8
10	0		45.7	45.1	46.3	46.8	46.7	47.3	47.2	48.0	49.4	49.2	48.3	46.6
15	0		45.7	45.6	46.3	45.9	46.7	47.0	47.2	48.0	49.1	49.1	48.2	46.6
20	0		45.9	45.9	46.6	46.4	46.7	47.0	47.5	48.0	49.1	48.9	48.0	46.2
25	0		45.9	45.9	46.4	46.4	46.7	47.0	47.8	48.0	49.1	48.9	48.0	45.9
30	0		45.0	45.9	46.5	46.4	46.7	47.0	47.8	48.3	49.1	48.9	48.0	45.7
35	0		44.6	45.6	46.2	46.6	46.7	47.0	48.1	48.3	49.1	48.9	47.7	45.4
40	0		44.6	44.9	46.2	46.9	47.0	47.0	48.1	48.3	49.1	49.1	47.5	44.9
45	0		44.6	44.5	46.0	47.3	47.1	47.0	48.1	48.9	49.1	49.1	47.2	44.4
50	0		45.2	44.5	46.0	47.6	47.3	47.0	48.1	48.9	49.1	49.0	47.2	43.8
55	0		45.2	45.1	46.6	47.0	47.3	47.0	48.5	48.9	49.1	48.8	46.9	43.6

Thermometer		67.8	67.8	67.8	67.7	67.6	67.7	67.7	67.5	67.3	67.2	67.2	67.3
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32 ^o .	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
29	10	0	29.768	61.6	58.4	S.	2.2	0.0	Clear.
	11	0	29.772	61.6	58.2	S.	2.2	0.0	Cir.-strat. in S. horizon.
	12	0	29.776	61.4	58.6	S. by W.	3.1	0.6	Dense cum. spreading from S.
	13	0	29.766	61.6	59.0	S. by W.	3.1	0.7	Dense cum.
	14	0	29.748	60.9	58.6	S.	1.7	0.0	A bank of dense cum. S.
	15	0	29.754	60.7	58.6	S. by W.	0.3	0.3	.2 cum. and .1 cir. passing to N.
	16	0	29.763	60.7	59.0	S. by W.	0.5	0.9	Cum., nim., and mist.
	17	0	29.776	61.1	59.4	S.	Light Air.	1.0	Cum. and fog.
	18	0	29.800	61.3	58.9	W. by S.	0.3	1.0	Cum. and cum.-strat.
	19	0	29.808	61.9	59.0	W. by N.	0.3	1.0	Cum. and cum.-strat.
	20	0	29.808	63.5	60.6	N. W. by W.	Light Air.	1.0	Dense cum.-strat.
	21	0	29.814	64.4	60.5	N. W. by W.	Light Air.	1.0	Cum. and cum.-strat.

MAGNETICAL OBSERVATIONS.

November 29th and 30th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	47.5	48.9	50.0	51.7	52.9	53.1	53.1	52.6	51.8	52.0	52.2	52.2
5	0	47.6	48.9	50.0	52.0	52.9	53.2	50.0	52.2	51.8	52.1	52.1	52.2
10	0	47.6	48.9	50.2	52.1	52.9	53.2	53.1	52.1	51.8	52.2	52.0	52.3
15	0	47.7	49.0	50.5	52.1	53.0	53.2	53.2	52.0	51.9	52.2	52.1	52.5
20	0	47.7	49.0	50.7	52.1	53.1	53.2	53.2	52.0	52.0	52.2	52.1	52.4
25	0	48.0	49.3	50.8	52.2	53.1	53.2	53.2	51.9	52.0	52.3	52.2	52.4
30	0	48.0	49.3	50.9	52.2	53.1	53.2	53.1	52.0	52.0	52.5	52.3	52.4
35	0	48.3	49.4	51.0	52.7	53.1	53.4	53.0	52.0	52.0	52.4	52.2	52.5
40	0	48.4	49.4	51.2	52.8	53.1	53.6	53.0	51.8	52.0	52.2	52.2	52.6
45	0	48.5	49.6	51.3	52.8	53.1	53.3	53.0	51.8	52.0	52.2	52.2	52.7
50	0	48.5	49.7	51.5	52.8	53.1	53.1	52.9	51.7	52.0	52.2	52.2	52.7
55	0	48.7	49.9	51.7	52.8	53.1	53.1	52.9	51.8	52.1	52.2	52.2	52.7

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00022.											
0	0	57.1	57.1	56.7	56.9	56.0	55.9	56.0	56.1	55.6	55.2	55.2	55.7
5	0	57.0	56.8	56.7	57.0	55.9	55.9	56.0	56.0	55.6	55.2	55.1	55.7
10	0	56.7	56.7	56.6	56.9	55.9	55.9	56.0	56.0	55.5	55.2	55.2	55.9
15	0	56.6	56.7	56.8	56.6	55.8	55.9	56.0	56.0	55.4	55.2	55.2	56.0
20	0	56.7	56.7	57.0	56.4	55.9	55.9	56.1	55.9	55.3	55.2	55.4	56.0
25	0	56.9	57.0	56.7	56.3	55.9	55.9	56.2	56.0	55.4	55.2	55.8	55.9
30	0	57.0	57.0	56.6	56.2	55.7	55.9	56.1	56.0	55.3	55.2	55.6	55.9
35	0	57.0	56.9	56.5	56.1	55.5	56.0	56.1	56.0	55.2	55.1	55.5	56.0
40	0	57.0	56.9	56.5	56.1	55.5	56.0	56.0	55.8	55.2	55.2	55.6	56.0
45	0	57.0	57.0	56.5	56.1	55.7	56.0	56.1	55.8	55.2	55.2	55.5	56.0
50	0	57.0	56.7	56.7	56.1	55.7	55.9	56.1	55.8	55.2	55.2	55.5	56.0
55	0	57.0	56.8	56.7	56.1	55.8	55.9	56.1	55.7	55.2	55.2	55.6	56.0

Thermometer		67.2	67.3	67.7	68.0	68.5	68.6	68.5	68.3	67.8	67.7	67.7	67.2
		°	°	°	°	°	°	°	°	°	°	°	°

M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = 0.0005.											
0	0	43.5	42.4	40.7	40.3	40.7	42.5	44.1	45.6	46.3	45.0	45.1	45.1
5	0	43.5	42.4	40.6	40.1	40.7	42.8	44.1	45.6	45.9	45.0	45.1	44.1
10	0	43.8	42.4	40.6	40.1	41.0	42.8	44.1	45.6	45.9	45.0	45.1	44.1
15	0	43.6	42.4	40.2	40.1	41.0	42.9	44.2	46.0	45.9	45.0	45.4	44.4
20	0	43.6	42.2	40.2	40.1	41.3	43.2	44.3	46.8	45.7	45.0	45.4	44.4
25	0	43.6	41.9	40.2	40.4	41.3	43.3	44.4	47.0	45.6	44.6	45.4	44.4
30	0	43.5	41.4	40.2	40.4	41.6	43.3	44.7	46.5	45.6	45.1	45.0	44.4
35	0	43.3	41.4	40.2	40.4	41.9	43.6	44.7	46.5	45.6	45.1	45.2	44.4
40	0	43.3	41.3	40.6	40.5	42.2	43.8	45.1	46.5	45.4	45.2	45.4	44.4
45	0	43.2	41.0	40.6	40.5	42.3	43.8	45.2	46.5	45.4	45.3	45.4	45.5
50	0	43.0	41.0	40.6	40.7	42.5	44.1	45.2	46.5	45.4	45.3	45.4	45.5
55	0	42.8	40.9	40.6	40.7	42.5	44.1	45.4	46.3	45.4	45.1	45.4	45.5

Thermometer		67.4	67.5	67.8	68.1	68.3	68.4	68.2	68.1	68.0	67.8	67.6	67.3 ¹
		°	°	°	°	°	°	°	°	°	°	°	°

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
29	22	0	29.806	68.7	63.2	N. N. W.	Light Air.	1.0	.4 cir.-cum. zenith; .6 cum.
	23	0	29.779	70.2	61.6	N. W. by W.	2.2	0.9	Cir.-cum. and cum.
30	0	0	29.766	68.4	60.8	N. W. by W.	2.2	0.6	.4 cir. and cir.-strat.; .2 cum.
	1	0	29.761	68.5	60.4	W. N. W.	2.2	0.7	Cum., cir.-cum., and cir.-strat.
	2	0	29.746	66.7	60.3	W. by N.	3.1	1.0	Cum.-strat.
	3	0	29.746	64.5	57.3	W. N. W.	3.1	1.0	Cum.-strat.
	4	0	29.748	60.7	57.1	N. W. by W.	1.3	1.0	Cum.-strat. and nim.
	5	0	29.720	59.0	56.5	N. by W.	1.3	1.0	Cum.-strat. and nim.; light rain.
	6	0	29.705	58.6	56.4	N. by W.	1.7	1.0	Dense cum.-strat. and nim.; squally with showers.
	7	0	29.713	58.8	55.6	N. W.	4.2	0.9	Cum.-strat. and nim.
	8	0	29.709	58.6	55.5	N. N. W.	2.2	0.1	Cum.-strat. and nim.
	9	0	29.721	59.4	56.1	W. by S.	1.3	0.1	Cum.-strat. and nim.

December 18th and 19th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.										DECLINATION.	
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	52.0	50.7	48.8	48.8	49.0	48.1	47.0	46.5	46.9	45.7	45.1	46.7	
5	0	52.0	50.7	48.7	48.6	49.0	48.0	46.9	46.5	46.9	45.0	45.1	46.9	
10	0	52.0	50.5	48.9	48.6	49.0	48.0	46.9	46.1	46.9	45.1	45.2	47.1	
15	0	51.9	50.4	48.9	48.7	48.9	48.0	46.8	46.1	47.0	45.2	45.1	47.4	
20	0	51.8	50.4	49.0	48.7	48.8	47.8	46.7	46.2	47.1	45.2	45.3	47.7	
25	0	51.6	50.3	49.0	48.8	48.9	47.6	46.4	46.7	47.1	45.0	45.3	48.1	
30	0	51.4	50.3	49.1	48.9	48.9	47.4	46.2	46.8	46.9	45.1	45.8	48.3	
35	0	51.3	49.9	49.1	48.9	48.8	47.2	46.2	46.9	46.9	45.1	45.9	48.8	
40	0	51.0	49.0	49.0	48.9	48.7	47.1	46.2	46.9	46.9	45.1	46.1	49.0	
45	0	51.0	49.0	48.9	49.0	48.5	47.1	46.3	46.8	47.0	45.1	46.1	49.1	
50	0	50.9	48.9	48.9	49.1	48.4	47.0	46.2	46.7	46.9	45.0	46.2	49.3	
55	0	50.8	48.9	48.7	49.0	48.3	47.0	46.3	46.8	46.1	45.0	46.6	49.5	

M. S.		One Scale Division = .00022 parts of the H. F.										HORIZONTAL FORCE.	
2	0	62.9	63.4	63.3	63.6	63.5	64.4	65.2	66.3	67.8	68.4	68.2	66.1
7	0	63.1	63.3	63.7	63.6	63.3	64.6	65.3	66.5	68.0	68.6	68.0	66.0
12	0	63.4	63.2	64.1	63.5	63.2	64.7	65.7	66.8	68.0	68.2	68.0	66.0
17	0	63.3	63.0	64.2	63.4	63.2	64.7	65.8	67.0	68.1	68.1	68.1	66.0
22	0	63.3	63.3	64.2	63.3	63.3	64.7	65.9	67.1	68.2	68.3	68.0	66.0
27	0	63.3	63.5	64.3	63.4	63.4	64.7	66.0	67.2	68.5	68.3	68.0	65.9
32	0	63.4	62.7	64.3	63.1	63.8	64.8	66.0	67.0	68.5	68.1	67.1	66.0
37	0	63.4	62.5	64.1	63.3	64.4	64.8	65.7	67.1	68.2	67.9	67.1	66.2
42	0	63.5	62.5	64.0	63.5	64.3	64.8	65.5	67.3	67.5	67.8	67.3	66.3
47	0	63.5	62.5	64.0	63.4	64.2	64.9	65.6	67.4	67.1	67.9	67.0	66.1
52	0	63.3	62.4	64.0	63.5	64.1	65.0	65.7	67.2	67.5	68.0	66.7	66.0
57	0	63.3	62.7	63.7	63.5	64.1	65.2	66.0	67.5	68.0	68.1	66.1	65.9

Thermometer		65.3	65.3	65.4	65.4	65.5	65.7	65.5	65.4	65.4	65.4	65.6	65.9
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M. S.		One Scale Division = .00014 parts of the V. F.										VERTICAL FORCE.	
3	0	43.1	43.1	44.7	43.7	43.1	43.6	44.1	43.0	42.3	43.1	39.7	36.8
8	0	42.8	43.2	44.4	43.9	43.4	43.6	44.1	43.1	42.3	43.1	39.3	36.8
13	0	42.5	43.2	43.9	43.9	43.5	43.6	44.1	43.3	42.3	42.6	38.9	36.1
18	0	42.5	43.6	43.9	43.7	43.5	43.6	43.8	43.2	42.3	42.2	38.6	36.1
23	0	42.5	43.7	43.7	43.9	43.5	43.6	43.8	42.7	42.3	41.8	38.1	35.6
28	0	42.7	43.5	43.7	43.8	43.5	43.8	43.8	42.6	42.1	41.8	37.7	35.6
33	0	42.7	43.9	43.5	43.8	43.5	43.8	43.8	42.4	42.1	41.2	37.6	35.2
38	0	42.7	44.4	43.5	43.7	43.5	43.8	43.8	42.3	42.1	41.0	37.6	35.2
43	0	42.7	45.4	43.5	43.5	43.4	43.8	43.8	42.3	42.3	40.9	36.9	34.7
48	0	42.8	45.4	43.5	43.2	43.4	43.8	43.8	42.3	42.5	40.9	36.8	34.7
53	0	42.9	45.4	43.5	43.1	43.4	44.1	43.7	42.3	42.9	40.6	36.8	34.7
58	0	42.9	45.4	43.5	43.1	43.4	44.1	43.7	42.3	42.9	40.2	36.8	34.7

Thermometer		65.1	65.4	65.5	65.5	65.6	65.7	65.7	65.5	65.6	65.6	65.7	66.0
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32'	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
18	10	0	30.066	64.2	57.0	S.	3.6	0.0	Clear.				
	11	0	30.044	66.0	57.2	S. by W.	2.6	0.0	Clear.				
	12	0	30.015	63.4	55.8	S. S. E.	1.7	0.0	Clear.				
	13	0	29.959	63.0	55.8	S.	2.2	0.0	Clear.				
	14	0	29.927	62.4	55.1	S. by E.	1.7	0.0	Clear.				
	15	0	29.900	65.7	55.6	S.	1.3	0.0	Clear.				
	16	0	29.904	64.6	56.4	S.	Light Air.	0.0	Clear.				
	17	0	29.913	62.8	57.4	S. W.	Light Air.	0.0	Clear.				
	18	0	29.916	65.7	58.6	S. W.	Light Air.	0.0	Clear.				
	19	0	29.916	70.8	62.2	S. S. W.	Light Air.	0.0	Clear.				
	20	0	29.914	74.9	62.4	N. E. by E.	Light Air.	0.0	A few thin cir.-strat. S. E. horizon.				
	21	0	29.905	76.7	63.2	S. by E.	Light Air.	0.0	Clear.				

MAGNETICAL OBSERVATIONS.													December 18th and 19th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	49.8	51.0	51.2	50.9	51.0	50.3	50.9	51.0	50.8	50.7	51.4	51.5	
5	0	49.9	51.1	51.0	50.9	51.0	50.7	50.9	50.9	50.8	50.7	51.4	51.5	
10	0	50.0	51.8	51.0	50.9	51.0	51.0	51.0	51.0	50.8	50.8	51.5	51.8	
15	0	50.1	51.2	51.0	50.8	51.0	51.2	51.0	51.1	50.7	50.9	51.4	52.0	
20	0	50.3	52.2	51.0	50.8	51.0	51.3	51.0	50.7	50.7	51.0	51.5	52.0	
25	0	50.6	51.5	50.9	50.8	51.1	51.4	51.0	50.4	51.3	51.3	51.6	52.0	
30	0	50.9	51.8	50.8	50.8	51.0	51.4	51.1	50.4	51.4	51.3	51.7	52.3	
35	0	51.0	51.5	50.8	50.9	50.7	51.4	51.1	50.4	51.5	51.2	51.9	52.4	
40	0	50.9	51.8	50.8	51.0	50.6	51.4	51.1	50.5	51.5	51.2	51.9	52.0	
45	0	51.0	51.4	50.6	51.0	50.6	51.2	51.1	50.7	51.0	51.3	51.9	52.0	
50	0	51.0	51.3	50.8	51.1	50.4	51.0	51.2	50.7	51.0	51.3	51.6	52.0	
55	0	51.0	51.2	50.9	51.0	50.2	50.8	51.1	50.7	50.9	51.4	51.5	52.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.	
		65.7	64.8	61.4	62.3	62.2	60.8	56.3	55.8	53.7	55.4	56.3	57.2	
2	0	65.7	64.8	61.4	62.3	62.2	60.8	56.3	55.8	53.7	55.4	56.3	57.2	
7	0	65.7	64.0	61.3	62.3	62.1	61.1	56.3	55.3	53.9	55.6	56.4	57.0	
12	0	65.4	63.7	61.3	62.3	62.0	61.0	56.4	55.1	54.0	55.6	56.6	57.0	
17	0	65.2	63.0	61.3	62.2	61.9	60.8	56.4	54.7	54.5	55.6	56.6	57.2	
22	0	65.0	62.3	61.3	62.2	61.8	60.2	56.7	54.0	54.7	55.7	56.7	57.4	
27	0	64.9	62.4	61.6	62.2	61.8	59.7	56.9	53.5	54.8	55.7	57.0	58.0	
32	0	64.9	62.2	61.6	62.1	61.2	58.9	56.9	53.2	54.9	55.7	57.2	58.4	
37	0	64.8	62.1	61.9	62.2	61.0	58.4	57.0	52.7	54.8	56.0	57.0	57.7	
42	0	64.2	62.0	61.8	62.2	61.0	58.1	56.9	53.0	54.6	56.0	57.0	57.6	
47	0	64.2	61.6	62.0	62.2	61.0	57.7	56.7	53.3	54.7	56.0	57.4	57.6	
52	0	64.1	61.3	62.2	62.2	60.8	57.1	56.4	53.5	54.1	56.0	57.5	57.6	
57	0	64.0	61.2	62.2	62.1	60.7	56.5	56.1	53.5	55.3	56.3	57.5	57.8	

Thermometer		66.5	67.0	68.0	68.7	69.7	70.4	71.0	71.7	71.9	71.9	72.0	71.7
		66.5	67.0	68.0	68.7	69.7	70.4	71.0	71.7	71.9	71.9	72.0	71.7

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.	
		34.7	35.3	38.6	37.6	37.2	37.9	41.2	41.6	42.5	40.3	38.1	37.1	
3	0	34.7	35.3	38.6	37.6	37.2	37.9	41.2	41.6	42.5	40.3	38.1	37.1	
8	0	34.7	35.3	38.9	37.6	37.2	37.1	41.2	42.2	42.2	39.7	38.1	37.1	
13	0	34.7	35.6	38.9	37.6	37.2	37.1	41.2	42.2	42.2	39.7	38.1	37.1	
18	0	34.7	36.2	38.9	37.6	37.2	37.1	41.4	42.6	41.7	39.2	37.9	37.1	
23	0	34.7	36.8	38.9	37.6	37.2	37.1	41.1	43.3	40.9	39.2	37.9	37.1	
28	0	34.7	36.8	38.9	37.6	37.2	37.9	41.1	43.9	40.7	38.7	37.8	36.5	
33	0	34.7	36.8	38.9	37.6	37.7	38.3	41.1	43.9	40.4	38.7	37.3	36.2	
38	0	34.7	37.3	38.6	37.6	37.9	38.9	41.1	43.9	40.4	38.7	37.3	36.6	
43	0	34.7	37.7	38.6	37.6	37.9	39.2	41.1	43.9	40.4	38.7	36.9	37.2	
48	0	35.0	38.2	38.4	37.6	37.9	39.7	41.1	43.4	40.4	38.7	36.9	37.6	
53	0	35.0	38.2	38.4	37.6	37.9	40.4	41.3	43.2	40.4	38.3	37.2	37.5	
58	0	35.0	38.4	37.8	37.6	37.9	40.9	41.6	42.8	40.3	38.2	37.4	37.5	

Thermometer		66.4	67.0	67.6	68.2	68.9	69.5	70.1	70.6	71.0	71.2	71.2	71.2
		66.4	67.0	67.6	68.2	68.9	69.5	70.1	70.6	71.0	71.2	71.2	71.2

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
18	22	0	29.900	77.8	64.2	S. by E.	Light Air.	0.0	Clear.			
	23	0	29.896	79.6	65.2	S. by W.	Light Air.	0.0	Clear.			
19	0	0	29.878	81.6	66.5	S.	Light Air.	0.0	Clear.			
	1	0	29.869	81.3	67.3	S.	0.5	0.0	Clear.			
	2	0	29.857	80.5	67.9	S.	0.8	0.0	A few cir.-strat. near N. horizon.			
	3	0	29.854	78.4	66.7	S.	0.8	0.0	A few cir.-strat. N.			
	4	0	29.852	75.7	66.8	S. by E.	1.3	0.0	A few cir.-strat. N. E.			
	5	0	29.859	73.4	66.1	S. by E.	1.7	0.0	A few cir.-strat. N. E.			
	6	0	29.865	69.1	64.3	S. by E.	2.6	0.1	Cir.-strat. N.; hazy.			
	7	0	29.879	66.3	63.1	S.	1.7	0.0	Hazy round horizon.			
	8	0	29.893	65.1	63.0	S.	1.3	0.0	Clear.			
	9	0	29.911	64.4	62.4	S.	2.2	0.2	Cum and cir. scattered.			

January 22nd and 23rd.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.					DECLINATION.						
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	49.7	50.0	48.9	50.9	51.3	51.0	50.3	49.2	49.9	48.1	46.9	47.0
5	0	49.6	50.1	48.9	50.9	51.3	51.0	50.2	49.1	49.8	48.1	46.8	47.0
10	0	49.5	50.1	48.8	50.8	51.4	51.0	50.2	49.1	49.7	48.1	46.8	47.0
15	0	49.6	50.3	49.2	50.5	51.3	50.9	50.4	49.2	49.2	48.1	46.8	47.2
20	0	49.6	50.5	49.5	50.4	51.2	50.7	50.5	49.3	49.1	48.0	46.5	47.2
25	0	49.8	50.5	49.7	50.4	51.1	50.7	50.7	49.9	49.1	48.0	46.6	47.3
30	0	49.9	49.4	50.0	50.4	51.2	50.7	50.9	49.7	49.1	48.0	46.3	47.5
35	0	50.0	48.5	50.3	50.6	51.4	50.7	50.2	49.7	49.0	47.9	46.3	47.7
40	0	50.1	48.3	50.6	50.7	51.5	50.7	50.1	49.7	48.6	47.7	46.2	48.0
45	0	50.1	48.3	51.0	50.9	51.3	50.6	50.1	49.8	48.2	47.3	46.5	48.2
50	0	50.0	48.4	51.0	51.0	51.2	50.2	50.0	49.8	48.0	47.2	46.3	48.5
55	0	50.1	48.7	51.0	51.3	51.0	50.1	49.7	49.9	48.0	47.1	46.8	48.8
		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.												
2	0	64.6	64.5	70.0	66.7	66.6	65.8	65.6	66.9	67.0	68.9	67.2	63.0
7	0	63.8	64.3	69.7	67.0	66.6	65.7	65.4	66.9	67.1	68.4	67.1	62.6
12	0	64.0	64.7	69.5	67.0	66.5	65.8	65.5	66.8	67.1	68.2	66.8	62.6
17	0	64.3	65.5	69.1	67.0	66.4	65.8	65.7	66.7	67.1	68.1	66.3	62.5
22	0	64.3	65.4	68.7	66.7	66.0	65.7	65.6	66.9	67.2	68.1	66.1	62.5
27	0	64.3	65.0	68.0	66.8	66.0	65.8	65.7	66.9	67.2	68.0	65.7	62.8
32	0	64.4	66.1	67.6	67.0	66.0	65.8	66.0	66.9	67.2	68.0	65.1	62.6
37	0	64.5	67.5	67.4	66.8	66.2	65.8	66.1	66.8	67.7	68.0	64.8	62.1
42	0	64.4	68.6	67.3	66.6	66.0	65.9	66.3	66.8	68.0	68.0	64.2	61.5
47	0	64.3	69.2	67.0	66.7	66.0	65.9	66.7	66.9	68.7	67.9	64.0	61.1
52	0	64.3	70.0	67.0	67.0	66.0	65.9	66.7	66.9	68.9	67.7	64.0	60.8
57	0	64.5	70.1	66.8	66.4	65.8	65.9	66.7	67.0	68.9	67.2	63.9	60.4
Thermometer		66.9	67.0	67.1	67.1	67.2	67.0	66.9	66.8	66.7	66.7	66.7	66.7
		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
M.	S.												
3	0	86.4	85.3	82.2	82.7	82.4	84.5	85.1	86.0	87.0	88.6	90.5	89.2
8	0	86.8	85.3	82.5	82.5	83.2	84.5	85.4	86.0	87.0	88.6	90.5	89.2
13	0	86.8	85.3	82.5	82.5	83.2	84.5	85.4	85.9	87.3	88.6	90.5	88.3
18	0	86.2	84.8	82.1	83.0	83.1	84.5	85.4	85.9	87.7	88.8	90.5	87.3
23	0	85.8	84.1	81.9	82.8	83.1	84.5	85.4	85.4	87.7	89.0	90.5	87.2
28	0	85.8	84.3	82.1	82.8	83.3	84.8	85.4	85.4	88.2	89.0	93.6	86.1
33	0	85.5	85.8	82.1	82.8	83.7	84.8	85.4	85.8	88.4	89.3	93.4	84.9
38	0	85.1	85.0	82.1	82.5	83.7	84.8	85.4	85.8	88.7	89.1	93.4	84.4
43	0	85.1	84.3	82.1	82.5	83.7	84.8	85.6	85.8	88.7	89.1	93.4	84.4
48	0	85.5	83.4	81.9	82.5	83.7	84.8	85.6	86.3	88.7	89.5	93.4	84.4
53	0	85.5	82.9	81.9	82.2	83.7	84.8	85.6	86.3	88.7	89.8	93.4	84.4
58	0	85.3	82.4	82.2	82.2	84.5	84.8	85.6	86.3	88.6	89.8	89.6	83.8
Thermometer		66.7	67.0	67.2	67.2	67.2	67.2	67.2	67.0	66.8	66.8	66.8	67.0

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.				lbs.					
22	10	0	29.978	62.2	59.2	N. W.	0.3	0.2	Cum. and cir.-strat.			
	11	0	29.972	60.6	57.8	N.	Light Air.	0.1	Cum. and cir.-strat. round horizon.			
	12	0	29.952	59.9	57.7	N.	0.3	0.1	Cum. scattered W. and round horizon.			
	13	0	29.932	59.8	57.4	Calm.	Calm.	0.7	Cum., cir.-cum., and cir.-strat.; dew.			
	14	0	29.926	59.8	57.8	N. W. by N.	Light Air.	1.0	Cum. and cum.-strat.			
	15	0	29.926	60.9	58.8	N. W. by N.	Light Air.	1.0	Cum. and cum.-strat.			
	16	0	29.924	60.6	58.5	N. W.	Light Air.	0.8	Cum. and cum.-strat.			
	17	0	29.928	60.7	58.6	N. W. by W.	Light Air.	0.5	Cum.			
	18	0	29.936	63.4	59.6	N. N. E.	0.8	0.9	Cum.			
	19	0	29.956	65.0	60.6	N.	0.3	0.8	Cum.			
	20	0	29.962	67.1	60.8	N.	0.5	0.9	Cum. and cum.-strat.			
	21	0	29.960	68.4	61.5	N. N. W.	0.5	0.9	Cum. and cir.-strat.			

MAGNETICAL OBSERVATIONS.													January 22nd and 23rd.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	49.0	53.2	57.8	58.8	59.2	55.0	51.8	49.3	50.0	51.5	50.9	48.3	
5	0	49.2	53.9	57.9	58.8	59.3	55.0	51.5	49.6	50.2	51.6	50.9	48.0	
10	0	49.4	54.1	58.0	58.9	58.9	55.0	51.2	49.6	50.3	51.6	50.7	47.7	
15	0	49.8	54.3	58.2	59.2	58.8	54.8	51.0	49.6	50.6	51.7	50.7	47.8	
20	0	50.0	54.7	58.2	59.2	58.8	54.3	50.8	49.6	50.7	51.9	50.5	48.1	
25	0	50.2	55.3	58.2	59.5	58.0	54.1	50.7	49.6	51.0	51.8	50.3	48.0	
30	0	50.7	55.9	58.2	59.4	57.9	54.0	50.4	49.7	51.0	51.6	50.1	48.6	
35	0	51.1	56.3	58.3	59.3	57.2	53.4	50.5	49.7	51.0	51.6	50.1	49.5	
40	0	51.8	57.0	58.3	59.2	57.0	53.0	50.6	50.0	51.3	51.4	50.0	50.0	
45	0	52.1	57.5	58.3	59.1	56.5	52.8	50.7	50.0	51.3	51.4	50.0	50.4	
50	0	52.4	57.6	58.3	59.1	55.9	52.3	50.5	50.0	51.4	51.1	49.5	50.4	
55	0	52.8	57.5	58.7	59.1	55.2	52.2	50.0	50.2	51.5	50.9	48.9	50.3	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00022.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	0	60.1	59.1	62.3	64.2	63.5	60.0	62.1	60.5	62.2	63.0	61.3	59.2	
7	0	59.9	59.2	62.1	64.2	63.3	59.8	62.2	60.6	62.4	63.0	61.0	58.8	
12	0	59.3	59.5	62.2	64.4	62.8	59.7	62.2	60.5	62.5	63.0	60.7	58.6	
17	0	58.9	60.0	62.4	64.4	62.8	59.5	62.2	60.5	62.6	63.1	60.6	58.8	
22	0	58.8	60.8	62.4	64.5	62.0	59.8	62.1	60.3	62.5	63.0	60.5	59.0	
27	0	58.8	61.4	62.5	64.7	62.0	60.1	61.8	60.3	62.7	62.6	60.5	60.2	
32	0	58.8	61.7	62.7	64.2	62.2	60.3	61.5	60.5	62.5	62.3	60.3	61.0	
37	0	58.6	62.1	63.0	63.9	62.0	60.6	61.1	60.9	62.6	62.3	60.2	61.4	
42	0	58.5	62.7	63.1	63.2	61.8	61.0	60.9	61.5	62.7	62.4	60.0	61.3	
47	0	58.4	62.7	63.1	63.3	61.4	61.3	60.6	62.0	62.7	62.0	59.7	61.1	
52	0	58.8	62.8	63.4	63.1	60.8	61.9	60.3	62.4	62.7	61.7	59.6	61.6	
57	0	59.0	62.3	64.0	63.1	60.2	62.1	60.4	62.3	62.9	61.5	59.4	61.8	

Thermometer		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
		67.0	67.4	67.6	67.8	68.1	68.7	68.9	69.3	69.5	69.9	70.0	70.0

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
3	0	83.8	77.9	73.3	73.2	76.8	85.6	87.0	88.5	83.1	80.4	83.6	87.6	
8	0	83.8	77.9	73.6	73.2	77.6	85.9	87.4	88.2	82.9	80.9	83.6	88.0	
13	0	83.0	77.3	73.6	73.2	78.5	85.9	87.7	87.8	82.9	80.9	83.6	88.3	
18	0	82.6	77.3	73.6	73.6	79.1	86.4	87.7	87.8	82.3	80.9	84.2	88.1	
23	0	82.2	76.4	73.6	73.6	79.9	86.7	87.7	87.8	82.0	80.9	84.5	87.7	
28	0	81.5	75.5	73.6	73.6	80.9	86.7	88.0	87.4	81.6	81.2	84.5	86.9	
33	0	80.8	75.0	73.6	74.0	81.4	86.7	88.0	87.0	81.6	81.6	84.6	85.3	
38	0	80.0	74.2	73.6	74.6	82.4	86.6	88.0	86.2	81.3	81.8	84.6	83.9	
43	0	79.3	73.5	73.6	75.5	82.6	86.6	88.0	85.3	81.0	81.4	85.5	83.9	
48	0	79.3	73.5	73.6	76.0	83.3	87.0	88.0	84.8	81.0	82.4	85.6	83.9	
53	0	79.0	73.1	73.6	76.5	84.3	87.0	88.0	83.9	81.0	82.5	86.2	83.3	
58	0	79.0	73.3	73.2	76.5	85.4	87.0	88.5	83.9	81.0	83.5	86.9	83.3	

Thermometer		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
		67.3	67.5	67.7	68.0	68.2	68.6	68.9	69.1	69.4	69.5	69.8	69.9

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
22	22	0	29.963	68.1	62.4	N. W.	1.3	0.8	Cum., cir.-strat., and nim.				
	23	0	29.953	68.2	61.8	N. N. W.	0.3	0.8	Cum.				
23	0	0	29.958	68.2	62.8	N. W. by N.	0.3	0.7	Cum. and cum.-strat.				
	1	0	29.940	69.8	64.0	N. W.	1.3	0.7	Cum. and cum.-strat.				
	2	0	29.936	70.7	64.8	N. W. by N.	0.5	0.7	Cum. and cum.-strat.				
	3	0	29.916	70.2	64.6	N. W.	1.3	0.8	Cum. and cum.-strat.				
	4	0	29.913	69.3	64.8	N. N. W.	1.3	0.7	Cum. and cum.-strat.				
	5	0	29.910	69.4	64.8	W. N. W.	1.7	0.7	Cum. and cum.-strat.				
	6	0	29.920	67.0	63.4	N. by E.	0.3	0.9	Cum. and cum.-strat.				
	7	0	29.933	65.8	62.9	N.	0.3	1.0	Cum. and cum.-strat.				
	8	0	29.953	65.3	62.7	N. by W.	0.3	1.0	Cum., cum.-strat., and mist.				
	9	0	29.963	64.5	62.2	N. by W.	0.3	1.0	Cum., cum.-strat., and mist.				

February 21st and 22nd. MAGNETICAL OBSERVATIONS.													
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.						DECLINATION.					
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	50.9	50.0	49.5	52.0	51.0	50.0	50.1	51.2	49.7	47.7	44.7	43.4
5	0	51.0	50.0	49.5	51.9	51.0	50.1	50.1	51.2	49.3	47.7	44.6	43.7
10	0	51.0	50.0	49.5	51.7	50.7	50.2	50.2	51.5	49.3	47.5	44.3	43.3
15	0	50.7	50.0	50.0	52.0	50.5	50.2	50.2	51.3	49.0	47.2	44.3	43.7
20	0	50.3	50.0	50.9	52.0	50.3	50.2	50.2	51.1	48.7	47.0	44.0	43.9
25	0	50.1	50.0	51.4	52.0	50.1	50.5	50.3	50.9	48.0	47.0	43.8	43.9
30	0	50.0	50.0	51.5	51.8	50.1	50.9	50.6	51.0	48.4	47.0	43.5	44.0
35	0	50.0	50.0	51.6	51.6	50.1	50.4	50.9	50.7	48.4	46.4	43.2	44.3
40	0	49.9	50.0	52.0	51.8	50.1	50.1	51.0	50.6	48.3	46.1	43.4	44.8
45	0	49.7	49.9	52.0	51.7	50.0	50.3	51.0	50.3	47.8	45.6	43.3	44.9
50	0	49.9	49.9	52.0	51.5	50.0	50.2	51.1	50.0	48.0	45.3	43.2	45.0
55	0	50.0	49.6	52.3	51.3	50.0	50.1	51.1	50.0	48.3	45.0	43.3	45.0

M. S.		One Scale Division = .00022 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 .	21 ^h .
2	0	64.3	64.2	64.0	65.8	65.1	64.6	65.4	65.4	66.0	66.1	67.1	66.8
7	0	64.5	64.3	63.7	64.8	65.1	64.3	65.3	65.2	66.0	66.2	67.3	66.0
12	0	64.4	64.3	63.4	64.8	65.1	64.5	65.7	65.3	66.0	66.3	67.3	66.5
17	0	64.3	64.4	63.1	64.8	65.1	64.3	65.7	65.4	65.9	66.6	67.0	65.0
22	0	64.0	64.5	63.3	64.4	65.0	64.4	65.3	65.5	66.2	66.5	67.0	64.5
27	0	63.8	64.5	63.5	64.4	65.1	64.7	65.6	65.6	66.2	66.8	67.0	64.0
32	0	63.8	64.3	63.7	64.6	64.9	65.0	65.8	65.7	66.1	66.7	67.0	63.9
37	0	63.8	64.2	65.0	64.5	64.8	65.0	65.7	65.7	66.0	66.7	67.0	63.4
42	0	63.8	64.1	65.3	64.4	64.8	64.8	65.7	66.0	66.0	67.0	67.0	63.0
47	0	63.9	64.0	65.7	64.4	64.5	65.0	65.4	66.0	66.0	66.9	67.0	62.7
52	0	63.9	64.0	65.6	65.0	64.4	65.0	65.3	66.1	66.0	67.0	67.1	62.0
57	0	64.1	64.0	65.6	65.0	64.5	65.3	65.4	66.0	66.0	67.1	67.0	61.6

Thermometer		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
		69.1	69.0	69.0	68.9	68.8	68.7	68.7	68.7	68.6	68.4	68.4	68.5

M. S.		One Scale Division = .00014 parts 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 .	21 ^h .
3	0	77.3	78.5	79.4	75.8	77.2	78.3	77.6	77.3	79.2	81.8	82.3	78.9
8	0	77.3	77.8	79.4	75.8	78.3	78.3	77.6	77.3	79.2	81.7	82.3	78.9
13	0	77.3	77.8	79.0	75.8	78.3	78.3	77.6	78.0	79.7	81.9	82.3	78.9
18	0	77.3	78.7	79.0	75.8	78.3	78.3	77.6	78.8	80.4	82.5	81.6	78.9
23	0	77.9	78.7	77.1	75.8	78.3	78.3	77.6	78.8	81.1	82.5	81.6	78.9
28	0	77.9	78.7	76.7	75.8	78.3	77.7	77.6	78.8	80.4	82.5	82.0	78.9
33	0	77.9	78.7	76.7	75.8	77.7	77.3	77.6	78.8	80.4	82.5	82.0	78.9
38	0	78.1	78.7	76.1	76.5	78.3	78.0	77.3	78.8	81.0	82.6	81.5	78.6
43	0	78.5	78.7	76.1	76.5	78.3	78.0	77.3	78.8	81.4	82.6	80.9	78.3
48	0	78.5	79.0	75.8	76.5	78.3	78.0	77.3	78.9	81.4	82.9	80.9	78.3
53	0	78.5	79.3	75.8	76.5	78.3	78.0	77.3	78.9	81.1	82.9	81.5	77.8
58	0	78.5	79.3	75.8	76.5	78.3	78.0	77.3	79.2	81.1	82.7	79.4	77.8

Thermometer		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
		68.9	69.0	69.1	69.1	68.8	68.8	68.8	68.8	68.6	68.5	68.5	68.7

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
21	10	0	30.024	65.8	62.1	S.	4.7	0.0	Clear.			
	11	0	30.020	65.4	61.9	S. S. W.	4.7	0.0	Clear.			
	12	0	30.024	65.4	61.4	S. by W.	2.2	0.0	Clear.			
	13	0	30.018	65.7	61.4	S. W. by S.	2.2	0.0	Clear.			
	14	0	29.996	65.9	61.4	S. S. W.	4.7	0.0	Clear.			
	15	0	29.990	64.9	61.4	S. S. W.	3.6	0.0	Clear.			
	16	0	29.987	64.8	61.4	S. S. W.	3.6	0.0	Clear.			
	17	0	29.983	64.7	61.3	S.	2.2	0.0	Clear.			
	18	0	29.995	66.0	61.8	S. S. W.	2.6	0.0	Clear.			
	19	0	30.021	67.5	63.0	S.	2.2	0.0	Clear.			
	20	0	30.025	69.0	63.5	S. by W.	2.6	0.0	Clear.			
	21	0	30.024	71.1	64.8	S. by W.	2.6	0.0	Clear.			

MAGNETICAL OBSERVATIONS.													February 21st and 22nd.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	45.2	49.6	52.4	54.9	55.9	54.0	52.0	49.4	50.4	50.3	50.3	50.4	
5	0	45.9	49.9	52.9	55.0	55.3	53.9	51.7	49.8	50.6	50.3	50.1	50.0	
10	0	46.1	50.1	52.8	55.0	55.2	53.6	51.6	49.8	50.8	50.4	50.1	49.6	
15	0	46.3	50.2	53.0	55.2	55.3	53.3	51.8	49.7	50.9	50.5	50.2	49.5	
20	0	46.9	50.2	53.2	55.2	55.3	53.4	51.2	49.7	50.9	50.8	50.2	49.0	
25	0	47.1	50.2	53.5	55.5	55.1	53.6	51.0	49.5	50.9	50.9	50.3	48.3	
30	0	47.8	50.8	53.9	55.6	55.0	53.2	50.7	49.8	50.8	50.9	50.2	48.1	
35	0	48.1	51.1	53.9	55.3	55.0	53.1	50.7	49.9	50.7	50.9	50.1	48.2	
40	0	48.4	51.3	54.1	55.6	54.6	53.0	50.0	50.0	50.6	50.9	50.0	48.8	
45	0	48.9	51.8	54.1	55.8	54.3	53.0	50.0	50.1	50.4	50.9	50.0	49.1	
50	0	49.1	52.0	54.4	55.9	54.2	52.8	49.8	50.2	50.3	50.8	50.2	49.9	
55	0	49.3	52.2	54.9	56.0	54.0	52.3	49.5	50.2	50.2	50.5	50.4	50.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00022.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	0	61.2	62.4	62.6	63.0	63.0	62.0	60.6	59.0	60.7	61.1	62.4	62.0	
7	0	61.8	62.3	62.7	62.2	63.0	61.9	60.2	59.9	60.8	61.2	62.5	62.1	
12	0	61.9	62.2	62.7	62.6	63.1	61.9	59.9	60.1	60.9	61.4	62.3	62.2	
17	0	61.9	62.1	62.6	62.2	63.1	62.0	59.4	60.6	61.0	61.9	62.1	62.1	
22	0	62.0	62.0	62.6	62.3	63.0	61.8	58.8	60.2	61.2	62.0	62.0	62.1	
27	0	62.0	61.9	62.9	62.2	63.0	61.5	58.6	60.4	61.1	62.0	62.0	62.5	
32	0	62.1	62.0	63.0	62.6	63.0	61.1	58.5	60.3	61.1	62.0	61.8	63.0	
37	0	62.1	62.2	63.1	62.9	63.0	61.0	58.6	60.2	61.1	62.2	61.4	63.1	
42	0	62.1	62.3	63.1	63.0	63.0	61.0	58.2	60.4	61.2	62.2	61.4	63.7	
47	0	62.1	62.9	63.1	63.2	63.0	61.0	58.0	60.3	61.4	62.3	61.6	63.9	
52	0	62.1	63.0	63.2	63.3	62.8	60.8	58.1	60.4	61.4	62.3	61.6	64.0	
57	0	62.1	62.9	63.1	63.2	62.3	61.0	58.9	60.6	61.2	62.3	61.8	64.0	

Thermometer	68.8	69.4	69.7	70.2	70.6	70.7	70.9	70.9	71.1	70.9	70.6	70.4
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
3	0	77.5	71.5	67.1	68.9	72.2	76.8	80.2	82.5	77.7	77.2	77.0	77.8	
8	0	77.2	71.0	67.1	69.3	72.2	77.3	81.0	81.8	77.7	77.3	76.5	77.8	
13	0	76.2	70.4	67.4	69.3	72.8	77.8	81.4	80.9	77.7	77.4	77.5	78.3	
18	0	75.7	69.8	67.4	69.9	72.8	77.8	81.4	80.9	77.2	77.4	77.3	78.5	
23	0	75.1	69.8	67.8	69.9	73.1	78.1	82.1	80.3	77.2	76.7	78.2	79.2	
28	0	74.4	69.2	67.8	70.5	73.7	78.6	82.1	80.3	77.2	76.7	78.2	79.6	
33	0	73.6	69.2	67.8	70.5	73.7	78.9	82.5	80.3	77.2	76.6	77.5	79.6	
38	0	73.1	68.3	68.0	70.5	74.6	79.3	82.5	79.6	77.2	76.6	78.4	78.9	
43	0	73.0	68.0	68.0	70.5	75.3	79.3	82.5	79.6	77.2	76.6	78.3	78.0	
48	0	72.5	67.6	68.5	70.5	75.7	79.3	83.0	78.8	77.2	76.6	78.3	77.4	
53	0	72.2	67.1	68.5	70.5	76.4	79.8	83.0	78.8	77.2	76.6	77.4	76.5	
58	0	71.9	67.1	68.5	71.2	76.4	79.8	83.0	77.8	77.2	77.0	77.4	76.0	

Thermometer	69.0	69.4	69.7	70.0	70.3	70.6	70.7	70.7	70.8	70.8	70.6	70.5
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
21	22	0	30.023	73.0	65.4	S.	3.6	0.0	Clear.			
	23	0	30.028	74.0	65.8	S. by W.	3.6	0.0	Clear.			
22	0	0	30.009	74.8	66.3	S. by W.	3.6	0.0	Hazy.			
	1	0	29.999	73.6	66.0	S. by W.	6.4	0.0	A few cum. S. W.			
	2	0	29.991	73.1	66.1	S. by W.	5.2	0.0	A few cum. S. W.			
	3	0	29.985	71.9	65.2	S.	4.7	0.0	A few cum. S. W.			
	4	0	29.989	70.5	64.8	S.	4.7	0.0	A few cum. S. W.			
	5	0	29.986	69.6	62.7	S. by W.	4.7	0.0	Clear.			
	6	0	29.977	67.8	61.0	S. S. W.	3.6	0.0	Clear.			
	7	0	30.006	67.1	61.1	S. by W.	3.1	0.0	Clear.			
	8	0	30.007	66.7	61.0	S. by W.	4.7	0.0	Bright moonlight.			
	9	0	30.026	65.8	61.6	S. by W.	3.1	0.0	Bright moonlight.			

March 19th and 20th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
M.	S.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	Sec. Div.	
0	0	48.5	51.1	49.2	49.4	49.0	52.0	50.7	50.0	50.3	48.1	47.1	47.2	
5	0	48.5	51.7	49.0	49.3	49.1	52.0	50.7	50.2	49.8	48.9	47.1	47.3	
10	0	48.7	51.9	48.8	49.5	49.2	51.7	50.5	50.0	49.2	49.0	47.0	47.7	
15	0	48.8	51.2	49.0	49.4	49.4	51.7	50.4	50.0	49.8	49.0	46.9	48.0	
20	0	48.8	51.2	49.1	49.3	49.7	51.4	50.3	50.0	49.5	48.9	46.9	47.9	
25	0	48.7	50.9	49.5	49.2	49.7	51.3	50.2	50.0	50.0	48.6	46.9	48.0	
30	0	48.8	50.0	49.9	49.0	49.8	51.2	50.2	50.0	49.3	48.7	46.9	48.3	
35	0	49.0	49.8	50.0	49.2	49.7	51.4	50.0	50.1	49.3	48.1	46.9	48.6	
40	0	49.0	49.4	50.0	49.3	50.1	51.4	50.0	50.8	49.9	48.1	46.9	49.0	
45	0	49.2	49.5	50.0	49.6	51.0	51.1	50.0	51.0	49.3	47.9	47.0	49.1	
50	0	49.5	49.6	50.2	49.7	51.4	51.0	50.0	50.9	49.0	47.3	47.1	49.3	
55	0	49.9	49.5	49.7	49.4	52.2	51.0	50.0	50.9	49.1	47.1	47.1	49.3	
			One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.													
2	0	58.9	63.4	63.0	63.8	66.1	63.7	65.3	64.3	63.4	65.9	68.0	68.8	
7	0	58.4	63.3	62.9	63.8	66.0	63.7	65.3	64.0	63.9	66.0	68.0	68.7	
12	0	58.0	63.0	63.1	63.8	65.7	63.8	65.2	63.9	63.9	66.0	68.2	68.7	
17	0	58.9	62.5	63.4	63.8	65.4	64.2	65.2	63.7	63.9	66.4	68.3	68.7	
22	0	59.6	62.1	63.9	64.0	65.3	64.6	65.1	63.6	63.9	66.7	68.3	68.9	
27	0	59.8	62.0	64.2	64.4	64.8	65.0	65.2	63.3	64.0	66.8	68.2	69.3	
32	0	60.0	62.0	64.3	65.0	64.6	65.4	65.2	63.6	64.3	67.0	68.3	69.6	
37	0	60.5	62.1	64.4	65.3	64.3	65.5	65.0	63.4	64.7	67.1	68.3	69.4	
42	0	61.2	62.4	64.2	65.9	64.4	65.8	65.0	63.2	64.9	67.3	68.3	69.0	
47	0	61.4	62.8	64.0	66.1	64.3	65.8	64.8	63.2	65.0	67.5	68.4	68.5	
52	0	61.9	63.1	63.8	66.2	64.0	65.7	64.6	63.3	65.1	67.8	68.7	68.0	
57	0	62.9	63.0	63.6	66.1	63.7	65.5	64.5	62.9	65.4	67.9	68.7	68.2	
Thermometer			69.7	69.4	69.2	69.0	68.7	68.7	68.5	68.5	68.6	68.4	68.4	
			One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
M.	S.													
3	0	75.3	69.3	73.4	71.0	71.0	70.7	71.3	72.7	74.4	73.6	72.3	68.2	
8	0	75.5	69.4	74.1	71.0	71.0	71.2	71.5	72.9	74.9	72.7	72.3	67.4	
13	0	75.5	69.3	74.1	71.0	71.0	71.2	71.8	72.9	74.9	72.7	71.8	67.4	
18	0	75.5	70.3	73.4	71.3	71.2	71.5	71.8	72.9	74.7	72.7	71.7	67.0	
23	0	75.5	71.3	71.5	71.3	71.2	71.4	72.0	73.1	74.7	72.7	71.4	66.6	
28	0	75.5	72.0	72.0	71.3	71.2	71.4	72.0	73.4	74.7	72.3	71.3	65.5	
33	0	74.6	72.7	71.1	71.3	71.6	70.8	72.0	73.4	74.8	72.6	70.8	64.7	
38	0	74.0	72.7	70.7	71.4	71.6	70.7	72.0	73.4	74.5	72.6	69.7	64.0	
43	0	73.3	72.8	70.7	70.7	70.8	70.7	72.3	73.3	74.5	72.6	70.2	64.0	
48	0	72.8	72.8	71.1	70.9	70.5	70.7	72.3	73.0	74.0	72.6	70.1	64.0	
53	0	72.3	72.8	71.0	70.7	70.0	70.7	72.3	73.5	74.0	72.6	69.4	64.0	
58	0	70.9	73.3	71.1	71.0	70.2	71.1	72.3	73.5	74.0	72.6	68.8	64.4	
Thermometer			69.5	69.5	69.4	69.3	69.0	69.0	68.9	68.8	68.8	68.6	68.5	68.6
Increasing Numbers denote decreasing Westerly Declination,														
METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.					
				Dry.	Wet.	Direction.	Force.							
D.	H.	M.	In.	°	°									
19	10	0	30.062	60.5	57.1	Calm.	Calm.	0.0	Cir.-strat. in S. hor.					
	11	0	30.050	60.1	56.7	Calm.	Calm.	0.1	Cir.-strat. in S. and W. horizons.					
	12	0	30.045	59.4	57.0	Calm.	Calm.	0.0	Cir.-strat. S.					
	13	0	30.035	59.9	57.1	Calm.	Calm.	0.0	Clear.					
	14	0	30.036	59.9	58.2	Calm.	Calm.	0.2	Strat.					
	15	0	30.036	61.3	58.9	Calm.	Calm.	0.5	Cir.-strat. spreading from S.					
	16	0	30.032	60.6	58.0	Calm.	Calm.	0.5	Cir. and cir.-cum. spreading from S.					
	17	0	30.036	59.2	57.1	N.	Light Air.	0.7	Cum. and cir.-cum.					
	18	0	30.037	60.6	58.4	N. by E.	Light Air.	0.6	Cum.					
	19	0	30.038	63.0	60.5	N. by E.	Light Air.	0.9	Cum.-strat.					
	20	0	30.046	63.6	60.8	N. W.	Light Air.	1.0	Cum. and cum.-strat.					
	21	0	30.047	66.4	62.8	N. N. W.	Light Air.	0.8	Cum.					

MAGNETICAL OBSERVATIONS. March 19th and 20th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	49.4	50.8	53.1	53.0	53.1	53.2	53.1	51.2	50.8	49.3	49.7	50.1
5	0	49.3	51.0	53.2	52.9	53.1	53.2	52.4	51.5	50.7	49.2	49.8	50.0
10	0	49.6	51.0	53.4	52.9	53.2	53.2	52.2	51.4	50.9	49.2	49.8	50.0
15	0	49.8	51.1	53.2	52.8	53.0	53.2	52.4	51.0	50.0	49.2	49.9	50.0
20	0	49.7	51.1	53.0	52.8	53.1	53.0	52.6	50.5	49.7	49.2	49.9	50.1
25	0	50.0	51.2	53.0	53.0	53.1	53.0	52.8	50.0	49.5	49.4	50.0	50.1
30	0	50.0	51.5	53.1	54.2	53.0	52.8	52.2	49.4	49.7	49.9	50.1	50.1
35	0	50.4	52.0	53.1	54.2	53.0	53.0	51.9	49.0	49.7	50.0	50.1	50.2
40	0	50.7	52.4	53.1	54.1	53.0	52.9	51.8	48.9	49.6	49.9	50.3	50.2
45	0	50.9	52.6	53.3	53.6	53.0	52.7	51.8	49.1	49.3	49.5	50.4	50.2
50	0	50.5	53.0	53.3	53.2	53.0	52.8	51.8	50.0	49.3	49.7	50.4	50.2
55	0	50.6	53.0	53.4	53.1	53.1	53.2	51.2	50.9	49.3	49.7	50.2	50.2

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00022.											
2	0	68.0	65.2	68.9	68.1	68.9	69.0	67.0	59.4	49.0	55.4	57.5	59.3
7	0	67.0	66.4	69.4	68.1	69.0	69.0	65.8	58.1	48.0	55.7	57.2	59.2
12	0	67.5	67.1	69.9	67.8	69.0	69.2	65.1	57.0	47.5	56.0	57.2	59.1
17	0	67.0	67.7	69.8	67.4	68.7	68.9	65.3	55.2	47.3	56.2	57.7	59.1
22	0	67.0	67.3	69.8	67.3	68.3	68.4	65.6	54.9	48.8	56.4	57.9	59.1
27	0	66.6	67.0	70.0	67.8	68.5	68.2	65.1	52.0	49.7	57.0	58.2	59.2
32	0	66.1	67.0	70.1	68.6	68.3	68.1	64.4	51.1	50.8	58.0	58.5	59.1
37	0	66.0	67.1	70.0	68.9	68.3	67.3	63.1	50.3	51.9	58.3	58.8	59.2
42	0	66.1	67.6	69.8	69.0	68.7	66.6	62.5	50.3	52.5	58.1	59.2	59.4
47	0	66.0	67.7	69.6	68.9	68.7	66.8	61.9	50.1	53.2	57.8	59.4	59.5
52	0	64.8	68.0	69.4	68.8	68.8	67.2	61.0	49.9	54.0	57.8	59.5	59.5
57	0	64.9	68.3	68.7	68.8	68.9	67.1	60.1	49.2	55.0	57.7	59.4	59.7

Thermometer		68.3	68.5	68.9	69.3	69.7	69.9	70.2	70.5	70.7	70.9	70.9	70.7
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
3	0	64.2	67.6	63.4	64.9	65.6	66.8	69.6	77.5	85.0	76.2	72.5	71.4
8	0	65.1	66.9	62.7	65.4	65.6	66.8	71.4	78.3	85.0	76.2	72.5	71.4
13	0	64.7	65.8	62.3	65.6	65.6	66.8	71.6	79.4	86.2	75.7	72.5	71.4
18	0	65.4	65.2	62.7	66.0	66.0	67.2	71.9	81.0	86.4	75.7	72.5	71.4
23	0	65.4	65.2	63.1	66.0	66.4	67.4	71.9	83.0	86.2	74.8	72.5	71.4
28	0	65.2	65.2	62.9	65.1	66.4	67.8	71.9	84.1	85.1	73.6	72.5	71.3
33	0	65.6	64.9	62.9	64.2	66.8	68.0	72.6	85.2	83.4	72.5	72.5	71.3
38	0	65.6	64.6	62.9	63.8	66.8	69.1	73.2	86.9	82.4	72.5	72.5	71.3
43	0	65.6	64.6	63.0	64.4	66.8	70.1	74.7	86.9	81.5	72.5	72.5	71.3
48	0	65.6	64.2	63.0	64.8	66.8	70.1	75.3	86.4	79.6	72.5	72.5	71.6
53	0	67.2	63.9	63.4	65.3	66.8	69.6	76.0	85.8	78.5	72.5	71.4	71.6
58	0	67.2	63.9	64.1	65.6	66.8	69.6	76.9	85.0	77.4	72.5	71.4	71.8

Thermometer		68.5	68.9	69.1	69.5	69.7	69.9	70.1	70.3	70.6	70.8	70.8	70.6
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
19	22	0	30.057	67.9	64.0	N. W. by N.	0.5	0.7	Detached cum.
	23	0	30.044	69.0	64.6	N. W.	0.3	0.9	Cum. and cum.-strat.
20	0	0	30.031	70.2	65.0	N. N. W.	1.3	0.8	Cum. and cum.-strat.
	1	0	30.020	71.2	64.9	N. W.	1.3	0.5	Detached cum.
	2	0	29.994	71.4	64.2	N. N. W.	1.3	0.3	Detached cum.
	3	0	29.999	71.1	63.4	N. N. W.	0.8	0.2	Detached cum.; a few cir.
	4	0	30.001	70.7	62.7	N. N. W.	Light Air.	0.1	Cum. round hor.
	5	0	29.997	68.6	62.7	N.	Light Air.	0.0	Clear.
	6	0	29.997	65.6	61.5	Calm.	Calm.	0.0	Clear.
	7	0	30.010	64.1	60.7	Calm.	Calm.	0.0	Clear.
	8	0	30.030	63.4	61.2	Calm.	Calm.	0.0	Bright moonlight.
	9	0	30.033	62.0	59.2	Calm.	Calm.	0.0	Bright moonlight.

April 23rd and 24th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		50.1	50.0	50.3	50.0	49.9	50.0	50.0	49.6	49.7	50.0	45.8	45.2
5	0		50.1	49.9	50.2	50.0	49.9	49.8	49.7	49.6	49.6	49.3	45.2	45.3
10	0		50.0	49.9	50.6	49.9	50.0	49.6	49.7	49.6	49.7	49.0	45.0	45.3
15	0		50.0	49.9	50.4	49.9	49.6	49.5	49.8	49.6	49.7	48.6	45.0	45.3
20	0		50.1	49.9	50.7	49.9	49.5	49.6	49.9	49.6	49.9	48.2	45.0	45.3
25	0		50.1	50.0	50.3	49.8	49.5	50.0	50.0	49.7	49.9	48.0	45.0	45.5
30	0		50.0	50.0	50.1	49.8	49.6	50.0	49.9	49.6	49.9	47.8	45.0	45.4
35	0		50.0	49.9	50.0	49.6	49.6	50.0	49.9	49.6	50.0	47.2	45.0	45.5
40	0		50.0	50.0	50.0	49.9	49.6	50.0	50.0	49.4	50.0	47.0	45.0	45.6
45	0		49.9	50.0	50.0	49.9	50.0	49.9	49.9	49.6	50.0	46.7	45.0	45.7
50	0		49.9	50.1	50.0	50.0	50.0	49.7	49.7	49.6	50.0	46.2	45.0	45.8
55	0		49.9	50.0	50.0	50.0	50.0	49.9	49.6	49.8	50.0	46.2	45.1	46.0

M. S.		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
2	0	63.3	65.7	65.7	65.0	65.9	67.0	66.7	66.0	65.9	66.4	67.7	68.8
7	0	63.3	65.0	65.7	65.1	66.0	66.7	66.6	66.0	66.0	66.6	67.8	68.8
12	0	63.4	64.8	65.7	65.0	66.0	66.5	66.6	65.9	66.0	66.7	68.0	68.8
17	0	63.9	64.9	65.9	65.0	65.8	66.4	66.5	65.9	66.1	66.8	67.9	68.8
22	0	64.3	65.0	65.9	65.1	65.6	66.5	66.5	65.9	66.1	67.0	67.9	68.8
27	0	64.4	65.0	65.8	65.2	65.7	66.6	66.4	65.9	66.2	67.1	67.9	68.7
32	0	64.0	65.0	65.7	65.2	65.7	66.7	66.2	65.9	66.3	67.1	68.0	68.7
37	0	63.7	64.1	65.1	65.2	66.0	66.7	66.2	65.8	66.3	67.2	68.0	68.8
42	0	63.5	64.0	65.1	65.4	65.8	66.7	66.1	65.8	66.5	67.3	68.2	68.9
47	0	63.3	64.9	65.2	65.9	66.8	66.7	66.1	65.8	66.5	67.4	68.3	69.0
52	0	63.9	64.9	65.4	66.0	67.0	66.6	66.1	65.8	66.5	67.4	68.6	69.0
57	0	64.9	65.0	65.1	66.0	66.9	66.6	66.0	65.9	66.4	67.4	68.7	68.9

Thermometer		64.0	63.9	63.9	63.7	63.7	63.3	63.3	63.3	63.2	63.0	62.9	62.7
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M. S.		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
3	0	73.6	71.5	70.7	71.7	71.5	69.8	69.2	70.7	71.2	72.1	74.5	70.8
8	0	73.6	71.4	70.5	71.7	71.5	69.8	69.7	70.7	71.2	72.1	74.5	70.8
13	0	73.6	71.4	70.5	72.1	71.5	70.0	69.7	70.7	71.2	72.8	74.5	70.1
18	0	73.3	71.7	70.5	72.1	71.5	70.3	70.0	71.0	71.2	72.8	74.0	69.7
23	0	72.7	71.7	70.5	72.1	71.7	69.9	70.0	71.0	71.2	73.5	73.9	69.7
28	0	72.4	71.3	70.5	72.1	71.7	69.7	70.0	71.0	71.2	73.5	73.9	69.7
33	0	72.4	71.1	70.9	72.1	71.7	69.4	70.2	71.0	71.2	73.8	73.2	68.9
38	0	72.4	71.1	71.2	72.1	71.1	69.4	70.2	71.0	71.2	73.8	72.7	68.9
43	0	72.4	72.0	71.2	72.1	71.3	69.4	70.2	71.0	71.6	73.8	72.3	68.9
48	0	73.1	71.7	71.2	71.7	70.3	69.2	70.2	71.8	71.6	74.1	72.0	68.1
53	0	73.1	71.4	71.7	71.5	70.0	69.2	70.4	71.8	71.6	74.1	72.0	68.1
58	0	72.3	71.2	71.7	71.5	70.0	69.2	70.7	70.8	71.6	74.1	71.3	68.1

Thermometer		63.8	64.0	64.0	64.0	63.8	63.7	63.8	63.8	63.7	63.6	63.3	63.3
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Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
23	10	0	29.986	54.1	50.0	Calm.	Calm.	0.8	Thin cir. ; bright moonlight.			
	11	0	30.000	55.7	53.0	S.	Light Air.	0.5	Cir. and cir.-strat. ; bright moonlight.			
	12	0	30.018	55.1	51.9	S.	Light Air.	0.1	Cir.-strat.			
	13	0	30.031	51.8	49.1	E. by N.	Light Air.	0.1	Cir. ; scattered.			
	14	0	30.035	54.0	52.1	Calm.	Calm.	1.0	Strat. and fog.			
	15	0	30.040	57.1	55.1	Calm.	Calm.	1.0	Strat. and fog.			
	16	0	30.051	56.4	54.7	Calm.	Calm.	0.0	A few cum. and strat. round horizon.			
	17	0	30.060	55.6	53.7	Calm.	Calm.	0.1	Cum. and cir.-strat. round horizon.			
	18	0	30.077	54.8	53.1	Calm.	Calm.	1.0	Dense fog.			
	19	0	30.095	56.2	55.0	Calm.	Calm.	0.3	Cum. and fog round horizon.			
	20	0	30.131	58.7	57.2	N. W.	Light Air.	0.7	Cum.			
	21	0	30.150	61.0	58.2	N. W.	Light Air.	0.9	Cum.			

MAGNETICAL OBSERVATIONS.

April 23rd and 24th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	46.1	49.5	52.9	53.5	53.3	51.0	50.0	49.0	49.0	47.9	49.2	49.7
5	0	46.2	49.7	53.0	53.4	53.3	51.0	50.0	49.0	49.0	48.0	49.2	49.7
10	0	46.7	50.0	53.3	53.2	53.3	51.0	50.0	49.0	49.0	48.0	49.4	49.7
15	0	47.0	50.1	53.4	53.3	53.0	50.9	50.0	49.0	49.0	48.3	49.3	49.8
20	0	47.1	50.4	53.5	53.4	53.0	50.6	50.0	49.0	49.0	48.9	49.3	49.8
25	0	47.4	50.9	53.6	53.3	53.0	50.5	49.8	49.0	49.0	48.9	49.3	49.8
30	0	47.7	51.1	53.9	53.3	52.9	50.5	49.8	49.0	49.0	48.7	49.3	49.7
35	0	48.0	51.4	53.9	53.3	52.3	50.3	49.7	49.0	48.3	48.8	49.4	49.8
40	0	48.6	51.8	53.8	53.3	52.1	50.5	49.6	49.0	48.1	48.9	49.6	49.9
45	0	49.0	52.0	53.8	53.4	51.9	50.5	49.6	49.0	48.8	49.0	49.8	49.8
50	0	49.2	52.3	53.8	53.4	51.9	50.5	49.6	49.0	48.8	49.1	49.9	49.9
55	0	49.3	52.7	53.7	53.4	50.9	50.2	49.3	49.0	48.0	49.2	49.9	49.9

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00022.											
2	0	68.8	69.6	68.3	67.0	68.1	66.2	66.5	64.6	62.0	60.9	61.5	62.1
7	0	68.8	69.4	68.2	67.0	68.1	67.0	66.3	64.7	61.9	60.7	61.8	62.2
12	0	69.1	69.1	68.1	66.9	68.3	67.3	66.1	64.8	61.5	60.6	61.9	62.2
17	0	69.3	69.0	68.0	67.0	68.3	67.3	66.1	64.2	61.2	60.4	61.9	62.2
22	0	69.4	68.8	67.8	67.0	68.4	67.5	66.0	64.1	61.0	60.2	61.9	62.2
27	0	69.5	68.7	68.0	67.5	68.3	67.3	65.5	64.0	60.8	60.1	62.0	62.2
32	0	69.3	68.5	67.8	67.9	68.1	67.4	65.2	63.3	60.5	60.7	62.0	62.2
37	0	69.2	68.5	67.7	68.0	67.6	67.3	65.0	63.0	60.2	60.7	62.1	62.5
42	0	69.5	68.3	67.5	68.1	67.2	67.1	65.0	63.0	60.1	60.7	62.1	62.8
47	0	69.8	68.3	67.4	68.3	67.5	67.3	64.9	62.9	60.2	61.0	62.5	62.8
52	0	69.9	68.3	67.2	68.3	67.8	67.5	64.7	62.6	60.3	61.0	62.5	62.7
57	0	69.8	68.3	67.2	68.3	66.5	67.0	64.5	62.1	60.5	61.2	62.3	62.7

Thermometer	62.9	63.2	63.7	64.0	64.4	64.9	65.1	65.4	65.7	65.8	65.6	65.6
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
3	0	67.7	63.2	61.5	65.1	65.8	70.6	70.3	72.3	72.8	74.4	71.2	70.1
8	0	67.7	63.2	61.5	65.1	65.8	70.1	70.8	72.3	72.8	73.9	71.2	70.1
13	0	67.0	63.2	61.5	65.1	66.5	69.9	71.0	72.1	73.1	73.3	71.2	70.1
18	0	66.6	63.2	62.1	65.1	66.5	69.9	71.0	72.1	73.1	72.8	70.3	70.1
23	0	66.1	63.2	62.1	65.8	66.5	69.9	71.0	72.1	73.4	72.8	70.3	70.1
28	0	65.7	62.5	62.5	65.8	67.1	69.9	71.3	72.1	73.6	72.8	70.3	70.1
33	0	65.7	62.5	62.5	65.6	67.1	69.9	71.5	72.1	73.6	72.6	70.3	70.1
38	0	65.7	62.5	62.5	65.6	68.1	69.9	71.8	72.1	74.4	72.6	70.1	69.0
43	0	64.7	62.5	62.9	65.6	68.7	69.9	71.8	72.1	74.4	72.3	70.1	69.0
48	0	63.9	62.5	63.4	65.2	68.7	69.9	71.8	72.1	74.4	71.7	70.1	69.0
53	0	63.2	61.5	63.4	65.2	68.7	69.6	71.8	72.4	74.4	71.5	70.1	69.0
58	0	63.2	61.5	64.0	65.2	70.0	70.0	72.3	72.4	74.4	71.2	70.1	69.0

Thermometer	63.5	63.7	63.9	64.2	64.5	65.0	65.1	65.4	65.7	65.8	65.7	65.7
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
23	22	0	30.146	62.7	59.2	N. by W.	Light Air.	0.7	Detached cum.
	23	0	30.139	64.2	59.8	N. W.	Light Air.	0.5	Detached cum.
24	0	0	30.133	65.9	60.7	N. W.	Light Air.	0.6	Detached cum.
	1	0	30.118	68.4	61.1	N. N. W.	0.3	0.8	Cum. and cir.
	2	0	30.123	68.1	60.0	S. by W.	Light Air.	0.7	Detached cum.
	3	0	30.134	68.0	58.8	S.	0.3	0.2	Cum. and cir.-strat. round horizon.
	4	0	30.143	66.0	58.9	S.	Light Air.	0.4	Cum. and cir.-strat. round horizon.
	5	0	30.154	63.0	57.3	S. by E.	Light Air.	0.1	Cum. and strat. round horizon.
	6	0	30.170	61.1	56.3	S. S. E.	0.3	0.0	A few cum. W.
	7	0	30.170	59.7	55.9	S.	0.8	0.0	A few cum. W.
	8	0	30.174	60.9	58.2	S.	0.8	0.6	.5 cum. and .1 cir.
	9	0	30.180	61.0	58.7	S. by W.	1.3	0.5	Cir., cir.-strat., and cum.

May 30th and 31st.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		50.0	49.0	48.0	48.1	49.0	49.0	49.0	52.2	51.5	52.7	51.3	50.3
5	0		50.0	49.0	48.0	48.3	48.5	49.0	49.0	52.6	51.5	52.8	51.2	50.2
10	0		50.0	48.9	48.2	48.9	48.0	49.0	49.1	52.7	52.0	52.9	51.0	50.0
15	0		50.0	48.9	48.3	49.0	48.0	49.0	49.3	52.8	52.0	52.9	50.9	49.9
20	0		49.9	48.9	48.4	49.0	48.0	49.0	49.9	52.6	52.0	52.5	51.0	49.5
25	0		49.9	48.1	48.3	49.0	47.5	49.0	50.0	52.4	52.0	52.7	50.7	49.0
30	0		49.9	48.0	48.4	49.0	47.5	49.0	50.0	52.3	52.0	52.4	50.5	48.5
35	0		49.9	47.9	48.5	49.0	47.8	49.0	50.5	52.2	52.0	52.2	50.5	48.9
40	0		50.0	47.8	48.5	49.0	48.0	49.0	50.9	52.0	52.2	52.1	50.3	48.6
45	0		50.0	47.6	48.4	49.0	48.3	49.0	51.1	51.9	52.2	52.0	50.0	48.9
50	0		49.9	47.6	48.2	49.1	48.9	49.0	51.9	51.7	52.3	51.9	50.1	48.6
55	0		49.4	47.9	48.2	49.1	49.0	49.0	52.1	51.7	52.5	51.4	50.2	48.2

M. S.		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
2	0	65.3	65.0	66.2	66.1	67.5	68.2	67.8	68.9	70.1	71.1	71.7	72.9
7	0	65.3	65.2	65.9	66.0	68.0	68.3	67.8	69.0	70.2	71.2	71.8	73.0
12	0	65.3	65.2	66.0	66.2	68.1	68.4	67.8	69.1	70.4	71.3	71.6	73.0
17	0	65.3	65.3	66.0	66.3	68.1	68.4	67.8	69.3	70.4	71.5	71.6	73.2
22	0	65.2	65.8	66.0	66.6	68.0	68.4	67.9	69.7	70.5	71.7	71.4	73.3
27	0	65.1	65.8	66.0	66.9	68.1	68.4	67.9	69.9	70.7	71.7	71.3	72.8
32	0	64.9	65.9	66.0	67.0	68.1	68.7	67.9	70.1	70.7	71.8	71.7	73.2
37	0	64.8	66.0	66.0	67.0	68.0	68.7	68.0	70.2	70.8	71.9	72.0	73.5
42	0	64.8	66.0	66.1	67.0	67.9	68.5	68.0	70.3	70.8	72.0	72.1	73.4
47	0	64.8	66.2	66.1	67.0	68.1	68.2	68.0	70.2	70.9	71.8	72.4	73.7
52	0	64.8	66.3	66.0	67.0	68.1	68.0	68.4	70.2	70.9	71.8	72.8	73.8
57	0	64.9	66.3	66.0	67.2	68.1	67.9	68.8	70.1	71.0	71.8	72.9	74.0

Thermometer		51.8	51.7	51.7	51.9	51.9	52.0	51.9	51.7	51.4	51.3	51.2	51.1
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M. S.		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
3	0	82.4	82.6	81.5	80.7	79.9	79.1	79.0	77.1	76.7	77.2	81.4	82.3
8	0	82.4	82.6	81.5	80.7	79.9	79.0	79.0	77.1	76.7	77.2	81.4	83.0
13	0	82.4	82.6	81.5	80.3	79.9	79.0	79.0	76.7	76.7	77.9	82.1	83.0
18	0	82.4	82.6	81.5	80.3	79.9	78.5	79.0	76.7	76.7	77.9	82.1	83.0
23	0	82.5	82.6	81.1	80.3	79.9	78.5	78.4	76.7	76.7	78.5	82.1	83.0
28	0	82.5	82.6	81.1	80.3	79.9	78.5	78.4	76.7	76.7	78.5	83.0	83.7
33	0	82.5	82.6	81.1	80.3	79.9	78.5	78.1	76.7	76.7	79.0	83.0	83.4
38	0	82.5	82.6	81.1	80.3	79.9	78.5	77.8	76.7	76.7	79.5	83.0	83.0
43	0	82.5	82.6	80.7	80.3	79.7	78.5	77.8	76.7	76.7	79.5	83.0	82.8
48	0	82.2	82.2	80.7	80.3	79.2	78.5	77.6	76.7	76.7	79.5	83.0	82.4
53	0	82.6	81.9	80.7	79.9	79.1	79.0	77.1	76.7	77.2	80.4	82.9	82.4
58	0	82.6	81.5	80.7	79.9	79.1	79.0	77.1	76.7	77.2	81.0	82.3	82.4

Thermometer		52.6	52.6	52.7	52.8	52.8	52.8	52.7	52.6	52.5	52.3	52.2	52.1
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
30	10	0	30.475	46.8	42.7	S. S. E.	2.6	0.8	Cum. and cum.-strat. ; squally.				
	11	0	30.489	45.4	42.7	S. E.	1.7	0.4	Cum. and cum.-strat. ; dark.				
	12	0	30.496	46.6	44.4	S. E.	1.3	0.2	Cum. and cum.-strat.				
	13	0	30.505	43.6	40.9	S. S. E.	0.8	0.5	Cum., cum.-strat., and cir.-strat.				
	14	0	30.525	44.0	41.4	S. E. by S.	0.3	0.6	Cum.-strat. and nim. ; light rain.				
	15	0	30.517	44.0	41.0	S. E. by S.	0.5	0.7	Cum.-strat.				
	16	0	30.532	43.9	40.6	S. by E.	0.3	0.0	A few cum. W.				
	17	0	30.537	44.3	40.7	S. E. by S.	0.3	0.4	Cum.				
	18	0	30.557	44.0	40.8	S.	Light Air.	0.5	Cum. and cum.-strat.				
	19	0	30.571	45.9	41.7	S. by E.	0.8	0.6	Cum. and cum.-strat.				
	20	0	30.583	49.4	44.0	S. by E.	0.8	0.2	Cum. and cum.-strat.				
	21	0	30.589	52.4	45.4	S. E.	0.5	0.0	A few cum. S. and E. horizons.				

MAGNETICAL OBSERVATIONS.													May 30th and 31st.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	48.0	48.6	50.0	49.0	50.5	49.9	47.5	48.0	49.0	49.1	49.2	49.7	
5	0	48.4	48.5	50.2	49.1	50.2	49.8	47.8	48.2	48.4	49.1	49.1	49.6	
10	0	48.7	48.6	50.2	49.2	50.0	49.3	47.9	48.5	48.1	49.0	49.4	49.5	
15	0	49.0	48.6	50.1	49.2	50.0	49.4	47.9	48.1	48.2	49.1	49.8	49.5	
20	0	48.7	48.7	50.0	49.1	49.8	49.4	47.9	48.1	48.4	49.6	49.8	49.5	
25	0	48.6	49.0	50.2	49.2	50.0	49.0	48.0	48.0	48.9	49.7	50.0	49.6	
30	0	48.9	49.2	50.5	49.0	50.3	49.0	48.0	48.0	48.9	49.5	50.0	49.5	
35	0	48.9	49.3	50.0	49.2	50.2	48.7	48.0	48.4	49.0	49.5	50.0	49.5	
40	0	48.8	49.5	50.0	49.2	50.0	48.2	48.1	49.0	49.0	49.1	50.0	49.4	
45	0	48.8	50.0	49.6	50.0	50.0	48.0	47.6	49.0	49.2	49.0	50.0	49.4	
50	0	48.7	50.0	49.2	50.3	50.0	48.0	47.8	49.0	49.1	49.0	49.9	49.5	
55	0	48.6	50.0	49.0	50.3	50.0	47.9	47.9	49.0	49.1	49.2	49.8	49.5	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	0	74.0	72.0	68.9	67.1	65.2	63.1	65.5	65.2	63.7	64.2	65.1	65.0	
7	0	73.8	71.5	68.8	66.8	65.0	63.2	65.9	65.3	63.8	64.4	65.0	64.9	
12	0	73.5	71.4	68.5	66.9	64.8	63.5	65.9	65.3	63.8	64.6	64.9	64.9	
17	0	73.4	71.0	68.5	66.1	64.4	63.3	66.4	65.1	63.9	64.8	65.0	64.9	
22	0	73.1	71.1	68.9	66.1	64.4	63.2	67.1	64.9	63.9	64.9	64.9	64.9	
27	0	73.1	71.0	68.6	67.2	64.2	63.2	67.4	64.9	64.0	64.9	64.7	64.9	
32	0	73.5	70.7	68.3	68.2	63.9	63.9	67.6	64.9	64.0	65.0	64.8	64.7	
37	0	73.2	70.6	68.2	68.2	63.6	64.1	67.3	64.9	64.1	65.1	65.0	64.8	
42	0	72.7	70.5	68.3	66.1	63.2	64.3	65.8	64.7	64.1	65.0	65.1	65.0	
47	0	72.5	70.0	68.3	65.2	63.1	64.3	65.2	64.2	64.2	65.0	65.0	65.0	
52	0	72.5	69.6	68.0	65.5	62.9	64.9	65.0	64.0	64.2	65.0	65.0	65.0	
57	0	72.3	69.3	67.6	65.6	62.8	65.2	65.1	63.9	64.2	65.1	65.0	65.0	

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
3	0	82.1	81.5	82.7	82.5	81.1	84.4	84.0	81.6	82.4	80.6	79.5	78.9	
8	0	81.7	81.5	82.7	82.8	81.8	84.4	84.0	80.8	82.6	80.6	79.5	79.4	
13	0	81.7	81.8	82.7	82.1	82.3	84.4	82.7	80.8	82.6	80.6	79.5	79.4	
18	0	81.7	82.1	83.3	82.1	82.3	84.4	82.0	81.1	82.6	80.1	79.4	79.4	
23	0	81.7	82.1	82.8	82.5	82.3	84.4	81.0	81.1	82.4	79.6	79.4	79.4	
28	0	81.7	82.1	81.9	82.5	82.3	84.4	80.2	81.5	82.1	79.6	79.4	79.4	
33	0	81.6	82.1	81.9	81.1	82.3	84.9	79.7	81.5	81.6	79.6	79.2	79.4	
38	0	81.6	82.3	82.1	81.1	82.3	84.9	79.6	81.0	81.4	79.6	79.0	79.4	
43	0	81.6	81.9	82.1	81.1	83.1	84.9	80.6	81.0	81.1	79.9	79.0	79.6	
48	0	81.6	81.9	82.1	81.1	83.1	84.9	81.3	81.0	80.6	79.9	79.0	79.6	
53	0	81.6	82.1	82.1	81.1	84.0	84.4	81.9	81.4	80.6	79.9	78.9	79.6	
58	0	81.7	82.3	82.5	81.1	84.0	84.4	81.6	81.9	80.6	79.5	78.9	79.6	

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
30	22	0	30.585	53.2	45.3	S. E.	2.2	0.0	A few cum. S. and E. horizons			
	23	0	30.569	54.7	46.2	S. E. by S.	2.2	0.0	A few cum. S. and E. horizons.			
31	0	0	30.544	55.6	47.2	S. E.	2.6	0.1	Cum. round horizon.			
	1	0	30.535	56.2	47.5	S. E.	4.2	0.1	Cum. round horizon.			
	2	0	30.538	55.9	47.3	S. E.	2.6	0.1	Cum. round horizon.			
	3	0	30.538	55.1	47.4	S. E.	3.6	0.0	A few cum. S. horizon.			
	4	0	30.545	53.4	47.1	S. S. E.	1.3	0.0	A few cum. S. and E. horizons.			
	5	0	30.554	50.5	45.9	S. by E.	0.3	0.0	A few cum. S. W. and S. E.			
	6	0	30.562	49.4	45.8	S.	0.5	0.0	Clear.			
	7	0	30.576	49.9	45.7	S. S. W.	0.8	0.0	Clear.			
	8	0	30.576	50.3	45.9	S.	0.7	0.0	Clear starlight.			
	9	0	30.584	50.3	45.6	S. by E.	1.3	0.0	Clear starlight.			

June 18th and 19th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.						DECLINATION.					
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		53.0	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.4	54.2	53.0	51.0
5	0		53.0	52.8	53.0	53.0	53.0	53.0	53.0	53.2	53.6	54.1	52.8	50.9
10	0		53.0	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.9	54.1	52.4	50.8
15	0		53.0	52.8	53.0	53.0	53.0	53.0	53.0	53.1	53.9	54.0	52.1	50.3
20	0		53.0	52.8	52.7	53.0	53.0	53.0	53.0	53.1	54.0	54.0	52.0	50.1
25	0		53.0	52.8	52.7	53.0	53.0	53.0	53.0	53.1	54.0	54.0	52.0	50.1
30	0		53.0	52.8	52.7	53.0	53.0	53.0	53.0	53.3	54.0	53.9	52.0	50.0
35	0		53.0	52.9	52.8	53.0	53.0	53.0	53.0	53.3	54.0	53.8	51.9	49.9
40	0		53.0	52.9	52.8	53.0	53.0	53.0	53.0	53.3	54.2	53.7	51.6	49.5
45	0		53.0	52.9	53.0	53.0	53.0	53.0	53.0	53.2	54.2	53.3	51.4	49.3
50	0		52.8	52.9	53.0	53.0	53.0	53.0	53.0	53.2	54.1	53.2	51.2	49.3
55	0		52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.4	54.1	53.1	51.1	49.2
			One Scale Division = .00022 parts of the H. F.						HORIZONTAL FORCE.					
M.	S.													
2	0		67.3	67.6	68.0	67.8	67.8	67.3	67.7	68.0	68.0	69.1	69.9	71.3
7	0		67.3	67.6	67.9	67.8	68.0	67.4	67.5	68.0	68.1	69.2	69.9	71.3
12	0		67.3	67.8	67.9	67.8	68.0	67.5	67.5	68.0	68.1	69.3	70.0	71.9
17	0		67.3	67.8	67.7	67.8	67.9	67.5	67.5	68.0	68.3	69.3	70.2	72.2
22	0		67.4	67.7	67.3	67.8	67.8	67.5	67.6	68.0	68.4	69.5	70.3	71.8
27	0		67.4	67.6	67.2	67.8	67.8	67.6	67.8	68.0	68.5	69.5	70.5	71.6
32	0		67.4	67.7	67.3	67.8	67.7	67.6	67.9	68.0	68.5	69.5	70.6	71.2
37	0		67.4	67.8	67.3	67.8	67.7	67.5	68.0	68.1	68.5	69.6	70.7	71.5
42	0		67.5	67.8	67.5	67.8	67.7	67.5	68.0	68.1	68.7	69.8	70.8	71.7
47	0		67.3	67.8	67.7	67.8	67.4	67.5	68.0	68.0	68.8	69.8	70.9	71.7
52	0		67.3	67.8	67.7	67.8	67.2	67.5	68.0	67.9	68.9	69.9	71.0	71.6
57	0		67.4	67.8	67.8	67.8	67.2	67.5	68.0	67.9	69.0	69.9	71.2	71.3
Thermometer			58.0	58.1	58.3	58.4	58.3	58.1	58.0	57.9	57.8	57.7	57.7	57.8
			One Scale Division = .00014 parts of the V. F.						VERTICAL FORCE.					
M.	S.													
3	0		72.5	71.9	71.8	71.5	71.5	72.1	72.4	71.6	71.0	70.8	72.4	73.1
8	0		72.5	71.9	71.8	71.5	71.5	72.1	72.4	71.6	71.0	70.8	72.4	73.1
13	0		72.5	71.9	71.8	71.5	71.5	72.1	72.4	71.6	71.0	70.8	72.9	73.1
18	0		72.5	71.8	71.8	71.5	71.5	72.1	72.4	71.6	70.6	70.8	72.9	72.7
23	0		72.5	71.8	71.8	71.5	71.5	72.1	72.4	71.6	70.6	70.8	72.9	72.7
28	0		72.0	71.8	72.1	71.5	71.5	72.1	72.4	71.6	70.6	71.3	72.9	72.7
33	0		72.0	71.8	72.1	71.5	71.5	72.1	72.4	71.0	70.6	71.3	72.9	72.7
38	0		72.1	71.8	72.1	71.5	71.5	72.1	71.4	71.0	70.6	72.1	72.9	72.7
43	0		72.1	71.8	72.1	71.5	71.5	72.1	71.6	71.0	70.6	72.1	73.1	72.7
48	0		72.1	71.8	71.7	71.5	72.1	72.1	71.6	71.0	70.6	71.8	73.1	72.7
53	0		72.1	71.8	71.7	71.5	72.1	72.1	71.6	71.0	70.6	71.8	73.1	72.7
58	0		71.9	71.8	71.7	71.5	72.1	72.1	71.6	71.0	70.6	71.8	73.1	72.7
Thermometer			58.2	58.3	58.5	58.6	58.4	58.4	58.3	58.4	58.3	58.3	58.3	58.2

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
18	10	0	30.206	55.0	53.0	S.	0.5	0.0	Bright moonlight.				
	11	0	30.202	54.9	52.9	S.	0.5	0.0	Clear.				
	12	0	30.196	53.3	51.0	S.	Light Air.	0.0	Clear; dew.				
	13	0	30.194	51.6	49.2	S.	Light Air.	0.0	Clear; dew.				
	14	0	30.192	53.4	51.6	S.	0.5	0.0	Clear; heavy dew.				
	15	0	30.198	54.1	51.6	S.	0.8	0.0	Cum. N. W. horizon; heavy dew.				
	16	0	30.198	54.6	52.0	S.	0.8	0.0	A few cum. S. W. hor.; heavy dew.				
	17	0	30.198	55.0	52.0	S.	0.8	0.0	A few cum. S. W. hor.; heavy dew.				
	18	0	30.222	55.6	53.1	S.	1.7	0.1	Cum. S. W. and scattered round hor.; heavy dew.				
	19	0	30.238	55.5	53.5	S.	1.3	0.6	Cum. and scud.; hazy.				
	20	0	30.264	56.8	54.9	S.	0.5	0.6	Cum.				
	21	0	30.282	57.5	54.9	S. by W.	1.3	0.6	Cum.				

MAGNETICAL OBSERVATIONS.													June 18th and 19th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	49.2	50.0	51.9	53.1	54.0	53.5	52.6	52.3	52.4	52.7	53.0	53.0	
5	0	49.1	50.1	52.0	53.2	54.0	53.4	52.5	52.3	52.5	52.7	53.0	53.0	
10	0	49.0	50.1	52.0	53.4	54.0	53.3	52.5	52.3	52.5	52.7	53.0	53.0	
15	0	49.0	50.3	52.0	53.4	53.9	53.3	52.4	52.3	52.6	52.8	53.0	53.0	
20	0	49.0	50.6	52.1	53.5	53.8	53.0	52.3	52.3	52.7	52.8	53.0	53.1	
25	0	49.1	50.7	52.1	53.5	53.9	53.0	52.5	52.3	52.7	52.8	53.0	53.1	
30	0	49.3	50.8	52.3	53.6	54.0	53.0	52.5	52.3	52.7	52.8	53.0	53.1	
35	0	49.6	51.0	52.7	53.8	54.0	53.0	52.5	52.3	52.7	52.8	53.0	53.1	
40	0	49.8	51.0	52.9	53.9	54.0	53.0	52.4	52.3	52.6	52.9	53.0	53.1	
45	0	49.9	51.1	52.9	53.8	53.9	53.0	52.4	52.3	52.6	52.9	53.0	53.1	
50	0	50.0	51.5	53.0	53.9	53.8	52.7	52.4	52.3	52.6	53.0	53.0	53.1	
55	0	50.0	51.6	53.0	53.9	53.7	52.7	52.3	52.4	52.6	53.0	53.0	53.1	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah ^t . = .00022.	
		71.2	69.8	68.5	68.0	67.5	67.6	68.0	67.7	67.1	66.8	66.9	66.8	
2	0	71.2	69.8	68.5	68.0	67.5	67.6	68.0	67.7	67.1	66.8	66.9	66.8	
7	0	71.0	69.7	68.3	68.0	67.5	67.5	68.0	67.7	67.0	66.8	66.9	66.8	
12	0	70.9	69.8	68.2	68.0	67.2	67.7	68.1	67.7	67.0	66.7	66.9	66.8	
17	0	70.6	69.4	68.1	67.7	66.9	67.5	68.0	67.7	67.0	66.7	66.8	67.0	
22	0	70.3	69.1	68.1	67.5	67.0	67.3	68.0	67.6	67.1	66.7	66.9	67.0	
27	0	70.2	68.9	68.2	67.6	67.4	67.5	68.2	67.6	67.0	66.7	66.9	67.0	
32	0	70.2	69.0	68.3	67.7	67.5	67.7	68.1	67.6	67.0	66.8	66.8	67.0	
37	0	70.1	69.0	68.2	67.7	67.5	67.7	68.0	67.4	67.0	66.9	66.8	67.0	
42	0	70.0	69.0	68.1	67.5	67.6	67.6	68.0	67.2	67.0	66.9	66.7	67.0	
47	0	70.0	69.0	68.1	67.5	67.6	67.7	67.9	67.1	67.0	66.9	66.8	67.0	
52	0	69.8	68.8	68.1	67.5	67.8	67.8	67.7	67.1	67.0	66.9	66.8	67.0	
57	0	69.8	68.7	68.1	67.5	67.7	68.0	67.7	67.1	67.0	66.9	66.8	67.0	
Thermometer		58.0	58.4	58.3	58.7	58.6	58.7	58.6	58.6	58.7	58.7	58.6	58.4	

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah ^t . = .00005.	
		72.5	71.4	70.1	70.4	69.9	71.4	73.6	73.8	73.6	73.7	72.9	72.9	
3	0	72.5	71.4	70.1	70.4	69.9	71.4	73.6	73.8	73.6	73.7	72.9	72.9	
8	0	72.5	71.4	70.1	70.2	69.9	71.9	73.8	73.8	73.6	73.7	72.9	73.4	
13	0	72.4	71.0	70.1	70.0	70.4	71.9	73.8	73.8	73.6	73.7	72.9	73.3	
18	0	72.4	70.7	70.5	70.0	71.0	72.2	73.1	73.8	73.6	74.2	72.9	73.3	
23	0	72.4	70.7	70.5	70.2	71.0	72.6	73.1	73.8	73.6	74.2	72.9	73.2	
28	0	72.4	70.7	70.5	70.2	70.8	72.6	73.1	73.8	73.6	74.2	72.9	73.2	
33	0	72.4	70.5	70.5	70.2	70.8	72.6	73.2	72.7	73.6	74.2	72.9	73.2	
38	0	72.4	70.5	70.5	69.9	70.8	72.6	73.2	72.7	73.6	74.2	72.9	72.6	
43	0	72.0	70.5	70.5	69.9	70.8	72.6	73.7	72.7	73.6	74.2	72.9	72.6	
48	0	71.9	70.1	70.5	69.9	70.8	73.0	73.7	73.6	73.6	72.9	72.9	72.6	
53	0	71.9	70.1	70.4	69.9	70.8	73.0	73.9	73.6	73.6	72.9	72.9	72.6	
58	0	71.6	70.1	70.4	69.9	70.8	73.0	73.9	73.6	73.6	72.9	72.9	72.6	
Thermometer		58.5	58.6	58.8	58.8	58.9	59.0	58.9	59.0	59.0	58.9	58.8	58.7	

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
18	22	0	30.290	58.2	55.2	S.	1.3	0.5	Cum.			
	23	0	30.294	58.8	55.0	S. by W.	1.7	0.7	Cum.			
19	0	0	30.285	58.6	54.2	S.	1.3	0.6	Cum.			
	1	0	30.281	58.1	53.5	S. by W.	2.6	1.0	Cum. and cum.-strat.			
	2	0	30.297	56.4	52.0	S.	1.3	0.9	Cum. and cum.-strat.			
	3	0	30.304	56.2	51.2	S.	2.2	0.3	Cum. and cum.-strat. round horizon.			
	4	0	30.309	54.9	49.8	S.	1.7	0.1	Cum. S. W. and N. W. horizons.			
	5	0	30.309	54.2	49.8	S.	1.3	0.0	A few cum. S. W. horizon.			
	6	0	30.316	54.0	49.7	S.	1.3	0.0	Clear.			
	7	0	30.328	54.3	50.0	S. by W.	1.3	0.0	Clear.			
	8	0	30.338	54.2	50.0	S.	2.2	0.0	Clear.			
	9	0	30.342	54.6	50.0	S.	2.2	0.0	Clear.			

July 23rd and 24th.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.						DECLINATION.					
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	50.9	51.0	51.4	51.6	51.7	51.2	51.2	51.0	51.5	55.8	54.8	52.1
5	0	50.9	51.0	51.2	51.7	51.9	51.0	51.5	50.9	52.0	55.9	54.6	52.0
10	0	51.0	51.0	51.3	52.0	52.0	51.0	51.7	50.9	52.7	56.0	54.2	52.0
15	0	51.0	51.0	51.5	52.0	52.0	51.0	51.9	50.9	53.0	56.1	54.1	51.8
20	0	51.1	51.0	51.5	51.7	52.0	51.0	52.0	50.5	53.6	55.9	54.0	51.3
25	0	51.1	51.0	51.5	51.7	51.8	51.0	52.0	50.2	54.0	55.8	53.9	51.1
30	0	51.2	51.0	51.4	51.7	51.8	50.9	51.8	50.1	54.3	55.9	53.5	50.8
35	0	51.2	51.1	51.4	52.0	51.7	50.5	51.6	50.1	54.8	55.8	53.2	50.6
40	0	51.1	51.2	51.3	52.0	51.7	50.4	51.4	50.5	54.9	55.2	53.1	50.3
45	0	51.0	51.3	51.5	52.0	51.9	50.5	51.4	50.9	55.0	55.1	52.9	50.2
50	0	50.9	51.3	51.5	51.9	51.8	50.3	51.5	51.0	55.0	54.9	52.7	50.0
55	0	51.0	51.4	51.6	51.7	51.4	50.5	51.1	51.1	55.1	55.0	52.4	49.9

M. S.		One Scale Division = .00022 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 .	21 ^h .
2	0	64.3	64.6	64.5	65.6	65.7	66.2	65.7	66.2	65.8	66.9	67.9	68.0
7	0	64.2	64.5	64.6	65.7	65.8	66.0	65.7	66.0	65.8	66.9	67.9	68.0
12	0	64.2	64.5	64.7	65.8	66.1	66.0	65.8	65.9	65.9	67.0	68.0	67.9
17	0	64.3	64.4	65.0	65.8	66.0	66.2	66.1	65.8	65.9	66.9	67.9	67.9
22	0	64.5	64.3	64.8	65.7	66.0	66.2	66.2	65.8	66.0	66.9	68.0	68.0
27	0	64.5	64.4	65.0	65.7	66.0	66.1	66.3	65.7	66.1	66.9	68.0	68.0
32	0	64.5	64.5	65.0	65.9	66.0	66.0	66.5	65.7	66.2	67.1	68.0	67.9
37	0	64.4	64.6	65.3	66.0	66.0	66.0	66.4	65.4	66.5	67.2	68.0	67.9
42	0	64.4	64.6	65.4	65.9	66.0	65.8	66.2	65.3	66.8	67.5	68.0	67.8
47	0	64.5	64.6	65.5	66.0	66.2	65.6	66.2	65.2	66.8	67.4	67.9	67.8
52	0	64.5	64.7	65.4	66.0	66.2	65.4	66.2	65.3	66.9	67.7	68.0	67.5
57	0	64.5	64.7	65.5	65.8	66.2	65.8	66.0	65.2	66.9	67.8	68.0	67.5

Thermometer		55.3	55.4	55.7	55.7	55.8	55.8	55.8	55.8	55.9	55.9	55.8	55.6
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M. S.		One Scale Division = .00014 parts 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 .	21 ^h .
3	0	73.6	72.5	72.3	71.6	71.8	72.3	72.2	72.2	71.1	67.0	69.7	72.6
8	0	73.9	72.9	72.3	71.0	71.6	72.3	72.2	72.2	70.0	67.0	69.7	72.6
13	0	73.9	72.9	72.3	70.5	71.6	72.4	72.2	72.2	69.0	66.8	70.2	73.2
18	0	73.7	72.9	72.3	71.2	71.6	72.4	71.8	72.4	68.8	67.1	70.2	73.2
23	0	73.0	72.6	71.9	71.2	71.8	72.4	71.8	72.4	68.0	67.8	70.8	73.2
28	0	73.0	72.6	72.2	71.2	71.8	72.4	71.8	72.7	67.8	67.8	71.1	73.7
33	0	72.6	72.5	72.1	71.2	71.8	72.8	71.8	72.7	67.3	68.2	71.1	73.7
38	0	72.6	72.8	72.1	71.5	71.8	72.8	71.8	72.7	67.3	68.2	71.6	74.2
43	0	72.6	72.3	71.8	71.5	71.8	72.8	71.8	72.7	67.3	68.5	72.0	74.2
48	0	72.9	72.3	71.8	71.6	71.8	72.8	71.5	72.3	67.3	68.9	72.4	74.2
53	0	72.7	72.3	71.4	71.5	71.8	73.4	71.5	71.9	67.0	69.3	72.4	74.5
58	0	72.7	72.3	71.4	71.5	71.8	72.6	72.2	71.7	67.0	70.6	72.6	74.5

Thermometer		55.6	56.0	56.1	56.2	56.3	56.2	56.2	56.2	56.4	56.4	56.1	55.9
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Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
23	10	0	29.963	48.6	47.2	N. N. E.	0.5	1.0	Nim.; drizzling rain; very dark.
	11	0	29.973	48.6	47.3	N. N. E.	0.3	1.0	Nim.; drizzling rain; very dark.
	12	0	29.966	48.6	47.0	N.	Light Air.	1.0	Nim.; drizzling rain; very dark.
	13	0	29.978	48.8	47.2	N.	0.5	1.0	Nim.
	14	0	29.994	49.0	47.2	N. W.	0.3	1.0	Cum., cum.-strat., and nim.; light showers.
	15	0	30.014	48.3	46.7	Calm.	Calm.	1.0	Cum.-strat. and nim.
	16	0	30.028	47.7	46.3	Calm.	Calm.	0.9	Cum.-strat. and cum.; clearing.
	17	0	30.040	47.4	46.1	Calm.	Calm.	1.0	Cum. and cum.-strat.
	18	0	30.068	47.5	46.1	Calm.	Calm.	1.0	Nim.; light rain.
	19	0	30.094	47.4	45.9	Calm.	Calm.	1.0	Cum.-strat. and nim.
	20	0	30.120	48.3	47.0	E.	Light Air.	1.0	Cum.-strat. and nim.
	21	0	30.132	49.4	48.1	Calm.	Calm.	0.9	Cum., cum.-strat., and nim.; clearing N.

MAGNETICAL OBSERVATIONS. July 23rd and 24th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	49.5	47.9	47.0	48.2	52.3	52.6	51.5	50.5	50.2	50.2	50.5	50.7
5	0	49.1	48.0	46.9	48.8	52.4	52.5	51.4	50.5	50.2	50.0	50.5	50.9
10	0	49.0	47.8	47.0	49.1	52.5	52.4	51.0	50.8	50.0	50.0	50.6	50.6
15	0	48.8	47.5	47.0	49.6	52.6	52.3	51.0	50.7	50.1	50.0	50.8	50.1
20	0	48.5	47.2	47.0	50.0	52.7	52.3	51.0	50.5	50.2	50.0	50.9	49.8
25	0	48.3	47.2	46.9	50.4	52.7	52.4	51.0	50.4	50.3	50.4	50.7	49.1
30	0	48.2	47.2	47.0	50.7	52.7	52.3	51.0	50.4	50.2	50.3	50.7	49.5
35	0	48.1	47.2	47.0	51.0	52.7	52.2	50.9	50.7	50.2	50.6	50.0	50.0
40	0	48.1	47.2	47.1	51.2	52.5	52.3	50.8	50.7	50.2	50.5	48.5	50.2
45	0	48.0	47.1	47.2	51.6	52.5	52.0	50.6	50.5	50.0	50.2	50.0	50.3
50	0	47.8	47.1	47.8	51.8	52.5	51.9	50.4	50.4	50.1	50.2	50.3	50.4
55	0	47.6	47.0	48.0	52.0	52.6	51.6	50.5	50.2	50.1	50.4	50.5	50.4

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00022.											
2	0	67.4	67.6	65.6	64.9	64.2	64.7	63.0	62.1	61.1	59.4	58.7	59.8
7	0	67.4	67.3	65.6	64.8	64.2	64.7	62.7	62.0	60.9	59.4	58.7	59.8
12	0	67.4	67.2	65.5	64.7	64.0	64.5	62.7	61.7	61.0	59.7	58.7	60.1
17	0	67.3	66.9	65.3	64.7	64.0	64.6	62.8	61.4	61.0	59.7	58.7	60.8
22	0	67.2	66.8	65.0	64.6	64.1	64.6	62.8	61.4	61.0	59.7	58.7	61.0
27	0	67.3	66.4	64.9	64.7	64.1	64.5	62.7	61.4	61.0	59.4	58.5	61.3
32	0	67.4	66.4	64.8	64.6	64.2	64.0	62.7	61.4	60.8	59.2	58.6	61.6
37	0	67.5	66.2	64.7	64.5	64.4	64.0	62.5	61.3	60.5	59.0	59.0	61.1
42	0	67.6	66.1	64.8	64.3	64.5	63.7	62.3	61.3	60.3	59.0	59.3	60.3
47	0	67.4	66.0	64.8	64.1	64.6	63.5	62.3	61.3	60.2	59.0	59.4	60.1
52	0	67.5	66.0	64.8	64.0	64.7	63.3	62.3	61.4	60.0	58.9	59.5	60.3
57	0	67.4	65.8	64.9	64.0	64.5	63.1	62.3	61.2	59.7	58.8	59.7	60.9

Thermometer	55.4	55.4	55.5	55.6	55.6	55.7	55.8	56.0	56.2	56.4	56.4	56.3
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
3	0	74.5	74.5	72.8	71.4	69.1	70.4	74.5	75.0	74.9	76.0	74.7	72.5
8	0	74.5	73.9	72.4	70.7	69.1	71.1	74.5	75.0	75.6	76.0	74.7	72.7
13	0	74.5	73.9	72.4	70.5	69.1	71.5	75.2	74.7	75.0	75.8	74.7	72.7
18	0	74.5	73.9	72.1	70.1	69.1	71.5	75.2	74.9	75.0	75.8	74.7	72.9
23	0	74.5	73.9	72.1	70.1	69.1	71.5	75.2	74.9	75.0	74.9	74.7	73.1
28	0	74.5	73.6	72.5	69.6	69.1	71.5	75.2	74.9	75.0	74.9	74.7	72.8
33	0	74.5	73.3	72.5	69.6	69.6	72.2	74.7	74.9	75.0	74.7	74.7	72.0
38	0	74.5	73.3	72.5	69.6	69.6	72.5	74.7	74.9	75.0	74.7	74.7	71.7
43	0	74.5	73.3	72.5	69.6	69.6	73.1	75.1	74.9	75.4	74.7	74.7	71.9
48	0	74.5	73.3	72.5	69.6	69.9	73.5	75.1	74.9	75.4	74.7	74.1	72.2
53	0	74.5	72.8	72.5	69.6	69.9	74.1	75.1	74.9	75.4	74.7	73.6	72.4
58	0	74.5	72.8	71.8	69.6	70.0	74.0	75.0	74.9	75.4	74.7	72.5	72.0

Thermometer	55.9	55.9	55.9	56.0	56.2	56.3	56.3	56.4	56.7	56.8	56.8	56.7
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
23	22	0	30.159	50.5	48.6	N. W.	Light Air.	1.0	Cum.-strat. and mist.
	23	0	30.156	50.8	48.2	N. W.	0.3	0.8	Cum. and cum.-strat. detached.
24	0	0	30.154	51.1	49.2	N. N. W.	Light Air.	1.0	Cum., cum.-strat., and nim.; showery.
	1	0	30.154	52.2	49.4	N. N. W.	0.5	1.0	Cum. and a few cir.
	2	0	30.163	51.6	47.8	W.	2.2	0.8	Cum. and cum.-strat.
	3	0	30.175	52.0	48.0	N. W.	0.3	0.3	Detached cum. round horizon.
	4	0	30.195	51.2	48.1	N. W. by N.	0.3	0.3	Detached cum. round horizon.
	5	0	30.209	50.2	47.1	N. W. by W.	Light Air.	0.8	Cum. and cum.-strat.
	6	0	30.232	48.7	45.7	N. W. by W.	1.3	0.0	A few cum. round horizon.
	7	0	30.244	47.8	45.0	N. by E.	0.8	0.8	Cum.-strat. and nim.; squally.
	8	0	30.262	48.6	46.4	N. W.	1.3	0.1	Cir.-strat. round horizon; showery.
	9	0	30.268	48.8	45.6	N. W. by N.	0.5	0.4	Cum. in large masses round horizon; squally.

August 29th and 30th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		41.5	48.6	50.1	50.1	49.0	49.4	51.5	52.0	51.0	50.9	50.8	
5	0		41.1	48.3	51.1	49.9	48.9	49.8	51.6	52.3	51.0	50.8	50.8	
10	0		41.8	48.0	51.9	49.4	48.7	50.3	51.8	52.2	51.7	50.5	50.9	
15	0		43.0	48.1	51.8	49.1	48.9	50.3	51.6	52.1	52.0	50.9	50.9	
20	0		45.0	48.1	51.1	49.0	49.0	50.7	51.1	52.0	52.2	50.8	51.2	
25	0		47.1	48.0	51.0	48.9	49.3	51.2	51.0	51.7	52.7	50.4	50.9	
30	0		48.2	47.9	50.9	48.9	49.3	51.3	50.9	51.4	52.8	50.5	50.7	
35	0		48.7	48.0	50.8	49.0	49.6	51.2	51.0	51.3	52.8	50.3	50.1	
40	0		48.7	48.2	50.2	48.8	49.6	51.3	51.3	51.0	52.8	51.2	49.9	
45	0		48.2	48.5	50.5	48.2	49.3	51.2	51.6	51.0	52.4	51.0	49.4	
50	0		48.3	49.1	50.4	48.5	48.9	51.4	51.7	51.0	51.6	50.9	49.0	
55	0		48.5	49.9	50.6	49.0	49.0	51.3	51.9	51.0	51.0	51.0	49.2	

		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.												
2	0	58.8	60.0	63.9	64.2	61.1	61.4	61.7	61.1	61.6	64.0	63.1	64.9
7	0	60.0	60.0	64.8	65.0	61.2	61.7	62.0	60.5	61.7	64.2	64.0	64.3
12	0	61.5	60.1	65.1	64.9	61.3	61.3	62.1	60.8	61.5	64.0	64.3	64.0
17	0	61.9	60.1	65.2	65.0	61.0	61.0	62.1	60.8	61.5	64.0	64.8	63.2
22	0	61.2	60.1	65.6	65.0	60.4	61.0	62.0	60.8	61.4	63.4	64.5	62.7
27	0	60.7	60.3	65.1	64.1	60.5	60.7	62.3	60.8	61.6	63.4	64.2	61.9
32	0	60.0	60.0	64.8	63.5	61.0	60.7	62.5	60.8	62.0	63.2	64.2	61.2
37	0	59.9	60.0	64.3	63.0	61.0	60.6	62.4	60.9	62.0	62.8	64.3	61.0
42	0	59.8	60.2	64.1	62.5	61.0	60.8	62.4	60.6	62.1	62.2	64.5	61.4
47	0	59.4	61.0	64.1	62.0	61.1	61.3	62.0	60.7	62.5	62.0	65.0	61.2
52	0	59.4	62.0	64.2	61.7	60.9	61.4	61.5	60.9	63.0	62.4	65.1	61.0
57	0	59.8	62.9	64.0	61.6	61.0	61.5	61.4	61.1	63.4	62.8	65.0	61.8

Thermometer		54.3	54.2	54.1	54.0	53.9	53.7	53.6	53.5	53.5	53.2	53.0	53.0

		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
M.	S.												
3	0	84.1	72.8	69.4	71.1	74.3	73.2	71.2	70.8	73.0	71.6	74.0	72.6
8	0	82.7	72.8	67.7	71.1	74.3	72.4	71.4	71.0	73.0	70.9	73.3	72.6
13	0	79.6	73.1	67.5	71.1	74.3	72.4	71.4	71.6	71.8	70.9	73.3	73.8
18	0	76.6	73.1	67.5	71.7	73.8	72.0	71.9	71.6	71.8	71.6	72.1	74.2
23	0	74.1	73.1	68.3	72.1	73.4	72.0	72.2	72.1	71.0	71.6	72.1	75.4
28	0	72.3	73.1	68.8	72.1	73.4	72.0	72.4	72.4	71.0	72.2	72.7	76.6
33	0	72.3	73.1	69.3	72.7	73.0	71.8	72.1	72.6	71.0	72.2	72.7	77.6
38	0	72.3	73.3	70.0	73.2	73.0	71.8	71.4	72.6	71.0	72.2	73.1	77.2
43	0	72.5	73.3	70.5	73.9	73.4	71.8	71.1	73.0	71.0	73.4	73.1	77.7
48	0	72.8	73.0	70.5	74.3	73.9	71.8	71.1	73.0	71.0	73.4	73.1	77.7
53	0	72.8	72.0	70.5	74.3	74.0	71.8	71.0	73.0	71.6	73.4	72.6	77.7
58	0	72.8	70.5	70.8	74.3	73.8	71.2	70.7	73.0	71.6	73.4	72.6	77.7

Thermometer		54.6	54.6	54.6	54.5	54.4	54.3	54.2	54.2	54.1	53.8	53.6	53.6

Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32 ^o .	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
29	10	0	30.300	49.6	45.9	S. by E.	1.7	0.1	Cum. S.			
	11	0	30.302	49.1	45.4	S. by E.	1.3	0.0	Clear.			
	12	0	30.296	49.7	44.9	S. by E.	1.3	0.0	A few cum. S. W.			
	13	0	30.288	49.8	45.0	S. S. E.	1.3	0.0	A few cum. S. W.			
	14	0	30.292	50.0	44.9	S. S. E.	2.2	0.0	A few cum. S. W.			
	15	0	30.294	49.9	45.4	S. by W.	2.2	0.0	A few cum. S. W.			
	16	0	30.288	50.1	45.4	S.	2.6	0.0	A few cum. S. W.			
	17	0	30.304	50.8	45.4	S. S. E.	2.6	0.2	Cum. and cir.-strat. round horizon.			
	18	0	30.320	50.2	45.9	S. E.	5.2	0.3	Cum. and cir.-strat. round horizon.			
	19	0	30.340	51.4	46.2	S. E. by S.	5.2	0.2	.1 cum. round hor. ; .1 cir.-strat. N.			
	20	0	30.350	52.7	46.8	S. E.	6.4	0.2	.1 cum. S. E. and W. hors. passing from S. to N. ; .1 cir. and			
	21	0	30.350	54.3	49.4	S. E.	6.9	0.3	Cum. and cir.-strat. [cir. strat. N., passing from N. W. to S. E.]			

MAGNETICAL OBSERVATIONS.													August 29th and 30th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'. 751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	47.2	46.8	46.3	45.2	47.6	49.3	49.6	49.5	49.9	48.0	49.7	49.2	
5	0	47.2	46.9	46.2	45.5	47.7	49.4	49.7	49.4	49.9	47.5	49.4	49.2	
10	0	47.8	46.8	46.2	45.9	47.9	49.7	49.8	49.3	50.1	47.6	49.2	49.3	
15	0	47.3	46.6	46.1	46.2	48.1	49.7	49.9	49.3	50.2	47.8	49.1	49.0	
20	0	47.4	46.3	45.8	46.3	48.5	49.8	49.9	49.5	50.1	47.9	49.1	48.9	
25	0	47.6	46.5	45.4	46.5	48.9	50.0	49.9	49.8	50.1	48.0	49.1	48.9	
30	0	47.5	46.8	45.1	46.7	49.3	49.7	49.8	49.8	50.2	48.2	49.1	49.2	
35	0	47.2	46.9	45.0	47.1	49.3	49.6	49.8	49.7	50.1	48.6	49.1	50.0	
40	0	46.9	46.9	45.1	47.3	49.5	49.5	49.7	49.5	50.0	48.7	49.3	50.4	
45	0	46.7	47.0	45.2	47.5	49.4	49.5	49.5	49.4	49.9	49.0	49.3	50.7	
50	0	46.5	47.0	45.3	47.5	49.4	49.4	49.4	49.5	49.0	49.3	49.2	50.2	
55	0	46.5	47.0	45.2	47.4	49.3	49.6	49.4	49.9	48.6	49.5	49.2	50.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
2	0	62.0	64.1	62.8	60.2	59.3	57.8	59.4	60.5	59.1	57.4	58.5	56.8
7	0	62.0	64.2	62.8	60.9	58.8	57.8	59.8	60.3	59.0	58.0	58.4	56.6
12	0	62.6	64.2	62.5	61.0	58.5	57.7	60.0	60.1	58.8	58.4	58.5	56.6
17	0	63.0	64.0	62.6	61.0	58.3	57.6	60.0	60.1	58.2	58.9	58.3	56.7
22	0	63.0	63.9	62.3	60.8	58.4	57.9	60.0	59.9	58.0	58.8	57.9	56.8
27	0	63.3	64.0	62.1	60.6	58.5	58.0	60.0	59.7	57.7	58.5	57.7	57.4
32	0	63.2	63.8	62.0	60.5	58.4	58.0	60.0	59.4	57.3	58.3	57.2	58.0
37	0	63.5	63.7	61.4	60.3	58.1	58.4	60.3	59.5	57.1	58.8	57.3	58.1
42	0	63.8	63.3	61.0	60.2	58.0	58.3	60.5	59.6	56.9	58.9	57.3	58.0
47	0	64.0	63.2	60.8	60.0	58.0	58.5	60.4	59.6	56.8	59.0	57.2	57.8
52	0	64.0	63.0	60.4	60.0	57.8	58.9	60.3	59.3	56.7	59.0	57.1	57.8
57	0	64.0	63.0	60.2	59.8	57.9	59.0	60.0	59.3	57.0	58.8	57.0	57.9

Thermometer	22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
	52.9	53.0	53.6	53.7	54.2	54.5	54.7	55.0	55.5	55.6	55.6	55.6

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
3	0	77.4	74.8	74.6	76.2	73.6	73.0	72.8	72.1	72.1	76.2	72.3	74.2
8	0	77.0	74.8	74.6	75.7	74.4	73.0	72.5	72.1	72.1	76.2	72.6	74.2
13	0	77.0	74.4	74.5	75.1	74.1	72.6	72.4	72.1	72.1	75.4	72.6	74.6
18	0	77.0	74.4	74.5	74.4	74.1	72.6	72.4	72.1	72.4	74.9	72.6	75.0
23	0	76.3	74.4	75.0	74.4	74.1	72.6	72.4	72.1	72.8	74.4	73.3	75.0
28	0	75.9	73.9	75.0	74.1	73.5	73.0	72.4	72.1	72.8	74.0	73.3	74.3
33	0	75.9	73.9	75.0	73.6	72.9	73.0	72.6	72.1	72.8	73.7	73.9	73.1
38	0	75.9	73.9	75.8	73.6	72.9	73.5	72.6	72.1	73.9	73.5	73.9	72.1
43	0	75.9	73.9	75.8	73.6	72.9	73.0	72.2	72.1	73.9	72.9	73.9	71.6
48	0	75.9	73.4	75.8	73.6	72.6	73.4	72.4	72.1	74.7	72.6	73.9	71.6
53	0	75.9	73.4	75.8	73.6	73.0	73.4	72.4	72.1	75.5	72.3	74.2	71.9
58	0	75.0	74.1	76.1	73.6	73.0	72.8	72.4	72.1	76.0	72.3	74.2	71.9

Thermometer	22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
	53.8	53.9	53.9	54.2	54.4	54.8	55.1	55.4	55.7	55.8	55.8	55.8

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
29	22	0	30.344	56.0	48.9	S. E.	6.9	0.5	Cum., cir., and cir.-strat.			
	23	0	30.322	56.8	49.4	S. E. by S.	5.8	0.7	.1 cum. round horizon; .6 cir. and cir.-strat. passing from N. W.			
30	0	0	30.314	57.5	50.0	S. E.	5.8	0.8	Cum., cir., and cir.-strat. passing from N. W. to S. E. [to S. E.]			
	1	0	30.288	58.2	50.7	S. E.	6.9	0.6	Cum., cir., and cir.-strat. passing from N. W. to S. E.			
	2	0	30.261	59.0	50.4	S. E.	6.9	0.6	.1 dense cum. E. and S. hors.; .5 cir. and cir.-strat. scattered.			
	3	0	30.250	58.4	51.6	S. S. E.	5.8	0.4	.1 dense cum. E. and S. horizons; .3 cir.			
	4	0	30.247	56.8	51.2	S. E.	7.4	0.1	Cum. S. and E. horizons.			
	5	0	30.241	54.5	50.2	S. S. E.	4.2	0.1	Cum. S. and E. horizons.			
	6	0	30.250	53.8	49.3	S. by E.	1.3	0.0	A few cum. S. W.			
	7	0	30.252	53.6	49.5	S. by E.	1.7	0.0	Clear.			
	8	0	30.262	53.7	49.2	S.	3.1	0.0	Clear; zodiacal light. W.			
	9	0	30.248	53.7	48.9	S.	3.1	0.0	Clear.			

September 24th and 25th.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.						DECLINATION.					
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	54.1	53.0	52.2	51.2	51.0	50.0	51.9	52.9	54.0	55.3	50.3	51.2
5	0	54.1	53.1	52.5	51.0	50.8	50.2	51.9	53.0	54.5	55.6	50.1	51.3
10	0	54.1	53.0	52.5	51.0	50.2	51.1	51.8	53.5	55.6	55.8	50.7	51.3
15	0	54.1	52.9	52.5	50.9	50.1	51.7	51.7	53.8	56.4	55.4	50.8	51.3
20	0	54.1	52.8	52.2	51.0	50.0	51.2	51.1	54.1	57.2	54.7	50.9	51.3
25	0	54.0	52.8	52.0	51.0	49.7	51.1	50.9	54.7	57.3	54.0	51.2	51.4
30	0	54.0	52.8	52.7	51.0	49.3	51.2	51.0	54.5	56.9	54.0	51.4	51.8
35	0	54.0	52.8	51.2	51.0	49.2	51.3	51.0	54.4	56.5	53.3	51.5	52.0
40	0	53.1	52.2	51.0	50.7	49.1	51.3	51.1	54.5	56.1	52.7	51.5	52.0
45	0	52.9	52.2	50.9	50.8	49.0	51.1	51.3	54.2	55.5	52.1	51.3	52.0
50	0	52.9	52.2	51.0	51.0	49.1	51.0	51.7	54.0	55.3	51.6	51.3	52.0
55	0	52.9	52.2	51.1	51.0	49.5	51.5	52.0	53.9	55.3	50.4	51.3	52.2

M. S.		One Scale Division = .00022 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 .	21 ^h .
2	0	64.4	62.6	62.3	62.0	62.1	58.8	61.5	62.3	58.5	58.6	57.3	56.2
7	0	64.4	62.8	62.1	62.0	61.9	59.0	61.1	62.2	58.2	58.3	57.2	56.5
12	0	64.6	62.7	61.9	62.0	61.8	59.8	61.1	61.8	58.2	58.5	57.0	56.4
17	0	64.8	62.3	61.6	62.4	61.9	59.9	61.1	61.8	58.8	58.4	56.8	56.3
22	0	65.2	62.2	61.8	62.5	61.8	59.7	61.2	61.8	59.2	58.3	56.9	56.4
27	0	65.0	62.7	62.0	62.5	61.0	60.0	61.1	61.5	59.5	58.0	56.6	56.0
32	0	65.3	63.0	62.0	62.5	61.0	60.1	61.0	61.2	59.7	57.8	56.4	56.3
37	0	64.9	62.5	62.0	62.8	61.0	60.4	61.1	60.9	59.8	57.9	56.1	56.5
42	0	62.6	62.0	61.8	62.0	58.9	60.4	61.3	60.1	59.5	57.9	56.0	56.7
47	0	61.9	62.1	61.8	61.8	58.1	60.3	61.8	59.6	59.3	57.5	56.0	57.0
52	0	62.1	61.8	61.6	62.0	58.5	60.6	61.9	59.0	59.0	57.3	56.0	57.1
57	0	62.2	62.0	61.9	62.0	58.9	61.3	62.1	58.7	58.8	57.9	55.9	57.3

Thermometer		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
		58.7	58.7	59.0	59.2	59.2	59.6	59.6	59.5	59.2	59.1	59.0	59.0

M. S.		One Scale Division = .00014 parts 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 .	21 ^h .
3	0	67.5	70.2	70.0	71.1	70.7	73.3	68.5	66.4	68.8	70.0	73.9	72.3
8	0	67.9	70.2	70.0	71.1	70.7	72.6	68.5	66.4	68.2	70.0	73.4	71.6
13	0	67.9	70.2	70.0	71.1	71.4	71.3	68.5	66.4	68.2	70.0	73.4	71.1
18	0	67.9	70.2	70.6	70.7	71.9	70.5	68.5	66.5	67.2	70.1	73.4	70.4
23	0	67.2	70.2	70.9	70.7	71.9	71.1	69.0	65.4	67.2	71.8	72.6	70.4
28	0	67.2	70.2	71.3	70.7	72.6	70.6	69.0	65.4	67.2	71.8	72.0	69.9
33	0	67.2	69.7	71.3	70.7	72.6	70.6	69.0	66.2	67.2	71.6	72.3	69.5
38	0	67.2	70.0	71.7	70.7	73.3	69.9	68.9	66.2	67.8	72.3	72.3	69.0
43	0	69.0	70.3	71.7	70.7	73.8	69.9	68.6	67.0	68.2	72.3	72.3	67.7
48	0	70.3	70.3	71.7	70.7	74.1	69.9	68.3	68.0	69.0	72.8	72.3	67.9
53	0	70.3	70.8	71.7	70.7	74.1	69.9	67.5	68.3	69.5	74.5	72.3	67.4
58	0	70.6	70.8	71.7	70.7	73.8	69.2	66.8	68.9	69.5	73.9	72.3	67.2

Thermometer		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^h .
		58.8	58.9	59.1	59.1	59.1	59.5	59.5	59.6	59.4	59.3	59.2	59.4

Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
24	10	0	30.208	57.0	53.8	S.	0.8	0.3	Cir.-strat. round horizon.				
	11	0	30.200	57.1	53.8	S.	0.8	0.7	Cir. and cir.-strat. in lines from W. to E.				
	12	0	30.189	57.6	53.9	S. by W.	1.3	0.6	Cir. and cir.-strat. ; dull starlight.				
	13	0	30.165	57.1	54.5	S. by W.	1.3	0.5	Cir. and cir.-strat. ; dull starlight.				
	14	0	30.149	56.9	54.2	S.	1.3	0.3	Cir. round horizon.				
	15	0	30.122	57.3	53.3	S.	1.3	0.3	Cir. and a few cum. round horizon ; large solar halo.				
	16	0	30.116	56.4	53.1	S. by W.	1.3	0.4	Cir. and cir.-cum.				
	17	0	30.122	57.0	53.2	S.	1.3	0.7	Cir.-strat. and cir.-cum.				
	18	0	30.134	58.0	53.8	S. by W.	1.3	0.8	Cir., cir.-strat., and cir.-cum.				
	19	0	30.130	60.1	54.9	S.	1.3	1.0	Cir., cir.-strat., and cir.-cum.				
	20	0	30.130	61.1	55.9	S. by W.	1.6	0.6	Light cir. and cir.-strat.				
	21	0	30.130	62.8	56.6	S. by W.	1.7	0.9	Cir. and cir.-strat.				

MAGNETICAL OBSERVATIONS.													September 24th and 25th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	51.9	52.0	51.9	53.4	55.2	52.2	51.6	51.9	48.8	50.2	50.7	50.3	
5	0	51.7	52.0	51.9	53.2	55.9	52.0	51.5	51.9	47.4	50.3	50.8	50.3	
10	0	52.0	51.7	52.2	53.2	56.1	51.9	51.3	51.9	47.1	50.4	50.6	50.2	
15	0	52.0	51.6	52.1	53.2	56.2	51.7	51.7	51.9	47.9	50.8	50.7	50.2	
20	0	51.9	51.5	52.2	53.2	55.7	51.8	51.7	52.0	47.8	50.9	50.7	50.1	
25	0	51.7	51.3	52.8	53.6	54.3	51.6	51.8	52.2	47.4	50.9	50.6	50.2	
30	0	51.9	51.3	53.0	53.2	54.2	51.8	51.8	52.0	47.8	50.7	50.5	50.2	
35	0	52.0	51.4	54.0	53.1	54.0	52.2	51.6	51.1	48.0	50.6	50.7	50.0	
40	0	52.1	51.6	54.4	53.5	53.6	52.5	51.2	50.7	48.9	50.7	50.8	50.0	
45	0	52.1	51.5	55.7	53.2	53.2	52.5	51.2	50.8	49.7	50.5	50.8	50.0	
50	0	52.0	51.6	56.0	53.3	52.9	52.2	51.2	50.1	50.1	50.9	50.5	49.5	
55	0	52.0	51.7	55.0	53.2	52.6	51.9	51.2	49.3	50.2	50.8	50.6	49.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00022.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	0	57.3	56.0	56.0	52.1	43.0	48.7	50.0	50.2	39.8	47.8	50.9	50.9	
7	0	57.1	56.0	56.3	50.1	43.0	49.5	50.5	49.8	39.8	48.2	51.1	51.1	
12	0	57.1	55.7	56.1	48.7	42.7	49.8	51.0	48.6	40.9	48.8	51.0	51.6	
17	0	57.2	55.4	55.9	47.2	42.9	49.8	51.7	46.9	41.9	49.0	50.9	51.5	
22	0	57.0	55.4	55.7	45.4	42.8	49.4	51.9	46.0	42.9	49.1	51.0	51.3	
27	0	57.0	55.3	55.8	45.0	43.7	49.0	52.0	45.3	42.9	49.3	51.0	51.3	
32	0	57.0	55.5	55.4	43.8	44.2	49.1	52.0	45.0	43.9	49.5	50.9	51.3	
37	0	57.0	55.4	56.1	43.1	45.2	49.2	52.2	44.6	45.0	49.9	51.0	51.3	
42	0	56.6	55.9	56.0	42.6	46.0	49.5	52.2	44.0	45.3	50.1	51.7	51.4	
47	0	56.2	55.5	56.9	42.0	46.3	49.8	52.2	43.5	45.9	50.2	51.9	51.8	
52	0	56.0	55.7	55.4	42.5	47.5	49.8	52.0	42.8	46.4	50.9	51.7	52.2	
57	0	55.7	55.7	54.0	43.0	48.3	49.8	51.1	40.9	46.9	51.0	51.2	52.6	

Thermometer		59.2	59.6	60.0	60.4	60.8	61.4	61.7	61.8	62.5	62.6	62.6	62.6
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
3	0	66.8	65.8	65.9	68.4	76.5	74.3	71.1	69.7	81.1	70.1	66.2	66.6	
8	0	66.8	65.7	65.6	70.0	76.5	73.1	71.1	70.4	82.1	68.9	66.0	67.0	
13	0	66.8	65.7	65.3	71.1	76.2	72.7	70.2	71.1	81.4	68.5	66.0	67.5	
18	0	66.3	66.3	65.3	72.7	76.2	72.4	69.9	71.9	80.3	68.2	66.0	67.1	
23	0	66.3	66.5	65.3	74.3	77.0	72.4	69.5	72.4	79.6	67.8	66.0	67.6	
28	0	65.8	66.5	65.3	75.3	77.4	72.4	68.9	73.1	78.5	67.8	66.0	67.6	
33	0	65.7	66.5	65.3	77.1	77.4	72.4	68.8	74.2	77.3	67.8	66.3	67.3	
38	0	65.2	66.5	64.1	77.1	76.6	71.6	68.5	75.5	75.7	67.1	66.3	67.7	
43	0	65.2	66.2	64.0	78.1	76.0	71.1	68.8	75.9	74.3	67.1	66.1	67.7	
48	0	65.5	66.2	62.3	78.9	76.0	71.1	68.8	75.9	72.2	67.1	66.1	67.7	
53	0	65.4	66.1	64.0	78.5	75.1	71.1	69.2	77.6	71.2	66.6	66.1	68.0	
58	0	65.8	65.9	66.0	77.3	74.6	71.1	69.2	78.9	70.8	66.2	66.1	68.2	

Thermometer		59.5	59.9	60.2	60.6	60.9	61.1	61.6	61.8	62.1	62.3	62.3	62.3
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
24	22	0	30.110	64.3	57.5	S. by W.	1.6	0.9	Cir., cir.-strat., and haze.
	23	0	30.095	66.1	58.7	S.	1.3	0.5	Cir. and cir.-strat.
25	0	0	30.072	67.4	58.2	S. S. W.	0.8	0.2	Cir. and cir.-strat. round horizon.
	1	0	30.054	68.2	59.6	S.	1.3	0.2	Cir. and cir.-strat. N. W. cum. E. horizons.
	2	0	30.055	66.0	60.2	S.	2.2	0.4	Cir. and cir.-strat.
	3	0	30.045	63.9	58.7	S. S. W.	2.2	0.6	Thin cir. and cir.-strat. in lines from N. W. to S. E.
	4	0	30.049	63.2	57.8	S. by W.	2.2	0.9	Thin cir. and cir.-strat. in lines from N. W. to S. E.
	5	0	30.052	63.1	57.1	S. by W.	3.1	0.9	Thin cir. and cir.-strat.
	6	0	30.052	62.1	56.3	S.	1.3	0.2	Cir.-strat. round horizon.
	7	0	30.052	61.5	55.5	S.	1.7	0.1	Cir.-strat. round horizon.
	8	0	30.058	60.9	55.3	S.	3.1	0.0	Clear.
	9	0	30.041	60.3	54.9	S.	3.2	0.1	Cir.-strat. round horizon.

October 22nd and 23rd.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'·751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		51·0	49·8	49·0	48·8	49·0	48·9	49·4	48·9	47·8	44·7	43·5	45·4
5	0		51·0	49·7	49·0	48·8	49·0	49·0	49·3	48·8	47·7	44·6	43·4	45·5
10	0		51·0	49·6	49·0	48·8	49·0	49·0	49·3	48·7	47·5	44·3	43·5	45·8
15	0		50·8	49·5	49·0	48·8	49·0	49·0	49·4	48·7	47·3	44·2	43·6	45·8
20	0		50·4	49·5	49·1	48·8	49·0	49·0	49·4	48·6	47·0	44·2	43·7	45·8
25	0		50·4	49·4	49·1	48·9	48·9	49·0	49·3	48·5	46·5	44·2	44·0	45·7
30	0		50·4	49·4	48·9	49·0	48·8	49·1	49·3	48·3	46·3	44·0	44·1	45·8
35	0		50·2	49·2	48·8	49·0	48·8	49·0	49·2	48·3	46·1	44·0	44·4	45·8
40	0		50·0	49·3	48·8	49·0	48·9	49·1	49·0	48·3	45·9	44·0	44·6	46·0
45	0		50·0	49·2	48·8	49·0	49·0	49·1	49·0	48·2	45·6	43·9	44·8	46·1
50	0		50·0	49·0	48·8	49·0	48·9	49·2	49·0	48·0	45·4	43·7	45·0	46·2
55	0		50·0	49·0	48·8	49·0	48·8	49·4	48·9	48·0	45·1	43·5	45·3	46·2

		One Scale Division = ·00022 parts of the H. F.					HORIZONTAL FORCE.							
M.	s.													
2	0		54·8	55·1	54·2	54·9	54·9	55·2	55·1	55·6	56·7	57·5	57·4	57·2
7	0		54·8	55·1	54·3	55·0	55·0	55·1	55·1	55·7	56·8	57·4	57·5	57·0
12	0		54·8	55·0	54·8	55·0	55·0	55·0	55·0	55·7	57·0	57·2	57·5	57·0
17	0		54·8	55·0	55·2	55·0	55·0	55·0	55·1	55·9	57·0	57·2	57·5	57·1
22	0		54·8	55·0	55·3	54·9	55·0	55·0	55·1	56·0	57·0	57·1	57·4	57·2
27	0		54·9	55·2	55·3	54·9	55·0	55·0	55·3	56·0	57·1	57·1	57·3	57·2
32	0		55·0	55·2	55·1	54·9	55·0	55·0	55·3	56·0	57·2	57·0	57·4	57·2
37	0		55·0	55·2	55·0	54·9	55·0	55·0	55·4	56·1	57·3	57·0	57·4	57·0
42	0		55·0	55·1	54·8	55·0	55·0	55·0	55·4	56·2	57·3	57·0	57·4	57·0
47	0		55·0	54·8	55·0	55·0	55·0	55·0	55·3	56·3	57·3	57·0	57·4	56·8
52	0		54·8	54·5	55·0	54·9	55·0	55·0	55·4	56·4	57·4	57·2	57·4	56·5
57	0		55·0	54·4	55·0	54·9	55·0	55·0	55·5	56·5	57·5	57·3	57·2	56·3

Thermometer		62·8	62·8	63·0	63·1	63·1	63·0	62·7	62·7	62·3	62·2	62·2	62·3

		One Scale Division = ·00014 parts of the V. F.					VERTICAL FORCE.							
M.	s.													
3	0		60·6	60·1	61·0	61·0	60·9	60·6	60·1	61·1	63·2	64·0	61·3	56·9
8	0		60·6	60·1	61·0	61·0	60·9	60·6	60·1	62·4	63·2	64·0	60·9	56·4
13	0		60·6	60·1	61·0	61·0	60·9	60·6	60·3	62·4	63·2	64·0	60·5	56·0
18	0		60·6	60·1	61·0	61·0	60·9	60·6	59·9	62·4	63·2	64·0	60·5	56·0
23	0		60·6	60·1	61·0	61·0	60·8	60·6	59·9	62·0	63·2	63·4	59·8	55·5
28	0		60·1	60·1	61·0	61·0	60·8	60·6	59·9	62·0	62·6	63·4	59·5	55·5
33	0		60·1	60·1	60·4	61·0	60·8	60·6	59·9	62·6	62·6	62·5	58·9	55·5
38	0		60·1	60·1	60·4	61·0	60·6	60·6	59·9	62·6	62·6	62·5	58·4	55·5
43	0		60·1	60·1	61·0	61·0	60·6	60·6	59·9	62·6	62·6	61·9	58·0	55·5
48	0		60·1	60·8	61·0	61·0	60·6	60·6	60·7	62·6	64·2	61·9	58·0	55·5
53	0		60·1	60·8	61·0	60·9	60·6	60·1	60·7	62·6	64·2	61·3	57·4	55·5
58	0		60·1	61·0	61·0	60·9	60·6	60·1	60·7	63·2	64·2	61·3	57·4	55·5

Thermometer		62·8	63·0	63·1	63·2	63·2	63·0	62·4	62·8	62·4	62·3	62·4	62·5

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
22	10	0	30·086	58·0	54·5	S. by W.	0·8	0·0	Clear.
	11	0	30·072	58·0	54·4	S. by W.	0·8	0·0	Clear.
	12	0	30·061	57·4	53·9	S. by W.	0·5	0·0	Clear.
	13	0	30·045	56·5	52·9	S. S. W.	Light Air.	0·0	Clear.
	14	0	30·045	55·6	51·4	S. S. W.	Light Air.	0·0	Clear.
	15	0	30·052	54·6	50·2	S. W. by S.	Light Air.	0·8	Cum. and cum.-strat.
	16	0	30·054	54·0	50·2	S. W. by S.	Light Air.	0·7	Cum. and cum.-strat.
	17	0	30·062	54·4	51·2	S. E. by S.	Light Air.	0·7	Cum. and cum.-strat.
	18	0	30·062	58·4	53·8	E.	Light Air.	0·4	Cum. scattered.
	19	0	30·060	60·4	54·1	N. N. W.	Light Air.	0·5	Detached cum.
	20	0	30·054	61·0	53·4	W. N. W.	1·3	0·5	Detached cum.
	21	0	30·053	61·9	53·9	W.	1·3	0·8	Detached cum.; dense to N. W.

MAGNETICAL OBSERVATIONS. October 22nd and 23rd.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	46.7	48.6	50.2	52.1	52.9	52.2	51.5	50.2	49.8	50.0	50.3	50.2
5	0	46.9	48.7	50.3	52.2	52.9	52.2	51.3	50.1	49.8	50.1	50.3	50.3
10	0	46.9	48.8	50.6	52.2	52.9	52.1	51.2	50.0	49.8	50.2	50.3	50.2
15	0	47.2	48.9	50.7	52.2	52.8	52.2	51.0	50.0	49.9	50.2	50.3	50.2
20	0	47.3	49.0	50.9	52.3	52.7	52.1	51.0	50.0	50.0	50.2	50.3	50.2
25	0	47.7	49.2	51.2	52.7	52.6	51.9	51.0	50.0	50.0	50.2	50.3	50.2
30	0	47.9	49.3	51.3	52.8	52.7	51.9	50.9	49.9	50.0	50.3	50.3	50.2
35	0	48.2	49.8	51.6	52.7	52.6	51.9	50.9	49.8	50.0	50.3	50.2	50.1
40	0	48.2	49.8	51.9	52.8	52.5	51.7	50.8	49.8	50.0	50.3	50.2	50.1
45	0	48.4	49.9	51.9	52.7	52.4	51.7	50.6	49.8	50.0	50.3	50.2	50.1
50	0	48.4	50.2	51.5	52.7	52.3	51.8	50.4	49.8	50.0	50.4	50.2	50.1
55	0	48.8	50.2	51.9	52.7	52.2	51.6	50.2	49.8	50.0	50.3	50.2	50.0

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.											
2	0	56.2	55.2	55.1	55.7	55.4	55.7	55.5	55.5	55.0	54.4	54.4	54.7
7	0	56.2	55.0	55.1	55.9	55.4	55.6	55.5	55.5	55.0	54.4	54.4	54.7
12	0	56.2	54.9	55.2	55.8	55.6	55.7	55.3	55.5	55.0	54.4	54.4	54.6
17	0	56.2	54.9	55.3	55.7	55.5	55.7	55.4	54.8	54.9	54.4	54.4	54.6
22	0	56.2	54.9	55.6	55.8	55.3	55.5	55.3	54.8	54.8	54.4	54.4	54.6
27	0	56.1	55.0	55.8	55.9	55.4	55.5	55.1	54.7	54.8	54.4	54.5	54.6
32	0	56.1	55.0	56.0	55.8	55.7	55.5	55.2	54.5	54.6	54.3	54.4	54.7
37	0	56.0	55.0	56.0	55.8	55.5	55.7	55.2	54.4	54.6	54.3	54.5	54.6
42	0	56.0	54.9	55.8	55.3	55.7	55.4	55.4	54.3	54.5	54.3	54.5	54.7
47	0	55.8	55.1	55.1	55.3	55.7	55.5	55.5	54.3	54.5	54.4	54.6	54.7
52	0	55.8	55.3	55.1	55.3	55.6	55.5	55.5	55.2	54.5	54.4	54.6	54.7
57	0	55.3	55.1	55.3	55.3	55.7	55.3	55.5	55.1	54.5	54.5	54.6	54.8

Thermometer	62.6	62.7	63.3	63.3	63.6	63.7	63.7	63.8	63.9	63.9	63.9	63.9
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.											
3	0	55.8	55.6	54.9	54.2	55.6	59.0	61.5	62.3	61.6	61.2	60.6	60.3
8	0	55.8	55.6	54.9	54.2	56.1	59.6	61.8	61.7	61.6	61.2	60.6	60.3
13	0	55.8	55.6	54.9	54.2	56.1	59.8	62.3	61.7	61.6	61.2	60.6	60.3
18	0	55.8	55.6	54.9	54.2	56.0	59.8	62.3	61.7	61.6	61.2	60.6	60.3
23	0	55.8	55.6	54.2	54.2	57.0	60.3	62.3	62.4	61.6	61.2	60.6	60.3
28	0	55.8	55.6	53.8	54.2	57.4	60.3	62.3	62.4	61.6	60.6	60.6	60.3
33	0	55.8	55.6	53.8	54.2	57.4	60.7	62.3	62.4	61.2	60.6	60.6	60.3
38	0	55.3	55.6	53.4	54.5	58.0	60.7	62.3	62.4	61.2	60.6	60.6	60.3
43	0	55.3	55.6	53.4	54.5	58.0	61.5	62.3	62.4	61.2	60.6	60.6	60.3
48	0	55.3	55.6	53.8	55.4	58.6	61.5	62.3	62.0	61.2	60.6	60.6	60.3
53	0	55.3	54.9	54.2	55.4	58.6	61.5	62.3	62.0	61.2	60.6	60.3	60.3
58	0	55.3	54.9	54.2	55.4	59.0	61.5	62.3	62.0	61.2	60.6	60.3	60.3

Thermometer	62.7	62.9	63.2	63.2	63.5	63.6	63.7	63.8	63.8	63.9	63.8	63.8
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
22	22	0	30.036	62.0	53.5	W. N. W.	2.6	0.7	Detached cum.; dense to N. W.
	23	0	30.025	61.6	53.6	N. W.	1.7	0.8	Detached cum.; dense to N. W.
23	0	0	30.014	61.2	54.2	N. N. W.	1.7	0.8	Dense cum.
	1	0	30.010	61.9	55.4	N.	0.8	0.9	Dense cum.
	2	0	29.985	62.3	56.0	N. by W.	1.3	0.9	Cum. and cum.-strat.
	3	0	29.973	61.6	56.2	N.	1.3	0.9	Cum. and cum.-strat.
	4	0	29.975	60.5	55.5	N. N. W.	0.8	1.0	Dense cum.-strat.
	5	0	29.985	59.3	54.0	W. by N.	Light Air.	0.9	Dense cum.-strat.
	6	0	29.986	59.5	53.8	W.	1.3	0.7	Cum. and cum.-strat.
	7	0	29.993	59.3	53.0	W. by N.	0.8	0.4	Cum. in masses round horizon.
	8	0	29.999	58.3	53.7	W. by S.	2.6	1.0	Dense cum.-strat. and nim.; squally.
	9	0	29.991	58.3	52.4	W. by S.	1.7	1.0	Dense cum.-strat. and nim.; squally, with showers.

November 28th and 29th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		50.5	49.9	49.4	49.0	49.0	48.5	46.2	44.2	40.3	39.2	38.1	39.8
5	0		50.4	49.7	49.4	49.4	49.0	48.8	46.1	44.0	40.2	38.9	38.2	40.2
10	0		50.5	49.6	49.3	49.3	49.0	48.3	46.0	43.8	40.3	38.8	38.2	40.5
15	0		50.4	49.6	49.1	49.2	48.9	48.0	46.0	43.6	40.1	38.5	38.2	40.5
20	0		50.3	49.7	49.2	49.3	48.9	48.0	46.1	42.2	40.1	38.5	38.2	40.8
25	0		50.1	49.5	49.4	49.3	48.8	47.5	46.0	42.6	40.0	38.6	38.4	41.0
30	0		50.0	49.7	49.3	49.3	48.8	47.4	46.0	42.5	39.9	38.8	38.1	41.2
35	0		50.0	49.5	49.0	49.1	48.5	47.2	46.0	41.9	40.1	38.3	38.2	41.4
40	0		49.9	49.4	49.3	48.9	48.7	47.0	45.8	41.6	40.2	38.5	38.7	41.6
45	0		50.0	49.5	49.3	48.9	48.9	46.8	45.4	41.2	39.9	38.2	39.0	41.8
50	0		50.0	49.5	49.0	48.7	48.5	46.7	45.0	41.1	39.8	38.2	38.2	42.0
55	0		50.0	49.5	49.1	48.7	48.4	46.3	44.6	40.9	39.8	38.2	39.2	42.6
M. s.			One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
			51.2	51.7	52.6	52.3	52.9	54.2	53.4	55.7	56.7	56.3	55.9	54.2
2	0		51.3	51.5	52.7	52.6	52.7	54.0	53.3	55.8	56.8	56.8	55.6	54.0
7	0		51.5	51.5	52.6	52.5	52.6	53.6	53.5	55.7	56.7	56.8	55.3	53.8
12	0		51.5	51.7	52.0	52.5	52.8	53.5	53.8	56.0	56.6	56.6	55.2	53.2
17	0		51.7	52.0	52.0	52.7	52.8	53.2	54.0	56.1	56.8	56.5	55.1	53.0
22	0		51.7	52.0	52.5	52.6	52.8	53.2	54.2	56.1	57.0	56.2	55.6	53.2
27	0		51.7	52.3	52.6	52.5	52.8	53.2	54.2	56.2	56.8	56.1	55.7	52.6
32	0		51.7	52.3	52.5	52.2	53.2	53.2	54.3	56.9	56.7	56.0	55.7	52.3
37	0		51.6	52.3	52.5	52.3	53.4	53.2	54.6	56.8	56.5	56.0	55.4	52.2
42	0		51.6	52.4	52.6	52.3	53.7	53.2	54.8	56.3	56.5	56.0	55.1	52.1
47	0		51.7	52.5	52.7	52.5	54.0	53.3	55.0	56.6	56.3	56.0	54.9	52.0
52	0		51.7	52.7	52.3	52.7	54.2	53.5	55.4	56.7	56.3	56.2	54.6	52.0
57	0													
Thermometer			67.7	67.6	67.7	67.7	67.4	67.2	66.9	66.7	66.1	66.0	66.0	66.0
M. s.			One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
			96.7	96.2	95.7	96.5	96.8	96.4	98.6	99.8	101.6	101.8	99.3	96.3
3	0		96.7	96.2	95.7	96.5	96.8	96.4	99.1	99.8	101.6	101.8	99.3	96.3
8	0		96.7	96.5	96.1	96.3	97.1	97.5	99.1	99.8	101.6	101.8	99.3	95.8
13	0		96.2	96.5	96.4	96.3	97.1	97.5	99.1	100.1	101.6	101.3	99.3	95.8
18	0		96.2	96.5	96.4	96.3	97.1	97.5	98.8	100.3	101.6	101.3	99.3	96.3
23	0		95.9	96.5	96.4	96.6	97.1	97.5	98.8	100.3	101.0	101.3	98.9	96.3
28	0		95.9	96.0	96.4	96.4	97.6	98.2	98.8	100.3	101.0	101.3	97.9	96.3
33	0		95.9	96.0	96.4	97.1	97.6	98.2	98.8	100.7	101.0	100.4	97.9	96.3
38	0		96.2	96.0	96.4	97.1	97.6	98.2	99.2	100.7	100.3	100.4	97.2	96.3
43	0		96.2	96.0	96.2	97.1	97.0	98.2	99.8	100.7	101.5	100.4	97.0	95.8
48	0		96.2	96.0	96.2	97.3	97.0	98.6	99.8	101.2	101.2	100.4	97.0	95.8
53	0		96.2	95.7	96.5	96.8	97.0	98.6	99.8	101.2	101.9	99.3	97.0	94.8
58	0													
Thermometer			67.3	67.4	67.4	67.4	67.3	67.0	66.8	66.6	66.4	66.3	66.3	66.3

Increasing Numbers denote decreasing W. sterly Declination

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
28	10	0	29.836	61.8	57.1	Calm.	Calm.	0.3	Cir. and cir.-strat. round horizon.			
	11	0	29.820	61.2	57.0	Calm.	Calm.	0.1	Cir.-strat. S.			
	12	0	29.822	59.2	55.8	Calm.	Calm.	0.0	A few cir. and cir.-strat. scattered.			
	13	0	29.822	58.9	55.4	Calm.	Calm.	0.0	A few cum. S. and W. horizons.			
	14	0	29.826	57.4	54.5	Calm.	Calm.	0.7	Cum.; sea sounding.			
	15	0	29.842	58.1	54.7	Calm.	Calm.	0.5	Cum.; sea sounding.			
	16	0	29.870	57.2	54.3	Calm.	Calm.	0.8	Cum.; sea sounding.			
	17	0	29.882	58.4	56.6	Calm.	Calm.	0.8	Cum.; sea sounding.			
	18	0	29.887	64.2	59.2	W. by N.	0.5	0.9	Cum., cum.-strat., and cir.-cum.			
	19	0	29.903	64.0	59.0	N. by W.	0.8	0.9	Cum. and cum.-strat.			
	20	0	29.901	64.6	58.4	N. N. W.	0.8	1.0	Cum., cum.-strat., and mist.			
	21	0	29.911	64.6	58.9	N. N. W.	1.3	1.0	Cum., cum.-strat., and nim.			

MAGNETICAL OBSERVATIONS.													November 28th and 29th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	42.7	45.6	47.1	48.0	49.1	48.5	47.3	45.9	48.1	48.6	49.7	49.8	
5	0	43.0	45.8	46.9	48.0	49.2	48.2	47.2	45.6	48.1	48.7	49.8	50.0	
10	0	43.4	46.0	46.8	48.2	49.3	48.1	47.2	45.4	48.0	48.7	49.8	50.0	
15	0	43.8	46.2	46.9	48.2	49.7	47.9	47.3	45.5	48.0	49.0	50.0	50.0	
20	0	44.0	46.2	47.0	48.6	49.9	47.9	47.4	45.7	48.0	49.0	50.0	50.1	
25	0	44.4	46.2	47.0	48.8	49.9	47.8	47.2	46.0	48.0	49.1	50.0	50.1	
30	0	44.4	46.3	46.9	48.9	49.9	47.8	47.2	46.5	48.1	49.3	50.0	50.2	
35	0	44.4	46.2	47.0	49.0	49.9	47.7	47.0	46.7	48.0	49.2	50.0	50.2	
40	0	44.8	46.5	47.5	49.0	49.6	47.6	47.0	47.0	48.3	49.5	50.0	50.3	
45	0	45.0	46.5	47.5	49.0	49.2	47.3	47.0	47.4	48.5	49.5	50.0	50.2	
50	0	45.3	46.9	47.5	49.4	48.9	47.4	46.6	47.7	48.7	49.6	49.9	50.2	
55	0	45.1	47.2	47.8	49.3	48.8	47.2	46.2	48.0	48.8	49.6	49.8	50.0	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00022.	
		52.2	52.8	52.1	51.8	50.2	50.3	52.1	49.0	49.2	49.0	49.7	49.8	
2	0	52.2	52.8	52.1	51.8	50.2	50.3	52.1	49.0	49.2	49.0	49.7	49.8	
7	0	52.4	52.5	52.0	51.8	50.2	50.7	51.9	49.0	48.7	49.0	49.7	49.8	
12	0	52.4	52.6	52.0	51.3	50.2	50.9	52.0	49.1	48.5	49.0	49.7	50.0	
17	0	52.3	52.6	52.0	51.2	50.2	51.1	51.9	49.4	48.4	49.0	49.8	50.0	
22	0	52.5	52.3	52.2	51.4	50.2	51.2	51.6	49.7	48.4	48.9	49.7	50.2	
27	0	52.5	52.2	52.1	51.2	50.1	51.3	51.2	50.0	48.7	49.1	49.7	50.2	
32	0	52.4	51.8	52.1	51.2	49.9	51.7	51.0	50.1	49.0	49.0	49.6	50.4	
37	0	52.2	51.6	52.1	51.0	49.7	51.9	50.9	50.4	49.2	49.2	49.6	50.4	
42	0	52.4	51.8	52.3	50.8	50.0	51.9	50.3	50.4	49.3	49.5	49.7	50.5	
47	0	52.3	51.9	52.2	50.7	50.0	51.9	50.0	50.0	49.4	49.6	49.8	50.3	
52	0	52.5	52.0	52.0	50.8	50.1	51.7	49.2	49.7	49.3	49.7	49.7	50.1	
57	0	52.8	52.0	52.0	50.3	50.1	51.3	48.9	49.5	49.0	49.7	49.7	50.2	

Thermometer		66.3	66.4	66.7	66.7	67.3	67.6	67.9	68.3	68.4	68.7	68.7	68.7
		66.3	66.4	66.7	66.7	67.3	67.6	67.9	68.3	68.4	68.7	68.7	68.7

M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = 0.0005.	
		94.2	91.3	90.6	90.5	92.2	94.5	94.3	99.8	96.2	95.6	94.4	95.0	
3	0	94.2	91.3	90.6	90.5	92.2	94.5	94.3	99.8	96.2	95.6	94.4	95.0	
8	0	93.6	90.9	90.8	90.5	92.0	94.5	94.3	100.2	96.6	95.6	94.1	95.2	
13	0	93.6	90.9	90.8	90.5	92.0	94.8	94.3	100.2	97.1	95.6	94.3	95.2	
18	0	92.8	90.9	90.8	90.8	92.0	94.8	94.3	99.6	97.1	95.6	94.3	95.2	
23	0	92.2	90.9	90.8	90.8	92.0	94.5	95.0	99.0	97.1	95.3	94.5	95.2	
28	0	92.2	91.4	90.8	90.8	92.0	94.3	95.5	98.4	96.8	95.3	94.5	94.8	
33	0	92.2	91.4	90.8	90.8	93.0	94.3	96.0	97.8	96.4	95.2	94.5	94.8	
38	0	92.2	91.4	90.8	90.8	93.0	94.3	96.7	97.2	96.1	95.2	94.5	94.8	
43	0	91.8	91.4	90.8	91.0	93.7	94.3	96.7	96.6	95.6	94.7	94.5	94.8	
48	0	91.8	91.4	90.8	91.0	94.0	94.3	97.5	96.2	95.2	94.7	94.5	94.8	
53	0	91.8	90.9	90.8	91.0	94.0	94.3	98.2	96.0	95.2	94.7	94.7	95.2	
58	0	91.3	90.6	90.8	91.8	94.0	94.3	98.8	96.2	95.2	94.7	94.7	95.2	

Thermometer		66.5	66.6	66.8	66.9	67.2	67.5	67.7	67.9	68.2	68.4	68.4	68.4
		66.5	66.6	66.8	66.9	67.2	67.5	67.7	67.9	68.2	68.4	68.4	68.4

and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
28	22	0	29.920	62.6	60.2	N. by W.	1.3	1.0	Cum., cum.-strat., and nim.; light rain.
	23	0	29.920	64.1	61.4	N. N. W.	1.3	1.0	Cum.-strat. and nim.; light rain.
29	0	0	29.908	66.1	62.1	N. W. by N.	Light Air.	1.0	Cum. and cum.-strat.
	1	0	29.907	66.6	60.2	W. N. W.	1.3	1.0	Cum.-strat.
	2	0	29.907	67.8	61.2	N. N. W.	0.3	1.0	Cum. and cum.-strat.
	3	0	29.911	69.8	61.4	N. N. W.	0.5	0.7	Dense cum.
	4	0	29.910	68.8	59.6	N.	0.5	0.7	Dense cum.
	5	0	29.931	69.4	60.0	W. S. W.	0.3	0.6	Cum. and cum.-strat.
	6	0	29.956	66.1	57.6	S. by W.	0.3	0.3	Cum. and cum.-strat. round horizon.
	7	0	29.967	62.6	56.0	S. by W.	Light Air.	1.0	Cum. and cum. strat.
	8	0	29.987	61.2	55.6	N. N. W.	Light Air.	0.2	Dense cum.; S. W. and N. W. horizons.
	9	0	29.995	62.0	54.9	Calm.	Calm.	1.0	Cum.-strat.

December 24th and 25th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		49.8	49.1	49.0	49.0	49.0	48.7	47.6	46.0	44.2	43.7	45.0	47.2
5	0		49.9	49.1	49.0	48.9	49.1	48.5	47.6	46.0	44.0	43.8	45.2	47.3
10	0		49.8	49.1	49.0	49.0	49.2	48.4	47.5	45.8	43.7	43.8	45.2	47.4
15	0		49.9	49.1	48.9	49.0	49.1	48.2	47.5	45.5	43.2	43.9	45.3	47.4
20	0		49.9	49.1	48.9	49.0	49.2	48.1	47.5	45.3	43.2	43.9	45.8	47.5
25	0		49.7	49.1	49.0	49.0	49.0	48.1	47.0	45.2	43.2	43.9	46.0	47.4
30	0		49.9	49.1	49.0	49.0	49.0	48.0	47.0	45.1	43.2	44.0	46.2	47.5
35	0		49.9	49.1	49.0	49.0	49.1	48.0	47.0	44.9	43.3	44.2	46.2	47.8
40	0		49.5	49.0	49.0	49.0	49.1	48.0	47.0	44.7	43.3	44.2	46.5	48.0
45	0		49.2	49.0	49.0	49.0	49.0	48.0	46.7	44.8	43.4	44.6	46.9	48.2
50	0		49.0	49.0	49.0	49.0	49.0	48.0	46.4	44.3	43.5	44.8	47.0	48.2
55	0		49.1	49.0	49.0	49.0	48.8	47.7	46.0	44.2	43.5	44.9	47.1	48.4

		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.							
M.	S.													
2	0		48.0	48.9	49.3	49.8	49.8	49.7	49.0	50.5	51.9	52.6	52.7	52.0
7	0		48.1	48.9	49.5	49.9	49.9	49.5	49.0	50.9	52.0	52.8	52.5	51.9
12	0		48.1	48.9	49.4	49.9	49.8	49.4	49.4	50.7	52.1	52.9	52.5	51.7
17	0		48.3	48.9	49.1	49.9	49.8	49.0	49.5	50.7	52.0	53.0	52.5	51.5
22	0		48.5	48.9	49.3	49.8	49.7	49.0	49.5	50.9	52.1	53.0	52.3	51.0
27	0		48.8	49.1	49.4	49.8	49.7	49.0	49.7	51.0	52.1	53.0	52.3	50.8
32	0		48.9	49.3	49.6	49.9	49.7	48.9	49.7	51.0	52.1	52.9	52.2	50.6
37	0		48.9	49.3	49.7	49.9	49.8	48.9	50.0	51.2	52.1	52.8	52.2	50.6
42	0		48.8	49.1	49.7	49.8	49.8	49.0	50.0	51.2	52.2	52.8	52.2	50.5
47	0		48.4	49.2	49.7	49.9	49.7	49.0	50.0	51.3	52.2	52.8	52.1	50.3
52	0		48.4	49.1	49.7	49.9	49.7	49.0	50.2	51.9	52.2	52.8	52.0	50.1
57	0		48.7	49.2	49.7	49.7	49.7	49.0	50.4	51.9	52.5	52.8	52.0	49.8

Thermometer		71.6	71.6	71.7	71.6	71.6	71.4	71.2	71.3	71.0	70.8	70.8	70.8
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		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.							
M.	S.													
3	0		86.0	84.8	84.5	84.5	84.5	86.0	87.3	87.9	88.5	86.4	85.0	84.8
8	0		86.0	84.8	84.5	84.5	84.5	86.0	87.3	87.9	88.5	86.4	85.0	84.8
13	0		85.5	84.8	84.5	84.5	84.5	86.0	87.3	87.9	88.5	86.4	85.0	84.8
18	0		85.2	84.8	84.5	84.5	84.5	86.0	87.3	88.2	88.5	85.7	84.8	84.8
23	0		85.2	84.8	84.5	84.5	84.5	86.0	87.3	88.2	88.5	85.7	84.8	84.8
28	0		84.8	84.5	84.5	84.5	84.5	86.8	87.8	88.2	88.5	85.7	84.8	84.8
33	0		84.6	84.5	84.5	84.5	84.5	86.8	87.8	88.2	88.5	85.0	84.8	84.8
38	0		84.6	84.5	84.5	84.5	84.9	86.8	87.8	88.5	88.5	85.0	84.8	84.8
43	0		84.6	84.5	84.5	84.5	84.9	86.8	87.8	88.5	87.3	85.0	84.8	84.2
48	0		84.8	84.5	84.5	84.5	84.9	86.8	87.8	88.5	87.3	85.0	84.8	83.8
53	0		84.8	84.5	84.5	84.5	84.9	86.8	87.8	88.5	87.3	85.0	84.8	83.8
58	0		84.8	84.5	84.5	84.5	85.6	87.3	88.2	88.5	86.7	85.0	84.8	83.8

Thermometer		71.0	71.5	71.5	71.6	71.5	71.3	71.2	71.3	70.9	70.8	70.9	70.9
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Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°				
24	10	0	30.040	67.5	62.5	Calm.	Calm.	0.6	Cum. dense to N. W.
	11	0	30.036	67.8	62.7	S. by E.	Light Air.	0.9	Cum. dense to N. W.
	12	0	30.030	67.4	62.8	Calm.	Calm.	1.0	Cum. and strat.
	13	0	30.030	67.3	61.7	Calm.	Calm.	1.0	Cum. and strat.
	14	0	30.030	67.0	62.6	Calm.	Calm.	1.0	Cum. and cum.-strat.
	15	0	30.035	66.2	62.4	Calm.	Calm.	1.0	Cum.-strat. and cir.-strat.
	16	0	30.041	65.4	62.2	Calm.	Calm.	1.0	Cum.-strat. and cir.-strat.
	17	0	30.054	66.2	63.0	Calm.	Calm.	1.0	Cum. and cum.-strat.
	18	0	30.068	66.9	63.6	Calm.	Calm.	1.0	Cum., cum.-strat., and mist.
	19	0	30.079	68.1	65.2	Calm.	Calm.	1.0	Cum.-strat., nim., and mist.
	20	0	30.083	68.7	66.2	Calm.	Calm.	1.0	Cum.-strat., nim., and mist.
	21	0	30.089	68.2	65.4	Calm.	Calm.	0.9	Cum. and cum.-strat.

MAGNETICAL OBSERVATIONS. December 24th and 25th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	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.
0	0	48.5	48.6	49.2	50.0	50.2	49.6	49.1	49.3	48.9	49.1	49.3	49.1
5	0	48.5	48.7	49.3	50.0	50.1	49.5	49.1	49.3	48.9	49.1	49.4	49.3
10	0	48.5	48.5	49.3	50.0	50.1	49.4	49.0	49.3	49.0	49.1	49.4	49.2
15	0	48.5	48.6	49.5	50.0	50.0	49.4	49.1	49.3	49.0	49.2	49.6	49.2
20	0	48.5	48.5	49.6	50.0	50.0	49.4	49.1	49.3	49.1	49.2	49.4	49.2
25	0	48.5	48.7	49.7	49.8	50.2	49.4	49.0	49.3	49.1	49.2	49.2	49.3
30	0	48.5	48.7	49.7	49.8	50.0	49.2	49.1	49.3	49.1	49.3	49.1	49.3
35	0	48.4	48.7	49.9	50.0	50.0	49.1	49.3	49.2	49.2	49.3	49.1	49.0
40	0	48.3	48.9	49.9	50.0	50.0	49.1	49.3	49.0	49.2	49.2	49.1	49.0
45	0	48.3	48.9	50.0	50.0	50.0	49.2	49.3	49.0	49.2	49.2	49.1	49.0
50	0	48.3	49.0	50.0	50.2	50.0	49.2	49.3	49.0	49.1	49.3	49.0	49.0
55	0	48.2	49.0	50.0	50.2	49.9	49.1	49.3	49.0	49.2	49.3	49.1	49.0

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00022.											
2	0	49.5	47.2	47.0	48.0	48.4	49.4	49.1	49.0	49.3	47.9	47.7	47.9
7	0	49.2	47.1	47.0	47.9	48.5	49.4	49.0	49.0	48.0	47.9	47.8	47.8
12	0	49.0	46.8	47.0	48.0	48.7	49.4	49.0	49.0	47.9	47.8	47.9	47.8
17	0	48.7	46.8	47.0	48.0	48.8	49.4	49.0	49.0	47.9	47.8	47.9	47.8
22	0	48.7	46.7	47.2	48.0	49.0	49.4	49.0	49.0	47.9	47.8	47.9	47.7
27	0	48.5	46.6	47.3	48.0	49.0	49.4	48.9	49.0	47.9	47.8	47.6	47.7
32	0	48.0	46.6	47.3	48.0	49.1	49.4	48.9	49.0	47.9	47.8	47.8	47.7
37	0	47.9	46.7	47.3	48.0	49.1	49.3	49.0	48.7	47.9	47.7	47.9	47.7
42	0	47.7	46.8	47.5	48.1	49.2	49.3	49.0	48.5	47.8	47.6	47.9	47.7
47	0	47.5	46.9	47.7	48.3	49.3	49.4	49.0	48.4	47.8	47.7	47.8	47.7
52	0	47.2	47.0	47.9	48.3	49.4	49.3	49.0	48.3	47.9	47.7	47.9	47.6
57	0	47.2	47.0	47.9	48.4	49.4	49.3	49.0	48.4	47.9	47.7	47.9	47.7

Thermometer	71.0	71.2	71.5	72.0	72.1	72.4	72.5	72.5	72.4	72.5	72.3	71.9
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
3	0	83.8	81.6	80.4	78.8	80.6	82.6	83.5	84.3	85.4	85.1	85.1	84.8
8	0	83.8	81.6	80.4	78.8	80.6	82.8	83.5	84.3	85.7	85.1	85.1	84.8
13	0	83.1	81.6	80.4	78.8	80.6	82.8	83.5	84.3	85.7	85.1	85.1	84.8
18	0	83.1	81.6	79.6	78.8	81.0	82.8	83.5	84.7	85.7	85.1	84.8	84.8
23	0	83.1	81.6	79.6	79.2	81.0	82.9	83.5	84.7	85.5	85.1	84.8	85.4
28	0	82.2	81.6	79.6	79.2	81.0	82.9	83.5	84.7	85.5	85.1	84.8	85.4
33	0	82.2	81.6	79.3	79.6	81.5	82.9	83.5	84.7	85.5	85.1	84.8	85.4
38	0	82.2	80.9	79.3	79.6	81.5	82.9	83.5	84.9	85.5	85.1	84.8	85.7
43	0	82.2	80.9	78.8	79.6	81.5	83.5	83.5	84.9	85.1	85.1	84.8	85.7
48	0	82.2	80.4	78.8	80.1	81.8	83.5	83.5	85.4	85.1	85.1	84.8	85.7
53	0	82.2	80.4	78.8	80.1	81.8	83.5	83.5	85.4	85.1	85.1	84.8	85.7
58	0	82.2	80.4	78.8	80.1	82.3	83.5	84.3	85.4	85.1	85.1	84.8	85.7

Thermometer	70.9	71.0	71.3	71.6	72.0	72.2	72.2	72.1	72.1	72.1	72.0	71.8
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
24	22	0	30.082	71.0	64.2	S.	0.8	0.2	Cum. scattered.
	23	0	30.069	73.2	63.6	S.	1.3	0.0	A few cum. scattered.
25	0	0	30.056	74.3	63.9	S.	1.3	0.0	A few cum on E. horizon.
	1	0	30.047	75.6	64.0	S.	1.3	0.0	Cum. on E. horizon.
	2	0	30.031	74.6	63.0	S.	3.1	0.0	A few cum. E.
	3	0	30.026	74.1	61.9	S. by W.	3.1	0.0	Hazy round horizon.
	4	0	30.020	73.1	61.8	S.	3.1	0.0	Hazy; a few cum. E.
	5	0	30.018	70.4	61.4	S.	2.2	0.0	Hazy; a few cum.-strat. S.
	6	0	30.026	67.4	60.8	S.	3.1	0.0	Hazy; a few cum.-strat. S.
	7	0	30.031	65.1	60.2	S.	3.6	0.0	A few cum. S. W.
	8	0	30.028	64.6	59.9	S.	3.6	0.0	Clear.
	9	0	30.018	64.7	59.5	S.	3.6	0.0	Clear.

January 21st and 22nd.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.					DECLINATION.						
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	50.3	49.9	50.1	50.3	50.0	50.0	51.0	50.0	48.0	46.5	46.0	45.9
5	0	50.3	50.0	50.1	50.3	50.0	50.0	50.9	49.8	48.0	46.5	46.0	46.0
10	0	50.3	50.0	50.3	50.3	50.0	50.0	50.9	49.5	48.0	46.3	46.0	46.1
15	0	50.3	50.0	50.3	50.3	50.1	50.0	50.8	49.2	47.8	46.2	46.0	46.2
20	0	50.3	50.0	50.3	50.3	50.1	50.0	50.6	49.2	47.7	46.2	46.0	46.3
25	0	50.3	50.0	50.3	50.3	50.0	50.0	50.4	49.0	47.5	46.3	46.0	46.5
30	0	50.3	50.0	50.3	50.2	50.0	50.0	50.5	48.9	47.5	46.2	46.0	46.7
35	0	50.2	50.0	50.3	50.1	50.0	50.0	50.4	48.7	47.2	46.2	45.8	46.8
40	0	50.3	50.0	50.4	50.0	50.0	50.2	50.4	48.6	47.0	46.3	45.9	47.0
45	0	50.1	50.0	50.4	50.0	50.0	50.3	50.1	48.5	46.8	46.2	45.8	47.1
50	0	50.0	50.0	50.4	50.0	50.0	50.4	50.0	48.2	46.6	46.2	45.8	47.1
55	0	50.0	50.0	50.4	50.0	50.0	50.9	50.0	48.0	46.7	46.1	45.9	47.1
		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.												
2	0	45.7	46.0	46.0	46.2	46.5	46.7	47.0	47.7	49.6	50.0	50.5	49.5
7	0	45.7	46.0	46.0	46.1	46.6	46.7	47.2	47.8	49.6	50.0	50.5	49.2
12	0	45.8	46.0	46.0	46.1	46.6	46.8	47.2	48.0	49.6	50.0	50.6	48.9
17	0	46.0	45.8	46.0	46.2	46.6	46.8	47.2	48.0	49.7	50.0	50.6	48.8
22	0	46.0	45.7	46.1	46.4	46.6	46.9	47.2	48.2	49.7	50.1	50.7	48.9
27	0	46.0	45.5	46.1	46.3	46.6	47.0	47.2	48.5	49.7	50.2	50.7	48.5
32	0	46.0	45.5	46.1	46.3	46.6	47.0	47.2	48.7	49.8	50.3	50.7	48.0
37	0	46.2	45.6	46.1	46.4	46.6	47.0	47.2	48.7	49.8	50.3	50.5	47.9
42	0	46.1	45.7	46.2	46.5	46.7	47.0	47.3	48.9	49.8	50.4	50.5	47.7
47	0	46.3	45.9	46.3	46.4	46.7	46.9	47.3	49.0	50.0	50.4	50.1	47.5
52	0	46.0	45.9	46.3	46.4	46.7	47.0	47.5	49.4	50.0	50.5	50.0	47.3
57	0	46.0	46.0	46.2	46.5	46.8	47.0	47.7	49.5	50.0	50.5	49.6	47.0
Thermometer		69.3	69.4	69.4	69.5	69.5	69.6	69.6	69.7	69.4	69.1	69.1	69.3
		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
M.	S.												
3	0	88.0	87.3	87.3	87.0	87.0	86.9	86.1	88.0	88.8	88.3	87.1	87.4
8	0	88.0	87.3	87.3	87.0	87.0	86.9	86.1	88.0	88.4	88.3	87.1	87.2
13	0	88.0	87.3	87.3	87.5	87.0	86.9	86.1	88.3	88.4	88.3	87.4	87.2
18	0	88.0	87.9	87.0	87.5	87.0	86.9	86.6	88.3	88.7	88.3	87.4	87.2
23	0	87.5	87.9	87.0	86.8	87.0	86.9	86.6	88.3	88.7	88.3	87.4	86.9
28	0	87.5	87.9	87.0	86.8	87.0	86.9	86.9	88.3	88.7	88.3	87.4	86.9
33	0	87.5	87.9	87.0	87.1	87.0	86.9	86.9	89.0	88.7	88.3	87.4	86.9
38	0	87.5	87.9	87.0	87.1	87.0	86.9	86.9	89.0	88.7	88.3	87.4	86.9
43	0	87.1	87.9	87.0	87.1	87.3	86.9	87.5	89.0	88.7	88.3	87.4	86.9
48	0	87.3	87.6	87.0	87.1	87.3	86.5	88.0	89.0	88.7	88.0	87.4	86.9
53	0	87.3	87.6	87.0	87.0	87.3	86.5	88.0	89.0	88.7	87.7	87.4	86.9
58	0	87.3	87.3	87.0	87.0	87.3	86.5	88.0	89.0	88.7	87.7	87.4	86.7
Thermometer		69.1	69.3	69.4	69.4	69.5	69.4	69.4	69.4	69.2	69.2	69.3	69.4

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
21	10	0	30.021	64.6	63.0	N. W. by N.	0.3	0.0	A few cum. round horizon.				
	11	0	30.011	64.9	63.0	N. W. by N.	0.3	0.9	Cum., cum.-strat., and cir.-strat.				
	12	0	30.005	65.0	63.1	Calm.	Calm.	1.0	Cum.-strat. and cir.-strat.				
	13	0	29.985	65.0	63.2	N. N. W.	Light Air.	1.0	Dense cum.-strat. and cir.-strat.				
	14	0	29.973	64.3	62.7	N.	0.8	1.0	Dense cum. and fog blended.				
	15	0	29.983	63.7	62.2	N.	Light Air.	1.0	Dense cum. and fog blended.				
	16	0	29.987	63.9	62.7	N.	Light Air.	1.0	Dense cum. and fog blended.				
	17	0	29.985	63.4	62.5	Calm.	Calm.	1.0	Dense fog.				
	18	0	29.999	65.2	63.9	Calm.	Calm.	1.0	Dense cum. and cum.-strat.				
	19	0	30.003	67.3	65.2	Calm.	Calm.	1.0	Cum., cum.-strat., and cir.-strat.				
	20	0	29.995	68.2	65.8	N. by W.	Light Air.	0.9	Cum. and cum.-strat.				
	21	0	29.991	69.6	66.4	N. N. W.	Light Air.	0.9	Cum. and cum.-strat.				

MAGNETICAL OBSERVATIONS.													January 21st and 22nd.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. D.	Sc. Div.	Sc. Div.	Sc. Div.	
0	0	47.1	50.2	52.8	53.7	53.8	55.6	54.5	51.9	51.0	51.2	51.8	52.4	
5	0	47.2	50.8	53.0	53.7	54.0	55.7	54.2	51.7	51.0	51.2	51.9	52.7	
10	0	47.3	50.9	53.2	53.5	54.1	55.7	54.0	51.5	50.9	51.2	52.0	52.6	
15	0	47.5	51.1	53.7	53.5	54.2	55.8	54.0	51.2	50.9	51.3	52.0	52.5	
20	0	47.8	51.4	53.8	53.6	54.2	55.7	53.7	51.2	50.9	51.5	52.1	52.5	
25	0	48.0	51.7	53.9	53.5	54.4	55.6	53.4	51.1	51.0	51.6	52.2	52.5	
30	0	48.2	51.9	54.0	53.6	54.5	55.5	53.2	51.0	51.0	51.8	52.2	52.7	
35	0	48.8	52.1	54.2	53.5	54.6	55.3	53.0	51.0	51.0	51.5	52.2	52.8	
40	0	49.0	52.2	54.1	53.5	54.9	55.2	52.8	51.0	51.2	51.5	52.2	52.9	
45	0	49.3	52.6	53.9	53.5	55.0	55.0	52.5	50.9	51.2	51.5	52.3	52.9	
50	0	49.8	52.7	53.8	53.5	55.0	54.9	52.4	50.9	51.3	51.7	52.2	52.9	
55	0	50.0	52.8	53.8	53.6	55.3	54.7	52.1	50.9	51.3	51.7	52.2	52.9	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00022.	
		2	0	47.0	45.1	44.7	45.5	46.8	47.0	47.6	47.0	45.4	44.8	45.0
7	0	46.9	45.0	44.8	45.5	46.9	47.2	47.5	46.9	45.3	44.8	45.0	45.7	
12	0	46.7	45.0	44.9	45.6	46.9	47.2	47.5	46.8	45.2	44.8	44.9	45.7	
17	0	46.5	44.9	45.0	45.6	47.0	47.3	47.5	46.7	45.2	44.8	44.8	45.4	
22	0	46.6	44.9	45.1	45.8	46.9	47.4	47.5	46.4	45.0	45.0	44.8	45.7	
27	0	46.3	44.9	45.3	45.9	46.8	47.4	47.5	46.2	45.0	45.0	44.8	45.7	
32	0	46.1	44.8	45.5	46.0	46.7	47.5	47.4	46.1	45.0	45.0	45.0	45.9	
37	0	45.9	44.9	45.6	46.1	46.7	47.5	47.4	46.0	45.0	44.9	45.0	45.9	
42	0	45.8	44.9	45.3	46.2	46.7	47.5	47.2	46.0	45.0	44.9	45.2	45.9	
47	0	45.7	44.8	45.2	46.3	46.8	47.6	47.2	45.9	44.9	44.9	45.0	46.0	
52	0	45.2	44.6	45.3	46.4	46.8	47.6	47.2	45.8	44.8	44.7	45.2	46.0	
57	0	45.1	44.6	45.5	46.6	46.9	47.6	47.0	45.7	44.8	44.7	45.2	46.1	

Thermometer		69.6	70.0	70.2	70.7	70.9	71.4	71.7	71.9	72.0	72.2	72.5	72.7
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah. = .00005.	
		3	0	86.4	82.6	81.1	81.3	80.6	80.9	84.9	87.3	87.3	85.1	84.5
8	0	86.1	82.6	81.4	81.1	80.6	81.7	85.2	87.3	86.6	85.1	84.5	83.1	
13	0	85.5	82.3	81.4	81.1	79.8	81.7	85.2	87.3	86.6	85.1	84.2	83.1	
18	0	85.1	81.9	81.4	81.1	79.8	81.7	86.3	87.3	86.6	85.1	84.2	83.1	
23	0	84.8	81.9	80.9	80.6	79.8	82.4	86.3	87.3	86.3	84.5	84.2	83.1	
28	0	83.9	81.9	80.9	80.6	79.8	82.4	86.3	87.3	86.3	84.5	84.2	83.1	
33	0	83.8	81.7	80.9	80.6	80.5	83.0	86.9	87.3	86.3	84.5	83.7	83.1	
38	0	83.4	81.7	80.9	80.6	80.5	83.5	86.9	87.3	85.8	84.5	83.7	83.1	
43	0	83.3	81.7	80.9	80.6	80.9	83.5	86.9	87.3	85.8	84.5	83.7	83.0	
48	0	83.3	81.7	80.9	80.6	80.9	83.8	86.9	87.3	85.8	84.5	83.7	83.0	
53	0	83.0	81.1	81.3	80.6	80.9	83.8	86.9	87.3	85.1	84.5	83.7	83.0	
58	0	82.8	81.1	81.3	80.6	80.9	84.5	87.3	87.3	85.1	84.5	83.7	82.8	

Thermometer		69.7	70.0	70.1	70.5	70.8	71.0	71.3	71.5	71.7	71.8	72.1	72.1
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
21	22	0	29.990	72.7	67.6	N. N. W.	Light Air.	0.6	Dense cum.			
	23	0	29.987	73.4	66.6	N.W. by W.	0.3	0.7	Dense cum.			
22	0	0	29.982	73.2	65.0	S. W.	0.3	0.4	Cum.			
	1	0	29.973	74.4	64.8	S.	Light Air.	0.1	Cum. round horizon.			
	2	0	29.953	74.9	63.8	S. S. E.	1.3	0.1	Cum. S. horizon.			
	3	0	29.938	74.9	64.6	S.	Light Air.	0.2	Cum. round horizon.			
	4	0	29.954	74.2	65.2	S.	0.8	0.4	Cum.			
	5	0	29.959	72.3	65.0	S. by E.	0.5	0.9	Detached cum. ; dense S.			
	6	0	29.981	70.2	65.0	S.	0.3	1.0	Cum. and cum.-strat. gloomy.			
	7	0	29.993	69.6	65.1	S. by E.	0.3	1.0	Dense cum. and cum.-strat.			
	8	0	30.002	68.9	65.0	S.	Light Air.	1.0	Cum.-strat.			
	9	0	30.012	68.5	64.7	S.	Light Air.	1.0	Cum.-strat.			

February 27th and 28th.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					DECLINATION.						
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		49.2	48.7	48.3	48.4	49.2	49.8	49.4	49.5	50.5	48.0	44.0	39.8
5	0		49.1	48.7	48.2	48.4	49.4	49.8	49.4	49.4	50.2	47.7	43.4	39.4
10	0		49.0	48.6	48.2	48.4	49.4	49.7	49.4	49.8	50.2	47.2	43.1	39.0
15	0		49.0	48.6	48.3	48.4	49.4	49.5	49.3	49.9	50.0	47.0	42.8	38.9
20	0		48.9	48.7	48.3	48.4	49.5	49.5	49.3	50.0	50.0	46.8	42.4	38.6
25	0		48.8	48.6	48.2	48.6	49.6	49.6	49.3	50.0	49.5	46.8	42.0	38.4
30	0		48.7	48.6	48.2	48.6	49.6	49.7	49.3	50.1	49.2	46.3	41.8	38.2
35	0		48.7	48.6	48.2	48.8	49.7	49.7	49.4	50.3	49.1	46.0	41.2	38.1
40	0		48.7	48.5	48.2	48.8	49.7	49.6	49.4	50.3	48.8	45.8	41.0	38.0
45	0		48.7	48.5	48.3	48.9	49.8	49.6	49.4	50.4	48.5	45.1	40.6	38.0
50	0		48.7	48.4	48.3	49.0	49.9	49.6	49.4	50.3	48.3	45.0	40.1	38.0
55	0		48.8	48.4	48.3	49.1	49.9	49.4	49.5	50.4	48.3	44.2	40.0	37.9

		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.							
M.	S.													
2	0		39.3	39.6	39.8	39.9	40.3	41.0	41.0	40.3	40.2	41.7	41.7	39.9
7	0		39.2	39.6	39.8	39.9	40.5	41.0	40.9	40.0	40.2	41.8	41.7	39.8
12	0		39.2	39.6	39.8	39.9	40.5	41.0	40.8	40.0	40.3	41.9	41.2	39.5
17	0		39.2	39.6	40.0	39.9	40.5	41.0	40.8	40.0	40.4	42.0	41.1	39.4
22	0		39.2	39.6	40.0	39.9	40.7	41.1	40.7	40.0	40.5	42.0	41.1	39.2
27	0		39.2	39.7	40.0	40.0	41.0	41.0	40.6	40.1	40.9	41.9	41.0	39.0
32	0		39.2	39.7	40.0	40.0	41.0	40.9	40.7	40.1	41.0	42.0	41.0	38.9
37	0		39.4	39.8	39.8	40.0	41.0	40.8	40.7	40.2	41.0	41.9	40.9	38.5
42	0		39.6	39.9	39.8	40.1	41.1	40.8	40.8	40.3	41.1	41.8	40.5	38.2
47	0		39.6	39.9	39.8	40.3	41.0	40.8	40.7	40.3	41.1	41.8	40.2	38.2
52	0		39.6	39.8	39.8	40.2	40.9	40.8	40.6	40.2	41.2	41.8	40.2	38.1
57	0		39.6	39.8	39.8	40.3	41.0	40.8	40.4	40.2	41.3	41.7	40.0	38.1

Thermometer		69.5	69.5	69.5	69.4	69.3	69.1	69.1	69.1	68.9	68.9	68.7	68.6
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		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.							
M.	S.													
3	0		81.4	81.4	80.9	80.9	80.0	78.3	79.2	78.4	79.5	83.4	87.3	89.4
8	0		81.4	81.4	80.9	80.9	79.8	78.3	79.2	78.4	80.1	83.4	88.0	89.4
13	0		81.4	81.4	80.9	80.9	79.8	78.3	79.2	78.8	80.1	83.4	88.3	89.4
18	0		81.4	81.4	80.9	80.9	79.8	78.3	79.2	78.8	80.5	84.0	88.7	89.4
23	0		81.4	81.4	80.9	80.9	79.8	78.3	79.2	78.8	80.5	84.0	88.8	89.4
28	0		81.4	81.4	80.9	80.9	78.9	78.8	79.2	78.8	81.8	84.0	88.8	88.4
33	0		81.4	81.4	80.9	80.9	78.9	78.8	79.2	78.8	81.8	84.7	88.8	88.4
38	0		81.4	81.4	80.9	80.9	78.3	78.8	79.2	78.8	81.8	84.7	89.2	88.4
43	0		81.4	81.4	80.9	80.2	78.3	78.8	79.2	78.8	82.3	85.5	89.2	88.4
48	0		81.4	81.4	80.9	80.2	78.3	78.8	79.2	79.1	82.3	86.3	89.2	87.4
53	0		81.4	80.9	80.9	80.2	78.3	78.8	78.4	79.1	82.7	86.3	89.2	87.4
58	0		81.4	80.9	80.9	80.2	78.3	79.2	78.4	79.5	82.7	87.3	89.6	86.3

Thermometer		69.5	69.5	69.4	69.4	69.4	69.2	69.2	69.1	69.1	69.0	68.7	68.6
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.				lbs.		
27	10	0	29.838	62.0	58.4	N. by W.	1.3	0.8	Cum. and cum.-strat.
	11	0	29.844	61.0	58.0	N. N. W.	0.8	0.8	Cum. and cum.-strat.
	12	0	29.822	61.8	58.4	N. N. W.	0.8	0.6	Cum. and cum.-strat.
	13	0	29.814	60.9	58.0	N. W. by N.	1.3	0.9	Cum. and cum.-strat.
	14	0	29.804	61.7	58.2	N. W. by N.	0.8	1.0	Cum. and cum.-strat.
	15	0	29.785	62.4	58.4	N. N. E.	0.8	0.8	Cum. and cum.-strat.
	16	0	29.786	62.4	58.7	N. N. E.	0.8	1.0	Cum. and cum.-strat.
	17	0	29.796	62.1	58.6	N.	0.8	1.0	Cum., cum.-strat., and nim.; gloomy appearance.
	18	0	29.812	61.6	58.1	N. by W.	0.5	1.0	Dense cir.-strat. and cum.-strat.
	19	0	29.816	62.7	58.6	N. N. W.	0.8	1.0	Dense cir.-strat. and cum.-strat.
	20	0	29.829	63.2	58.6	N.	1.7	1.0	Dense cir.-strat. and cum.-strat.
	21	0	29.826	64.8	59.3	N.	1.7	1.0	Dense cir.-strat. and cum.-strat.; sky densely overcast.

MAGNETICAL OBSERVATIONS. February 27th and 28th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	37.8	39.6	44.5	49.2	52.1	53.8	53.5	51.1	49.5	49.4	49.5	49.2
5	0	37.8	40.0	45.0	49.2	52.7	53.9	53.0	51.0	49.3	49.4	49.5	49.2
10	0	37.8	40.2	45.3	49.5	52.8	53.9	53.0	50.8	49.3	49.4	49.5	49.2
15	0	37.9	40.5	45.9	49.8	52.9	53.9	53.0	50.7	49.3	49.6	49.3	49.2
20	0	37.8	41.0	46.2	50.0	53.0	53.9	52.9	50.6	49.3	49.6	49.3	49.2
25	0	38.0	41.2	47.0	50.2	53.1	53.9	52.8	50.3	49.3	49.6	49.2	49.2
30	0	38.2	41.7	47.2	50.3	53.2	53.9	52.2	50.1	49.3	49.7	49.3	49.1
35	0	38.3	42.0	47.7	50.8	53.3	53.9	52.1	50.0	49.3	49.7	49.3	49.1
40	0	38.5	42.6	47.9	51.0	53.7	53.9	52.0	50.0	49.3	49.7	49.3	49.1
45	0	38.9	43.0	48.2	51.2	53.8	53.8	52.0	50.0	49.3	49.6	49.3	49.0
50	0	39.1	43.5	48.4	51.8	53.8	53.5	51.8	49.6	49.3	49.7	49.3	49.0
55	0	39.3	44.0	48.8	52.0	53.8	53.4	51.3	49.5	49.4	49.6	49.2	49.2

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00022.											
2	0	37.8	37.0	36.7	36.8	37.3	38.7	40.3	40.5	40.7	41.1	41.7	41.3
7	0	37.8	36.8	36.9	36.9	37.4	38.9	40.3	40.3	40.9	41.3	41.7	41.2
12	0	37.7	36.7	36.9	36.9	37.5	39.0	40.1	40.4	40.7	41.5	41.4	41.2
17	0	37.8	36.6	36.9	36.9	37.5	39.0	40.2	40.3	40.8	41.5	41.0	41.2
22	0	37.5	36.6	36.9	36.9	37.8	39.1	40.3	40.1	40.9	41.5	41.1	41.1
27	0	37.7	36.6	36.9	37.0	37.9	39.1	40.3	40.1	40.8	41.6	41.1	41.0
32	0	37.7	36.5	36.9	37.0	37.9	39.4	40.2	40.2	40.9	41.5	41.3	41.0
37	0	37.7	36.6	36.9	37.0	37.9	39.9	40.3	40.1	40.8	41.5	41.5	41.0
42	0	37.5	36.6	36.9	37.0	38.0	40.0	40.3	40.1	41.0	41.5	41.4	41.0
47	0	37.4	36.7	36.9	37.0	38.1	40.0	40.3	40.4	41.0	41.6	41.5	41.0
52	0	37.2	36.7	36.8	37.1	38.2	40.0	40.2	40.4	41.2	41.7	41.4	41.0
57	0	37.0	36.7	36.8	37.2	38.4	40.0	40.1	40.4	41.2	41.8	41.3	40.9

Thermometer		68.4	68.3	68.4	68.5	68.6	68.6	68.3	68.4	68.2	68.4	68.3	68.0
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah. = .00005.											
3	0	85.5	79.6	74.2	72.6	73.5	76.4	79.8	81.7	81.6	80.7	80.1	81.0
8	0	85.5	79.6	74.0	72.6	73.5	76.8	80.4	82.5	80.9	80.7	80.1	81.0
13	0	84.9	79.6	73.7	72.6	74.1	76.8	80.4	82.5	81.6	80.7	80.1	81.0
18	0	84.9	78.9	73.5	72.4	74.1	77.4	80.4	82.5	80.9	80.7	80.1	81.0
23	0	83.7	78.2	72.9	72.4	74.5	77.4	80.4	82.5	80.9	80.0	81.0	81.0
28	0	83.7	78.2	72.2	72.4	74.5	78.0	80.5	82.5	80.9	80.0	81.0	81.6
33	0	82.6	77.2	72.2	72.4	74.7	78.0	80.5	82.5	80.9	80.0	81.0	81.6
38	0	82.6	76.4	72.2	72.4	74.7	78.0	80.5	82.5	80.9	80.0	81.0	81.6
43	0	81.7	75.8	72.2	72.9	75.5	78.6	80.5	82.5	81.2	80.0	81.0	81.6
48	0	81.7	75.8	71.5	72.9	75.5	78.6	80.5	82.5	81.2	80.1	81.0	81.6
53	0	80.6	74.7	71.5	72.9	76.0	78.6	81.0	82.5	81.2	80.1	81.0	81.6
58	0	80.6	74.7	71.5	72.9	76.0	78.9	81.7	82.5	80.7	80.1	81.0	81.6

Thermometer		68.5	68.5	68.5	68.5	68.6	68.5	68.4	68.6	68.5	68.5	68.5	68.3
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
27	22	0	29.817	65.0	59.4	N.	1.7	1.0	Dense cir.-strat. and cum.-strat.; sky densely overcast.
	23	0	29.816	65.4	59.4	N. W. by N.	2.6	1.0	Dense cir.-strat. and cum.-strat.; sky densely overcast.
28	0	0	29.796	65.5	59.9	N. W. by N.	2.6	1.0	Dense cir.-strat. and cum.-strat.
	1	0	29.796	65.1	59.4	N. W. by N.	2.6	1.0	Dense cir.-strat. and cum.-strat.
	2	0	29.776	64.8	59.4	N. W.	1.7	1.0	Dense cir.-strat. and cum.-strat.
	3	0	29.776	63.8	59.1	N. W.	1.7	1.0	Dense cir.-strat. and cum.-strat.
	4	0	29.769	63.7	58.8	N. N. W.	2.2	1.0	Dense cum.-strat.
	5	0	29.765	63.1	58.6	N. by E.	2.6	1.0	Dense cum.-strat.
	6	0	29.759	63.1	59.0	N.	2.6	1.0	Dense cum.-strat.
	7	0	29.762	62.9	59.0	N.	1.7	1.0	Dense cum.-strat.
	8	0	29.770	62.9	59.2	N.	1.7	1.0	Dense cum.-strat.
	9	0	29.768	61.5	59.2	N. by W.	2.3	1.0	Nim.; drizzling rain.

March 18th and 19th.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.751.						DECLINATION.					
		10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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	48.0	48.2	48.2	50.3	48.0	48.3	48.2	48.1	48.0	45.4	41.1	39.0
5	0	48.2	48.3	48.3	50.0	48.0	48.3	48.3	48.5	48.0	45.0	40.8	39.0
10	0	48.2	48.4	48.5	50.2	48.0	48.2	48.3	48.4	47.9	44.4	40.5	39.0
15	0	48.3	48.3	49.0	50.0	48.0	48.2	48.4	48.4	47.8	44.1	40.1	39.0
20	0	48.6	48.3	49.8	49.6	48.0	48.4	48.3	48.4	47.6	43.7	40.0	39.0
25	0	48.5	48.3	50.0	49.0	48.0	48.3	48.3	48.4	47.3	43.3	39.8	39.0
30	0	48.7	48.2	50.5	49.0	48.0	48.3	48.1	48.4	47.2	42.8	39.5	39.0
35	0	48.5	48.2	50.9	48.6	48.0	48.4	48.2	48.4	46.9	42.5	39.4	39.0
40	0	48.4	48.2	51.0	48.3	48.0	48.4	48.1	48.4	46.5	41.8	39.3	39.1
45	0	48.2	48.1	51.0	48.1	48.0	48.4	48.1	48.3	46.2	41.8	39.2	39.3
50	0	48.5	48.1	50.9	48.1	48.1	48.5	48.1	48.2	46.0	41.7	39.1	39.3
55	0	48.4	48.2	50.7	48.0	48.2	48.3	48.1	48.0	45.7	41.3	39.2	39.5

M. S.		One Scale Division = .00022 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 .	21 ^h .
2	0	41.1	39.0	40.3	42.2	39.2	39.1	39.8	39.9	40.8	42.0	42.6	41.3
7	0	41.2	39.2	40.3	42.2	39.1	39.1	39.7	39.8	40.9	42.0	42.7	41.2
12	0	41.2	39.2	40.6	42.0	39.1	39.1	39.7	39.8	40.9	42.0	43.0	41.1
17	0	41.0	39.0	41.2	41.5	39.1	39.1	39.8	40.0	40.9	42.1	42.8	41.0
22	0	40.8	39.0	41.8	41.2	39.1	39.1	39.8	40.1	41.0	42.2	42.7	41.0
27	0	40.3	39.1	42.2	41.0	39.0	39.1	39.8	40.2	41.1	42.5	42.5	40.8
32	0	40.0	39.1	42.8	40.4	39.0	39.1	39.8	40.2	41.1	42.6	42.5	40.7
37	0	40.0	39.7	42.8	40.2	39.0	39.1	39.8	40.2	41.3	42.4	42.2	40.5
42	0	39.8	39.9	42.4	40.0	39.0	39.2	39.9	40.3	41.4	42.7	42.1	40.3
47	0	39.2	39.9	42.2	39.8	39.0	39.3	39.9	40.4	41.5	42.5	42.0	40.2
52	0	39.1	40.4	42.2	39.2	39.1	39.6	39.9	40.5	41.7	42.5	41.8	40.0
57	0	38.9	40.3	42.2	39.2	39.1	39.6	39.9	40.6	41.8	42.5	41.4	39.9

Thermometer	66.1	66.0	66.3	66.1	66.3	66.6	66.6	66.6	66.6	66.3	66.3	66.1	66.1
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M. S.		One Scale Division = .00014 parts 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 .	21 ^h .
3	0	79.1	80.0	79.6	76.9	81.6	80.7	80.7	79.9	80.6	84.2	85.1	83.8
8	0	79.1	80.0	79.6	77.5	81.6	80.7	80.7	79.9	80.6	84.2	85.1	83.2
13	0	78.3	80.0	79.3	77.5	81.6	80.7	80.7	79.9	81.4	84.8	85.1	82.6
18	0	78.3	80.0	78.4	78.2	81.6	80.7	80.7	79.9	81.4	84.8	85.1	82.3
23	0	78.3	80.0	77.6	78.8	81.6	80.7	80.7	79.9	81.4	84.8	85.1	82.3
28	0	78.3	80.0	77.2	79.4	81.6	80.7	80.7	79.9	81.4	84.8	85.1	81.6
33	0	78.7	80.0	76.2	80.1	81.6	80.7	80.7	79.9	81.4	85.1	85.1	81.1
38	0	78.7	80.0	76.2	80.1	81.2	80.7	80.7	79.9	82.5	85.1	85.0	81.1
43	0	79.3	79.6	76.2	80.5	81.2	80.7	80.7	79.9	82.5	85.1	85.0	81.1
48	0	79.5	79.6	76.2	81.0	80.9	80.7	80.7	79.9	83.1	85.1	84.1	80.1
53	0	79.5	79.6	76.9	81.0	80.7	80.7	80.7	79.9	83.1	85.1	83.8	79.6
58	0	80.0	79.6	76.9	81.6	80.7	80.7	80.2	79.9	83.1	85.1	83.8	79.6

Thermometer	66.1	66.4	66.5	66.6	66.6	66.7	66.7	66.7	66.7	66.6	66.5	66.4	66.4
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Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
18	10	0	30.073	63.0	56.9	S.	1.3	0.0	Cum.-bank in S. and E. hor.; clear moonlight.				
	11	0	30.073	63.4	57.6	S. by W.	1.3	0.3	Light detached cum. spreading from S.				
	12	0	30.065	63.0	57.8	S. by E.	1.3	0.0	Clear moonlight.				
	13	0	30.052	62.8	57.3	S.	1.3	0.0	Clear moonlight, cum. visible in S. horizon.				
	14	0	30.060	63.4	57.8	S. by W.	1.7	0.0	A few cum. S. W.				
	15	0	30.074	63.9	58.3	S. by W.	1.3	0.7	Cum.				
	16	0	30.074	64.2	58.9	S. by W.	1.3	0.7	Cum.				
	17	0	30.072	64.0	57.9	S.	1.3	0.5	Cum. and scud from S.				
	18	0	30.094	64.8	57.9	S.	1.7	0.0	A few cum. S. W.				
	19	0	30.094	66.0	59.0	S.	2.2	0.0	Clear.				
	20	0	30.108	67.8	59.6	S. by W.	2.6	0.0	Haze round horizon.				
	21	0	30.122	68.8	60.1	S. by W.	2.2	0.0	Haze round horizon.				

MAGNETICAL OBSERVATIONS.													March 18th and 19th.	
Mean Göttingen Time.		DECLINATION.											Angular Value of one Scale Division = 0'.751.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	39.6	42.0	46.2	50.5	53.1	51.4	50.0	48.8	48.6	48.8	48.8	48.8	
5	0	39.8	42.0	46.8	50.9	53.1	51.5	50.0	48.9	48.8	48.9	48.8	48.6	
10	0	39.9	42.5	47.2	51.1	53.8	51.1	49.8	48.7	48.8	48.8	48.9	48.6	
15	0	40.0	42.9	47.5	51.1	53.8	51.1	49.6	48.5	48.2	48.8	48.9	48.7	
20	0	40.1	43.1	48.0	51.4	52.9	51.1	49.1	48.5	48.0	49.0	48.9	48.7	
25	0	40.4	43.5	48.5	51.9	52.8	51.1	49.3	48.6	48.0	49.0	48.8	48.6	
30	0	40.9	44.0	48.9	52.0	52.7	50.9	48.9	48.7	48.1	49.0	48.8	48.5	
35	0	41.0	44.3	49.0	52.1	52.1	50.9	49.0	48.8	48.1	49.0	48.8	48.4	
40	0	41.1	44.6	49.5	52.5	51.9	50.4	48.8	48.8	48.2	48.8	48.6	48.3	
45	0	41.3	45.0	50.0	52.8	51.9	50.3	48.6	48.8	48.3	48.6	48.6	48.3	
50	0	41.5	45.5	50.0	53.0	51.9	50.2	48.5	48.8	48.8	48.3	48.7	48.5	
55	0	41.6	45.9	50.3	53.1	51.7	50.1	48.7	48.5	48.8	48.3	48.7	48.5	

M. S.		HORIZONTAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
2	0	39.7	37.9	36.9	37.2	39.0	37.9	39.0	38.2	37.2	37.8	37.3	37.6	
7	0	39.5	37.7	36.9	37.2	39.0	38.0	39.0	38.5	37.2	37.8	37.3	37.8	
12	0	39.3	37.5	37.0	37.3	39.0	38.0	38.9	38.5	37.0	37.5	37.5	37.7	
17	0	39.0	37.5	37.0	37.6	38.9	38.0	38.9	38.2	37.0	37.4	37.5	38.0	
22	0	39.1	37.2	37.0	37.8	38.9	38.1	38.9	38.2	36.9	37.0	37.4	38.0	
27	0	39.1	37.0	37.0	37.9	38.9	38.3	39.0	38.0	36.9	37.0	37.3	38.1	
32	0	39.0	37.0	37.1	38.0	38.7	38.8	38.9	37.8	37.0	37.0	37.2	38.5	
37	0	39.0	37.0	37.0	38.1	38.2	38.8	39.0	37.6	37.2	37.1	37.2	38.9	
42	0	38.8	36.7	37.3	38.3	38.0	38.9	38.9	37.6	37.2	37.2	37.2	39.0	
47	0	38.6	36.7	37.3	38.8	38.0	38.9	38.8	37.4	37.3	37.2	37.2	39.1	
52	0	38.3	36.7	37.3	38.8	38.0	38.9	38.7	37.3	37.3	37.3	37.3	39.2	
57	0	38.0	36.9	37.0	38.8	37.9	38.9	38.3	37.3	37.5	37.2	37.5	39.1	

Thermometer	66.3	66.5	66.9	67.3	67.7	68.3	68.3	68.6	68.5	68.5	68.1	67.8
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M. S.		VERTICAL FORCE.											Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.	
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .	
3	0	78.4	73.9	70.9	69.1	70.8	78.2	80.4	81.8	81.3	79.7	79.5	79.5	
8	0	78.0	73.4	70.6	68.8	71.5	78.2	80.4	81.8	81.3	79.7	79.5	79.5	
13	0	77.6	73.4	70.0	68.8	72.2	78.7	80.4	81.8	81.3	79.7	79.5	79.5	
18	0	77.7	73.4	69.2	68.8	72.2	78.7	81.0	81.8	81.3	79.7	79.5	79.5	
23	0	77.0	73.4	69.2	68.8	72.2	78.7	81.0	81.8	81.3	79.7	79.5	79.5	
28	0	75.7	72.6	69.2	68.8	72.2	79.2	81.5	81.4	81.7	79.7	79.5	79.5	
33	0	75.7	72.6	68.9	68.8	72.2	79.2	81.5	81.4	81.7	79.7	79.5	79.1	
38	0	75.7	72.2	68.9	68.8	75.1	79.2	81.5	81.4	81.3	79.7	79.5	79.1	
43	0	75.2	71.8	68.9	69.5	75.8	79.5	81.8	81.4	81.3	79.7	79.5	79.1	
48	0	75.2	71.8	68.5	69.5	76.4	79.5	81.8	81.4	80.4	79.7	79.5	78.6	
53	0	75.2	71.8	68.5	69.5	76.8	79.5	81.8	81.4	80.4	79.7	79.5	78.6	
58	0	74.2	70.9	68.4	70.3	77.8	79.5	81.8	81.4	80.4	79.7	79.5	78.4	

Thermometer	66.5	66.8	67.1	67.4	67.7	68.0	68.1	68.5	68.2	68.1	68.1	68.0
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
18	22	0	30.130	69.8	60.6	S. by W.	2.6	0.0	Haze round horizon.
	23	0	30.114	70.6	61.2	S. by W.	4.2	0.0	Haze round horizon.
19	0	0	30.102	71.1	61.8	S.	3.6	0.0	A few cir. S. W. and S. E.
	1	0	30.099	71.3	63.0	S. by W.	5.2	0.0	Haze; a few cum. S. W.
	2	0	30.090	71.0	63.0	S. S. W.	4.7	0.1	Cum. and scud; dense haze round horizon.
	3	0	30.087 ^a	69.1	61.8	S. by W.	5.8	0.0	Cum. S. W.; dense haze round horizon.
	4	0	30.108	67.6	61.5	S. S. W.	6.9	0.1	Cir.-strat. N. and cum. on S. hor.; very hazy.
	5	0	30.096	66.2	59.4	S. S. W.	5.8	0.0	Very hazy, dense round hor.; a few cir. S. and N.
	6	0	30.097 ^a	65.1	58.6	S. S. W.	9.0	0.0	Dense haze round horizon.
	7	0	30.105 ^a	64.7	58.6	S. S. W.	6.9	0.0	Dense haze round horizon.
	8	0	30.113	64.3	58.7	S. by W.	4.7	0.0	Starlight at 8 ^h . 25 ^m ., a brilliant meteor S. shooting towards the W.
	9	0	30.115	63.8	58.6	S. S. W.	5.8	0.0	Clear.

Mercury oscillating.

April 22nd and 23rd.			MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.						DECLINATION.					
			10 ^h .	11 ^h .	12 ^h .	13 ^h .	14 ^h .	15 ^h .	16 ^h .	17 ^h .	18 ^h .	19 ^h .	20 ^h .	21 ^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		48.8	48.5	47.3	47.5	48.0	48.1	48.7	48.9	49.0	47.5	43.8	42.2
5	0		48.5	48.5	47.2	47.5	48.0	48.2	48.8	49.0	49.0	47.1	43.5	42.2
10	0		48.4	48.4	47.2	47.4	47.9	48.2	48.8	49.0	49.0	46.8	43.2	42.3
15	0		48.2	48.3	47.2	47.5	47.6	48.3	48.8	48.9	48.8	46.6	43.0	42.6
20	0		48.2	48.2	47.2	47.5	47.8	48.4	48.8	48.9	48.8	46.2	43.0	43.0
25	0		48.2	48.2	47.0	47.9	48.1	48.4	48.9	49.0	48.5	46.0	42.8	43.0
30	0		48.4	48.0	47.0	48.0	48.0	48.4	48.9	48.9	48.5	45.5	42.4	43.2
35	0		48.5	47.9	46.7	47.8	47.9	48.5	48.9	48.9	48.4	45.2	42.2	43.5
40	0		48.6	47.8	46.3	47.8	47.9	48.5	48.9	48.9	48.2	45.0	42.1	43.7
45	0		48.7	47.7	46.5	47.9	48.0	48.5	48.9	49.0	48.1	44.8	42.1	43.7
50	0		48.7	47.5	47.0	48.0	48.0	48.6	48.9	49.0	48.1	44.2	42.1	44.0
55	0		48.5	47.3	47.2	48.0	48.0	48.6	48.9	49.0	47.9	44.0	42.2	44.0

M. S.		One Scale Division = .00022 parts of the H. F.						HORIZONTAL FORCE.					
2	0	35.6	36.1	36.9	35.4	36.3	35.4	35.7	35.8	36.8	38.7	39.5	39.8
7	0	35.7	36.3	36.9	35.5	36.2	35.4	35.8	35.8	37.0	38.8	39.4	39.5
12	0	35.8	36.3	37.0	35.7	35.5	35.3	35.8	35.8	37.2	38.9	39.8	39.7
17	0	35.8	36.3	37.0	35.9	35.4	35.3	35.8	35.9	37.4	39.0	39.6	39.4
22	0	36.0	36.3	37.0	36.1	35.5	35.4	35.8	35.9	37.7	39.0	39.6	39.2
27	0	36.1	36.4	37.2	36.0	35.5	35.4	35.8	36.0	37.8	39.1	39.6	39.2
32	0	36.1	36.5	37.2	36.0	35.4	35.5	35.9	36.0	38.0	39.2	39.9	39.2
37	0	36.1	36.7	37.1	36.0	35.3	35.6	35.9	36.0	38.1	39.2	39.8	39.2
42	0	36.2	36.8	37.0	36.1	35.4	35.7	35.9	36.2	38.2	39.2	39.8	39.3
47	0	36.2	37.0	36.8	36.2	35.4	35.8	35.9	36.3	38.2	39.2	39.8	39.2
52	0	36.2	37.0	36.8	36.2	35.5	35.8	35.9	36.5	38.3	39.4	39.8	39.1
57	0	36.1	37.0	36.0	36.3	35.5	35.8	35.9	36.8	38.6	39.3	39.8	39.2

Thermometer		63.0	63.2	63.4	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8

M. S.		One Scale Division = .00014 parts of the V. F.						VERTICAL FORCE.					
3	0	78.6	77.1	77.9	77.4	76.5	77.1	76.7	76.1	75.6	76.6	80.1	78.6
8	0	78.6	77.1	77.9	77.4	76.5	77.1	76.7	76.1	75.6	76.6	80.1	78.6
13	0	78.6	77.1	77.9	77.4	76.5	77.1	76.5	76.1	75.6	77.7	80.1	78.6
18	0	78.6	77.1	77.9	77.4	76.9	77.1	76.5	76.1	75.6	78.0	80.1	77.7
23	0	77.8	77.1	77.9	77.0	76.9	76.9	76.3	76.1	75.6	78.0	80.1	77.7
28	0	77.8	77.9	77.9	77.0	76.7	76.9	76.3	76.1	75.2	78.6	80.1	77.7
33	0	77.8	77.9	77.9	77.0	76.7	76.7	76.3	76.1	75.2	78.6	80.1	77.7
38	0	77.1	77.9	77.9	76.5	77.1	76.7	76.3	76.1	75.2	79.3	80.1	77.2
43	0	77.1	77.9	77.9	76.5	77.1	76.7	76.3	76.1	75.2	79.3	80.1	77.2
48	0	77.1	77.9	77.4	76.5	77.1	76.7	76.1	75.6	75.6	79.7	80.1	76.7
53	0	77.1	77.9	77.4	76.5	77.1	76.7	76.1	75.6	75.6	79.7	78.8	76.7
58	0	77.1	77.9	77.4	76.5	77.1	76.7	76.1	75.6	76.3	80.1	78.8	75.7

Thermometer		63.2	63.4	63.6	63.7	63.8	63.8	63.9	63.9	63.8	63.8	63.8	63.8

Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32'	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
22	10	0	29.951	58.8	55.4	N. by W.	1.3	1.0	Cum. and cum.-strat.				
	11	0	29.960	58.8	55.2	N. by E.	1.3	1.0	Cum. and cum.-strat.				
	12	0	29.951	59.2	54.8	N. N. E.	1.7	0.9	Cum. and cum.-strat.				
	13	0	29.959	59.7	55.0	N. E. by N.	1.3	1.0	Cum. and cum.-strat.				
	14	0	29.959	59.4	55.2	N.	0.8	1.0	Cum.-strat. and nim., beginning to rain.				
	15	0	29.975	58.1	55.4	N.	1.3	1.0	Nim.				
	16	0	29.976	57.2	55.4	N. by W.	1.3	1.0	Nim. and mist.				
	17	0	29.993	56.6	55.1	N. N. W.	1.7	1.0	Nim. and mist; drizzling rain.				
	18	0	30.015	56.8	55.4	W.	0.5	1.0	Nim.; heavy rain.				
	19	0	30.039	56.8	55.5	N. by E.	0.3	1.0	Dense cum.-strat.				
	20	0	30.059	57.9	56.4	Calm.	Calm.	1.0	Dense cum.-strat. and nim.; gloomy.				
	21	0	30.075	58.5	57.1	N. by W.	Light Air.	1.0	Dense cum.-strat. and nim.; showers.				

MAGNETICAL OBSERVATIONS. April 22nd and 23rd.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
M.	S.	22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^h .
0	0	44.2	46.9	50.0	51.2	50.1	49.8	49.9	50.0	50.0	49.9	49.7	50.0
5	0	44.5	47.1	50.1	51.2	50.1	49.8	50.0	50.0	49.9	49.9	49.7	50.0
10	0	44.9	47.1	50.2	51.4	50.1	49.7	50.0	50.0	49.8	50.0	49.7	50.0
15	0	45.0	47.5	50.5	51.2	49.9	49.8	50.0	49.8	49.7	50.0	49.9	50.0
20	0	45.0	47.8	50.5	51.1	49.9	49.8	50.0	49.9	49.7	50.0	49.9	50.0
25	0	45.1	48.2	50.7	51.0	49.9	49.9	50.0	49.7	49.7	50.0	50.0	50.2
30	0	45.4	48.4	51.0	50.9	49.9	49.9	50.0	49.7	48.7	50.0	50.0	50.2
35	0	45.7	48.8	50.9	51.0	49.9	49.9	50.0	49.7	49.8	50.0	49.9	50.2
40	0	45.9	48.8	50.9	51.0	49.8	49.9	50.0	49.7	49.7	50.0	49.9	50.2
45	0	46.0	49.1	51.0	51.0	49.8	49.9	50.0	49.7	49.7	50.0	50.0	50.0
50	0	46.4	49.2	50.9	50.8	49.7	49.9	50.0	49.7	49.7	49.7	50.0	50.0
55	0	46.8	49.9	51.0	50.3	49.7	49.9	50.0	49.7	49.9	49.7	50.0	50.0

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.											
2	0	39.3	40.8	40.9	40.2	39.3	38.1	38.3	37.9	37.7	37.6	37.0	38.9
7	0	39.5	41.0	41.0	40.8	39.4	38.1	38.3	37.8	37.7	37.6	37.3	38.8
12	0	39.7	40.5	41.0	40.9	39.0	38.0	38.3	37.7	37.7	37.7	37.4	38.8
17	0	39.5	40.4	41.0	40.2	38.8	38.1	38.2	37.7	37.7	37.6	37.4	38.9
22	0	39.0	40.5	41.0	40.2	38.7	38.4	38.0	37.7	37.7	37.6	37.4	38.6
27	0	39.0	40.4	41.0	40.1	38.7	38.5	38.0	37.6	37.7	37.6	37.4	38.4
32	0	39.1	40.6	40.8	40.5	38.4	38.7	38.0	37.6	37.7	37.5	37.3	38.6
37	0	39.0	40.4	40.5	41.1	38.2	38.6	38.0	37.6	37.7	37.5	37.4	38.2
42	0	39.1	40.1	40.2	41.5	38.3	38.2	37.9	37.6	37.7	37.4	37.7	38.3
47	0	39.8	40.0	40.0	41.0	38.1	38.2	37.9	37.5	37.7	37.3	38.5	38.2
52	0	40.5	40.1	39.8	40.8	38.1	38.1	37.9	37.5	37.7	37.0	39.0	38.2
57	0	40.7	40.8	40.1	40.1	38.1	38.1	37.9	37.7	37.7	37.0	38.9	38.2

Thermometer	63.8	63.7	63.6	63.6	63.7	63.8	63.9	64.3	64.3	64.4	64.3	64.2
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.											
3	0	75.7	72.3	68.9	70.9	73.0	76.9	77.6	78.9	78.9	78.9	79.2	77.1
8	0	75.7	71.2	68.9	70.9	73.0	76.9	77.6	78.9	78.9	78.9	79.2	77.1
13	0	75.7	71.2	68.7	70.7	74.0	76.9	77.6	78.9	78.9	78.9	79.2	77.7
18	0	74.9	71.2	68.7	70.7	74.7	76.9	77.6	78.9	78.9	78.9	79.2	77.7
23	0	74.9	70.5	68.7	70.7	74.7	76.9	77.6	78.9	78.9	78.9	78.7	77.7
28	0	74.9	70.5	69.3	70.7	75.3	76.9	78.6	78.9	78.9	78.9	78.7	77.7
33	0	74.9	70.5	69.3	71.2	75.3	76.9	78.6	78.9	78.9	78.4	78.7	77.7
38	0	74.9	69.2	69.3	71.2	75.9	76.9	78.6	78.9	78.9	78.4	78.7	77.7
43	0	74.9	69.2	70.7	70.7	75.9	76.9	78.6	78.9	78.9	78.4	78.7	77.7
48	0	74.0	69.2	70.7	70.7	76.4	76.9	78.6	78.9	78.9	78.4	77.9	77.7
53	0	73.0	69.2	71.4	71.4	76.4	77.6	78.9	78.9	78.9	78.4	77.6	77.7
58	0	72.3	69.2	71.4	71.9	76.9	77.6	78.9	78.9	78.9	78.4	77.1	77.7

Thermometer	63.7	63.7	63.8	63.8	63.9	64.0	64.3	64.6	64.5	64.5	64.5	64.3
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
				Dry.	Wet.	Direction.	Force.		
D.	H.	M.	In.	°	°		lbs.		
22	22	0	30.085	58.5	56.8	W.	0.8	1.0	Cum.-strat. and nim.; showers.
	23	0	30.077	58.7	57.6	W. by N.	0.8	1.0	Cum.-strat. and nim.; showers.
23	0	0	30.051	59.1	58.0	N. W. by N.	0.3	1.0	Nim.
	1	0	30.043	60.4	58.2	N. W.	0.3	0.9	Cum. and cum.-strat.
	2	0	30.033	60.4	58.6	N. W.	0.5	0.9	Cum. and cum.-strat.
	3	0	30.040	61.8	58.8	N. by W.	0.5	1.0	Cum. and cum.-strat.
	4	0	30.040	60.8	57.8	W. N. W.	Light Air.	1.0	Cum. and cum.-strat.
	5	0	30.038	59.0	56.6	N. by W.	Light Air.	0.6	Cir., cir.-strat., and cum.-strat.
	6	0	30.038	57.7	55.8	Calm.	Calm.	0.0	A few cir.-strat. round hor.; sea sounding.
	7	0	30.048	57.0	55.0	Calm.	Calm.	0.0	Dull starlight.
	8	0	30.044	55.9	54.1	N. by W.	Light Air.	0.0	Cir.-strat. round hor.; heavy dew.
	9	0	30.058	55.0	53.4	Calm.	Calm.	0.5	Fog. clear in zenith; heavy dew.

May 29th and 30th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					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		50.5	50.4	49.6	51.2	50.7	51.2	53.5	52.7	53.0	53.3	51.8
5	0		50.6	50.2	49.8	51.1	50.6	51.1	53.5	52.8	53.4	53.2	51.9
10	0		50.5	50.1	49.8	51.0	50.7	51.1	53.4	53.0	53.7	53.1	51.4
15	0		50.5	50.2	49.9	51.0	50.9	51.4	53.3	53.0	53.8	53.0	51.3
20	0		50.6	50.0	50.0	51.0	51.0	51.7	53.2	53.0	53.8	53.0	50.9
25	0		50.6	50.0	50.4	50.8	51.0	51.8	53.0	53.0	53.8	53.1	50.3
30	0		50.6	50.0	50.5	50.5	51.0	52.0	52.9	53.0	53.9	53.0	49.8
35	0		50.7	50.0	50.7	50.5	51.0	52.2	52.8	52.9	54.5	52.9	49.9
40	0		50.7	50.0	51.1	50.5	51.2	52.0	52.9	53.0	54.6	52.2	49.6
45	0		50.7	50.0	51.4	50.7	51.1	52.0	52.8	53.0	54.2	52.0	49.4
50	0		50.6	50.0	51.4	50.7	51.0	52.2	52.6	53.0	54.0	52.0	49.7
55	0		50.5	50.0	51.4	50.7	51.1	53.0	52.4	53.0	53.8	51.7	50.0

		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
M.	S.												
2	0		39.7	38.2	36.7	38.4	38.8	39.0	40.4	41.1	42.2	41.7	41.8
7	0		39.7	38.0	36.6	38.7	38.7	39.1	40.6	41.2	42.1	41.7	41.8
12	0		39.5	38.0	36.6	39.0	38.7	39.1	40.7	41.8	42.1	41.8	41.9
17	0		39.7	37.8	36.6	39.1	38.7	39.2	41.0	42.0	42.2	41.8	42.0
22	0		39.7	37.6	37.0	39.4	38.9	39.1	41.1	42.0	42.2	41.8	42.0
27	0		39.6	37.5	37.3	39.3	39.0	39.1	41.3	42.2	42.4	41.7	42.1
32	0		39.5	37.4	37.6	39.3	39.0	39.2	41.7	42.4	43.0	41.9	42.1
37	0		39.3	37.0	37.8	39.3	38.8	39.5	42.0	42.5	43.0	41.9	42.1
42	0		39.0	36.9	37.9	39.4	38.8	39.7	42.0	42.2	42.4	41.9	41.7
47	0		39.0	36.7	37.9	39.3	38.7	39.7	41.9	42.1	42.1	41.9	41.4
52	0		38.9	36.8	38.0	39.1	38.8	39.9	41.8	42.2	41.6	41.9	41.0
57	0		38.5	36.7	38.2	39.0	39.0	40.2	41.5	42.2	41.6	41.9	40.9

Thermometer		54.6	54.7	54.9	54.9	54.9	54.9	54.7	54.7	54.7	54.7	54.3	54.0

		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
M.	S.												
3	0		85.5	87.4	88.9	86.1	86.3	85.9	83.3	83.4	81.8	83.5	87.0
8	0		85.5	87.4	88.9	86.1	86.3	85.9	83.3	83.4	81.8	84.0	87.0
13	0		86.2	87.7	88.9	86.1	86.3	85.9	83.3	83.4	81.8	84.0	87.4
18	0		86.2	87.9	88.9	85.5	86.3	85.9	83.3	82.9	81.8	84.5	87.4
23	0		86.2	87.9	88.2	85.5	86.3	85.9	83.3	82.9	81.8	84.8	88.0
28	0		86.2	87.9	87.7	85.5	85.9	85.9	83.7	82.9	81.8	85.0	88.0
33	0		86.2	88.2	87.0	85.5	85.9	85.4	83.7	82.6	81.8	85.0	88.5
38	0		86.2	88.4	87.0	85.5	85.9	85.4	83.7	82.6	80.9	85.0	88.5
43	0		86.4	88.4	86.4	85.5	85.9	85.0	83.2	82.6	80.9	85.6	88.9
48	0		86.4	88.9	86.1	85.5	85.9	85.0	83.2	82.6	81.8	85.6	88.9
53	0		86.4	88.9	86.1	85.9	85.9	84.4	83.2	82.1	82.3	86.3	88.9
58	0		86.4	88.9	86.1	85.9	85.9	83.8	83.2	82.1	82.9	86.3	88.9

Thermometer		55.3	55.7	55.8	55.8	55.9	55.7	55.6	55.5	55.3	55.2	55.3	55.0

Increasing Numbers denote decreasing Westerly Declination,

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.			
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
29	10	0	30.519	48.1	45.2	Calm.	Calm.	0.0	A few cum.-strat. N. W. and N. E. ; sea sounding.			
	11	0	30.532	47.6	45.4	Calm.	Calm.	0.9	Cum. and cum.-strat.			
	12	0	30.532	47.6	45.0	Calm.	Calm.	0.8	Cum. and cum.-strat. ; sea sounding.			
	13	0	30.533	47.4	45.0	Calm.	Calm.	0.1	Cum. scattered round hor. ; dew.			
	14	0	30.535	46.2	44.4	Calm.	Calm.	0.1	Cum. scattered round hor. ; dew.			
	15	0	30.530	46.1	44.2	Calm.	Calm.	0.7	Cum. and cum.-strat. ; dew ; sea sounding.			
	16	0	30.530	46.7	44.6	Calm.	Calm.	0.0	A few cum. round hor. ; dew ; sea sounding.			
	17	0	30.530	46.0	43.9	Calm.	Calm.	0.6	Cum. and cum.-strat. ; heavy dew ; sea sounding.			
	18	0	30.539	45.3	43.6	Calm.	Calm.	0.1	Cum. and cum.-strat. ; heavy dew ; sea sounding.			
	19	0	30.551	45.1	43.4	Calm.	Calm.	0.1	Cum. and cum.-strat. ; heavy dew ; sea sounding.			
	20	0	30.547	47.0	45.8	Calm.	Calm.	0.9	Cum. ; dull ; sea sounding.			
	21	0	30.561	49.4	47.8	Calm.	Calm.	0.8	Cum. ; dull ; sea sounding.			

MAGNETICAL OBSERVATIONS. May 29th and 30th.

Mean Göttingen Time.	DECLINATION.											
	22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	48·3	47·8	48·5	51·0	50·7	50·0	50·4	49·5	49·4	49·0	49·0	49·3
5 0	48·3	47·7	48·8	50·8	50·7	50·0	50·3	49·7	49·4	49·1	49·4	49·3
10 0	48·1	47·9	48·9	50·6	50·5	50·0	50·4	49·5	49·5	49·5	49·6	49·2
15 0	47·9	47·9	48·9	50·5	50·5	50·0	50·2	49·2	49·6	49·6	49·6	49·1
20 0	47·8	47·8	49·2	50·4	50·8	50·0	50·3	49·4	49·4	49·4	49·4	49·1
25 0	47·9	47·8	49·7	50·5	50·8	50·2	50·2	49·6	48·4	49·4	49·4	49·0
30 0	47·8	47·8	49·9	50·5	51·0	50·2	50·0	49·7	47·2	49·2	49·4	48·9
35 0	47·3	47·9	50·0	50·5	50·9	50·4	50·0	50·0	47·0	49·4	49·5	48·7
40 0	47·3	47·9	50·3	50·5	50·9	50·5	50·0	49·6	47·4	49·2	49·3	48·8
45 0	47·1	47·9	50·8	50·6	50·8	50·5	50·0	49·5	47·5	49·0	49·2	48·6
50 0	47·3	48·1	50·9	50·6	50·4	50·4	50·0	49·6	48·0	49·0	49·4	48·5
55 0	47·2	48·2	51·0	50·6	50·4	50·5	49·4	49·1	48·8	48·8	49·3	48·5

M. S.	HORIZONTAL FORCE.											
	Change in the Magnetic moment of the Bar for 1° Fah. = '00022.											
2 0	40·0	38·9	39·6	40·0	38·7	36·2	38·2	38·0	34·6	33·5	35·0	35·2
7 0	40·0	39·0	39·7	39·8	38·2	36·0	38·3	37·9	34·2	34·3	35·4	35·3
12 0	39·9	39·0	39·7	39·3	38·1	36·0	38·2	38·1	34·0	34·5	35·7	35·2
17 0	39·6	38·7	40·0	39·2	38·5	36·0	38·3	38·3	33·8	34·5	36·0	35·2
22 0	39·1	38·3	40·0	39·0	38·5	36·0	38·6	38·0	33·7	34·5	35·7	35·0
27 0	39·0	38·2	40·0	38·8	38·5	36·2	39·0	37·7	33·0	34·5	35·6	34·8
32 0	39·0	38·2	40·0	38·8	38·4	36·5	39·0	37·3	32·9	34·2	35·5	34·7
37 0	39·0	38·4	40·0	38·8	38·4	36·8	38·8	36·5	32·7	34·3	35·4	34·7
42 0	39·0	38·9	40·0	38·9	38·2	37·2	38·3	36·0	33·0	34·4	35·0	34·7
47 0	38·7	39·0	40·3	38·9	37·5	37·2	38·1	35·5	33·0	34·6	35·0	34·7
52 0	38·9	39·1	40·6	38·8	36·9	37·6	38·0	35·3	33·1	34·7	35·1	34·8
57 0	39·1	39·4	40·1	38·8	36·7	38·2	38·0	35·0	33·3	34·7	35·0	34·8

Thermometer	54·4	54·4	54·7	54·7	54·7	55·2	55·6	55·7	56·0	56·0	55·9	55·9
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M. S.	VERTICAL FORCE.											
	Change in the Magnetic moment of the Bar for 1° Fah. = '00005.											
3 0	89·2	87·0	85·5	83·1	85·4	88·5	87·9	87·6	89·5	90·1	87·5	87·4
8 0	88·8	86·7	85·5	83·1	85·4	89·4	87·9	87·6	89·5	89·2	86·7	87·4
13 0	88·8	86·7	85·5	84·1	85·4	89·4	87·9	87·6	89·5	89·2	86·2	87·4
18 0	88·8	86·7	85·1	84·1	86·0	89·4	87·6	87·6	89·9	88·4	86·2	87·4
23 0	88·0	86·7	84·7	84·7	86·0	89·4	87·6	87·3	90·6	88·4	86·2	87·7
28 0	88·3	86·7	84·7	85·0	86·0	88·7	87·1	87·3	91·8	88·4	86·2	87·7
33 0	88·3	86·7	84·7	85·0	86·0	89·3	87·1	87·7	92·9	88·4	86·2	87·7
38 0	88·3	86·7	83·9	85·0	86·0	88·5	87·1	88·3	92·9	88·4	86·2	87·9
43 0	88·3	86·7	83·9	85·4	86·3	88·5	87·1	88·3	92·3	88·4	86·5	87·9
48 0	88·3	86·3	83·4	85·4	86·3	88·5	86·8	88·3	92·0	87·9	87·3	87·9
53 0	88·0	86·0	83·1	85·4	87·9	88·5	87·6	89·1	90·9	87·9	87·3	87·9
58 0	87·5	85·5	83·1	85·4	87·9	88·5	87·6	89·1	90·4	87·5	87·3	87·9

Thermometer	55·0	55·1	55·2	55·7	55·8	56·0	56·1	56·4	56·5	56·5	56·5	56·5
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.	Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
		Dry.	Wet.	Direction.	Force.		
D. H. M.	In.	°	°		lbs.		
29 22 0	30·545	52·4	48·5	S. E.	Light Air.	0·8	Cum., dull, sea sounding.
23 0	30·518	54·4	49·6	S. S. W.	0·3	0·6	Cum., dull, sea sounding.
30 0 0	30·500	56·2	50·0	S. by E.	0·3	0·8	Cum., dull, sea sounding.
1 0	30·474	56·8	50·0	S. S. E.	0·3	0·3	Cum. round horizon.
2 0	30·460	56·4	49·4	Calm.	Calm.	0·2	Cum. scattered S. and N. hor.
3 0	30·459	56·2	49·7	S.	Light Air.	0·0	A few detached cum. to southward.
4 0	30·455	54·1	48·9	S. S. W.	Light Air.	0·0	A few cum. to westward.
5 0	30·455	52·2	47·4	S. S. W.	Light Air.	0·0	Cum. on W. horizon.
6 0	30·468	51·1	46·2	S. by W.	Light Air.	0·0	Clear.
7 0	30·476	51·0	45·8	S.	Light Air.	0·0	Clear.
8 0	30·473	50·4	45·5	S. by W.	Light Air.	0·0	Clear.
9 0	30·471	50·4	45·6	Calm.	Calm.	0·0	Clear.

June 24th and 25th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.751.					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	49.3	49.0	50.0	50.0	50.7	50.9	51.0	51.0	51.0	52.0	51.0	49.5
5	0	49.3	49.0	50.0	50.0	50.8	50.9	51.0	51.0	51.2	52.0	51.0	49.2
10	0	49.3	49.0	50.0	50.0	50.9	50.9	51.0	51.0	51.2	52.0	51.0	49.2
15	0	49.4	49.0	50.0	49.8	50.7	50.9	51.0	51.0	51.3	52.1	51.0	49.0
20	0	49.4	49.0	50.0	49.5	50.5	50.9	51.0	51.0	51.3	52.0	51.0	48.9
25	0	49.3	48.9	50.0	49.5	50.6	50.8	51.0	51.0	51.5	52.0	51.0	48.8
30	0	49.2	48.9	50.0	49.7	50.7	50.9	51.0	51.0	51.8	52.0	50.7	48.5
35	0	49.0	48.8	50.1	50.0	50.7	50.9	51.0	51.0	51.8	51.9	50.2	48.8
40	0	49.0	48.8	50.2	50.0	50.8	50.9	51.0	51.0	51.9	51.9	50.0	48.6
45	0	49.0	49.0	50.1	50.0	50.9	51.0	51.0	51.0	52.0	51.5	50.0	48.6
50	0	49.0	49.0	50.1	50.1	51.0	51.0	51.0	51.0	52.0	51.4	49.9	48.5
55	0	49.0	49.3	50.0	50.2	50.9	51.0	51.0	51.0	52.1	51.2	49.7	48.8

M. S.		One Scale Division = .00022 parts of the H. F.					HORIZONTAL FORCE.						
2	0	32.0	33.9	33.4	33.7	33.1	33.4	33.7	34.0	34.2	35.2	36.4	37.7
7	0	32.0	34.0	33.5	33.6	33.5	33.5	33.7	33.9	34.2	35.2	36.7	37.7
12	0	32.0	34.0	33.7	33.4	33.7	33.6	33.7	33.8	34.2	35.4	36.7	37.7
17	0	32.0	34.0	33.8	33.6	33.6	33.7	33.9	33.8	34.4	35.5	36.9	37.7
22	0	32.0	34.0	33.9	33.7	33.4	33.7	34.0	33.8	34.5	35.6	37.0	37.8
27	0	32.0	33.9	33.9	33.5	33.3	33.7	33.8	33.8	34.5	35.7	37.1	37.8
32	0	32.3	33.8	33.9	33.4	33.3	33.7	33.8	33.9	34.8	35.8	37.2	37.9
37	0	32.8	33.8	33.9	33.3	33.3	33.7	33.8	34.1	34.8	36.0	37.4	37.9
42	0	33.0	33.9	33.8	33.2	33.3	33.6	33.8	34.1	34.8	36.0	37.6	37.7
47	0	33.5	33.7	33.7	33.1	33.4	33.7	33.9	34.2	34.9	36.2	37.8	37.5
52	0	33.9	33.8	33.8	33.1	33.4	33.6	33.7	34.2	35.0	36.2	37.7	37.4
57	0	33.9	33.7	33.8	33.1	33.5	33.7	33.9	34.2	35.1	36.2	37.6	37.8

Thermometer		59.3	59.5	59.6	59.7	59.7	59.6	59.5	59.4	59.4	59.4	59.3	59.2
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M. S.		One Scale Division = .00014 parts of the V. F.					VERTICAL FORCE.						
3	0	86.4	84.6	84.2	83.5	83.5	82.9	82.8	83.0	82.2	81.8	82.8	83.3
8	0	86.4	84.6	84.2	83.5	83.1	82.9	82.8	83.0	82.2	81.8	82.8	83.3
13	0	86.4	84.6	84.2	84.2	83.1	82.9	82.8	83.0	82.2	81.8	82.8	83.3
18	0	86.0	84.6	83.8	84.2	83.1	82.9	82.8	83.0	82.2	81.8	82.8	84.2
23	0	86.0	84.6	83.8	84.4	83.1	82.9	82.8	83.0	82.2	81.8	82.8	84.2
28	0	86.0	84.6	83.8	84.4	83.1	82.8	82.8	83.0	82.2	81.8	82.8	84.2
33	5	86.0	84.6	83.8	84.4	83.1	82.8	82.8	83.0	82.2	82.2	83.3	83.9
38	0	85.8	84.9	83.5	84.0	83.1	82.8	82.8	82.6	81.8	82.2	83.3	83.9
43	0	85.4	84.9	83.5	84.0	83.1	82.8	82.8	82.6	81.8	82.2	83.3	83.9
48	0	84.9	84.5	83.5	83.9	82.9	82.8	82.5	82.6	81.8	82.2	83.3	83.9
53	0	84.6	84.5	83.5	83.9	82.9	82.8	82.5	82.6	81.8	82.2	83.3	83.9
58	0	84.6	84.2	83.5	83.5	82.9	82.8	82.7	82.2	81.8	82.8	83.3	83.9

Thermometer		59.4	59.7	59.8	59.9	59.8	59.9	59.8	59.7	59.7	59.7	59.7	59.6
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Increasing Numbers denote decreasing Westerly Declination.

METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.				
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
24	10	0	30.070	56.4	54.7	N.	0.3	0.4	Cir. and cir.-strat. round horizon.				
	11	0	30.070	54.6	52.9	N. E.	1.3	0.9	Cum.-strat. and cir.-strat.				
	12	0	30.059	54.1	52.4	N. E.	1.3	0.4	Cir.-strat. and cum. round horizon.				
	13	0	30.059	54.1	52.5	N. E. by N.	1.3	0.8	Cum. and strat.				
	14	0	30.049	53.8	52.2	N. by E.	Light Air.	0.0	A few cum. S. and W.				
	15	0	30.050	52.9	51.4	N.	0.3	0.9	Cum.-strat. and cir.-strat.				
	16	0	30.048	53.0	51.6	N. by E.	0.3	1.0	Dense cum.-strat. and cir.-strat.				
	17	0	30.048	53.0	51.6	N. by E.	0.3	1.0	Dense cum.-strat. and cir.-strat.				
	18	0	30.058	53.1	51.7	N.	0.8	1.0	Cum.-strat.; dense cum. over flats.				
	19	0	30.060	53.0	51.7	N. by W.	0.5	1.0	Cum.-strat. and cir.-strat. blended.				
	20	0	30.070	53.3	51.8	N. by E.	0.5	1.0	Cum. strat. and cir.-strat. blended.				
	21	0	30.076	54.6	53.0	N. by E.	0.8	1.0	Cum.-strat. and cir.-strat. blended.				

MAGNETICAL OBSERVATIONS. June 24th and 25th.

Mean Göttingen Time.		DECLINATION.											
		Angular Value of one Scale Division = 0'.751.											
		22 ^h .	23 ^h .	0 ^h .	1 ^h .	2 ^h .	3 ^h .	4 ^h .	5 ^h .	6 ^h .	7 ^h .	8 ^h .	9 ^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	48.5	48.5	50.2	51.0	51.2	51.0	50.0	49.1	49.4	49.6	50.0	50.0
5	0	48.8	48.8	50.2	51.2	51.8	51.0	50.0	49.1	49.5	49.9	50.0	50.0
10	0	48.9	48.9	50.3	51.2	51.9	51.0	50.0	49.1	49.5	49.9	50.0	50.0
15	0	49.0	49.0	50.8	51.0	51.9	51.0	50.0	49.1	49.6	49.7	50.0	50.0
20	0	49.0	49.0	51.0	51.0	51.6	51.0	49.8	49.0	49.4	49.5	50.0	50.0
25	0	49.0	49.0	51.1	51.0	51.7	51.0	49.6	49.0	49.1	49.5	50.0	50.0
30	0	48.8	49.2	51.0	51.0	51.3	51.0	49.3	49.0	49.0	49.5	50.0	50.0
35	0	48.3	49.3	51.0	51.2	51.1	50.9	49.5	49.0	48.7	49.7	50.0	50.0
40	0	48.3	49.6	51.0	51.2	51.0	50.9	49.4	49.3	48.5	50.0	50.0	50.1
45	0	48.2	49.8	51.0	51.3	50.9	50.9	49.4	49.3	48.9	50.0	50.0	50.1
50	0	48.2	50.0	51.0	51.2	50.9	50.2	49.1	49.3	49.0	50.0	50.0	50.1
55	0	48.5	50.2	51.0	51.1	50.9	50.0	49.0	49.3	49.5	50.1	50.0	50.1

M. S.		HORIZONTAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00022.											
2	0	37.9	39.3	36.6	34.8	32.9	32.1	34.7	35.0	34.5	34.0	33.8	32.0
7	0	38.0	38.4	36.0	34.8	33.0	32.6	34.5	34.5	34.5	33.3	33.8	32.0
12	0	38.1	37.6	36.0	34.1	33.0	32.8	34.7	34.5	34.4	33.3	33.9	31.9
17	0	38.3	37.2	35.9	33.9	32.9	33.0	34.9	34.5	34.5	33.5	33.8	31.8
22	0	37.9	37.0	35.9	33.1	32.8	33.0	34.9	34.5	34.5	33.9	33.7	31.9
27	0	37.8	36.9	35.5	33.0	32.7	33.0	34.9	34.5	34.5	34.2	33.4	32.1
32	0	38.0	37.0	35.5	32.9	32.3	33.1	35.0	34.6	34.4	34.4	33.0	32.1
37	0	38.5	37.0	35.2	32.8	32.1	33.2	35.0	34.7	34.5	34.3	32.5	32.1
42	0	38.5	36.8	35.2	32.5	32.5	33.6	35.0	34.6	34.7	33.9	32.2	32.1
47	0	39.0	37.0	35.0	32.9	32.5	33.9	35.0	34.5	34.6	34.0	32.0	32.1
52	0	39.1	36.9	35.0	32.9	32.2	34.0	35.1	34.5	34.5	34.0	32.0	32.1
57	0	39.4	36.7	34.8	32.7	32.1	34.0	35.0	34.5	34.2	34.0	32.0	32.1

Thermometer	59.1	59.0	58.9	59.0	59.4	59.5	59.7	59.8	59.9	59.9	59.9	60.0
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M. S.		VERTICAL FORCE.											
		Change in the Magnetic moment of the Bar for 1° Fah°. = .00005.											
3	0	83.9	81.1	81.3	82.2	83.7	85.2	85.9	84.7	84.5	83.4	83.5	85.4
8	0	83.3	81.1	82.0	82.2	83.5	85.4	85.9	84.7	84.0	84.0	84.0	85.4
13	0	83.3	81.8	81.5	82.2	83.5	85.4	85.6	84.7	84.0	84.2	84.0	85.4
18	0	82.6	82.2	81.5	83.0	83.5	85.4	85.6	84.9	84.0	84.2	84.0	85.8
23	0	82.6	82.2	81.5	83.5	83.5	85.4	85.6	84.9	84.0	84.2	83.9	85.8
28	0	82.6	82.2	81.5	83.5	83.5	85.4	85.6	84.9	84.0	83.8	84.2	85.8
33	0	83.1	82.2	81.5	83.5	83.8	85.4	85.2	84.9	84.6	83.8	84.2	85.8
38	0	83.1	82.2	82.2	83.5	83.8	85.6	85.0	84.5	84.6	83.3	84.8	85.2
43	0	83.1	82.2	82.2	83.5	84.3	85.6	85.0	84.5	84.6	83.3	85.1	85.2
48	0	82.6	82.2	82.2	83.7	84.3	85.6	85.0	84.5	84.1	83.1	85.4	85.2
53	0	82.6	82.2	82.2	83.7	84.5	85.6	85.0	84.5	83.4	83.1	85.4	85.2
58	0	81.1	81.3	82.2	83.7	84.9	85.9	84.7	84.5	83.4	83.5	85.4	85.2

Thermometer	59.4	59.3	59.3	59.3	59.6	59.7	60.1	60.1	60.2	60.3	60.3	60.3
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and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Extent of Cloudy Sky.	Weather.
D.	H.	M.		Dry.	Wet.	Direction.	Force.		
24	22	0	30.076	56.6	54.6	N. by W.	1.3	1.0	Cum., cum.-strat., and cir.-strat.
	23	0	30.068	57.3	54.6	N. by W.	1.3	1.0	Cum., cum.-strat., and cir.-strat.
25	0	0	30.068	57.9	55.2	N.	1.3	1.0	Cum., cum.-strat., and cir.-strat.
	1	0	30.047	58.8	55.6	N. N. W.	1.3	1.0	Cum.-strat.
	2	0	30.063	58.5	55.2	N. by W.	0.5	1.0	Dense cum.-strat.
	3	0	30.083	58.0	55.2	N. W. by N.	0.5	1.0	Dense cum.-strat.
	4	0	30.099	57.6	54.9	N. N. W.	0.5	1.0	Cum.-strat.
	5	0	30.111	57.2	55.4	N. by W.	0.5	1.0	Nim.; light rain.
	6	0	30.137	56.9	55.6	S.	0.3	1.0	Nim.; drizzling rain.
	7	0	30.152	55.8	54.6	S. by E.	0.3	1.0	Nim.; drizzling rain.
	8	0	30.164	55.0	53.8	S. by E.	0.5	1.0	Nim. and mist.
	9	0	30.180	55.0	54.0	S. by E.	Light Air.	1.0	Dense nim.



CAPE OF GOOD HOPE, 1841 to 1846.

OBSERVATIONS OF THE MAGNETIC INCLINATION.

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.	
			Face of Needle				Face of Needle						
			Direct.		Reversed.		Direct.		Reversed.				
			a	a'	a''	a'''	β	β'	β''	β'''			
1841. D. H.													
June 29 20	1	0 & 180	-52 05.1	-53 57.0	-53 45.1	-52 40.0	-51 05.4	-54 28.5	-56 05.6	-50 55.3	-53 07.8	-53 06.7	
30 9	1	—	-51 49.1	-54 12.1	-53 17.8	-52 47.1	-50 58.2	-54 13.1	-55 36.0	-51 51.6	-53 05.6		
July.	13 22	1	—	-50 37.0	-54 48.8	-53 47.9	-52 50.9	-53 10.3	-54 15.7	-53 12.6	-52 44.9	-53 11.0	-53 07.5
	16 03	1	—	52 42.0	53 16.3	52 37.5	53 24.4	53 56.8	52 29.9	53 55.0	52 35.7	53 07.2	
	19 02	1	—	53 53.9	52 38.0	52 55.9	53 48.8	53 53.8	52 03.1	52 32.8	53 35.0	53 10.2	
	19 20	1	—	53 31.6	52 23.0	51 39.0	54 44.5	54 14.7	52 16.0	52 28.5	53 57.2	53 09.3	
	26 21	1	—	53 54.6	52 01.4	52 10.5	53 52.1	54 09.9	52 13.9	52 24.2	54 04.3	53 06.4	
	30 03	1	—	-54 55.1	-50 35.2	-50 22.9	-55 16.6	-54 21.9	-52 01.0	-52 22.2	-54 12.1	-53 00.9	
August.	2 20	1	—	-53 50.6	-51 59.8	-52 01.8	-53 51.4	-54 10.8	-52 14.7	-52 30.4	-54 00.6	-53 05.0	-53 07.4
	5 20	1	—	53 37.2	52 21.1	51 58.4	53 58.4	54 10.4	52 06.2	52 35.0	53 59.5	53 05.8	
	9 20	1	—	53 46.7	52 11.2	52 05.3	53 45.0	54 10.1	52 09.4	52 18.0	54 16.9	53 05.3	
	13 03	1	—	53 34.5	52 26.4	51 54.3	54 08.9	54 07.6	52 15.0	52 25.0	54 09.0	53 07.6	
	16 20	1	—	53 30.1	52 27.4	51 48.5	54 09.1	54 16.3	51 59.8	52 25.5	54 03.6	53 05.0	
	20 02	1	—	53 50.0	52 22.7	51 42.2	54 04.5	54 10.4	52 16.5	51 33.9	54 35.9	53 04.5	
	23 20	1	—	54 19.4	52 17.1	52 14.2	53 47.3	54 01.9	52 28.5	52 29.0	54 05.5	53 12.9	
	27 03	1	—	53 43.3	52 18.6	52 14.1	53 52.5	54 21.9	52 16.0	52 41.1	54 02.9	53 11.3	
30 20	1	—	-53 34.1	-52 14.9	-52 04.2	-53 53.1	-54 35.3	-52 11.1	-52 28.6	-54 10.9	-53 09.0		
September.	3 03	1	—	-53 39.6	-52 23.4	-52 05.2	-54 02.6	-54 17.7	-52 18.8	-52 42.1	-54 18.7	-53 13.5	-53 09.6
	6 20	1	—	53 29.8	52 25.0	52 01.1	53 54.5	54 15.7	52 18.9	52 32.1	54 00.8	53 07.2	
	10 03	1	—	53 32.5	52 14.0	51 39.5	54 07.0	54 41.0	51 59.7	52 29.7	54 20.1	53 07.9	
	13 20	1	—	53 19.2	52 26.4	51 37.0	54 12.7	54 02.7	52 35.4	52 29.3	54 10.4	53 06.6	
	17 03	1	—	53 40.0	52 20.5	51 59.2	53 54.3	54 02.7	52 33.9	52 30.3	54 10.1	53 08.9	
	17 20	2	—	53 31.8	52 42.4	52 33.1	53 56.4	53 52.0	52 13.2	52 37.8	53 31.7	53 07.3	
	20 20	1	—	53 27.0	52 25.0	51 48.1	54 04.6	54 19.4	52 17.0	52 29.4	54 03.0	53 06.7	
	22 02	2	—	53 39.1	52 46.4	52 35.6	53 59.6	53 54.0	52 22.9	52 38.9	53 38.9	53 11.9	
	24 03	1	—	53 24.5	52 36.0	51 56.2	54 02.3	54 10.4	52 25.3	52 27.0	54 20.7	53 10.3	
	24 20	2	—	53 41.0	52 42.9	52 23.8	54 05.5	54 07.4	52 05.4	52 54.8	53 32.5	53 11.7	
	27 20	1	—	53 42.6	52 03.3	52 02.2	53 44.2	54 21.5	52 12.2	52 29.3	54 06.4	53 05.2	
29 03	2	—	-54 04.4	-52 43.5	-52 20.2	-54 30.3	-54 10.8	-52 09.9	-52 29.5	-53 57.1	-53 18.2		
October.	1 03	1	—	-53 22.2	-52 38.4	-51 47.0	-54 22.3	-54 26.0	-52 13.4	-52 46.2	-54 13.4	-53 13.6	-53 10.9
	1 17	2	—	53 30.7	52 58.4	52 33.8	54 01.6	53 45.8	52 22.5	52 37.2	53 37.1	53 10.9	
	4 20	1	—	53 20.6	52 32.0	51 52.1	53 58.0	53 58.0	52 27.7	52 24.6	54 17.1	53 06.3	
	6 03	2	—	53 54.8	52 52.7	52 40.1	54 03.2	54 00.0	52 17.4	52 40.3	53 41.3	53 16.2	
	8 03	1	—	53 29.1	52 20.3	51 49.3	53 59.6	54 17.0	52 19.3	52 32.5	54 26.7	53 09.2	
	8 20	2	—	53 48.2	52 50.2	52 37.8	53 58.3	53 56.3	52 16.2	52 40.5	53 35.7	53 12.9	
	11 20	1	—	53 39.0	52 07.0	51 49.3	53 55.3	54 13.3	52 24.4	52 26.6	54 14.3	53 06.2	
	13 03	2	—	53 54.2	52 42.9	52 13.2	54 11.8	54 07.8	51 59.4	52 30.9	53 44.9	53 10.6	
	15 03	1	—	53 37.2	52 14.6	52 04.7	53 54.1	54 15.0	52 20.5	52 31.8	54 25.3	53 10.4	
	15 20	2	—	53 43.0	52 41.2	52 37.3	53 55.7	53 58.1	52 14.0	52 42.4	53 29.4	53 10.1	
	18 20	1	—	53 34.5	52 19.5	52 01.0	53 55.5	54 05.5	51 59.6	52 36.8	54 12.5	53 05.6	
	20 03	2	—	53 46.4	52 48.3	52 35.5	53 59.8	53 51.2	52 18.1	52 40.2	53 33.2	53 11.6	
	22 02	1	—	53 25.4	52 21.4	51 48.1	54 04.1	54 14.0	52 21.5	52 17.0	54 27.0	53 07.3	
	22 20	2	—	53 52.9	52 55.5	52 30.6	53 59.0	53 52.9	52 11.1	52 43.3	53 35.0	53 12.5	
25 20	1	—	53 34.5	52 32.8	52 07.4	54 00.5	54 22.5	52 22.3	52 45.4	54 11.5	53 14.6		
27 02	2	—	-53 49.7	-52 53.0	-52 40.7	-54 04.1	-53 51.5	-52 24.1	-52 43.8	-53 42.9	-53 16.2		
November.	1 20	1	—	-53 37.8	-52 17.8	-53 47.6	-52 04.3	-54 08.1	-52 22.3	-52 42.1	-54 02.8	-53 07.9	-53 09.4
	5 03	1	—	53 40.7	52 23.3	51 49.7	53 57.3	54 08.3	52 32.1	52 34.5	54 22.1	53 11.0	
	5 20	2	—	53 42.8	52 51.7	52 37.4	53 52.4	53 49.9	52 22.7	52 44.3	53 35.9	53 12.1	
	8 20	1	—	53 27.1	52 23.8	51 46.5	54 01.7	54 15.8	52 08.0	52 38.9	54 02.8	53 05.6	
	10 02	2	—	53 37.3	52 51.9	52 25.0	54 00.7	53 51.4	52 12.8	52 39.6	53 17.3	53 07.0	
	15 18	1	—	53 35.0	52 15.3	52 01.5	53 58.6	54 17.1	52 17.5	52 26.5	54 13.9	53 08.2	
	19 02	1	—	53 47.5	52 23.6	52 04.0	54 01.3	54 11.0	52 37.3	52 33.1	54 29.9	53 16.0	
	19 20	2	—	53 41.6	52 46.5	52 24.3	54 02.7	53 48.6	52 17.5	52 40.0	53 40.4	53 10.2	
	22 20	1	—	53 40.7	52 18.1	51 57.3	53 49.8	54 16.7	52 20.9	52 42.5	54 03.1	53 08.6	
	26 02	1	—	53 35.5	52 31.1	52 00.3	53 59.5	54 20.4	52 19.6	52 44.6	54 06.0	53 12.1	
26 20	2	—	53 33.5	52 45.9	52 28.2	53 54.7	53 42.0	52 16.5	52 38.7	53 30.7	53 06.3		
29 20	1	—	-53 38.4	-52 15.1	-52 00.0	-53 41.0	-54 09.0	-52 26.9	-52 33.7	-54 15.5	-53 07.5		

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle				Face of Needle					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1841.		° °	° /	° /	° /	° /	° /	° /	° /	° /	° /	° /
December.		0 & 180										
D. H.												
3 02	1	—	-53 48.4	-52 22.2	-52 13.5	-53 56.9	-54 33.9	-52 24.9	-52 57.0	-54 10.8	-53 18.5	-53 10.3
3 20	2	—	53 49.3	52 37.6	52 30.8	53 57.5	53 49.2	52 15.8	52 47.7	53 35.5	53 10.4	
6 20	1	—	53 37.7	52 17.8	51 52.9	53 59.3	54 10.7	52 19.5	52 26.5	54 21.8	53 08.3	
10 02	1	—	53 44.3	52 21.6	52 02.9	54 04.0	54 17.2	52 23.5	52 38.4	54 22.8	53 14.3	
10 20	2	—	53 43.5	52 42.6	52 27.2	53 56.9	53 43.0	52 24.7	53 39.0	53 37.0	53 16.7	
13 20	1	—	53 33.5	52 20.4	51 50.5	53 57.2	53 59.8	52 25.0	52 23.8	54 10.9	53 05.1	
17 03	1	—	53 36.2	52 25.0	51 52.4	53 59.4	54 11.8	52 19.6	52 35.5	54 15.5	53 09.4	
17 20	2	—	53 44.2	52 36.8	52 32.9	53 44.6	53 54.7	52 19.7	52 44.5	53 36.4	53 09.2	
20 20	1	—	53 31.4	52 25.6	51 54.7	53 53.4	54 07.2	52 23.3	52 28.4	54 10.2	53 06.8	
24 01	1	—	53 35.9	52 19.8	51 56.6	53 58.5	54 07.2	52 22.4	52 32.6	54 18.3	53 08.9	
27 20	1	—	53 36.0	52 12.1	51 52.6	53 56.3	54 02.6	52 23.0	52 30.1	54 10.6	53 05.4	
30 20	1	—	53 42.4	52 13.2	51 58.9	54 00.4	54 17.4	52 18.3	52 43.6	54 09.2	53 10.4	
31 02	1	—	-53 38.8	-52 19.7	-51 58.8	-53 57.0	-54 20.3	-52 15.3	-52 29.5	-54 19.3	-53.09.8	
1842.												
January.												
D. H.												
3 20	1	—	-53 50.3	-51 58.5	-52 17.7	-53 34.5	-54 15.5	-52 32.7	-52 18.0	-54 08.5	-53 07.0	-53 09.0
5 03	2	—	53 58.4	52 27.0	52 41.3	53 55.0	53 38.7	52 40.0	52 16.4	54 01.1	53 12.2	
7 03	1	—	54 04.5	51 59.8	52 38.8	53 35.4	54 20.0	52 28.7	52 25.7	54 09.0	53 12.7	
7 20	2	—	53 50.2	52 33.1	52 45.5	53 44.0	53 35.4	52 47.1	52 16.9	53 47.9	53 10.0	
10 20	1	—	54 20.3	51 27.5	52 28.6	53 23.4	54 24.6	52 19.5	52 16.2	54 03.3	53 05.4	
12 03	2	—	54 13.9	52 16.3	52 43.7	53 52.1	53 36.4	52 47.3	52 18.2	54 05.3	53 14.2	
14 03	1	—	54 10.2	51 54.1	52 19.4	53 29.8	54 36.2	52 27.3	52 15.1	54 08.5	53 10.1	
14 20	2	—	54 11.5	52 03.8	52 30.2	53 57.8	53 30.8	52 46.7	52 10.0	53 55.7	53 08.3	
17 20	1	—	53 32.3	51 27.5	53 05.6	53 06.7	54 16.8	52 46.8	52 41.6	54 20.5	53 09.7	
19 03	2	—	54 08.7	52 16.2	52 44.0	53 56.2	53 46.6	52 39.2	52 16.1	53 57.1	53 13.0	
21 03	1	—	54 10.8	51 43.3	52 05.1	53 33.9	54 30.1	52 22.6	52 11.0	54 11.0	53 06.0	
21 20	2	—	53 58.7	52 16.6	52 39.9	53 42.3	53 35.7	52 37.6	52 09.8	53 53.6	53 06.8	
24 20	1	—	54 11.3	51 40.0	52 14.9	53 27.5	54 25.0	52 16.7	52 11.0	54 19.5	53 05.7	
26 03	2	—	54 11.1	52 13.6	52 27.5	53 59.0	53 36.5	52 40.4	52 06.4	54 03.2	53 09.7	
28 03	1	—	54 06.8	51 44.0	52 19.0	53 28.3	54 16.1	52 23.1	52 18.1	54 12.5	53 06.0	
28 20	2	—	53 55.3	52 26.2	52 37.7	53 52.3	53 31.8	52 42.4	52 08.7	54 00.0	53 09.3	
31 20	1	—	-54 11.8	-51 47.5	-51 47.3	-54 08.4	-54 13.1	-52 37.3	-52 08.7	-54 04.7	-53 07.4	
February.												
D. H.												
2 03	2	—	-54 03.9	-52 16.0	-52 38.5	-53 54.6	-53 39.5	-52 46.3	-52 01.6	-54 02.3	-53 10.3	-53 09.6
4 03	1	—	54 16.0	51 35.5	52 20.9	53 11.7	54 29.1	52 33.3	52 03.9	54 25.8	53 07.0	
4 20	2	—	53 42.9	52 45.5	52 41.0	53 48.5	53 35.3	52 42.8	52 15.3	53 58.9	53 11.3	
7 20	1	—	54 07.0	51 47.1	52 15.4	53 26.2	54 35.2	52 18.7	52 21.4	54 44.5	53 11.9	
9 03	2	—	54 09.2	52 10.3	52 41.0	53 47.7	53 42.5	52 45.3	52 10.6	53 58.7	53 10.7	
11 03	1	—	54 09.2	51 47.9	52 20.6	53 10.1	54 19.8	52 35.9	52 28.2	54 00.1	53 06.5	
11 20	2	—	54 03.1	52 23.3	52 44.6	53 47.0	53 39.9	52 44.8	52 09.5	53 59.2	53 11.4	
14 20	1	—	54 27.7	51 29.5	52 13.8	53 30.6	54 18.6	52 06.0	52 34.4	54 13.7	53 06.8	
16 03	2	—	54 00.0	52 35.8	53 06.0	53 50.5	53 35.4	52 44.6	52 10.2	53 56.4	53 14.9	
18 03	1	—	54 09.9	51 28.6	52 28.3	53 22.3	54 24.0	52 27.4	52 19.7	54 20.8	53 07.6	
18 20	2	—	54 13.9	52 06.0	52 45.1	53 55.3	53 43.4	52 45.9	52 15.2	54 06.1	53 13.6	
21 20	1	—	54 29.5	51 18.1	52 18.5	53 34.8	54 26.9	52 14.6	52 17.9	54 17.0	53 07.2	
23 03	2	—	54 06.1	52 12.5	52 40.4	53 56.2	53 37.5	52 43.5	52 05.7	54 02.6	53 10.6	
25 03	1	—	54 10.5	51 23.7	52 17.3	53 22.6	54 22.6	52 20.0	52 12.3	54 22.2	53 03.9	
25 20	2	—	54 01.6	52 40.1	52 41.1	53 56.6	53 45.3	52 46.1	51 56.0	54 07.9	53 14.3	
28 20	1	—	-54 10.0	-51 28.5	-52 22.7	-53 27.6	-54 25.4	-52 10.3	-52 02.7	-54 35.8	-53 05.4	
March.												
D. H.												
2 03	2	—	-53 58.0	-52 23.8	-52 35.9	-53 56.0	-53 40.3	-52 39.8	-51 49.4	-54 06.5	-53 08.7	-53 10.5
4 03	1	—	54 21.3	51 24.1	52 21.5	53 37.4	54 40.6	51 36.8	51 48.4	54 37.0	53 03.4	
4 20	2	—	54 09.9	52 18.0	52 37.0	53 55.9	53 40.0	52 39.5	52 06.6	53 59.1	53 10.8	
7 20	1	—	54 14.6	51 47.6	52 19.9	53 32.1	54 50.5	51 51.7	52 10.9	54 36.7	53 10.5	
9 03	2	—	54 05.0	52 21.5	52 40.7	53 48.9	53 40.0	52 41.6	52 08.1	53 55.7	53 10.2	
11 03	1	—	54 22.0	52 42.5	52 18.4	53 35.4	54 41.3	51 41.7	52 06.3	54 26.0	53 14.2	
11 20	2	—	54 04.2	52 21.5	52 38.1	53 45.8	53 42.3	52 38.2	52 03.7	54 01.8	53 09.5	
14 20	1	—	54 00.7	52 17.5	52 25.5	53 28.3	54 22.2	51 43.6	52 27.9	54 29.4	53 09.4	
16 03	2	—	-53 59.3	-52 17.8	-52 40.5	-53 41.7	-53 40.5	-52 42.7	-52 01.3	-53 57.1	-53 07.6	

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle.				Face of Needle.					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1842.												
I.H.												
March—continued.	1	0 & 180	-54 17.1	-52 19.9	-52 12.7	-53 45.6	-54 49.3	-51 37.2	-51 37.3	-54 59.1	-53 12.3	
	2	—	54 03.0	52 20.2	52 45.9	53 52.8	53 41.1	52 39.1	52 12.0	54 04.2	53 12.3	
	1	—	54 04.1	52 02.8	52 20.4	53 27.1	54 12.5	52 12.2	52 08.9	54 27.1	53 06.9	
	2	—	53 58.6	52 25.0	52 44.4	53 50.6	53 41.2	52 44.6	52 18.5	53 57.1	53 12.5	
	1	—	54 15.6	52 11.3	52 07.4	53 51.0	54 26.9	52 29.2	52 30.2	54 44.9	53 19.6	
	2	—	53 58.9	52 25.8	52 45.0	53 47.4	53 46.0	52 32.1	52 01.0	54 09.1	53 10.7	
	1	—	54 00.5	52 20.2	52 21.4	53 34.8	54 05.5	52 27.1	52 19.9	54 18.7	53 11.0	
	2	—	-54 44.3	-51 40.5	-52 32.7	-53 45.1	-54 09.0	-52 11.0	-51 34.5	-54 31.2	-53 08.5	
April.	1	—	-54 17.6	-52 18.0	-52 17.1	-53 40.5	-54 27.1	-52 18.4	-52 16.4	-54 21.9	-53 14.6	
	2	—	54 03.5	52 23.2	52 46.3	53 49.8	53 41.5	52 39.9	52 09.3	54 00.8	53 11.8	
	1	—	54 12.5	52 10.8	52 18.9	53 37.7	54 40.4	52 05.3	52 02.4	54 31.6	53 12.5	
	2	—	54 07.5	52 24.6	52 45.6	53 56.5	53 40.4	52 44.4	52 06.0	54 04.1	53 13.6	
	1	—	54 12.3	52 10.7	52 08.6	53 36.7	54 15.1	52 31.7	52 10.8	54 26.7	53 11.6	
	2	—	54 07.5	52 23.1	52 51.1	53 46.9	53 46.5	52 41.1	52 20.3	54 01.0	53 14.7	
	1	—	53 46.8	51 53.2	52 28.2	53 34.0	54 24.9	52 12.9	52 14.6	54 23.5	53 07.3	
	2	—	54 20.1	52 28.7	53 03.4	53 53.6	53 54.1	52 47.0	52 21.8	54 08.6	53 22.2	
	1	—	54 16.2	52 22.6	52 28.1	53 47.7	54 31.2	52 32.1	52 15.3	54 38.4	53 21.5	-53 13.8
	2	—	54 07.2	52 23.5	52 53.1	53 47.2	53 42.6	52 44.2	52 22.4	54 13.3	53 16.7	
	1	—	54 13.7	52 18.8	52 17.4	53 45.3	54 17.9	52 30.6	52 11.4	54 27.0	53 15.3	
	2	—	54 08.5	52 20.3	52 45.4	53 50.7	53 48.6	52 37.0	52 09.1	54 02.8	53 12.8	
	1	—	53 56.2	52 13.0	52 15.0	53 43.1	54 15.0	52 21.1	51 59.9	54 29.5	53 09.1	
	2	—	54 16.2	52 07.6	52 46.1	53 45.6	53 45.6	52 36.0	52 06.2	53 59.9	53 10.4	
	1	—	54 16.6	52 08.2	52 19.4	53 37.4	54 16.7	52 30.8	52 14.2	54 25.2	53 13.6	
	2	—	-54 09.2	-52 14.5	-52 48.1	-53 47.7	-53 51.9	-52 34.2	-52 08.7	-54 05.1	-53 12.4	
May.	1	—	-54 07.6	-52 05.6	-52 14.6	-53 40.9	-54 15.6	-52 26.8	-53 16.3	-54 19.6	-53 18.4	
	2	—	54 13.3	52 12.2	52 43.7	53 49.9	53 45.0	52 36.5	52 04.8	54 05.4	53 11.4	
	1	—	54 09.8	52 10.1	52 14.5	53 42.0	54 35.1	52 12.3	52 11.0	54 25.1	53 12.5	
	2	—	54 16.4	52 02.5	52 45.0	53 52.7	53 54.1	52 34.5	52 04.2	54 16.5	53 13.2	
	1	—	54 10.4	52 14.4	52 23.2	53 39.3	54 21.1	52 38.8	52 20.0	54 21.6	53 16.1	
	2	—	54 18.8	52 11.4	52 45.2	53 55.6	53 56.0	52 32.3	52 05.2	54 08.3	53 14.1	
	1	—	54 19.4	52 08.4	52 12.1	53 41.6	54 20.9	52 32.9	52 14.5	54 24.7	53 14.3	
	2	—	54 07.3	52 11.5	52 45.4	53 44.2	53 48.7	52 26.6	52 04.9	54 03.0	53 09.0	
	1	—	54 10.6	52 08.2	52 25.1	53 41.4	54 23.3	52 22.8	52 22.4	54 19.5	53 14.2	-53 12.7
	2	—	54 16.8	52 16.0	52 52.0	53 46.3	54 01.6	52 02.4	52 14.1	54 04.5	53 11.7	
	1	—	54 11.2	52 19.2	52 09.5	53 47.3	54 15.5	52 27.0	52 14.5	54 25.9	53 13.8	
	2	—	54 11.4	52 10.0	52 48.2	53 45.8	53 44.8	52 24.3	52 04.5	53 56.0	53 08.1	
	1	—	54 04.1	52 09.2	52 25.2	53 41.7	54 20.2	52 23.5	52 15.6	54 22.9	53 12.8	
	2	—	54 10.6	52 20.0	52 45.1	53 45.3	53 44.2	52 35.4	52 01.1	54 04.7	53 10.8	
	1	—	54 10.8	52 21.8	52 15.9	53 47.2	54 07.9	52 25.4	52 08.4	54 27.4	53 13.1	
	2	—	54 14.2	52 15.7	52 45.8	53 48.9	53 48.6	52 33.4	52 06.3	54 07.0	53 12.5	
	1	—	-53 59.6	-52 08.4	-52 12.8	-53 44.7	-54 06.8	-52 29.9	-52 10.4	-54 24.9	-53 09.7	
June.	2	—	-54 23.2	-52 07.9	-52 46.8	-53 50.4	-53 52.4	-52 30.7	-52 04.6	-54 00.7	-53 12.1	
	1	—	54 14.4	52 14.3	52 20.9	53 46.4	54 06.5	52 35.2	52 08.7	54 31.1	53 14.7	
	2	—	54 17.9	52 08.7	52 45.2	53 46.6	54 01.4	52 19.1	52 02.9	54 04.0	53 10.7	
	1	—	54 15.6	51 54.6	52 18.0	53 41.8	54 14.8	52 33.7	52 13.1	54 25.5	53 12.1	
	2	—	54 46.1	51 49.1	52 37.1	54 08.9	54 05.0	52 20.5	52 02.1	54 06.4	53 14.4	
	1	—	54 03.2	51 55.0	52 14.6	53 37.3	54 17.2	52 25.8	52 07.8	54 26.3	53 08.4	
	2	—	54 10.9	52 14.7	52 45.0	53 48.6	53 56.5	52 25.3	52 04.9	53 59.8	53 10.7	
	1	—	54 06.5	52 04.8	52 15.8	53 40.3	54 23.9	52 19.5	52 27.6	54 22.6	53 12.6	
	2	—	54 26.5	52 09.7	52 49.2	53 53.2	53 57.5	52 30.4	52 10.2	53 56.1	53 14.1	-53 12.7
	1	—	54 26.3	51 46.5	52 03.5	53 45.3	54 25.2	51 40.5	52 18.8	54 32.5	53 07.3	
	2	—	54 10.8	52 13.5	52 45.8	53 46.9	53 57.6	52 28.7	52 05.0	54 02.1	53 11.3	
	1	—	54 14.5	52 21.2	52 18.0	53 44.9	54 23.1	52 25.3	52 14.4	54 35.4	53 17.1	
	2	—	54 19.6	52 12.3	52 46.6	53 44.5	53 53.5	52 34.0	52 06.0	54 04.7	53 12.7	
	1	—	54 15.9	52 22.8	52 23.3	53 51.5	54 09.1	52 47.3	52 21.5	54 32.4	53 20.5	
	2	—	54 12.9	52 16.2	52 43.8	53 53.5	53 44.6	52 38.9	52 09.6	53 57.4	53 12.1	
	1	—	53 35.4	52 20.7	52 16.6	53 44.1	54 18.1	52 31.2	52 22.4	54 28.9	53 12.2	
	2	—	-54 13.0	-52 18.0	-52 54.2	-53 38.5	-53 56.8	-52 30.3	-52 03.8	-54 02.8	-53 12.2	

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle				Face of Needle					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1842.												
D. H. M.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	
July.	1 03 0	1	0 & 180	-54 15.8	-52 25.4	-52 17.3	-53 47.8	-54 20.3	-52 34.7	-52 06.0	-54 35.2	-53 17.8
	1 20 0	2	—	54 13.4	52 18.4	52 47.1	53 46.6	53 51.7	52 33.8	52 06.3	54 02.5	53 12.5
	4 20 0	1	—	54 15.6	52 25.3	52 26.5	53 47.6	54 34.1	52 19.4	52 15.0	54 36.1	53 20.0
	6 03 0	2	—	54 21.6	52 11.4	52 49.5	53 44.7	53 58.3	52 33.1	52 03.2	54 07.7	53 13.7
	8 20 0	2	—	54 12.0	52 17.5	52 45.1	53 45.6	53 54.5	52 36.7	51 54.1	54 10.4	53 12.0
	11 20 0	1	—	54 04.8	52 23.8	52 17.9	53 47.8	54 16.0	52 23.0	52 09.5	54 28.7	53 13.9
	13 03 0	2	—	54 19.4	52 11.0	52 42.4	53 48.4	53 55.1	52 35.1	52 06.1	54 06.4	53 13.0
	15 03 0	1	—	54 05.7	52 34.6	52 31.2	53 41.0	54 09.8	52 33.5	52 36.0	54 04.7	53 17.1
	15 20 ^a 0	2	—	53 57.4	52 33.6	52 51.9	53 36.4	53 44.3	52 42.8	52 23.7	53 46.4	53 12.1
	18 20 0	1	—	54 07.5	52 30.3	52 34.5	53 37.8	54 06.0	52 28.3	52 36.2	53 59.5	53 15.0
	20 03 0	2	—	54 31.1	52 02.1	52 36.6	53 59.3	53 48.7	52 42.4	52 03.8	54 05.3	53 13.7
	22 03 0	1	—	54 07.9	52 35.5	52 34.8	53 42.9	54 10.6	52 39.9	52 28.4	54 09.4	53 18.7
	22 20 0	2	—	54 25.2	51 55.4	52 29.0	53 56.1	53 45.0	52 39.1	52 09.9	54 04.1	53 10.5
	25 20 0	1	—	53 59.4	52 30.4	52 32.6	53 35.3	54 08.6	52 33.8	52 28.7	54 05.2	53 14.3
27 03 0	2	—	54 24.0	52 14.1	52 35.3	53 57.5	53 56.2	52 35.0	52 03.4	54 09.3	53 14.4	
29 03 0	1	—	53 58.5	52 37.3	52 31.6	53 47.1	54 07.8	52 40.9	52 28.8	54 11.5	53 17.9	
29 20 0	2	—	-54 16.3	-52 11.3	-52 36.0	-53 55.4	-53 49.4	-52 39.5	-52 06.0	-54 04.8	-53 12.3	
August.	1 20 0	1	—	-54 05.3	-52 33.4	-52 35.5	-53 41.0	-54 04.4	-52 39.3	-52 31.0	-54 08.0	-53 17.2
	3 03 0	2	—	54 14.9	52 17.1	52 39.5	53 52.1	53 54.9	52 36.3	52 04.1	54 07.6	53 13.3
	5 03 0	1	—	54 05.5	52 34.8	52 36.8	53 44.5	54 15.5	52 38.3	52 35.2	53 12.4	53 20.4
	5 20 0	2	—	54 05.7	52 32.3	52 54.0	53 40.3	53 46.1	52 41.3	52 20.7	53 54.6	53 14.4
	8 20 0	1	—	54 04.0	52 32.5	52 31.3	53 44.0	54 04.6	52 40.6	52 30.0	54 09.7	53 17.1
	10 03 0	2	—	54 03.3	52 37.2	52 53.4	53 40.5	53 48.3	52 47.6	52 19.5	53 51.7	53 15.2
	12 03 0	1	—	54 06.5	52 31.5	52 33.5	53 45.4	54 16.8	52 40.4	52 31.5	54 11.7	53 19.7
	12 20 0	2	—	54 02.1	52 26.8	52 51.5	53 33.7	53 46.6	52 40.7	52 20.4	53 51.3	53 11.6
	15 20 0	1	—	54 02.5	52 31.4	52 34.9	53 44.5	54 18.6	52 30.0	52 30.6	54 14.5	53 18.4
	17 03 0	2	—	54 06.2	52 29.3	52 54.4	53 37.3	53 47.1	52 45.1	52 22.5	53 52.3	53 14.3
	19 03 0	1	—	54 09.8	52 34.1	52 41.6	53 41.3	54 22.0	52 37.9	52 41.0	54 08.4	53 22.0
	19 20 0	2	—	54 01.1	52 31.5	52 53.2	53 38.1	53 46.9	52 42.5	52 23.2	53 49.2	53 13.2
	22 20 0	1	—	54 03.5	52 28.6	52 35.6	53 40.2	54 11.3	52 34.0	52 35.6	54 05.3	53 16.8
	24 03 0	2	—	54 02.6	52 35.0	52 49.3	53 40.1	53 48.0	52 46.0	52 15.6	54 00.6	53 14.7
26 03 0	1	—	54 04.9	52 35.1	52 39.6	53 41.8	54 18.0	52 23.4	52 38.0	54 02.9	53 18.0	
26 20 0	2	—	54 01.0	52 34.2	52 53.1	53 37.3	53 45.7	52 41.9	52 17.0	53 57.7	53 13.5	
29 20 0	1	—	54 04.6	52 28.2	52 38.8	53 38.2	54 12.7	52 34.8	52 35.2	54 04.3	53 17.1	
31 03 0	2	—	-54 05.3	-52 28.6	-52 52.6	-53 44.0	-53 43.8	-52 46.3	-52 17.5	-53 58.3	-53 14.7	
September.	2 02 30	1	—	-53 39.7	-52 42.5	-52 30.8	-54 09.3	-54 14.3	-52 34.3	-52 46.9	-54 16.6	-53 21.8
	5 19 30	1	—	53 37.8	52 39.2	52 29.7	54 04.1	54 03.7	52 34.9	52 38.0	54 12.7	53 17.5
	9 02 30	1	—	53 36.2	52 42.0	52 27.4	54 07.7	54 01.6	52 32.9	52 37.8	54 09.8	53 16.9
	12 19 30	1	—	53 39.6	52 39.9	52 29.3	54 03.4	54 02.8	52 31.5	52 37.3	54 06.9	53 16.3
	16 02 30	1	—	53 40.8	52 34.5	52 34.6	54 07.3	54 12.2	52 29.1	52 42.6	54 09.5	53 18.8
	19 19 30	1	—	53 45.3	52 31.5	52 28.8	54 01.9	54 02.4	52 31.7	52 33.2	54 14.3	53 16.1
	23 02 30	1	—	53 45.9	52 34.0	52 34.0	54 00.3	54 04.8	52 37.0	52 36.4	54 12.0	53 18.1
	26 19 30	1	—	53 41.7	52 34.0	52 17.4	54 00.2	54 06.5	52 31.2	52 40.7	54 03.5	53 14.4
	28 19 30	2	—	53 38.3	52 52.6	52 31.5	54 00.0	53 52.8	52 25.6	52 44.8	53 52.8	53 14.8
	30 02 30	1	—	53 39.9	52 35.2	52 10.4	54 09.4	54 09.9	52 33.6	52 32.8	54 06.8	53 14.8
30 19 30	2	—	-53 46.6	-52 50.3	-52 31.6	-53 57.1	-54 00.1	-52 28.9	-52 42.1	-53 41.1	-53 14.7	
October.	3 19 30	1	—	-53 40.7	-52 35.2	-52 29.0	-54 00.4	-54 01.6	-52 32.2	-52 37.4	-54 06.1	-53 15.3
	5 02 30	2	—	53 36.6	52 51.4	52 25.7	54 02.4	53 55.2	52 21.3	52 46.0	53 49.0	53 13.5
	7 02 30	1	—	53 39.4	52 39.6	52 19.0	53 56.8	54 05.8	52 28.1	52 35.8	54 09.3	53 14.2
	7 19 30	2	—	53 31.6	52 54.6	52 25.2	54 02.8	53 52.9	52 17.2	52 41.3	53 43.0	53 11.1
	10 19 30	1	—	53 41.3	52 32.8	52 27.9	54 06.4	54 03.0	52 37.0	52 28.0	54 04.7	53 15.1
	12 02 30	2	—	53 28.6	52 56.6	52 24.0	54 05.1	53 59.8	52 30.6	52 45.4	53 46.0	53 14.5
	14 02 30	1	—	53 36.9	52 38.0	52 19.5	53 51.2	53 54.4	52 39.2	52 55.8	53 58.9	53 14.2
14 19 30	2	—	53 39.9	52 54.6	52 28.0	53 57.8	54 01.7	52 31.8	52 45.6	53 45.5	53 15.6	
17 19 30	1	—	-53 37.8	-52 41.2	-52 30.8	-54 09.2	-53 55.8	-52 36.9	-52 22.6	-54 11.6	-53 15.7	

^a New bars for magnetizing the needle taken into use.

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle				Face of Needle					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1842.												
October-continued.		0 & 180										
D. H. M.												
19 02 30	2		-53 52.4	-52 43.4	-52 29.4	-54 02.4	-53 56.6	-52 16.2	-52 39.4	-53 49.2	-53 13.6	
21 02 30	1		53 36.1	52 39.8	52 20.6	53 49.0	53 55.7	52 38.6	52 46.3	54 03.1	53 13.7	
21 19 30	2		53 38.9	52 52.8	52 25.3	54 06.0	53 56.6	52 17.2	52 43.0	53 49.3	53 13.6	
24 19 30	1		53 42.7	52 39.0	52 33.2	53 43.0	54 02.0	52 47.8	52 49.4	53 59.3	53 17.1	
26 02 30	2		53 40.2	52 57.2	52 30.4	54 06.3	53 58.8	52 19.9	52 45.6	53 45.2	53 15.5	
28 02 30	1		53 43.9	52 34.4	52 38.6	53 39.2	54 03.5	52 46.6	52 48.0	54 03.0	53 17.2	
28 19 30	2		53 40.2	52 47.2	52 34.0	54 00.9	54 02.3	52 11.6	52 42.6	53 44.4	53 12.9	
31 19 30	1		-53 34.9	-52 43.8	-52 32.4	-53 53.8	-54 01.1	-52 41.4	-52 50.4	-54 01.2	-53 17.4	
November.												
2 02 30	2		-53 53.6	-52 45.2	-52 37.6	-54 06.4	-53 57.6	-52 16.0	-52 46.6	-53 42.4	-53 15.7	
4 02 30	1		53 33.3	52 46.8	52 19.9	53 55.0	53 57.5	52 41.4	52 47.6	54 03.0	53 15.6	
4 19 30	2		53 48.6	52 56.8	52 44.4	54 05.5	54 00.6	52 16.2	52 45.2	53 45.4	53 17.8	
7 19 30	1		53 36.2	52 39.6	52 30.8	53 54.8	53 53.8	52 43.0	52 46.8	54 05.1	53 16.3	
9 02 30	2		53 40.6	52 50.8	52 33.2	54 03.8	53 55.3	52 19.8	52 41.8	53 48.2	53 14.2	
11 02 30	1		53 32.8	52 46.0	52 38.0	54 00.2	53 55.6	52 48.8	52 38.3	54 07.5	53 18.4	
11 19 30	2		53 39.8	52 42.6	52 34.2	54 03.2	54 03.9	52 18.4	52 47.0	53 44.8	53 14.2	
14 19 30	1		53 36.1	52 46.2	52 38.3	53 52.2	53 56.4	52 34.0	52 46.9	54 00.3	53 16.3	
16 02 30	2		53 45.0	52 52.3	52 43.7	54 05.0	54 04.3	52 15.0	52 52.0	53 45.8	53 17.9	
18 02 30	1		53 45.4	52 41.4	52 38.2	53 49.0	53 53.1	52 46.2	52 45.8	54 03.0	53 17.8	
18 19 30	2		53 47.9	52 53.2	52 35.1	54 02.8	53 58.3	52 18.7	52 44.6	53 45.6	53 15.8	
21 19 30	1		53 37.0	52 47.3	52 38.4	53 53.8	53 59.6	52 43.0	52 51.2	54 00.0	53 18.8	
23 02 30	2		53 46.5	52 57.4	52 39.6	54 07.0	53 57.8	52 24.4	52 46.8	53 48.6	53 18.5	
25 02 30	1		53 31.8	52 47.8	52 31.0	53 56.0	53 55.1	52 42.5	52 44.9	54 01.5	53 16.3	
25 19 30	2		53 40.5	52 57.0	52 37.5	54 05.1	53 55.1	52 19.1	52 47.5	53 46.4	53 16.0	
28 19 30	1		53 31.7	52 47.2	52 25.6	53 59.0	53 58.0	52 43.9	52 45.6	53 56.8	53 16.0	
30 02 30	2		-53 45.0	-52 56.3	-52 42.8	-54 04.4	-54 06.0	-52 25.2	-52 44.6	-53 48.4	-53 19.1	
December.												
2 02 30	1		-53 39.8	-52 37.4	-52 15.8	-53 56.6	-54 00.5	-52 48.8	-52 43.1	-54 02.8	-53 15.6	
2 19 30	2		53 46.8	52 49.0	52 35.7	54 01.4	54 00.2	52 21.8	52 45.2	53 44.6	53 15.6	
5 19 30	1		53 39.0	52 46.4	52 18.4	53 58.0	53 57.1	52 45.2	52 45.8	53 57.6	53 15.9	
7 02 30	2		53 42.9	52 55.7	52 36.8	54 05.9	54 03.1	52 22.4	52 46.8	53 47.9	53 17.7	
9 02 30	1		53 41.7	52 50.2	52 19.1	53 53.6	54 02.6	52 49.3	52 45.2	54 03.7	53 18.2	
9 19 30	2		53 47.7	52 57.3	52 39.3	54 08.0	54 03.4	52 23.2	52 45.0	53 52.3	53 19.5	
12 19 30	1		53 39.8	52 47.2	52 17.6	53 48.6	54 06.2	52 39.3	52 49.8	53 53.2	53 15.2	
14 02 30	2		53 48.2	52 57.2	52 37.7	54 04.5	54 02.2	52 20.2	52 48.0	53 48.0	53 18.3	
16 02 30	1		53 40.4	52 50.6	52 15.9	53 49.9	54 06.8	52 46.8	52 51.0	53 58.6	53 17.5	
16 19 30	2		53 44.2	52 50.2	52 35.6	54 02.6	54 04.8	52 17.1	52 56.2	53 43.8	53 16.8	
19 19 30	1		53 39.2	52 51.6	52 14.4	53 57.0	54 02.7	52 43.2	52 45.6	53 59.8	53 16.7	
21 02 30	2		53 46.0	52 50.1	52 38.8	54 02.2	54 05.4	52 20.3	52 47.8	53 46.4	53 17.1	
21 02 30	1		53 43.2	52 48.2	52 16.8	54 01.0	54 12.4	52 43.0	52 53.6	53 57.3	53 19.4	
23 19 30	2		53 41.4	52 50.2	52 32.2	54 04.5	54 03.5	52 19.8	52 47.8	53 44.4	53 15.5	
26 19 30	1		53 39.2	52 49.8	52 15.0	54 01.0	54 01.5	52 46.6	52 45.1	54 00.2	53 17.3	
28 02 30	2		53 45.6	52 49.4	52 36.8	54 03.1	54 05.4	52 18.1	52 49.1	53 44.7	53 16.5	
30 02 30	1		53 38.4	52 51.3	52 15.5	54 02.5	54 00.6	52 50.2	52 49.0	54 04.5	53 19.0	
30 19 30	2		-53 46.2	-52 49.6	-52 32.2	-54 04.1	-54 03.9	-52 18.3	-52 49.6	-53 41.6	-53 15.7	
1843.												
January.												
3 19 0	1		-53 33.0	-52 51.3	-52 13.6	-54 00.8	-53 56.4	-52 44.6	-52 48.4	-54 02.2	-53 16.3	
4 02 0	2		53 45.2	52 48.6	52 36.6	53 58.8	54 04.3	52 17.4	52 50.4	53 40.6	53 15.2	
6 02 0	1		53 41.3	52 50.2	52 19.2	53 59.5	53 57.6	52 50.6	52 48.2	54 04.8	53 18.9	
7 19 0	2		53 43.8	52 45.8	52 37.2	53 53.9	54 07.2	52 17.4	52 44.4	53 42.3	53 14.0	
10 19 0	1		53 39.0	52 50.8	52 17.2	53 59.9	53 58.9	52 44.8	52 48.6	53 55.2	53 16.8	
11 02 0	2		53 47.2	52 43.6	52 36.2	53 56.9	54 01.9	52 20.0	52 47.7	53 42.4	53 14.5	
13 02 0	1		53 38.5	52 50.0	52 18.0	54 00.5	54 01.8	52 47.0	52 50.0	54 02.0	53 18.5	
14 19 0	2		53 45.6	52 52.8	52 38.2	54 00.5	54 03.8	52 20.8	52 48.8	53 43.0	53 16.7	
17 19 0	1		53 37.4	52 48.1	52 13.2	54 00.4	53 57.8	52 45.3	52 44.4	53 57.0	53 15.5	
20 02 0	1		53 42.6	52 36.0	52 20.5	53 58.0	54 01.7	52 45.4	52 50.6	53 57.0	53 16.5	
21 19 0	2 ^a		-53 12.9	-53 29.2	-51 45.6	-54 37.4	-54 34.7	-51 48.0	-53 46.9	-52 49.7	-53 15.5	

^a This needle received a fall since last observed with.

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Arithmetical Means.	Inclination.	Monthly Means.	
			Face of Needle				Face of Needle							
			Direct.		Reversed.		Direct.		Reversed.					
			α	α'	α''	α'''	β	β'	β''	β'''				
1843.														
Jan.—cont. ^a														
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
24 19	1	0 & 180	-53 39.6	-52 38.8	-52 18.8	-54 02.4	-54 00.5	-52 45.0	-52 50.4	-54 01.4	—	-53 17.1		
25 02	2	—	53 17.8	53 25.1	51 59.4	54 33.8	54 37.2	51 46.6	53 18.6	53 09.1	—	53 16.0		
27 02	1	—	53 37.4	52 39.6	52 19.5	54 00.2	54 02.7	52 46.4	52 49.3	53 58.5	—	53 16.7		
28 19	2	—	53 13.0	53 23.8	51 53.2	54 36.4	54 36.4	51 44.9	53 21.2	53 08.8	—	53 14.7		
31 19	1	—	-53 38.2	-52 33.4	-52 17.7	-53 59.7	-53 55.9	-52 50.4	-52 50.6	-54 00.5	—	-53 15.8		
February.														
1 02	2	—	-53 17.2	-53 27.3	-51 57.2	-54 34.1	-54 38.6	-51 58.5	-53 25.5	-53 07.2	—	-53 18.2		
3 02	1	—	53 35.2	52 39.5	52 18.3	53 54.8	53 56.1	52 48.8	52 51.4	53 56.2	—	53 15.0		
4 19	2	—	53 17.6	53 30.8	51 58.8	54 38.2	54 38.8	51 55.8	53 27.6	53 09.3	—	53 19.6		
7 19	1	—	53 38.7	52 34.8	52 15.5	53 50.8	54 10.1	52 46.2	52 57.3	53 59.5	—	53 16.6		
8 02	2	—	53 23.4	53 23.6	51 53.3	54 37.8	54 39.8	51 48.2	53 26.0	53 07.2	—	53 17.4		
10 02	1	—	53 44.7	52 33.8	52 23.1	53 47.0	54 05.2	52 45.4	52 51.4	53 57.8	—	53 16.1		
11 19	2	—	53 24.0	53 23.8	51 49.8	54 33.5	54 35.9	51 47.4	53 22.4	53 06.0	—	53 15.4		
14 19	1	—	53 43.2	52 34.6	52 24.2	53 45.0	54 01.4	52 48.2	52 48.0	54 01.9	—	53 15.8		
15 02	2	—	53 20.0	53 24.9	51 49.2	54 36.2	54 39.9	51 52.7	53 25.4	53 08.6	—	53 17.1	-53 16.8	
17 02	1	—	53 40.3	52 34.2	52 28.4	53 47.8	54 01.3	52 46.2	52 50.6	54 03.4	—	53 16.5		
18 19	2	—	53 19.0	53 23.6	51 48.0	54 29.8	54 36.4	51 56.4	53 24.0	53 08.4	—	53 15.7		
21 19	1	—	53 44.6	52 37.4	52 26.5	53 41.2	54 06.2	52 49.6	52 50.6	53 57.8	—	53 16.7		
22 02	2	—	53 15.6	53 20.2	51 51.0	54 37.0	54 38.2	51 59.2	53 26.8	53 04.0	—	53 16.5		
24 02	1	—	53 39.2	52 39.1	52 28.2	53 41.0	54 07.6	52 50.2	52 56.0	53 57.6	—	53 17.4		
25 19	2	—	53 18.4	53 22.8	51 54.8	54 38.2	54 43.0	52 00.0	53 26.6	53 08.2	—	53 19.0		
28 19	1	—	-53 45.8	-52 41.4	-52 25.6	-53 34.2	-54 04.8	-52 43.4	-52 50.0	-53 58.4	—	-53 15.5		
March.														
1 02	2	—	-53 18.2	-53 19.6	-51 54.4	-54 38.0	-54 43.7	-51 56.2	-53 26.2	-53 04.4	—	-53 17.6		
3 02	1	—	53 44.6	52 36.4	52 23.8	53 30.4	54 02.8	52 45.6	52 55.8	54 01.2	—	53 15.1		
4 19	2	—	53 21.4	53 18.8	51 49.2	54 39.4	54 38.6	51 55.2	53 23.0	53 06.6	—	53 16.5		
7 19	1	—	53 45.4	52 42.4	52 20.4	53 16.6	54 04.6	52 49.6	52 54.8	53 56.0	—	53 13.7		
8 02	2	—	53 15.8	53 25.8	51 48.2	54 37.0	54 40.2	51 54.0	53 27.2	53 09.2	—	53 17.2		
10 02	1	—	53 35.2	52 40.8	52 16.2	53 25.4	54 03.2	52 52.6	52 55.4	54 03.2	—	53 14.0		
11 19	2	—	53 19.6	53 25.0	51 51.2	54 37.4	54 39.2	51 58.8	53 24.4	53 08.2	—	53 18.0		
14 19	1	—	53 38.2	52 40.0	52 16.2	53 40.8	54 09.8	52 52.2	52 55.2	54 01.2	—	53 16.7		
15 02	2	—	53 14.4	53 35.8	51 54.0	54 32.6	54 43.8	51 53.6	53 24.8	53 03.4	—	53 17.8		
17 02	1	—	53 32.2	52 44.2	52 15.4	53 43.6	54 08.2	52 45.4	52 56.2	53 52.6	—	53 14.7	-53 16.0	
18 19	2	—	53 19.4	53 22.4	51 41.6	54 41.2	54 46.2	51 59.4	53 24.2	52 53.0	—	53 15.9		
21 19	1	—	53 34.6	52 45.8	52 17.6	53 42.2	54 11.8	52 43.6	53 02.4	53 54.2	—	53 16.5		
22 02	2	—	53 18.4	53 24.6	51 50.0	54 39.8	54 44.2	51 59.8	53 27.6	52 57.4	—	53 17.7		
24 02	1	—	53 36.8	52 42.6	52 15.0	53 36.4	54 07.4	52 48.6	52 55.6	54 01.0	—	53 15.4		
25 19	2	—	53 16.8	53 24.0	51 49.0	54 39.6	54 41.8	51 47.0	53 22.6	52 53.8	—	53 14.3		
28 19	1	—	53 36.2	52 44.0	52 09.2	53 30.6	54 04.8	52 45.2	52 55.2	53 53.6	—	53 12.4		
29 02	2	—	53 29.2	53 09.4	51 57.2	54 39.4	54 46.6	51 48.0	53 26.6	52 56.4	—	53 16.6		
31 02	1	—	-53 41.4	-52 52.2	-52 23.8	-53 34.8	-54 02.8	-52 49.8	-53 01.2	-53 56.6	—	-53 17.8		
April. ^b														
25 22	1	0 & 180	-53 36.6	-52 25.8	-52 31.8	-53 36.2	-54 03.6	-52 45.2	-52 59.4	-53 53.0	-53 14.0	-53 14.0 ^a		
25 02	1	30 & 210	57 52.6	56 30.2	57 02.6	57 43.2	57 57.0	56 34.2	56 55.4	57 43.6	57 17.4	53 26.5		
25 02	1	60 & 240	70 07.2	69 17.2	69 06.4	70 20.4	70 35.2	69 10.2	69 19.0	70 15.8	69 46.4	53 37.0	-53 21.3	
25 02	1	120 & 300	68 42.8	69 51.8	70 16.6	68 34.0	68 49.4	70 27.8	70 02.8	68 55.2	69 27.6	53 09.1		
25 02	1	150 & 330	-57 02.4	-57 38.6	-57 44.8	-56 23.4	-56 30.6	-57 46.6	-57 37.4	-56 48.0	-57 11.5	-53 20.1		
May.														
2 20	1	0 & 180	-53 41.6	-52 35.8	-52 18.6	-53 19.6	-54 02.2	-52 44.4	-53 01.4	-53 50.6	-53 11.8	-53 11.8		
5 03	1	—	53 31.8	52 39.4	52 34.6	53 17.0	54 03.0	52 51.8	53 02.8	53 42.2	53 12.8	53 12.8		
6 00	2	—	53 25.2	53 16.0	51 49.2	54 35.0	53 17.0	53 19.8	51 46.8	54 39.0	53 16.0	53 16.0		
9 20	1	—	53 45.0	52 50.0	52 30.2	53 21.0	54 03.6	52 50.8	53 02.8	53 50.6	53 16.8	53 16.8		
10 00	2	—	54 43.8	52 06.2	53 26.0	53 03.2	54 51.2	52 05.8	53 29.8	53 05.6	53 21.5	53 21.5		
12 03	1	—	53 45.8	52 55.4	52 28.2	53 33.4	54 04.8	52 47.2	52 59.8	53 51.2	53 18.2	53 18.2		
13 00	2	—	-53 21.8	-53 21.4	-51 50.0	-54 41.6	-53 25.4	-53 25.4	-51 57.2	-54 39.0	-53 20.2	-53 20.2		

^a The true Inclination θ , is deduced by the formula, $\text{Cot. } \theta = \text{cot. } n \times \text{secd. } a$ where n = the Inclination observed, and a the azimuth of the vertical circle.

^b The regular observations of the Inclination were not made during this month.

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Arithmetical Means.	Inclination.	Monthly Means.		
			Face of Needle				Face of Needle								
			Direct.		Reversed.		Direct.		Reversed.						
			α	α'	α''	α'''	β	β'	β''	β'''					
1843.															
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
16 20	1	0 & 180	-53 45.0	-52 44.0	-52 26.3	-53 34.3	-54 03.7	-52 48.7	-52 53.7	-53 55.7	-53 16.4	-53 16.4			
16	1	30 & 210	57 36.3	57 02.7	56 28.3	57 55.3	57 56.0	56 36.3	56 52.7	57 46.3	57 16.7	53 25.7			
16 to	1	60 & 240	70 15.0	69 17.3	69 13.7	70 25.3	70 45.3	69 13.0	68 44.0	70 10.7	69 45.5	53 35.5			
16	1	120 & 300	68 56.0	69 44.3	70 02.7	68 59.7	68 51.0	70 16.0	69 43.3	68 48.7	69 25.2	53 05.7			
16 23	1	150 & 330	56 48.3	57 22.0	57 40.0	56 12.7	56 25.0	57 40.7	57 23.0	56 41.0	57 01.6	53 09.8			
17 21	2	0 & 180	53 30.0	53 21.0	51 56.0	54 41.0	54 46.3	51 47.0	53 29.3	53 09.0	53 20.0	53 20.0			
17	2	30 & 210	57 22.7	57 24.7	55 53.3	58 43.7	58 46.3	55 54.7	57 28.7	57 09.7	57 20.5	53 29.6			
17 to	2	60 & 240	69 51.7	69 31.3	67 55.0	71 29.7	71 29.3	67 46.0	70 07.8	69 28.0	69 42.4	53 30.9			
17	2	120 & 300	69 38.3	69 13.7	71 05.3	67 38.3	67 44.7	71 05.3	69 00.3	69 39.7	69 23.2	53 02.7			-53 18.8
17 23	2	150 & 330	57 10.7	57 15.3	58 32.3	55 37.0	55 26.0	58 33.0	56 52.7	57 14.7	57 05.2	53 13.5			
18 02	2	0 & 180	53 27.3	53 27.7	51 58.7	54 38.7	54 50.0	51 59.3	53 19.3	53 10.0	53 21.4	53 21.4			
18	2	30 & 210	57 19.3	57 23.3	55 50.0	58 40.0	58 44.0	55 52.0	57 32.3	57 08.3	57 18.7	53 27.7			
18 to	2	60 & 240	69 38.0	70 09.0	67 59.8	71 28.0	71 30.0	67 46.7	70 09.7	69 32.0	69 46.6	53 37.3			
18	2	120 & 300	69 44.0	69 17.3	71 10.7	67 36.7	67 39.7	71 07.0	69 06.3	69 46.3	69 26.0	53 06.9			
18 04	2	150 & 330	57 14.0	57 16.0	58 32.3	55 44.3	55 31.3	58 35.3	56 57.0	57 24.0	57 09.3	53 17.9			
17 00	2	0 & 180	54 46.8	51 47.8	53 23.6	53 10.6	54 53.2	51 59.0	53 26.0	53 14.2	53 20.2	53 20.2			
19 03	1	—	53 35.4	52 48.2	52 29.6	53 31.4	53 58.8	52 26.6	52 49.4	54 09.0	53 13.6	53 13.6			
20 00	2	—	53 26.4	53 23.6	51 59.2	54 35.4	53 24.2	53 24.8	52 03.8	54 34.0	53 21.4	53 21.4			
23 20	1	—	53 35.8	52 52.6	52 20.8	54 02.0	53 59.0	52 48.8	52 58.6	53 51.2	53 18.6	53 18.6			
24 00	2	—	54 44.4	51 56.2	53 27.0	53 10.4	54 42.4	51 58.0	53 23.4	53 10.6	53 19.1	53 19.1			
26 03	1	—	53 40.0	52 44.6	52 34.8	53 35.6	53 59.4	52 47.8	53 02.2	53 50.4	53 16.9	53 16.9			
27 00	2	—	53 18.8	53 25.4	51 45.2	54 41.6	53 21.0	53 22.8	51 42.4	54 54.2	53 18.9	53 18.9			
30 20	1	—	53 39.8	52 51.8	52 28.8	53 53.4	53 57.8	52 53.4	53 01.6	53 44.0	53 18.8	53 18.8			
31 00	2	—	-54 45.2	-51 52.0	-53 23.0	-53 09.0	-54 39.8	-52 15.8	-53 31.6	-53 10.8	-53 20.9	-53 20.9			
2 03	1	—	-53 42.0	-52 46.8	-52 33.0	-53 47.6	-54 00.6	-52 53.6	-53 08.4	-53 43.8	-53 19.5	-53 19.5			
6 20	1	—	53 45.0	52 54.6	52 26.0	53 50.6	54 02.8	52 37.6	52 50.8	53 45.6	53 16.6	53 16.6			
9 03	1	—	53 39.4	52 54.2	52 32.4	53 52.6	53 54.8	52 51.8	53 02.0	53 48.8	53 19.5	53 19.5			
13 20	1	—	53 43.2	52 55.4	52 29.4	53 45.6	53 53.0	52 47.4	52 55.2	53 44.2	53 16.7	53 16.7			
16 03	1	—	53 45.0	52 45.2	52 25.4	53 56.0	53 56.2	52 40.2	52 56.2	53 44.2	53 16.1	53 16.1			
20 20	1	—	53 45.2	52 47.4	52 28.8	53 47.2	54 03.0	52 43.4	53 03.4	53 44.8	53 17.9	53 17.9			
23 03	1	—	53 47.4	52 45.4	52 28.2	54 02.6	54 06.2	52 33.8	53 05.4	53 47.0	53 19.5	53 19.5			
27 20	1	—	53 44.0	52 48.6	52 36.6	53 54.2	53 57.8	52 47.6	52 59.8	53 51.8	53 20.1	53 20.1			
30 03	1	—	53 30.0	52 52.4	52 54.0	53 42.4	53 44.8	52 52.0	53 02.2	53 18.8	53 14.6	53 14.6			
2 20	2	—	53 20.6	53 18.8	51 37.8	54 49.0	—	—	—	—	53 16.6	53 16.6			
3 03	2	—	53 33.8	53 21.2	51 31.6	54 50.0	—	—	—	—	53 19.2	53 19.2			
6 20	2	—	—	—	—	—	54 57.2	51 18.4	53 27.4	53 12.6	53 13.9	53 13.9			
7 03	2	—	—	—	—	—	54 56.4	51 29.0	53 28.8	53 08.0	53 15.6	53 15.6			-53 17.9
9 20	2	—	53 25.8	53 24.8	51 42.0	54 37.2	—	—	—	—	53 17.5	53 17.5			
10 03	2	—	53 16.8	53 28.0	51 36.8	54 45.6	—	—	—	—	53 16.8	53 16.8			
13 20	2	—	—	—	—	—	54 51.4	51 52.2	53 33.8	53 06.2	53 20.9	53 20.9			
14 03	2	—	—	—	—	—	54 55.2	51 59.2	53 27.8	53 10.4	53 23.2	53 23.2			
16 20	2	—	53 50.8	53 23.8	51 45.0	54 46.8	—	—	—	—	53 26.6	53 26.6			
17 03	2	—	53 49.8	53 21.2	51 38.8	54 42.6	—	—	—	—	53 23.1	53 23.1			
20 20	2	—	—	—	—	—	54 48.8	51 50.6	53 22.2	53 05.4	53 16.8	53 16.8			
21 03	2	—	—	—	—	—	53 53.8	51 51.8	53 23.4	53 05.6	53 03.7	53 03.7			
23 20	2	—	53 22.2	53 24.0	51 42.0	54 41.4	—	—	—	—	53 17.4	53 17.4			
24 03	2	—	53 24.0	53 23.6	51 40.4	54 47.4	—	—	—	—	53 18.9	53 18.9			
27 20	2	—	—	—	—	—	54 49.0	51 51.6	53 27.2	53 05.0	53 18.2	53 18.2			
28 03	2	—	—	—	—	—	-54 54.6	-51 46.8	-53 26.8	-53 08.4	-53 19.2	-53 19.2			
4 20	1	—	-53 47.4	-52 45.2	-53 01.4	-53 34.0	-53 55.4	-52 43.2	-53 09.0	-53 42.6	-53 19.8	-53 19.8			
7 03	1	—	53 45.4	52 51.0	52 55.4	53 20.8	53 53.4	52 47.0	52 58.0	53 43.2	53 16.8	53 16.8			
11 20	1	—	53 46.0	52 44.8	52 50.6	53 43.2	53 44.4	52 54.0	52 45.2	53 54.2	53 17.8	53 17.8			
14 03	1	—	53 35.2	52 47.4	52 47.2	53 38.2	53 39.2	52 49.2	52 57.4	53 46.8	53 15.1	53 15.1			
18 20	1	—	53 43.2	52 52.8	52 47.2	53 47.6	53 48.6	52 57.8	53 10.6	53 32.0	53 20.0	53 20.0			
21 03	1	—	53 38.6	52 49.6	52 43.0	54 07.4	53 48.4	52 56.8	53 13.4	53 46.6	53 23.0	53 23.0			
25 20	1	—	53 36.8	52 44.0	52 36.6	53 56.4	53 47.2	52 39.2	53 02.4	53 34.2	53 14.6	53 14.6			
28 03	1	—	53 40.4	52 39.0	52 38.6	53 54.6	53 39.8	52 53.6	53 01.6	53 49.8	53 17.2	-53 17.2			
June 30 20	2	—	-53 27.6	-53 18.4	-51 41.0	-54 37.8	—	—	—	—	-53 16.2	-53 16.2			

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Arithmetical Means.	Inclination.	Monthly Means.
			Face of Needle.				Face of Needle.						
			Direct.		Reversed.		Direct.		Reversed.				
			α	α'	α''	α'''	β	β'	β''	β'''			
1843.													
D. H.		° °	° /	° /	° /	° /	° /	° /	° /	° /	° /	° /	° /
July.		0 & 180	-53 34.6	-53 20.4	-51 49.0	-54 39.0	—	—	—	—	-53 20.8	-53 19.7	
1 03	2	—	—	—	—	—	-54 54.2	-51 51.6	-53 26.2	-53 10.6	53 20.7		
4 20	2	—	—	—	—	—	54 55.8	51 54.4	53 26.4	53 07.6	53 21.1	53 20.9	
5 03	2	—	—	—	—	—	—	—	—	—	53 21.8		
7 20	2	—	53 44.6	53 15.2	51 53.4	54 33.8	—	—	—	—	53 19.8		
8 03	2	—	53 35.4	53 17.2	51 55.0	54 31.4	—	—	—	—	53 14.9	53 18.5	-53 19.1
11 20	2	—	—	—	—	—	54 57.0	51 32.8	53 29.8	52 59.8	53 17.4		
12 03	2	—	—	—	—	—	54 54.8	51 40.0	53 29.8	53 04.8	53 19.9	53 18.2	
14 20	2	—	53 27.6	53 29.6	51 46.0	54 36.4	—	—	—	—	53 20.7		
15 03	2	—	53 28.0	53 21.6	51 54.4	54 38.8	—	—	—	—	53 20.7	53 20.4	
18 20	2	—	—	—	—	—	54 54.2	51 52.8	53 27.8	53 08.0	53 20.3		
19 03	2	—	—	—	—	—	54 57.2	51 50.0	53 27.2	53 06.6	53 20.2	53 21.2	
21 20	2	—	53 26.2	53 33.0	51 43.4	54 38.2	—	—	—	—	53 23.7		
22 03	2	—	53 29.2	53 30.4	51 53.4	54 41.6	—	—	—	—	53 20.0	53 21.0	
25 20	2	—	—	—	—	—	54 55.4	51 44.0	53 29.4	53 11.0	53 20.2		
26 03	2	—	—	—	—	—	-54 59.2	-51 37.2	-53 31.2	-53 13.0	53 26.6	53 20.8	
28 20	2	—	53 40.6	53 39.8	51 43.2	54 42.6	—	—	—	—	-53 16.5	-53 20.3	
29 03	2	—	-53 24.4	-53 19.8	-51 39.6	-54 42.0	—	—	—	—	—	—	
August.													
1 20	2	—	—	—	—	—	-54 57.2	-51 40.8	-53 29.0	-53 02.8	53 17.5		
2 03	2	—	—	—	—	—	54 55.6	51 37.8	53 38.8	53 10.4	53 20.7	-53 19.5	
4 20	2	—	-53 30.4	-53 20.4	-51 43.0	-54 46.8	—	—	—	—	53 20.2		
5 03	2	—	53 26.8	53 24.6	51 41.8	54 44.2	—	—	—	—	53 19.4	53 19.3	
8 20	2	—	—	—	—	—	54 55.4	51 40.8	53 31.2	53 08.0	53 18.9		
9 03	2	—	—	—	—	—	54 56.2	51 43.4	53 27.8	53 07.2	53 18.7	53 18.6	
11 20	2	—	53 28.2	53 16.0	51 36.2	54 46.8	—	—	—	—	53 16.8		
12 03	2	—	53 31.6	53 22.0	51 42.0	54 44.4	—	—	—	—	53 20.0	53 17.5	
15 20	2	—	—	—	—	—	44 43.4	51 37.8	53 30.8	53 05.6	53 14.4		
16 03	2	—	—	—	—	—	54 56.6	51 32.8	53 42.8	53 02.0	53 18.6	53 17.2	
18 20	2	—	53 37.0	53 19.2	51 31.2	54 41.0	—	—	—	—	53 17.1		
19 03	2	—	53 19.2	53 21.4	51 51.4	54 43.2	—	—	—	—	53 18.8	53 17.1	
22 20	2	—	—	—	—	—	54 52.8	51 39.6	53 29.4	53 05.4	53 16.8		
23 03	2	—	—	—	—	—	54 56.6	51 27.0	53 29.2	53 09.0	53 15.5	53 17.3	-53 16.8
25 20	2	—	53 10.8	53 25.4	51 49.4	54 39.2	—	—	—	—	53 16.2		
26 03	2	—	53 31.8	53 18.6	51 42.6	54 48.8	—	—	—	—	53 20.5	53 16.5	
29 20	2	—	—	—	—	—	54 52.8	51 30.4	53 27.6	53 04.6	53 13.9		
30 03	2	—	—	—	—	—	54 56.6	51 30.4	53 27.8	53 06.8	53 15.4		
September.													
1 20	1	—	53 40.0	52 41.0	52 32.0	53 56.8	53 46.2	52 43.8	53 03.0	53 32.2	53 14.4	53 14.3	
4 03	1	—	53 37.0	52 46.2	52 43.2	53 57.0	53 48.4	52 47.0	53 13.6	53 37.6	53 18.8	53 18.8	
8 20	1	—	53 41.6	52 45.0	52 38.0	53 48.2	54 01.4	52 32.0	53 01.2	53 38.8	53 15.8	53 15.8	
11 03	1	—	53 48.2	52 37.0	52 50.4	53 54.8	53 44.4	52 35.0	53 03.8	53 45.6	53 17.4	53 17.4	
15 20	1	—	53 47.0	52 38.0	52 37.0	53 53.0	54 04.2	52 24.8	52 53.0	53 47.6	53 15.6	53 15.6	
18 03	1	—	53 44.4	52 36.8	52 40.6	53 48.0	53 47.2	52 43.8	53 02.4	53 37.8	53 15.1	53 15.1	
22 20	1	—	53 46.8	52 40.0	52 39.0	53 43.2	53 45.2	52 46.4	52 48.8	53 48.4	53 14.7	53 14.7	
25 03	1	—	53 41.8	52 40.0	52 41.2	53 40.2	53 59.1	52 41.8	53 07.0	53 35.4	53 15.8	53 15.8	
29 20	1	—	-53 21.8	-52 30.6	-52 40.4	-53 37.0	-53 55.0	-52 40.0	-53 02.2	-53 43.4	-53 11.3	-53 11.3	
4 00	1	—	-54 29.3	-53 25.3	-53 12.6	-54 06.0	-53 12.0	-52 22.6	-52 37.0	-53 10.0	-53 19.4	53 19.4	
	1	30 & 210	58 02.0	57 33.6	57 16.0	57 54.3	56 57.0	56 14.3	56 36.6	57 08.0	57 12.7	53 21.5	
	1	60 & 240	70 39.6	69 47.3	69 44.0	70 26.3	70 03.6	68 56.0	69 31.0	69 10.0	69 47.2	53 38.0	
	1	120 & 300	69 02.3	70 11.3	69 59.3	69 22.0	68 47.3	69 33.6	69 18.0	69 02.0	69 24.5	53 04.5	
	1	150 & 330	57 19.6	57 39.0	57 48.3	56 58.3	56 05.6	56 53.0	56 52.0	56 36.3	57 01.5	53 09.8	
4 20	1	—	54 18.6	53 20.0	53 20.8	54 20.0	53 14.8	52 14.4	52 40.0	53 09.0	53 19.7	53 19.7	
8 03	1	—	54 15.8	53 23.6	53 10.4	54 06.4	53 18.2	52 18.6	52 52.0	53 17.2	53 20.3	53 20.3	
11 20	1	—	54 29.0	53 16.4	53 14.4	54 02.4	53 21.6	52 18.6	52 46.8	53 12.2	53 20.2	53 20.2	
15 03	1	—	54 27.2	53 21.6	53 13.8	54 09.8	53 06.0	52 18.4	52 43.8	53 12.4	53 19.1	53 19.1	
18 20	1	—	54 28.0	53 22.8	53 13.6	54 09.8	53 07.0	52 23.4	52 29.4	53 06.8	53 17.6	53 17.6	
22 03	1	—	54 26.4	53 18.6	53 17.8	54 08.8	53 21.4	52 14.8	52 51.6	53 03.0	53 20.3	53 20.3	
25 02	1	—	54 28.0	53 23.2	53 24.6	54 00.8	53 15.2	52 17.8	52 42.6	53 15.6	53 21.0	53 21.0	
29 03	1	—	54 16.8	53 28.4	53 12.6	54 05.4	-53 07.4	-52 06.6	-52 50.8	-53 04.4	53 16.6	53 16.6	
1 08	2	—	53 34.8	53 18.2	51 47.8	54 32.6	—	—	—	—	53 18.4		
2 03	2	—	-53 28.2	-53 16.4	-51 47.0	-54 39.8	—	—	—	—	-53 17.9	-53 17.1	

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Arithmetical Means.	Inclination.	Monthly Means.
			Face of Needle.				Face of Needle.						
			Direct.		Reversed.		Direct.		Reversed.				
			α	α'	α''	α'''	β	β'	β''	β'''			
1843.													
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
5 20	2	0 & 180	—	—	—	—	—54 57.2	—51 29.0	—53 25.2	—53 06.8	—53 14.6	—	—
6 03	2	—	—	—	—	—	54 59.6	51 31.8	53 32.4	53 05.4	53 17.3	—53 16.0	—
8 20	2	—	53 24.0	53 12.2	51 43.6	54 35.8	—	—	—	—	53 13.9	—	—
9 03	2	—	53 42.0	53 15.4	51 43.8	54 31.2	—	—	—	—	53 18.1	53 16.0	—
12 20	2	—	—	—	—	—	54 58.4	51 28.0	53 29.4	53 04.0	53 15.0	—	—
13 03	2	—	—	—	—	—	54 58.4	51 29.8	53 31.0	53 09.0	53 17.1	—	—
15 20	2	—	53 35.8	53 20.2	51 38.0	54 43.8	—	—	—	—	53 19.5	—	—
16 03	2	—	53 37.6	53 25.2	51 40.2	54 45.0	—	—	—	—	53 22.0	—	—
19 20	2	—	—	—	—	—	54 58.2	51 33.2	53 25.6	53 03.4	53 15.1	53 18.4	—
20 03	2	—	—	—	—	—	55 02.4	51 27.0	53 36.0	53 01.6	53 16.8	—	—
22 20	2	—	53 34.8	53 23.2	51 32.4	54 45.6	—	—	—	—	53 19.0	53 18.1	—
23 03	2	—	53 37.6	53 19.8	51 41.4	54 47.6	—	—	—	—	53 21.6	—	—
26 20	2	—	—	—	—	—	54 37.0	51 49.8	53 30.0	53 06.2	53 15.8	53 18.1	—
27 03	2	—	—	—	—	—	54 55.2	51 30.2	53 30.8	53 07.6	53 16.0	—	—
29 20	2	—	53 37.2	53 19.4	51 45.5	54 40.2	—	—	—	—	53 20.6	53 18.4	—
30 03	2	—	—53 42.8	—53 19.4	—51 42.6	—54 45.4	—	—	—	—	—53 22.6	—53 21.0	—
3 20	2	—	—	—	—	—	—54 57.6	—51 39.8	—53 35.0	—53 05.0	—53 19.4	—	—
4 03	2	—	—	—	—	—	55 04.8	51 35.2	53 39.4	53 05.4	53 21.2	—53 19.2	—
6 20	2	—	53 21.4	53 19.2	51 42.4	54 35.0	—	—	—	—	53 14.5	—	—
7 03	2	—	53 35.4	53 23.8	51 45.2	54 41.6	—	—	—	—	53 21.5	—	—
2 20	1	—	54 33.2	53 17.2	53 21.0	54 03.2	53 20.6	52 15.8	52 48.0	53 17.4	53 22.1	53 22.1	—
6 03	1	—	54 17.0	53 21.4	53 09.2	54 21.4	53 12.2	52 29.6	52 36.8	53 14.8	53 20.3	53 20.3	—
9 20	1	—	54 27.6	53 21.2	53 14.8	54 12.0	53 17.6	52 19.2	52 46.4	53 05.0	53 20.5	53 20.5	—
13 03	1	—	54 22.0	53 28.6	53 09.8	54 08.0	53 18.8	52 20.8	52 50.2	53 12.6	53 21.4	53 21.4	—53 20.2
16 20	1	—	54 14.0	53 20.6	53 12.0	54 05.0	53 13.4	52 21.4	52 47.2	53 16.8	53 18.8	53 18.8	—
20 03	1	—	54 21.6	53 19.0	53 18.8	54 07.8	53 23.0	52 17.2	52 25.4	53 13.2	53 18.3	53 18.3	—
23 20	1	—	54 18.4	53 23.4	53 09.8	54 14.4	53 19.2	52 18.4	52 42.8	53 06.8	53 19.2	53 19.2	—
27 03	1	—	54 16.8	53 23.4	53 25.6	54 05.2	53 19.4	52 12.0	52 53.0	53 10.2	53 20.7	53 20.7	—
30 20	1	—	—54 27.6	—53 24.4	—53 13.4	—54 06.2	—53 22.0	—52 17.2	—52 52.0	—53 11.0	—53 21.7	—53 21.7	—
3 03	1	—	—54 17.8	—53 24.6	—53 18.8	—54 08.6	—53 16.0	—52 25.4	—52 52.0	—53 05.6	—	—53 21.1	—
6 20	1	—	54 23.4	53 25.4	53 15.4	54 16.4	53 04.2	52 22.4	52 40.4	53 12.4	—	53 20.0	—
10 03	1	—	54 17.6	53 18.4	53 24.4	54 03.6	53 14.6	52 22.0	52 41.8	53 07.6	—	53 18.8	—
13 20	1	—	54 23.6	53 25.2	53 21.0	54 12.6	53 25.8	52 22.6	52 46.0	53 31.2	—	53 26.0	—
17 03	1	—	54 24.4	53 19.8	53 10.8	54 25.4	53 37.0	52 17.0	52 56.6	53 22.0	—	53 26.6	—53 22.9
20 20	1	—	54 22.6	53 14.2	53 24.0	53 58.0	53 33.8	52 14.4	53 01.8	53 10.4	—	53 22.4	—
24 03	1	—	54 26.2	53 24.8	53 11.6	54 07.0	53 37.2	52 13.2	53 01.6	53 36.2	—	53 27.2	—
27 20	1	—	—54 25.4	—53 08.2	—53 20.2	—54 05.8	—53 37.2	—52 08.2	—52 57.0	—53 08.6	—	—53 21.3	—
1 03	1	—	—54 32.8	—53 10.4	—53 31.2	—54 05.8	—53 29.4	—52 21.4	—52 51.8	—53 09.6	—	—53 24.1	—
4 20	1	—	54 32.0	53 16.8	53 09.0	54 07.2	53 29.0	52 11.8	52 51.8	53 08.6	—	53 20.8	—
8 03	1	—	54 28.2	53 13.6	53 16.6	54 03.2	53 32.0	52 10.4	52 51.8	53 04.4	—	53 20.0	—
11 20	1	—	54 27.0	53 18.6	53 15.2	54 11.0	53 22.0	52 07.8	52 54.2	53 03.8	—	53 20.0	—
15 03	1	—	54 21.6	53 19.2	53 07.2	54 06.0	53 27.0	52 11.4	52 47.6	52 58.2	—	53 17.3	—
18 20	1	—	54 03.1	53 15.7	53 27.1	54 04.6	53 04.6	52 04.9	52 41.2	53 10.2	—	53 13.9	—
25 20	1	—	54 23.8	53 21.7	53 15.8	53 56.6	53 10.5	52 25.7	52 54.0	53 02.7	—	53 18.9	—
29 03	1	—	—54 20.6	—53 25.3	—53 13.9	—54 04.9	—53 13.2	—52 22.5	—52 48.8	—53 16.0	—	—53 20.7	—53 19.5
1844.													
1 20	1	—	—54 21.8	—53 17.6	—53 11.6	—54 03.6	—53 15.4	—52 15.2	—52 50.0	—53 16.2	—	—53 18.9	—
5 03	1	—	54 22.0	53 24.2	53 12.2	54 06.4	53 22.6	52 05.8	52 48.6	53 16.4	—	53 19.8	—
8 20	1	—	54 24.8	53 20.0	53 10.6	54 09.0	53 13.4	52 05.8	52 52.8	53 03.8	—	53 17.5	—
12 03	1	—	54 18.8	53 21.0	53 12.4	54 07.2	53 17.0	52 07.6	52 51.2	53 09.8	—	53 18.1	—
15 20	1	—	54 24.6	53 22.0	53 10.4	54 11.6	53 16.0	52 11.4	52 51.8	53 04.6	—	53 19.1	—53 19.5
19 03	1	—	54 22.6	53 23.8	53 11.0	54 09.0	53 22.0	52 17.2	52 55.6	53 09.4	—	53 21.3	—
22 20	1	—	54 23.8	53 22.8	53 10.8	54 12.2	53 21.8	52 06.4	52 54.2	53 05.8	—	53 19.7	—
26 03	1	—	54 18.4	53 21.6	53 10.0	54 09.6	53 20.4	52 18.0	52 52.6	53 07.0	—	53 19.7	—
29 20	1	—	—54 22.6	—53 23.6	—53 20.0	—54 20.6	—53 15.0	—52 14.2	—52 49.2	—53 06.8	—	—53 21.5	—

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needles. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle.				Face of Needle.					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1844.												
D. H.		° °	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
February.		0 & 180										
2 03	1	—	-54 30.6	-53 23.4	-53 19.4	-54 09.8	-53 20.0	-52 18.4	-52 50.4	-53 14.6	-53 23.3	-53 22.7
5 20	1	—	54 27.6	53 22.0	53 11.8	54 19.6	53 20.0	52 06.4	52 57.4	53 20.4	53 23.2	
9 03	1	—	54 31.2	53 18.8	53 11.6	54 11.0	53 22.8	52 07.6	52 49.8	53 09.0	53 20.2	
12 20	1	—	54 21.8	53 18.2	53 12.2	54 13.4	53 17.0	52 08.4	52 44.0	53 09.6	53 18.1	
16 03	1	—	54 32.0	53 12.4	53 18.8	54 11.4	53 19.4	52 17.2	52 50.0	53 20.0	53 22.7	
19 20	1	—	54 32.4	53 21.2	53 20.2	54 18.4	53 25.0	52 16.0	52 54.8	53 07.6	53 24.5	
23 03	1	—	54 35.0	53 18.2	53 24.4	54 14.8	53 27.0	52 20.2	52 51.2	53 23.0	53 26.7	
26 20	1	—	-54 34.8	-53 19.4	-53 26.2	-54 07.2	-53 22.6	-52 06.0	-52 56.4	-53 07.4	-53 22.5	
March.												
1 03	1	—	-54 22.0	-53 19.6	-53 15.8	-54 28.2	-53 24.8	-52 15.6	-52 54.0	-53 21.0	-53 25.1	-53 24.4
4 20	1	—	54 31.8	53 14.2	53 16.6	54 15.0	53 25.6	52 09.6	52 51.8	53 18.2	53 22.9	
8 03	1	—	54 22.2	53 23.0	53 19.2	54 15.6	53 21.8	52 17.8	52 53.4	53 24.0	53 24.6	
11 20	1	—	54 31.2	53 20.2	53 16.6	54 17.6	53 30.4	52 10.6	52 50.4	53 17.0	53 24.3	
15 03	1	—	54 29.2	53 20.4	53 27.4	54 16.4	53 25.6	52 17.4	52 57.4	53 14.8	53 26.1	
18 20	1	—	54 34.8	53 27.0	53 17.8	54 15.4	53 25.2	52 08.0	52 49.2	53 21.6	53 24.9	
22 03	1	—	54 31.0	53 16.0	53 15.6	54 24.6	53 19.2	52 09.6	52 50.8	53 32.6	53 24.9	
25 20	1	—	54 34.6	53 20.2	53 09.2	54 15.6	53 26.6	52 12.6	52 55.6	53 10.4	53 23.1	
29 03	1	—	-54 33.2	-53 09.6	-53 11.2	-54 20.2	-53 24.2	-52 12.0	-52 53.2	-53 23.4	-53 23.4	
April.												
1 20	1	—	-54 26.0	-53 23.6	-53 26.4	-54 24.6	-53 36.4	-52 23.0	-52 50.8	-53 24.6	-53 29.4	-53 27.7
5 03	1	—	54 26.8	53 26.0	53 25.4	54 21.8	53 29.6	52 17.6	52 46.8	53 09.8	53 25.5	
8 20	1	—	54 28.0	53 23.0	53 14.2	54 20.6	53 29.8	52 16.0	52 44.0	53 23.8	53 24.9	
12 03	1	—	54 27.8	53 11.4	53 08.8	54 29.0	53 32.8	52 19.4	52 45.6	53 25.4	53 25.0	
15 20	1	—	54 37.6	53 20.4	53 13.8	54 28.4	53 30.2	52 11.2	52 48.4	53 19.6	53 26.2	
19 03	1	—	54 29.4	53 33.0	53 31.6	54 19.8	53 39.0	52 19.2	52 46.6	53 20.0	53 31.1	
22 20	1	—	54 26.6	53 26.2	53 11.0	54 23.8	53 38.4	52 21.4	52 50.8	53 22.6	53 27.6	
26 03	1	—	54 40.6	53 19.2	53 15.2	54 26.8	53 38.4	52 14.8	52 54.2	53 16.4	53 28.2	
29 20	1	—	-54 37.4	-53 22.8	-53 16.8	-54 34.6	-53 44.8	-52 17.4	-52 56.4	-53 17.0	-53 30.9	
May.												
3 03	1	—	-54 39.0	-53 17.4	-53 26.4	-54 39.0	-53 26.6	-52 29.2	-52 57.6	-53 21.0	-53 32.0	-53 26.6
6 20	1	—	54 28.4	53 23.0	53 16.8	54 37.6	53 41.6	52 24.4	52 44.4	53 19.4	53 29.5	
10 03	1	—	54 40.8	53 22.4	53 17.2	54 25.0	53 34.8	52 08.4	52 49.0	53 18.2	53 27.0	
13 20	1	—	54 42.4	53 16.2	52 57.0	54 33.8	53 30.6	52 12.2	52 48.0	53 22.4	53 25.3	
17 03	1	—	54 20.1	53 17.9	53 11.3	54 20.2	53 14.6	52 13.1	52 51.1	53 19.4	53 21.0	
20 20	1	—	54 39.8	53 13.8	53 08.4	54 22.8	53 30.4	52 08.2	52 50.2	53 14.0	53 23.5	
24 03	1	—	54 36.0	53 18.4	53 14.6	54 28.8	53 32.4	52 13.0	52 56.2	53 19.6	53 27.4	
27 20	1	—	54 36.8	53 17.4	53 17.8	54 13.8	53 31.0	52 08.2	52 52.4	53 09.4	53 23.4	
31 03	1	—	-54 41.6	-53 21.6	-53 25.4	-54 30.8	-53 41.8	-52 18.2	-52 50.6	-53 14.0	-53 30.5	
June.												
3 20	1	—	-54 38.6	-53 17.2	-53 19.2	-54 22.8	-53 37.4	-52 16.2	-52 51.8	-53 14.2	-53 27.2	-53 29.1
7 03	1	—	54 35.8	53 32.0	53 25.8	54 23.6	53 42.0	52 06.8	52 55.6	53 18.0	53 30.0	
10 20	1	—	54 37.2	53 43.1	53 01.2	54 20.8	53 43.5	52 17.1	52 48.7	53 28.3	53 30.0	
14 03	1	—	54 33.2	53 28.4	53 25.2	54 23.6	53 34.6	52 10.4	52 50.4	53 28.8	53 29.3	
17 20	1	—	54 41.0	53 34.8	53 19.0	54 26.8	53 27.0	52 08.4	52 50.4	53 22.0	53 28.7	
21 03	1	—	54 34.4	53 32.2	53 26.2	54 29.0	53 29.2	52 09.4	52 52.6	53 25.6	53 29.8	
24 20	1	—	54 37.4	53 28.6	53 16.4	54 30.6	53 31.8	52 08.4	52 51.0	53 23.6	53 28.5	
28 03	1	—	-54 37.6	-53 28.6	-53 25.6	-54 24.0	-53 28.6	-52 09.4	-52 55.0	-53 22.6	-53 28.9	
July.												
1 20	1	—	-54 29.1	-53 18.7	-53 17.5	-54 34.5	-53 24.4	-52 07.4	-52 58.2	-53 24.4	-53 26.8	-53 26.3
5 03	1	—	54 35.0	53 30.8	53 21.0	54 27.0	53 30.6	52 23.8	52 53.0	53 23.0	53 30.5	
8 20	1	—	54 33.8	53 22.0	53 18.4	54 30.2	53 31.6	52 07.4	52 53.6	53 19.6	53 27.6	
12 03	1	—	54 33.4	53 18.8	53 20.6	54 27.8	53 29.6	52 09.8	52 55.4	53 28.4	53 28.0	
15 20	1	—	54 23.0	53 16.8	53 02.7	54 20.5	53 22.0	52 09.1	52 57.5	53 26.5	53 22.3	
19 03	1	—	54 17.0	53 16.2	53 14.5	54 25.0	53 32.0	51 55.2	52 52.3	53 20.6	53 21.6	
22 20	1	—	54 33.2	53 18.0	53 08.8	54 25.4	53 28.2	52 08.6	52 57.8	53 19.0	53 24.9	
26 03	1	—	54 33.6	53 17.2	53 19.2	54 27.0	53 39.2	52 06.6	52 55.4	53 28.2	53 28.3	
29 20	1	—	-54 36.6	-53 14.2	-53 22.8	-54 32.2	-53 38.2	-51 59.4	-52 54.2	-53 19.2	-53 27.1	

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle.				Face of Needle.					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1844												
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	
August.	2 03	1	0 & 180	-54 35.4	-53 17.0	-53 20.8	-54 29.2	-53 40.6	-51 57.6	-52 53.0	-53 28.4	-53 27.8
	5 20	1	—	54 41.2	53 16.6	53 13.0	54 31.0	53 40.4	51 55.0	52 56.6	53 35.6	53 28.7
	9 03	1	—	54 37.4	53 23.4	53 19.0	54 37.2	53 47.8	52 01.2	52 57.0	53 35.8	53 32.4
	12 20	1	—	54 35.8	53 27.2	53 17.4	54 31.8	53 37.6	52 00.6	53 03.6	53 26.6	53 30.1
	16 03	1	—	54 36.8	53 14.6	53 31.6	54 27.6	53 36.2	52 12.0	52 59.2	53 23.8	53 30.2
	19 20	1	—	54 42.0	53 23.0	53 18.0	54 17.0	53 32.0	52 09.2	52 53.0	53 30.6	53 28.1
	23 03	1	—	54 48.4	53 20.2	53 16.6	54 39.2	53 48.8	52 18.2	53 07.6	52 26.8	53 35.7
	26 20	1	—	54 49.8	53 21.0	53 16.6	54 28.0	53 50.0	52 16.4	53 01.8	53 31.2	53 34.4
30 03	1	—	-54 51.8	-53 17.0	-53 18.6	-54 27.8	-53 47.0	-52 15.0	-53 04.6	-53 36.8	-53 34.8	
September.	2 20	1	—	-54 47.0	-53 22.0	-53 21.0	-54 31.8	-53 33.8	-52 13.4	-52 56.4	-53 29.6	-53 31.9
	6 03	1	—	54 40.8	53 27.8	53 27.8	54 22.2	53 27.2	52 19.0	53 05.4	53 29.6	53 32.5
	9 20	1	—	54 42.0	53 29.6	53 24.4	54 24.6	53 27.4	52 20.0	53 07.2	53 24.2	53 32.4
	13 03	1	—	54 51.6	53 24.0	53 27.2	54 21.4	53 33.8	52 13.4	53 00.2	53 19.4	53 31.4
	16 20	1	—	54 46.4	53 20.6	53 22.0	54 18.2	53 29.0	52 10.8	53 03.0	53 20.4	53 28.8
	20 03	1	—	54 44.0	53 26.0	53 28.6	54 27.8	53 51.2	52 08.4	53 08.4	53 16.2	53 33.8
	23 20	1	—	54 48.2	53 29.0	53 24.2	54 30.6	53 44.8	52 15.8	53 04.8	53 21.4	53 34.9
	27 03	1	—	54 43.6	53 30.4	53 24.4	54 18.0	53 53.0	52 18.8	53 04.6	53 15.8	53 33.6
30 20	1	—	-54 45.6	-53 31.4	-53 20.2	-54 39.2	-53 45.0	-52 17.2	-53 06.4	-53 37.0	-53 37.8	
October.	4 03	1	—	-54 43.8	-53 34.0	-53 28.2	-54 25.8	-53 35.4	-52 16.0	-53 05.4	-53 30.8	-53 34.9
	7 20	1	—	54 44.8	53 28.4	53 26.2	54 35.2	53 40.4	52 14.2	52 57.8	53 41.6	53 36.1
	11 03	1	—	54 42.4	53 23.6	53 24.8	54 24.0	53 54.2	52 19.4	52 58.2	53 31.8	53 34.8
	14 20	1	—	54 42.8	53 26.4	53 20.6	54 38.0	53 45.0	52 15.2	53 02.4	53 23.8	53 34.3
	18 03	1	—	54 43.2	53 29.4	53 30.0	54 17.2	53 52.2	52 17.8	53 01.8	53 29.2	53 35.1
	21 20	1	—	54 45.4	53 25.4	53 27.0	54 39.6	53 34.6	52 16.0	53 01.8	53 36.2	53 35.8
	22 22	2	—	53 43.0	53 40.3	51 55.7	55 15.3	55 24.3	51 47.7	53 26.3	53 18.3	53 33.9
	23 22	2	—	53 42.3	53 31.3	51 47.7	55 27.7	55 24.7	51 34.3	53 37.3	53 34.3	53 35.0
25 03	1	—	54 40.6	53 36.2	53 26.6	54 24.8	53 42.2	52 13.2	52 59.2	53 27.6	53 33.8	
28 20	1	—	-54 46.4	-53 30.4	-53 26.0	-54 24.8	-53 35.8	-52 15.2	-53 00.4	-53 29.0	-53 33.5	
November.	1 03	1	—	-54 43.2	-53 27.4	-53 25.6	-54 25.6	-53 40.2	-52 25.2	-53 03.8	-53 22.0	-53 34.1
	4 20	1	—	54 33.4	53 28.3	53 11.0	54 32.4	53 20.5	52 19.2	53 23.3	53 22.5	53 31.3
	8 03	1	—	54 44.2	53 32.2	53 16.0	54 39.0	53 29.6	52 15.8	53 03.0	53 25.6	53 33.2
	11 20	1	—	54 49.2	53 26.2	53 17.2	54 32.0	53 26.2	52 15.2	53 01.4	53 28.0	53 31.9
	15 03	1	—	54 40.2	53 29.4	53 14.4	54 23.6	53 28.8	52 12.8	52 57.0	53 31.2	53 29.7
	18 20	1	—	54 37.5	53 33.0	53 12.3	54 27.7	53 25.2	52 06.5	53 00.2	53 17.3	53 27.5
	22 03	1	—	54 44.4	53 32.8	53 22.0	54 28.8	53 29.8	52 15.4	53 00.8	53 19.4	53 31.7
	25 20	1	—	54 44.4	53 27.0	53 22.4	54 36.4	53 38.0	52 15.2	53 04.8	53 26.4	53 34.3
29 03	1	—	-54 42.4	-53 28.2	-53 17.0	-54 28.6	-53 33.4	-52 26.8	-53 02.2	-53 29.8	-53 33.6	
December.	2 20	1	—	-54 46.2	-53 26.8	-53 23.6	-54 25.4	-53 32.0	-52 16.4	-53 09.2	-53 28.2	-53 33.5
	6 03	1	—	54 38.4	53 35.8	53 24.0	54 15.2	53 31.4	52 21.6	53 05.2	53 21.2	53 31.6
	9 20	1	—	54 44.8	53 47.8	53 33.0	54 26.6	53 30.4	52 13.6	53 03.4	53 20.8	53 35.1
	13 03	1	—	54 46.0	53 37.2	53 25.2	54 38.0	53 29.4	52 09.8	52 58.2	53 22.0	53 33.2
	16 20	1	—	54 41.7	53 35.3	53 36.4	54 30.4	53 11.8	52 25.7	52 53.3	53 15.7	53 31.3
	20 03	1	—	54 37.7	53 34.6	53 37.0	54 27.0	53 09.4	52 26.2	52 54.5	53 24.1	53 31.3
	23 20	1	—	54 27.5	53 24.4	53 28.8	54 22.6	53 23.8	52 19.9	52 58.9	53 27.4	53 29.2
	27 03	1	—	54 28.7	53 33.7	53 11.6	54 22.4	53 18.6	52 25.3	52 58.9	53 25.4	53 28.1
30 21	2	—	53 37.8	53 34.2	51 52.5	55 19.2	55 04.6	51 37.4	53 29.1	53 34.7	53 31.2	
30 22	1	—	-54 24.9	-53 32.4	-53 12.0	-54 24.8	-53 20.7	-52 19.1	-52 57.0	-53 25.9	-53 27.1	
1845.												
January.	3 03	1	—	-54 25.2	-53 29.2	-53 06.9	-54 25.2	-53 17.3	-52 14.5	-52 55.4	-53 22.6	-53 24.9
	10 03	1	—	54 36.8	53 27.0	53 10.7	54 23.5	53 27.9	52 17.2	52 59.7	53 30.7	53 29.2
	13 20	1	—	54 26.7	53 30.0	53 12.5	54 18.0	53 29.9	52 14.3	52 59.7	53 34.2	53 28.2
	17 03	1	—	55 34.0	53 28.1	53 11.7	54 19.3	53 18.0	52 25.8	52 56.5	53 23.3	53 26.8
	20 20	1	—	54 33.0	53 26.7	53 15.0	54 22.5	53 19.2	52 08.6	52 55.0	53 51.4	53 28.9
	24 03	1	—	54 32.3	53 24.9	53 14.9	54 23.4	53 18.4	52 11.9	52 56.4	53 33.5	53 27.0
	27 20	1	—	54 30.8	53 22.2	53 02.5	54 34.1	53 40.3	52 09.0	52 55.1	53 31.6	53 28.2
31 03	1	—	-54 33.5	-53 25.2	-53 09.6	-54 23.8	-53 23.5	-52 13.1	-53 03.2	-53 39.5	-53 28.9	

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle.				Face of Needle.					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1845.												
D. H.		° °	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
February.		0 & 180										
3 20	1	—	-54 33.9	-53 23.1	-53 07.6	-54 28.5	-53 13.5	-52 14.3	-52 58.7	-53 30.7	-53 26.3	-53 26.0
7 03	1	—	54 40.6	53 22.3	53 09.5	54 26.1	53 23.7	52 07.0	52 57.1	53 28.9	53 26.9	
10 20	1	—	54 41.9	53 23.1	53 05.8	54 25.4	53 25.0	52 10.6	52 53.5	53 28.0	53 26.7	
14 02	1	—	54 38.5	53 27.8	53 11.6	54 32.0	53 21.4	52 11.0	52 56.5	53 24.3	53 27.9	
17 20	1	—	54 32.1	53 25.2	53 06.4	54 23.5	53 16.8	52 11.5	52 58.3	53 20.5	53 24.3	
21 03	1	—	54 29.0	53 28.6	53 18.6	54 26.6	53 18.2	52 10.8	52 59.8	53 17.6	53 26.2	
25 20	1	—	54 40.9	53 26.2	53 11.2	54 24.6	53 21.5	52 09.1	52 57.3	53 23.4	53 26.8	
28 03	1	—	-54 34.6	-53 32.9	-53 10.8	-54 23.8	-53 19.4	-52 14.8	-52 59.1	-53 27.3	-53 27.8	
March.		—										
3 20	1	—	-54 31.2	-53 27.5	-53 05.3	-54 29.8	-53 25.4	-52 15.4	-52 55.9	-53 29.6	-53 27.5	-53 26.3
7 03	1	—	54 34.5	53 27.7	53 11.8	54 27.3	53 24.9	52 11.2	52 59.3	53 27.0	53 28.0	
10 20	1	—	54 34.6	53 20.5	53 08.6	54 29.1	53 23.5	52 07.8	52 57.2	53 27.5	53 26.1	
14 03	1	—	54 40.4	53 24.8	53 09.9	54 29.4	53 27.7	52 07.9	52 58.7	53 23.9	53 27.8	
17 20	1	—	54 32.7	53 22.8	53 07.1	54 28.9	53 18.7	52 05.2	52 54.2	53 28.2	53 24.7	
24 20	1	—	54 29.7	53 25.0	53 08.2	54 25.6	53 20.2	52 12.2	52 56.2	53 32.4	53 26.2	
28 03	1	—	54 38.1	53 26.7	53 05.9	54 27.0	53 18.0	52 08.4	52 53.9	53 18.0	53 24.5	
31 20	1	—	-54 35.0	-53 21.7	-53 05.2	-54 28.7	-53 30.0	-52 12.6	-52 56.0	-53 17.9	-53 25.9	
April.		—										
4 03	1	—	-54 32.4	-53 21.8	-53 05.6	-54 24.0	-53 33.8	-52 14.4	-53 00.1	-53 20.1	-53 26.5	-53 26.9
7 20	1	—	54 33.1	53 23.9	53 12.0	54 33.5	53 40.9	52 08.2	53 00.3	53 29.0	53 30.1	
11 03	1	—	54 38.9	53 22.9	53 00.4	54 30.7	53 31.9	52 07.2	53 01.0	53 20.6	53 26.7	
14 20	1	—	54 33.5	53 20.0	53 01.0	54 25.6	53 32.3	52 11.4	53 00.5	53 27.7	53 26.5	
18 03	1	—	54 32.7	53 16.5	53 07.1	54 29.6	53 31.7	52 07.6	52 57.7	53 26.6	53 26.2	
21 20	1	—	54 34.0	53 23.1	53 05.3	54 19.2	53 24.6	52 06.5	52 59.3	53 25.4	53 24.7	
25 03	1	—	54 36.2	53 25.6	53 09.9	54 26.6	53 25.8	52 08.8	53 02.8	53 21.7	53 27.2	
28 20	1	—	-54 29.3	-53 25.6	-53 04.2	-54 24.1	-53 29.4	-52 16.2	-52 59.0	-53 30.4	-53 27.3	
May.		—										
2 02	1	—	-54 17.5	-53 22.5	-53 15.0	-54 27.3	-53 25.4	-52 04.8	-52 06.8	-54 11.8	-53 23.9	-53 25.1
4 20	1	—	54 25.1	53 01.3	53 11.8	54 37.8	53 26.0	52 55.9	52 13.5	53 29.3	53 25.1	
9 03	1	—	54 25.3	53 00.3	53 24.8	54 29.0	53 26.9	52 58.0	52 16.9	53 13.4	53 24.3	
12 20	1	—	54 17.9	53 07.4	53 16.5	54 15.0	53 22.0	52 58.4	52 09.5	53 25.5	53 21.5	
16 03	1	—	54 41.5	53 21.1	53 05.1	54 33.5	53 27.5	52 04.7	52 58.4	53 28.9	53 27.6	
19 20	1	—	54 39.6	53 20.7	53 00.3	54 29.7	53 31.6	52 03.4	52 59.0	53 29.5	53 26.7	
23 03	1	—	54 35.8	53 12.4	53 17.1	54 34.7	53 33.7	52 01.2	53 05.4	53 36.6	53 29.6	
26 20	1	—	54 27.6	53 17.1	53 04.7	54 24.0	53 25.9	52 02.9	52 55.3	53 24.6	53 22.8	
30 03	1	—	-54 33.1	-53 21.3	-53 11.0	-54 19.8	-53 28.1	-52 05.3	-52 50.1	-53 24.6	-53 24.2	
June.		—										
2 20	1	—	-54 35.4	-53 16.0	-52 58.4	-54 18.5	-53 25.0	-52 05.0	-52 51.8	-53 27.8	-53 22.2	-53 24.9
6 03	1	—	54 31.5	53 25.0	53 10.8	54 23.9	53 26.5	52 03.8	52 57.4	53 24.5	53 25.4	
9 20	1	—	54 34.8	53 19.6	53 10.0	54 23.2	53 23.6	52 05.0	52 55.3	53 22.2	53 24.2	
13 03	1	—	54 35.1	53 25.6	53 09.2	54 25.5	53 27.3	52 06.5	52 57.6	53 28.8	53 27.0	
16 20	1	—	54 34.1	53 23.1	53 02.6	54 25.4	53 24.9	52 07.9	52 53.0	53 26.4	53 24.7	
20 03	1	—	54 38.8	53 23.7	53 05.3	54 23.3	53 30.2	52 05.4	52 53.8	53 25.3	53 25.7	
23 20	1	—	54 38.3	53 25.5	53 04.3	54 22.6	53 22.0	52 05.8	52 53.0	53 25.2	53 24.6	
27 03	1	—	54 38.1	53 25.7	53 01.1	54 20.7	53 28.1	52 01.0	52 57.2	53 28.5	53 25.1	
30 20	1	—	-54 36.8	-53 23.1	-53 04.6	-54 23.3	-53 25.0	-52 03.9	-52 55.0	-53 29.2	-53 25.1	
July.		—										
4 03	1	—	-54 44.1	-52 54.9	-53 25.6	-54 12.5	-53 32.6	-52 16.1	-52 58.0	-53 29.3	-53 26.6	-53 26.3
7 20	1	—	54 36.7	53 24.9	53 00.5	54 22.4	53 22.8	52 04.5	53 00.5	53 25.3	53 24.7	
11 03	1	—	54 37.3	53 21.4	53 08.2	54 22.4	53 23.3	52 07.2	52 56.2	53 28.6	53 25.6	
14 20	1	—	54 37.2	53 21.6	53 11.2	54 20.0	53 24.8	52 01.4	52 59.0	53 19.8	53 24.4	
18 03	1	—	54 43.4	53 22.0	53 15.2	54 22.8	53 29.0	52 02.8	52 58.0	53 24.6	53 27.2	
21 20	1	—	54 45.1	53 21.4	53 03.0	54 25.8	53 22.3	52 07.9	52 52.9	53 28.4	53 25.9	
25 03	1	—	54 45.4	53 20.8	53 14.4	54 25.4	53 38.8	52 06.2	52 58.4	53 29.0	53 29.8	
28 20	1	—	-54 43.2	-53 22.8	-53 00.1	-54 24.5	-53 24.1	-52 10.0	-52 56.9	-53 30.7	-53 26.5	

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.	
			Face of Needle.				Face of Needle.						
			Direct.		Reversed.		Direct.		Reversed.				
			α	α'	α''	α'''	β	β'	β''	β'''			
1845.													
D. H.		° °	° /	° /	° /	° /	° /	° /	° /	° /	° /	° /	
August.		0 & 180											
1 03	1	—	-54 36.0	-53 27.0	-53 08.3	-54 32.1	-53 33.5	-52 06.6	-53 01.4	-53 30.4	-53 29.4	-53 28.0	
4 20	1	—	54 44.2	53 15.2	53 08.2	54 24.4	53 25.2	52 01.8	53 00.3	53 25.8	53 25.6		
8 03	1	—	54 40.5	53 25.0	53 08.3	54 26.0	53 32.2	52 01.6	53 00.3	53 28.8	53 27.8		
11 20	1	—	54 40.2	53 20.5	53 02.1	54 27.7	53 30.6	52 08.7	52 57.3	53 29.5	53 27.1		
11 20	2	—	53 41.6	53 07.3	51 11.4	55 36.8	55 40.0	51 03.9	53 17.2	53 41.1	53 24.9		
15 03	1	—	54 43.2	53 26.5	53 14.0	54 28.0	53 28.3	52 12.7	52 57.1	53 34.3	53 30.5		
18 20	1	—	54 51.8	53 24.4	53 13.8	54 30.0	53 32.6	52 09.8	52 58.2	53 26.8	53 30.9		
22 03	1	—	54 47.1	53 22.0	53 19.3	54 24.5	53 29.6	52 03.7	52 57.2	53 19.8	53 27.9		
24 20	1	—	54 47.4	53 23.0	53 07.7	54 23.5	53 24.7	52 01.3	53 08.7	53 20.0	53 27.0		
29 03	1	—	-54 43.2	-53 23.7	-53 20.5	-54 18.1	-53 28.8	-52 09.2	-53 02.0	-53 24.2	-53 28.7		
September.													
1 20	1	—	-54 48.8	-53 26.8	-53 16.6	-54 25.0	-53 34.6	-52 14.6	-53 00.0	-53 24.2	-53 31.3	-53 31.1	
5 03	1	—	54 47.4	53 22.9	53 14.6	54 24.5	53 32.7	52 10.6	52 56.2	53 29.3	53 29.8		
8 20	1	—	54 46.2	53 22.5	53 13.7	54 21.6	53 39.0	52 06.9	53 02.1	53 28.0	53 30.0		
12 03	1	—	54 40.9	53 22.6	53 14.2	54 25.6	53 28.7	52 10.9	52 59.4	53 29.3	53 28.9		
15 20	1	—	54 48.7	53 18.1	53 12.7	54 19.3	53 39.2	52 07.3	53 08.7	53 24.4	53 29.8		
19 03	1	—	54 45.6	53 37.2	53 14.0	54 29.8	53 36.0	52 05.6	53 02.8	53 27.0	53 32.2		
22 20	1	—	54 43.6	53 26.3	53 15.0	54 24.3	53 30.5	52 06.2	52 58.7	53 27.2	53 29.0		
26 03	1	—	54 55.0	53 22.6	53 19.8	54 18.8	53 34.9	52 09.3	53 05.2	53 27.4	53 31.6		
29 20	1	—	54 56.9	53 24.6	53 17.6	54 21.0	53 29.9	52 02.2	53 05.8	53 27.4	53 30.7		
29 20	2	—	-53 47.0	-53 11.4	-51 17.4	-55 30.2	-55 25.3	-51 36.1	-53 38.0	-54 38.8	-53 38.0		
October.													
3 03	1	—	-54 55.8	-53 27.0	-53 16.9	-54 25.8	-53 26.8	-52 04.7	-53 07.2	-53 28.6	-53 31.6	-53 30.4	
6 20	1	—	54 43.8	53 27.7	53 11.5	54 26.3	53 32.8	52 08.0	53 06.5	53 26.1	53 30.3		
10 03	1	—	54 46.7	53 26.7	53 19.5	54 26.0	53 31.6	52 06.0	53 07.5	53 26.6	53 31.3		
13 20	1	—	54 49.6	53 14.9	53 18.9	54 21.1	53 34.8	52 05.4	53 05.2	53 25.3	53 29.4		
17 03	1	—	54 55.0	53 25.5	53 20.5	54 24.8	53 36.8	52 04.5	53 03.0	53 29.0	53 32.4		
20 20	1	—	54 46.6	53 26.0	53 09.7	54 21.6	53 35.1	52 05.5	53 06.8	53 18.6	53 28.7		
24 03	1	—	54 49.7	53 32.2	53 29.9	54 44.7	53 33.2	52 09.6	53 02.9	53 27.5	53 36.2		
27 20	1	—	55 08.6	53 23.2	53 04.8	54 25.8	53 30.0	51 44.2	52 55.4	53 06.2	53 24.8		
31 03	1	—	-54 38.0	-53 16.9	-53 01.9	-54 16.2	-53 32.9	-52 19.0	-53 02.9	-53 45.2	-53 29.1		
November.													
3 20	1	—	-54 39.1	-53 08.3	-53 06.3	-54 26.6	-53 37.7	-52 24.1	-53 05.1	-53 39.5	-53 30.8	-53 29.9	
7 03	1	—	54 47.2	53 22.1	53 18.4	54 26.6	53 31.7	52 12.2	53 09.8	53 29.1	53 32.1		
10 20	1	—	54 10.4	53 16.3	53 16.6	54 44.8	53 32.1	52 59.5	52 18.3	53 30.7	53 28.6		
14 03	1	—	54 12.8	53 19.2	53 16.2	54 44.1	53 32.3	53 00.5	52 18.2	53 29.9	53 29.1		
17 20	1	—	54 44.6	53 25.6	53 15.1	54 23.0	53 32.1	52 09.2	53 02.9	53 28.6	53 30.1		
20 03	1	—	54 47.7	53 17.3	53 10.9	54 18.2	53 29.3	52 12.4	53 08.7	53 37.6	53 30.3		
24 20	1	—	54 45.0	53 19.2	53 09.1	54 16.6	53 30.1	52 10.6	53 05.8	53 26.2	53 27.8		
28 03	1	—	-54 47.0	-53 16.1	-53 11.4	54 22.8	-53 29.9	-52 19.5	-53 06.1	-53 31.8	-53 30.6		
December.													
1 20	1	—	-54 43.0	-53 21.1	-53 10.3	-54 17.6	-53 29.6	-52 09.6	-53 02.5	-53 28.5	-53 27.8		-53 33.9
5 03	1	—	54 54.6	53 19.5	53 19.1	54 33.7	53 32.1	52 25.1	53 03.9	53 34.3	53 35.3		
8 20	1	—	54 48.5	53 16.8	53 11.9	54 25.0	53 35.3	52 12.8	53 08.2	53 33.7	53 30.9		
12 03	1	—	54 44.6	53 23.0	53 18.4	54 25.3	53 32.7	52 13.5	53 06.9	53 30.3	53 31.8		
15 20	1	—	54 35.5	53 39.5	52 37.8	54 57.7	53 43.5	51 56.7	53 33.7	53 33.4	53 34.7		
19 03	1	—	54 33.4	53 35.9	52 58.2	55 06.1	54 03.7	51 57.6	53 40.3	53 00.0	53 36.9		
22 20	1	—	54 34.8	53 39.6	53 33.0	54 57.1	53 47.8	52 02.3	53 32.8	53 09.8	53 39.7		
26 03	1	—	54 32.4	53 34.6	52 48.9	54 48.1	53 49.7	51 56.7	53 36.2	53 41.9	53 36.1		
29 20	1	—	-54 33.7	-53 36.8	-52 38.7	-54 55.5	-53 48.9	-51 54.5	-53 39.6	-53 05.2	-53 31.6		
1846.													
January.													
2 03	1	—	-54 42.4	-53 30.0	-52 45.3	-54 51.0	-53 55.7	-51 51.6	-53 43.9	-53 00.0	-53 32.5	-53 31.7	
5 20	1	—	54 38.7	53 44.8	52 35.2	55 00.9	54 10.4	51 42.8	53 38.2	53 00.6	53 33.9		
9 03	1	—	54 39.4	53 35.1	52 40.4	54 59.5	53 59.8	51 42.3	53 36.6	52 56.7	53 31.2		
12 20	1	—	54 34.2	53 40.4	52 31.0	54 56.0	53 52.9	51 42.3	53 32.4	53 00.0	53 28.7		
16 03	1	—	54 37.0	53 42.0	52 40.5	54 59.7	53 58.0	51 43.8	53 34.9	52 58.8	53 31.8		
19 20	1	—	-54 38.2	-53 42.7	-52 38.4	-54 59.5	-53 54.2	-51 49.7	-53 35.9	-53 00.0	-53 32.3		

Observations of Inclination, made on Tuesdays and Fridays about four hours before and four hours after Noon, with occasional Observations on other Days.

Göttingen Mean Time.	Needle. No. or Mark.	Azimuth.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
			Face of Needle.				Face of Needle.					
			Direct.		Reversed.		Direct.		Reversed.			
			α	α'	α''	α'''	β	β'	β''	β'''		
1846												
February.		0 & 180										
2 20	1	—	54 39.8	53 41.5	52 43.5	54 57.6	53 01.7	51 49.5	53 35.7	53 03.9	53 34.1	-53 31.9
6 03	1	—	54 34.5	53 41.2	52 40.5	54 59.6	53 57.2	51 40.7	53 33.7	52 59.1	53 30.8	
9 20	1	—	54 31.0	53 42.4	52 27.8	55 06.1	53 52.2	51 52.1	53 28.4	53 06.9	53 30.9	
13 03	1	—	55 11.3	53 07.5	52 41.5	54 55.3	53 44.0	51 54.4	53 24.1	53 10.7	53 31.1	
16 20	1	—	54 45.6	53 40.9	52 39.7	54 58.9	53 48.3	51 49.7	53 26.4	53 11.4	53 32.6	
20 03	1	—	54 39.9	53 33.8	52 49.3	54 48.5	53 44.5	51 53.9	53 28.8	53 06.8	53 30.7	
23 20	1	—	54 40.5	53 39.2	52 39.2	55 01.9	53 49.0	52 01.4	53 26.0	53 14.8	53 34.0	
27 03	1	—	53 50.2	53 11.4	51 25.2	55 31.4	55 21.6	51 27.9	53 24.6	53 43.8	53 29.5	
March.												
2 20	1	—	54 40.7	53 33.9	52 40.7	55 00.0	53 45.5	51 51.5	53 32.5	53 04.0	53 31.1	-53 31.4
6 03	1	—	54 47.1	53 41.8	52 42.6	55 00.1	53 47.3	51 48.1	53 33.6	53 00.7	53 32.7	
9 20	1	—	54 45.1	53 31.3	52 37.9	54 58.0	53 48.2	51 47.5	53 30.9	53 08.9	53 31.0	
9 20	2	—	54 00.5	53 05.5	51 08.6	55 40.2	55 42.6	51 17.3	53 23.6	53 52.3	53 31.3	
13 03	1	—	54 50.0	53 39.0	52 49.7	54 53.9	53 40.0	51 53.3	53 31.4	53 00.2	53 32.2	
15 20	1	—	54 42.2	53 32.7	52 41.5	55 06.1	53 42.8	51 50.8	53 31.2	53 02.6	53 31.2	
20 03	1	—	54 46.0	53 31.5	52 53.3	54 57.9	53 42.9	52 00.0	53 07.7	53 03.2	53 30.3	
23 20	1	—	54 42.7	53 30.4	52 45.5	54 58.2	53 45.9	51 51.5	53 32.0	53 02.4	53 31.1	
July.												
20 20	1	—	54 20.2	53 25.7	54 37.7	53 33.7	52 18.1	53 29.3	52 24.1	53 51.1	53 30.0	-53 37.4
27 22	1	—	53 21.8	53 51.4	52 50.9	53 48.4	54 20.1	53 57.1	54 20.4	53 49.0	53 47.4	
28 21	1	—	53 29.5	53 35.3	53 52.0	53 19.1	52 35.3	54 08.5	53 52.7	53 53.0	53 35.7	
29 04	1	—	54 04.1	53 55.7	54 00.6	53 59.7	53 50.5	52 26.7	52 31.2	55 14.9	53 45.4	
30 23	1	—	54 54.7	52 00.1	53 00.2	54 47.2	52 43.0	54 11.6	52 37.3	53 35.2	53 28.7	
August.												
3 20	1	—	54 01.2	54 43.5	53 40.5	54 11.9	52 39.4	54 20.6	52 32.1	53 54.3	53 37.9	-53 31.7
4 03	1	—	53 56.9	53 48.4	53 38.0	54 13.9	52 35.8	54 24.5	52 30.7	53 52.7	53 37.6	
4 20	1	—	54 52.2	52 08.3	53 27.3	53 38.7	53 37.8	53 37.6	52 13.0	55 17.3	53 36.5	
	1	—	54 13.5	53 27.2	52 56.7	54 26.6	53 54.9	52 18.3	53 47.9	52 44.5	53 28.7	
	1	—	54 13.1	53 27.0	52 57.7	54 28.9	53 56.1	52 24.1	53 47.7	52 47.8	53 30.4	
	1	—	54 13.5	53 27.2	52 56.7	54 26.6	53 56.1	52 24.5	53 47.7	52 47.8	53 30.0	
	1	—	54 13.1	53 27.0	52 57.7	54 28.9	53 54.9	52 18.3	53 47.9	52 44.5	53 29.0	
5 20	2	—	53 22.7	53 31.2	52 03.8	54 51.4	53 21.9	53 32.3	51 39.1	55 08.4	53 26.4	
	2	—	53 25.8	53 34.8	52 07.7	54 49.1	53 06.3	53 59.1	51 52.0	55 16.6	53 31.4	
	2	—	53 22.7	53 31.2	52 03.8	54 51.4	53 06.3	53 59.1	51 52.0	55 16.6	53 30.4	
	2	—	53 25.8	53 34.2	52 07.7	54 49.1	53 21.9	53 32.3	51 39.1	55 08.4	53 27.3	
10 21	1	—	54 30.0	53 06.3	53 59.8	54 14.3	51 29.8	54 08.8	52 21.4	54 00.1	53 28.8	
17 20	1	—	54 29.8	53 08.6	53 48.1	54 12.0	52 33.0	53 49.4	52 20.6	53 59.6	53 32.6	
24 20	1	—	54 28.6	53 13.3	53 30.9	54 16.7	52 50.2	53 59.6	52 20.6	54 00.1	53 35.0	
31 20	1	—	54 15.7	53 23.5	53 15.3	54 28.4	53 55.8	52 28.0	54 06.2	52 41.0	53 34.2	
Sept.												
7 20	1	—	54 16.7	53 48.9	53 08.5	54 35.5	53 47.7	52 26.0	54 17.7	52 33.0	53 36.8	-53 35.7
14 20	1	—	54 07.8	53 41.6	53 08.5	54 35.9	53 45.3	52 27.4	54 01.2	52 31.2	53 32.4	
21 03	1	—	54 06.6	53 49.0	53 20.6	54 25.3	53 52.1	52 34.7	54 10.6	52 44.6	53 37.9	



CAPE OF GOOD HOPE.

ABSOLUTE HORIZONTAL FORCE,

1842, 1843, 1844, and 1845.

ABSOLUTE HORIZONTAL FORCE.

Calculated by Captain Younghusband, Royal Artillery.

THE experiments of Absolute Horizontal Force, from January to August, 1842, were made in the Observatory with the large Declinometer and 15-inch magnets, generally twice every week, and the same deflecting and suspended bars were used throughout; the former being bar D, and the latter that in use for the regular Observations of Declination.

The experiments of vibration were made in an underground house at a distance from the magnets in the Observatory. The experiments were conducted in the usual manner, and the final results, m and X , have been calculated from the mean data of each month

only:—the value of $\frac{m}{X}$ by the formula $\frac{m}{X} = \frac{r^5 \tan u' - r^5 \tan u}{2 (r_1^2 - r^2)}$,

and $m X$ by the formula $m X = \frac{\pi^2 K}{T^2}$

the value of K , or the moment of inertia of the deflecting magnet, being calculated from the weight and dimensions of the magnet, by the well-known formula $K = \frac{a^2 + b^2}{12} M$.

From September, 1842, to May, 1843, the experiments were carried on in an additional house built for the purpose by Captain Wilmot, a Unifilar Magnetometer being employed for experiments of deflection in one house, and a separate apparatus for experiments of vibration in the other.

The magnets used were both 12 inches in length. Bar A suspended and bar 2 deflecting. Observations were made weekly during this interval, excepting that in the month of March, 1843, none were made, as other experiments were then in progress. The deflecting bar in these experiments was placed at 3 distances on each side of the suspended magnet, viz., at 4.00, 5.28, and 6.96 feet.

The angles of deflection were found by the formula

$$\tan 2 u = n \tan 2 a \left(1 + \frac{H}{F} \right)$$

and the values of $\frac{m}{X}$ for each distance have been calculated by the formula

$$\frac{m}{X} = \frac{1}{2} r^3 \tan u \left(\frac{1}{1 + \frac{P}{r^2}} \right) \text{ \&c.}$$

P being a mean of the two results obtained by the formulæ

$$P = - \frac{r^2 r_1^5 \tan u' - r_1^2 r^5 \tan u}{r_1^5 \tan u' - r^5 \tan u}$$

$$\text{and } P = - \frac{r_1 r_1^5 \tan u'' - r_1^2 r_1^5 \tan u'}{r_1^5 \tan u'' - r_1^5 \tan u'}$$

In these experiments the time of vibration has been corrected for the difference in the Horizontal Force of the Earth between the experiments of deflection and vibration, as shown by simultaneous readings of the Bifilar Magnetometer.

The magnet was suspended for vibration by a silk thread, without stirrup or other appendages. The time of vibration has been corrected for the rate of the chronometer, torsion of the thread, arc of vibration, difference of Horizontal force between the two parts of the experiment as shown by simultaneous readings of the Bifilar Magnetometer, and change produced in the magnetic moment of the bar by an increase or decrease of temperature. No correction has been applied for the Earth's inducing action.

The coefficient K in the formula $m X = \frac{\pi^2 K}{T^2}$ has been calculated from the weight and dimensions of the magnet, *i. e.*—

$$K = \frac{a^2 + b^2}{12} M = \frac{1.00^2 + 0.0729^2}{12} \times 5126 = 429.19.$$

A few observations were made in July and October, 1843, with a portable Unifilar Magnetometer, and since that period the small Observatory Unifilar with detached scale has been constantly employed. The angles of deflection with the Portable Unifilar were read off on the horizontal circle, and with the Observatory Unifilar by means of a detached scale, from the readings of which the amount of deflection was found by the formula—

$$\tan 2 u = n \tan 2 a \left(1 + \frac{H}{F} \right)$$

The calculations of the values $m X$ and $\frac{m}{X}$, and of the final results m and X , were made in the manner previously described, the coefficient P having been ascertained by the formula for two distances, employed in the last series; the times of vibration of the suspended magnet have received the various corrections for torsion of the thread, rate of chronometer, arc of vibration, temperature of magnet, and change of horizontal intensity between the two parts of the experiment as shown by the readings of the Bifilar Magnetometer.

In July and October, 1843, a portable Unifilar was employed, with deflecting magnets of 3.67 inches and a suspended magnet of 3 inches in length. Two deflecting magnets were employed, one a hollow, and the other a solid cylinder. Their respective moments of inertia were ascertained by alternate vibrations with and without cylindrical weights

according to the method proposed by Professor Weber. The experiments of deflection were made in the passage of the Observatory, the angles being read off on the horizontal circle of the Unifilar; and the experiments of vibration in the Transit room of the Observatory. In 1844 and 1845 the solid deflecting magnet was used in the small Observatory Unifilar, with a detached scale by which the angles of deflection were observed, established in the Attendants' room of the Observatory, the vibration apparatus being continued in the Transit room. The suspended magnet in this apparatus was also 3 inches in length. The values of m and X have been computed in the manner last described, the values of the coefficient P being derived by the formula for two distances given above.

I.—EXPERIMENTS to determine the ABSOLUTE HORIZONTAL FORCE, with 15-inch Magnets. Deflecting magnet marked D; length 15 inches, breadth 0·88 inches, weight 6850 grains, $\text{Log. } \pi^2 K = 3\cdot94612$. Suspended magnet, length 15 inches. Distances of the magnets, $r = 5\cdot9854$ feet; $r' = 9\cdot4852$ feet.

Mean Time at the Cape.	Angles of Deflection.		Observed Time of one Vibration.	Semi Arcs.		Rate of Chronom.	Values of $\frac{H}{F}$	Results.	
	u	u'		Init.	Term.			m	X
1842									
D. H.			Sec.			Sec.			
January. { 10 23	64·476	15·162	15·485	180	90	+3·0	·0007		
24 23	64·702	15·387	15·486	180	75	+3·5	·0007		
Mean	64·589	15·275	15·4855	180	82	+3·2	·0007	8·180	4·501
February. { 8 4	64·852	15·387	15·480	120	66	+4·2	·0007		
12 11	64·852	15·387	15·474	165	90	+4·2	·0007		
15 11	65·077	15·387	15·466	150	78	+4·2	·0007		
22 0	64·627	15·312	15·506	150	90	+3·5	·0007		
Mean	64·852	15·368	15·4815	150	80	+4·0	·0007	8·215	4·484
March. { 1 0	64·552	15·613	15·512	180	90	+3·4	·0007		
4 0	64·702	15·312	15·492	150	100	+3·7	·0007		
8 0	64·702	15·387	15·492	180	120	+3·8	·0007		
11 0	64·702	15·387	15·445	150	75	+4·0	·0007		
18 0	64·852	15·387	15·483	150	105	+3·7	·0007		
22 0	64·852	15·387	15·475	150	110	+4·0	·0007		
25 0	64·777	15·462	15·481	144	90	+3·7	·0007		
29 0	64·777	15·387	15·474	150	110	+3·7	·0007		
Mean	64·740	15·415	15·4818	157	110	+3·8	·0007	8·241	4·470
April. { 1 3	64·852	15·387	15·482	144	75	+3·7	·0007		
4 22	64·777	15·462	15·471	150	75	+4·0	·0007		
8 3	64·552	15·312	15·490	150	75	+4·0	·0007		
11 22	64·852	15·312	15·493	150	75	+3·5	·0007		
18 22	64·476	15·537	15·507	150	75	+4·5	·0007		
22 3	64·627	15·312	15·513	150	75	+4·5	·0007		
25 22	64·627	15·312	15·495	150	60	+4·0	·0007		
29 3	64·627	15·312	15·501	150	90	+4·5	·0007		
Mean	64·674	15·368	15·4940	150	75	+4·1	·0007	8·214	4·478
May. { 2 22	64·627	15·387	15·457	150	75	+4·0	·0007		
9 22	64·627	15·387	15·491	150	80	+4·0	·0007		
13 3	64·627	15·312	15·496	150	75	+4·0	·0007		
17 3	64·927	15·312	15·508	150	90	+3·7	·0007		
20 3	64·702	15·537	15·497	150	75	+3·7	·0007		
23 22	64·627	15·237	15·485	150	75	+3·7	·0007		
27 3	64·777	15·387	15·488	150	75	+4·0	·0007		
30 22	64·702	15·312	15·478	150	90	+4·0	·0007		
Mean	64·702	15·359	15·4875	150	80	+3·9	·0007	8·212	4·482
June. { 3 3	64·852	15·387	15·500	150	100	+4·0	·0007		
6 22	64·852	15·387	15·494	150	60	+3·5	·0007		
11 3	64·852	15·387	15·486	150	90	+3·7	·0007		
13 22	64·927	15·312	15·488	150	75	+3·6	·0007		
17 3	64·777	15·387	15·484	150	75	+3·7	·0007		
20 22	64·702	15·387	15·496	160	100	+4·0	·0007		
24 3	64·777	15·387	15·487	150	60	+4·0	·0007		
27 22	64·777	15·387	15·486	150	75	+4·0	·0007		
Mean	64·815	15·378	15·4901	150	80	+3·8	·0007	8·216	4·479

Mean Time at the Cape.	Angles of Deflection.		Observed Time of one Vibration.	Semi Arcs.		Rate of Chronom.	Values of $\frac{H}{F}$	Results.	
	u	u'		Init.	Term.			m	X
1842									
D. H.	'	'	Sec.	'	'	Sec.			
July. { 1 3	65·152	15·462	15·459	150	90	+3·5	·0007		
4 22	65·152	15·312	15·488	150	90	+3·5	·0007		
8 3	64·927	15·462	15·472	150	90	+4·0	·0007		
11 22	65·152	15·462	15·465	150	90	+4·0	·0007		
15 3	65·002	15·387	15·469	150	75	+4·0	·0007		
18 22	65·002	15·387	15·472	150	90	+4·0	·0007		
22 3	64·927	15·462	15·473	150	90	+4·0	·0007		
29 3	64·927	15·387	15·478	150	75	+4·0	·0007		
Mean	65·030	15·415	15·4720	150	86	+3·9	·0007	8·233	4·480
August. { 5 3	65·077	15·387	15·495	150	90	+4·5	·0007		
8 23	64·777	15·462	15·491	150	90	+4·5	·0007		
12 3	64·852	15·387	15·500	150	90	+4·0	·0007		
5 22	64·777	15·312	15·491	150	75	+4·5	·0007		
22 22	64·777	15·387	15·490	135	90	+4·5	·0007		
26 3	64·777	15·312	15·493	150	90	+4·8	·0007		
30	64·777	15·312	15·428	150	75	+4·5	·0007		
Mean	64·831	15·366	15·4840	148	86	+4·5	·0007	8·212	4·485

ABSOLUTE HORIZONTAL FORCE

II.—EXPERIMENTS to determine the ABSOLUTE HORIZONTAL FORCE with 12-inch Magnets. Deflecting magnet marked No. 2; length 12 inches, breadth 0.875 inches, weight 5126 grains. $\text{Log. } \pi^2 K = 3.62720$. Suspended magnet, length 12 inches, marked A. Distances of the magnets, $r = 4.00$ feet; $r_1 = 5.28$ feet; $r_{11} = 6.96$ feet. Temperature coefficient of the deflecting magnet = .00025
 $K = .00018$; $\frac{H}{F}$ of the suspension thread = .0008.

Mean Time at the Cape.	Experiments of Deflection.					Experiments of Vibration.					Results.		
	Angles.			Temp. of Magnet.	Bifilar 60°	Observed Time of one Vibration.	Semi Arcs.		Rate of Chronom.	Temp. of Magnet.	Bifilar at 69°	m	X
	u	u'	u''				Init.	Term.					
1842				°	Sc. Div.	Sec.	'	'	Sec.	°	Sc. Div.		
September.	D. H.												
	5 22	107.036	46.087	20.041	56.0	91.3	11.156	144	75	+4.5	57.0	92.9	
	12 11	106.885	46.087	20.041	58.0	88.7	11.133	150	75	+4.5	56.0	90.6	
	20 11	106.510	45.862	19.891	55.4	91.8	11.175	150	105	+4.5	57.0	93.1	
	27 11	106.210	45.787	19.891	62.0	100.7	11.177	150	90	+4.5	60.0	101.1	
Mean	106.660	45.954	19.966	57.85	93.12	11.1602	149	86	+4.5	57.50	94.42	7.296	4.660
October.	4 23	106.435	45.862	19.891	57.0	93.1	11.173	150	75	+4.5	55.5	91.6	
	11 23	106.210	45.787	19.891	63.4	100.1	11.166	150	90	+4.5	61.0	99.5	
	18 23	106.360	45.862	19.966	59.5	96.2	11.189	147	75	+4.8	60.0	98.6	
	26 23	106.285	45.787	19.891	63.5	94.6	11.192	150	90	+5.0	62.0	93.9	
	Mean	106.323	45.825	19.910	60.85	96.00	11.1800	149	83	+4.7	59.62	95.90	7.273
November.	1 23	106.210	45.787	19.891	62.8	96.7	11.182	150	90	+5.0	62.5	96.4	
	9 23	105.384	45.561	19.741	62.8	100.5	11.221	150	120	+5.0	62.5	102.8	
	15 23	105.534	45.411	19.741	64.5	97.5	11.226	156	120	+5.5	64.5	96.6	
	22 23	105.759	45.636	19.891	65.0	84.6	11.232	150	105	+5.0	63.5	86.4	
	29 23	105.084	45.486	19.741	67.5	100.5	11.246	150	90	+5.0	67.0	102.9	
Mean	105.594	45.576	19.801	64.52	95.96	11.2214	151	105	+5.1	64.00	97.02	7.225	4.656
December.	6 23	105.234	45.336	19.741	69.1	103.6	11.238	150	105	+6.0	66.0	105.9	
	13 23	105.084	45.261	19.666	67.6	105.9	11.245	150	90	+4.7	67.0	105.2	
	20 23	104.934	45.186	19.666	76.4	108.7	11.258	150	90	+4.0	73.8	109.8	
	27 23	104.859	45.186	19.666	67.6	104.8	11.254	150	105	+5.0	67.8	104.8	
	Mean	105.028	45.242	19.685	70.18	105.75	11.2487	150	98	+4.9	68.65	106.42	7.183
1843	3 23	103.883	44.736	19.516	72.6	105.8	11.315	165	90	+4.5	71.6	106.1	
	10 23	103.733	44.736	19.441	74.0	111.5	11.315	150	90	+5.0	73.5	112.1	
	17 23	103.883	44.811	19.441	71.0	107.4	11.308	150	105	+5.3	70.8	108.8	
	24 23	103.958	44.811	19.516	69.7	107.4	11.303	165	105	+5.0	69.0	106.1	
	31 23	104.258	44.961	19.516	67.8	98.2	11.313	165	120	+5.0	70.0	98.8	
Mean	103.943	44.811	19.486	71.02	106.06	11.3108	159	102	+5.0	70.98	106.38	7.109	4.656
February.	7 23	103.958	44.811	19.516	72.8	106.6	11.306	165	105	+5.8	72.0	108.7	
	14 23	104.183	44.961	19.516	67.6	102.4	11.300	150	105	+5.0	68.0	103.5	
	21 23	104.033	44.811	19.516	75.2	105.1	11.317	150	90	+5.0	73.9	106.8	
	28 23	104.333	44.961	19.591	63.8	98.6	11.306	150	105	+5.5	66.0	98.0	
	Mean	104.127	44.886	19.535	69.85	103.18	11.3072	153	101	+5.3	69.97	104.25	7.116
April.	3 21	104.258	44.961	19.591	63.3	91.6	11.295	150	90	+5.5	62.6	99.9	
	4 3	104.183	44.961	19.591	64.2	102.3	11.307	150	105	+5.5	65.5	102.4	
	4 21	104.183	44.885	19.516	63.6	102.4	11.300	150	105	+5.0	64.2	101.8	
	5 3	104.333	45.036	19.591	64.7	95.2	11.309	150	105	+5.0	66.8	98.6	
	5 21	104.484	45.111	19.591	63.3	86.9	11.319	150	105	+5.0	65.0	88.4	
6 3	104.634	45.111	19.666	64.5	83.4	11.333	150	105	+5.0	66.8	82.0		
Mean	104.346	45.011	19.591	63.93	93.63	11.3105	150	102	+5.2	65.15	95.52	7.126	4.646
May.	7 21	104.484	45.036	19.591	60.6	93.0	11.307	180	120	+5.0	61.2	95.6	
	8 3	104.409	45.036	19.591	59.9	95.3	11.312	150	120	+5.0	61.2	95.0	
	8 21	104.484	45.036	19.591	59.2	98.0	11.297	150	105	+5.0	59.0	98.7	
	9 3	104.484	45.036	19.591	59.3	96.2	11.301	150	105	+5.0	60.5	95.6	
	9 21	104.409	44.961	19.591	60.0	99.6	11.299	150	120	+5.0	60.6	101.1	
10 3	104.484	45.036	19.591	60.5	94.5	11.309	150	105	+5.0	62.3	95.9		
Mean	104.459	45.024	19.591	59.92	96.10	11.3042	155	112	+5.0	60.80	96.98	7.136	4.650

III.—EXPERIMENTS to determine the ABSOLUTE HORIZONTAL FORCE with Magnets of 9·2 inches and 7·5 inches in length. Deflecting magnet marked C 1, length 9·2 inches, breadth 0·87 inches; weight 3831 grains. Suspended magnet marked C 1, length 7·5 inches. Distance $r = 3·0667$; $\frac{H}{F}$ of the suspension thread ·00027. Temperature coefficient of the deflecting magnet, ·00027. Bifilar, $k = ·000352$.

Mean Time at the Cape.	Experiments of Deflection.			Experiments of Vibration.						Results.		
	Angle.	Temp. of Magnet.	Bifilar at 60°.	Observed Time of one Vibration.	Semi Arcs.		Rate of Chronom.	Temp. of Magnet.	Bifilar at 60°.	m	X	
	z				Init.	Term.						
1844.												
	D. H.	° ' "	°	Sc. Div.	Sec.	'	'	Sec.	°	Sc. Div.		
April.	8 2	3 08·10	67·3	51·6	8·3968	15	10	+5·0	66·5	51·4		
	8 21	3 07·35	67·9	53·5	8·3988	16	10	+5·0	66·8	53·1		
	9 2	3 07·20	71·3	53·2	8·4119	16	10	+5·0	69·7	53·5		
	9 21	3 06·82	69·8	54·6	8·4102	16	10	+5·0	68·4	54·5		
	10 2	3 06·60	72·4	52·9	8·4207	16	10	+5·0	70·6	53·0		
	10 21	3 06·52	72·4	54·2	8·4211	16	10	+5·0	71·3	54·2		
	11 2	3 06·67	74·2	54·2	8·4254	16	10	+5·0	72·9	54·2		
	Mean	3 07·04	70·8	53·5	8·4121	16	10	+5·0	69·5	53·4	5·764	4·608
July.	9 2	3 05·55	55·8	46·6	8·4461	17	11	+4·0	55·0	46·2		
	9 21	3 05·10	53·7	46·1	8·4545	17	11	+4·0	53·6	46·3		
	10 2	3 05·17	57·7	47·7	8·4566	17	10	+4·0	55·6	47·1		
		Mean	3 05·27	55·7	46·8	8·4524	17	11	+4·0	54·7	46·5	5·710

IV.—EXPERIMENTS to determine the ABSOLUTE HORIZONTAL FORCE, with Magnets of 3·67 inches and 3·00 inches. Deflecting magnets, No. V. solid cylinder, length 3·67 inches, diameter 0·3 inches; and No. VI., hollow cylinder, length 3·67 inches. Suspended magnet 3·00 inches; distance $r = 1·2$ feet; $r' = 1·3$ feet; $r'' = 1·4$ feet; $\frac{H}{F}$ of the suspension thread = ·0004. Temperature coefficient of the deflecting magnet No. V. = ·000085, and of No. VI. 00012. Log. values of $\pi^2 K$, No. V. = 1·57246; No. VI. 1·40657. Bifilar, $k = \cdot 000176$ in 1843; ·000352 from January to July 1844; and ·000218 from February to June 1845.

Mean Time at the Cape.	Deflecting Magnet.	Experiments of Deflection.					Experiments of Vibration.					Results.		
		Angles.			Temp. of Magnet.	Bifilar at 60°.	Observed Time of one Vibration.	Semi Arcs.		Rate of Chronom.	Temp. of Magnet.	Bifilar at 60°.	m	X
		u	u'	u''				Init.	Term.					
1843.														
D. H.						Sc. Div.	Sec.	/	/	Sec.	°	Sc. Div.		
July.	V.	7 19·22	5 47·52	4 36·58	64·0	101·9	4·1062	28	12	+3·5	60·3	102·2		
	—	7 19·02	—	—	66·7	102·8	4·1094	20	8	+3·5	62·7	101·2		
	—	7 19·18	—	—	63·4	100·9	4·1097	26	12	+3·5	60·9	102·2		
	—	7 19·07	—	—	57·0	98·5	4·1107	36	18	+3·5	55·4	100·1		
	—	7 19·01	—	—	58·1	99·1	4·1115	28	14	+3·5	55·2	98·8		
	—	7 18·21	—	—	54·0	101·1	4·1118	20	10	+3·5	52·9	103·1		
	—	7 18·28	5 44·53	4 35·47	58·7	99·3	4·1119	20	10	+3·5	55·5	103·1		
Mean	—	7 18·57	5 46·22	4 36·22	60·3	100·5	4·1102	25	12	+3·5	57·6	101·5	0·495 4·461	
July.	VI.	6 04·45	4 46·52	3 49·33	63·3	97·7	3·7254	16	6	+3·0	57·2	97·6		
	—	6 04·11	4 46·42	3 49·30	66·6	108·4	3·7281	20	8	+3·0	61·9	106·5		
	—	6 04·17	4 46·39	3 49·31	63·4	101·5	3·7277	20	8	+3·0	57·4	101·4		
	—	6 04·28	4 46·34	3 49·39	60·4	99·5	3·7267	28	10	+3·2	57·0	101·2		
	—	6 04·06	4 46·22	3 49·10	66·5	105·3	3·7288	26	10	+3·2	61·8	103·0		
	—	6 03·45	4 46·23	3 49·19	64·1	100·2	3·7301	12	4	+3·2	59·9	101·2		
	—	6 04·00	4 46·28	3 49·19	65·2	98·6	3·7297	20	6	+3·2	62·2	102·0		
Mean	—	6 04·13	4 46·34	3 49·26	64·2	101·6	3·7281	20	7	+3·1	59·6	101·8	0·411 4·458	
October.	V.	7 10·54	—	—	65·6	99·7	4·1269	30	17	+4·0	62·1	102·0		
	—	7 10·32	—	—	68·6	104·5	4·1283	22	10	+4·0	64·6	105·3		
	—	7 10·07	—	—	63·6	104·2	4·1297	19	10	+4·0	61·8	103·7		
Mean	—	7 10·31	—	—	65·9	102·8	4·1283	24	12	+4·0	62·8	103·7	0·489 4·489	
October.	VI.	6 02·21	—	—	66·5	101·9	3·7214	28	11	+6·0	63·6	98·2		
	—	6 02·02	—	—	63·0	103·1	3·7226	22	10	+5·0	61·8	103·3		
	—	6 01·44	—	—	65·5	102·9	3·7240	24	10	+5·0	63·0	102·8		
Mean	—	6 02·02	—	—	65·0	102·6	3·7227	25	10	+5·3	62·8	101·4	0·411 4·478	
1844.														
January.	V.	5 31·17	—	—	66·3	55·7	4·2107	30	17	+5·0	65·2	56·1		
	—	5 31·09	—	—	69·4	56·9	4·2138	22	11	+4·5	68·4	56·7		
	—	5 30·71	—	—	69·3	57·9	4·2154	18	8	+4·5	68·5	58·0		
	—	5 30·79	—	—	71·5	57·7	4·2180	15	7	+4·5	71·2	57·4		
	—	5 30·41	—	—	71·6	56·0	4·2207	14	7	+4·5	70·9	57·1		
	—	5 30·11	—	—	75·1	59·1	4·2220	11	5	+4·5	75·1	59·2		
	—	5 29·81	—	—	73·8	56·8	4·2252	18	9	+4·5	73·0	57·1		
Mean	—	5 30·58	—	—	71·0	57·2	4·2180	18	9	+4·6	70·3	57·4	0·474 4·434	
April.	V.	5 18·10	—	—	68·2	46·6	4·3059	13	7	+5·5	67·2	46·6		
	—	5 17·50	—	—	69·7	49·2	4·3067	12	6	+5·5	69·2	49·3		
	—	5 18·03	—	—	67·4	44·7	4·3117	13	6	+5·5	66·1	45·1		
	—	5 17·35	—	—	68·8	48·1	4·3112	20	10	+5·5	68·4	48·5		
	—	5 16·98	—	—	65·9	46·8	4·3125	12	6	+5·5	64·7	47·8		
	—	5 16·60	—	—	68·1	49·2	4·3135	10	5	+5·5	67·1	49·3		
	—	5 15·85	—	—	62·2	48·8	4·3143	16	8	+5·5	60·5	49·5		
Mean	—	5 17·20	—	—	67·2	47·6	4·3108	14	7	+5·5	66·2	48·0	0·454 4·425	

Mean Time at the Cape.	Deflecting Magnet.	Experiments of Deflection.					Experiments of Vibration.						Results.	
		Angles.			Temp. of Magnet.	Bifilar at 60°.	Observed Time of one Vibration.	Semi Arcs.		Rate of Chronom.	Temp. of Magnet.	Bifilar at 60°.	m	X
		u	u'	u''				Init.	Term.					
1844.														
D. H.						Sc. Div.	Sec.			Sec.		Sc. Div.		
7 21	V.	5 10·37	—	—	56·4	49·3	4·3462	11	5	+ 4·0	54·8	49·5		
8 21	—	5 10·45	—	—	59·5	47·1	4·3519	17	8	+ 4·0	61·0	47·5		
8 21	—	5 10·45	—	—	56·1	45·5	4·3515	22	11	+ 4·0	54·8	45·8		
Mean	—	5 10·42	—	—	57·3	47·3	4·3499	17	8	+ 4·0	56·9	47·6	0·446 4·431	
1845.														
February.														
10 9	V.	4 37·72	3 36·70	—	70·4	174·4	4·4918	12	6	+ 4·5	70·0	174·9		
10 23	—	4 38·32	3 37·60	—	72·0	175·4	4·4986	5	3	+ 4·5	72·4	174·8		
11 2	—	4 38·02	3 38·27	—	71·0	176·0	4·4961	7	4	+ 2·5	72·5	175·7		
11 9	—	4 38·25	3 37·82	—	71·2	175·1	4·4948	7	3	+ 2·5	71·0	175·5		
11 22	—	4 38·40	3 37·67	—	71·5	178·8	4·4929	10	4	+ 2·5	72·0	178·3		
12 9	—	4 38·85	3 38·88	—	72·3	175·8	4·4952	6	3	+ 2·6	72·4	175·7		
Mean	—	4 38·26	3 37·82	—	71·4	175·9	4·4949	8	4	+ 3·2	71·7	175·8	0·414 4·467	
March.														
10 23	V.	4 35·17	3 34·67	—	70·3	175·6	4·5271	8	5	- 7·5	70·4	175·3		
11 2	—	4 35·10	3 35·27	—	72·3	176·6	4·5261	8	4	- 7·5	72·4	176·8		
11 9	—	4 35·17	3 35·27	—	71·0	174·9	4·5280	7	4	- 7·5	72·0	174·4		
11 12	—	4 35·17	3 35·27	—	71·0	175·0	4·5265	7	4	- 7·5	72·0	174·9		
11 21	—	4 34·95	3 35·12	—	71·0	176·0	4·5252	10	6	- 7·5	71·4	175·9		
12 4	—	4 34·87	3 35·05	—	73·0	177·9	4·5266	10	6	- 7·9	73·2	177·8		
Mean	—	4 35·07	3 35·11	—	71·4	176·0	4·5266	8	5	- 7·6	71·9	175·8	0·408 4·460	
April.														
13 23	V.	4 32·02	3 32·72	—	62·5	168·8	4·5512	13	7	- 5·5	61·8	169·9		
14 2	—	4 32·77	3 33·25	—	63·2	161·2	4·5548	13	8	- 5·5	62·3	161·4		
14 23	—	4 32·17	3 32·95	—	62·0	168·7	4·5516	13	7	- 5·5	62·0	169·5		
15 2	—	4 32·62	3 32·95	—	63·4	166·4	4·5524	14	8	- 5·7	63·5	167·0		
15 23	—	4 32·17	3 32·72	—	63·5	169·2	4·5528	14	7	- 5·7	63·3	169·4		
Mean	—	4 32·35	3 32·92	—	62·9	166·9	4·5526	13	7	- 5·6	62·6	167·4	0·404 4·454	
May.														
14 22	V.	4 30·59	3 31·14	—	60·7	168·6	4·5618	13	8	-19·2	59·5	169·4		
15 2	—	4 30·89	3 31·37	—	62·2	164·9	4·5531	12	8	-19·2	60·5	164·6		
15 8	—	4 30·82	3 31·89	—	63·0	164·6	4·5663	12	7	-19·2	60·8	163·6		
15 22	—	4 30·89	3 31·22	—	60·0	171·8	4·5597	10	6	-20·2	60·0	173·7		
16 2	—	4 30·74	3 31·59	—	60·7	166·2	4·5652	10	6	-20·2	60·6	166·0		
16 22	—	4 30·44	3 31·44	—	57·7	167·3	4·5626	11	7	-20·0	57·8	167·7		
Mean	—	4 30·73	3 31·44	—	60·7	167·2	4·5614	11	7	-19·7	59·9	167·5	0·402 4·463	
June.														
12 23	V.	4 29·47	3 30·84	—	53·2	164·3	4·5698	12	7	-19·4	51·5	164·5		
13 2	—	4 29·54	3 30·77	—	54·7	164·8	4·5700	11	6	-20·0	53·7	164·7		
13 7	—	4 29·77	3 30·92	—	56·5	163·9	4·5717	10	6	-20·0	53·1	—		
13 11	—	4 29·62	3 30·92	—	56·5	163·8	4·5721	14	7	-20·0	53·7	163·8		
13 13	—	4 29·62	3 30·99	—	56·2	163·8	4·5716	12	6	-20·0	53·8	163·9		
13 22	—	4 29·47	3 30·69	—	53·2	165·5	4·5692	12	6	-20·0	54·8	165·7		
Mean	—	4 29·58	3 30·86	—	55·0	164·3	4·5707	12	6	-19·9	53·4	164·5	0·400 4·458	

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